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Baseline Meteorological, Upper Air, and Air Quality Data Report Resolution Copper Mining Project

January 1 – March 31, 2016

PREPARED FOR:
RESOLUTION COPPER
A MEMBER OF RIO TINTO GROUP

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1.0 INTRODUCTION

This report summarizes the meteorological, upper air, 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 first quarter, January 1 – March 31, 2016. 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

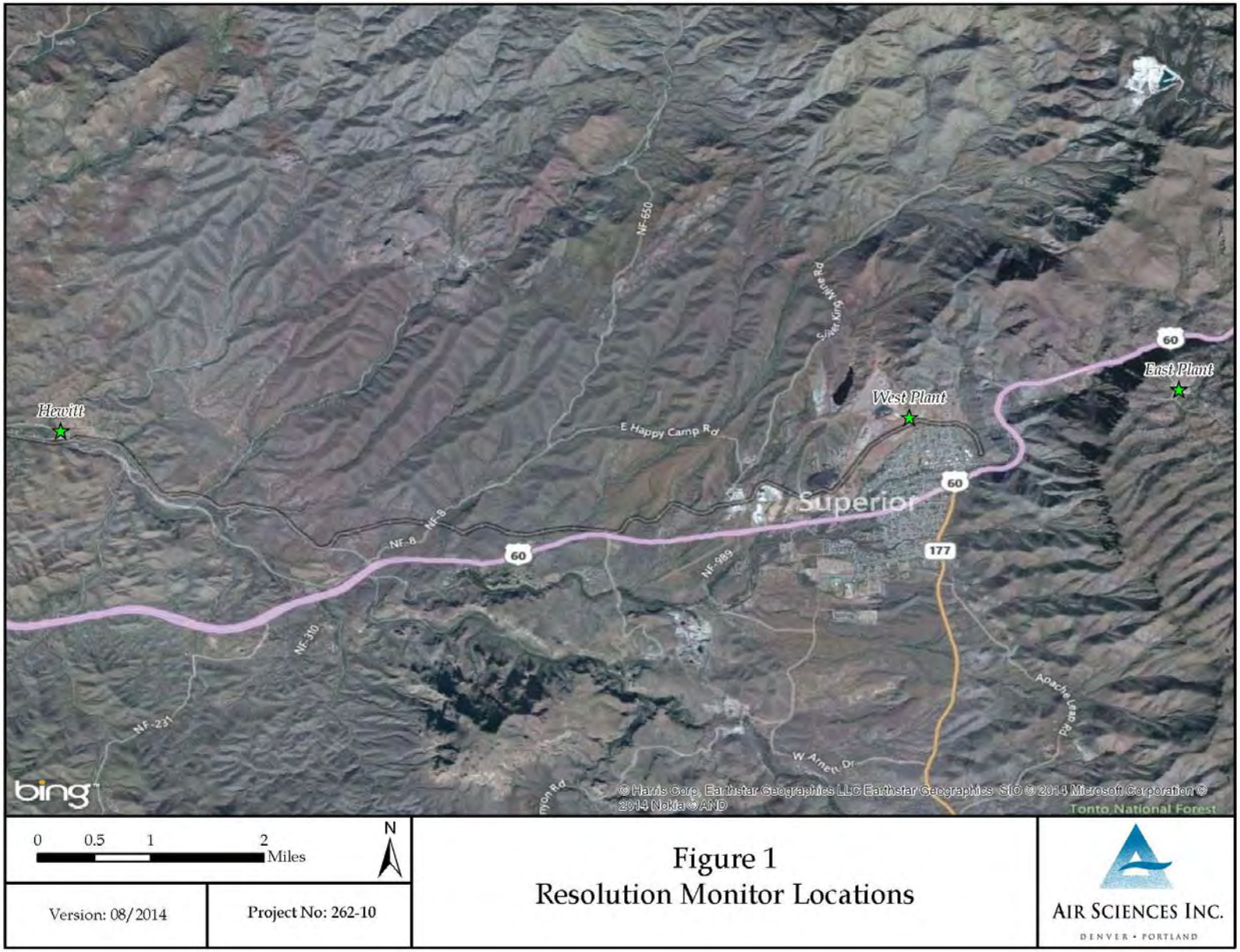
The Resolution Copper Project is located near Superior, Arizona. Currently there are three monitoring stations. The East Plant station is located at the main project site, east of Superior. The West Plant station is located at RCML's facilities directly north of Superior, Arizona. The Hewitt station is located approximately six miles west 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
East Plant	S32 T1S R13E	33.3030	-111.0676	4,199	GPS
West Plant	S35 T1S R12E	33.2994	-111.1021	2,949	GPS
Hewitt Meteorological	S35 T1S R11E	33.2978	-111.2109	2,235	GPS
Hewitt SoDAR	S35 T1S R11E	33.2981	-111.2114	2,236	GPS

Figure 1. Resolution Monitoring Stations Locations



1.2 Monitoring Program Description

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. Meteorological sensors at the Hewitt station are mounted on a 20-meter, open-lattice tower, and the SoDAR is housed within a weatherproof enclosure. Instrumentation for all three sites are listed by height, from ground level, in Table 2.

Table 2. Sensors and Heights

		Height (m)	East Plant	West Plant	Hewitt
AERMOD Meteorological Data	Horizontal wind speed (meters per second [m/s])	20			✓
	Horizontal wind direction (degrees [°])	20			✓
	Horizontal wind direction standard deviation (sigma theta)	20			✓
	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	✓	✓	
Upper -Air	Wind speed by vector component (u,v,w; [m/s]))	1			✓
	Wind direction by sub hourly scalar mean (degrees [°])	1			✓
	Standard deviation of vector component (u, v, w)	1			✓
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

1.2.1 Meteorological and Upper Air Data

Meteorological data are recorded by a digital data acquisition systems equipped with broadband modems for data transfer. The meteorological parameters are sampled on-site at one-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.

Upper-air data are computed and recorded as 15-minute averages using the SoDAR computer and internally programmed algorithms. These averages are temporarily stored on the SoDAR computer and securely transmitted every 24 hours via cellular broadband Internet, to the Air Sciences server.

Appendix A lists hourly meteorological and upper-air data from January 1 through March 31, 2016.

Meteorological and upper-air parameters are collected in support of air quality data. All 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 C lists hourly NO_2 data for the East Plant from January 1 through March 31, 2016.

Level 1 zero and span checks and Level 2 zero and span precision checks are conducted by the site operator biweekly 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 C lists hourly SO_2 data for the East Plant from January 1 through March 31, 2016.

Level 1 zero and span checks and Level 2 zero and span precision checks are conducted by the site operator biweekly 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 C lists hourly and rolling 8-hour average O_3 data for the East Plant from January 1 through March 31, 2016.

Level 1 zero and span checks and Level 2 zero and span precision checks are conducted by the site operator biweekly 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_{10} FEM, which holds the EPA designation (EQPM-0798-122). 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 B lists hourly $PM_{2.5}$ and PM_{10} data from January 1 through March 31, 2016.

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
January 1 – March 31, 2016
(percent)

	East Plant		West Plant		Hewitt		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological							
Wind speed (10 m)	2,181	99.9	2,176	99.6	2,180	99.8	90
Wind direction (10 m)	2,181	99.9	2,176	99.6	2,180	99.8	90
Temperature (2 m)	2,181	99.9	2,176	99.6	2,180	99.8	90
Delta temperature	2,181	99.9	2,176	99.6	2,180	99.8	90
Relative humidity	2,181	99.9	2,176	99.6	2,180	99.8	90
Barometric pressure	2,181	99.9	2,176	99.6	2,180	99.8	90
Precipitation	2,181	99.9	2,176	99.6	2,180	99.8	90
Solar radiation	2,181	99.9	2,176	99.6	2,180	99.8	90
SoDAR							
Wind speed (3 - 190 m)					1,950 - 2,010	89.3 - 92.0	90
Wind direction (3 - 190 m)					1,950 - 2,010	89.3 - 92.0	90
NO_2	88	96.7	--	--			75
O_3	67	73.6	--	--			75
SO_2	88	96.7	--	--			75
PM_{10}	83	91.2	81	89.0			75
$PM_{2.5}$	84	92.3	83	91.2			75

*Meteorological parameters are observed hourly (2,184 hours in this period).
NO_2, O_3, SO_2, and PM parameters are observed every 24 hours (91 days in this period).

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant

Two hours of meteorological data were invalidated at the East Plant station on January 26, 2016 due to a an audit and maintenance performed by Air Sciences. One hour of data was missing on March 13, 2016.

2.1.1.2 West Plant

Three hours of meteorological data were invalidated at the West Plant station on January 25, 2016 due to a an audit and maintenance performed by Air Sciences. Three hours of data were missing on January 27, 2016, one hour of data was missing on February 11, 2016, and one hour of data was missing on March 13, 2016.

2.1.1.3 Hewitt Station

Three hours of meteorological data were invalidated at Hewitt Station on January 26, 2016 due to a an audit and maintenance performed by Air Sciences. One hour of data was missing on March 13, 2016.

2.1.2 NO_2 Data Loss

NO_2 24-hour maximum data were invalidated on January 26, January 28, and March 23, 2016, due to audits, calibrations and maintenance performed by Air Sciences.

Additional invalid hourly NO_2 data were due to maintenance, Level 1 and Level 2 zero/span checks.

2.1.3 SO_2 Data Loss

SO_2 24-hour maximum data were invalidated on January 26, January 28, and March 23, 2016, due to audits, calibrations and maintenance performed by Air Sciences.

Additional invalid hourly SO_2 data were due to Level 1 and Level 2 zero/span checks.

2.1.4 O_3 Data Loss

O_3 rolling 8-hour maximum data were invalidated on January 26, January 27, January 28, and March 23, 2016, due to audits, calibrations and maintenance performed by Air Sciences. Additional O_3 rolling 8-hour maximum data were invalidated from March 4 to March 22, 2016 due to a pump failure.

Additional invalid hourly O_3 data were due to Level 1 and Level 2 zero/span checks.

2.1.5 PM Data Loss

2.1.5.1 East Plant

24-hour average PM_{10} data were invalidated from March 15 to March 17, 2016 due to a tape break error, and from March 18 to March 22, 2016 due to the barometric pressure sensor being out of tolerance.

24-hour average $PM_{2.5}$ data were invalidated from January 5 to January 11, 2016 to a tape error.

Additional invalid hourly PM_{10} and $PM_{2.5}$ data at the East Plant were due to monthly flow verifications, regularly scheduled maintenance, power outages, internal instrument errors, and audits performed by Air Sciences on January 26 and March 22, 2016.

2.1.5.2 West Plant

24-hour average PM_{10} data were invalidated from January 5 to January 11, 2016 due to flow errors, and on March 14, 2016 due to internal instrument errors.

24-hour average $PM_{2.5}$ data were invalidated from January 1 to January 5, 2016 due to tape errors and on January 26, January 27, and February 15, 2016 due to internal instrument errors.

Additional invalid hourly PM_{10} and $PM_{2.5}$ data at the West Plant were due to monthly flow verifications, regularly scheduled maintenance, power outages, internal instrument errors, and audits performed by Air Sciences on January 25 and March 21, 2016.

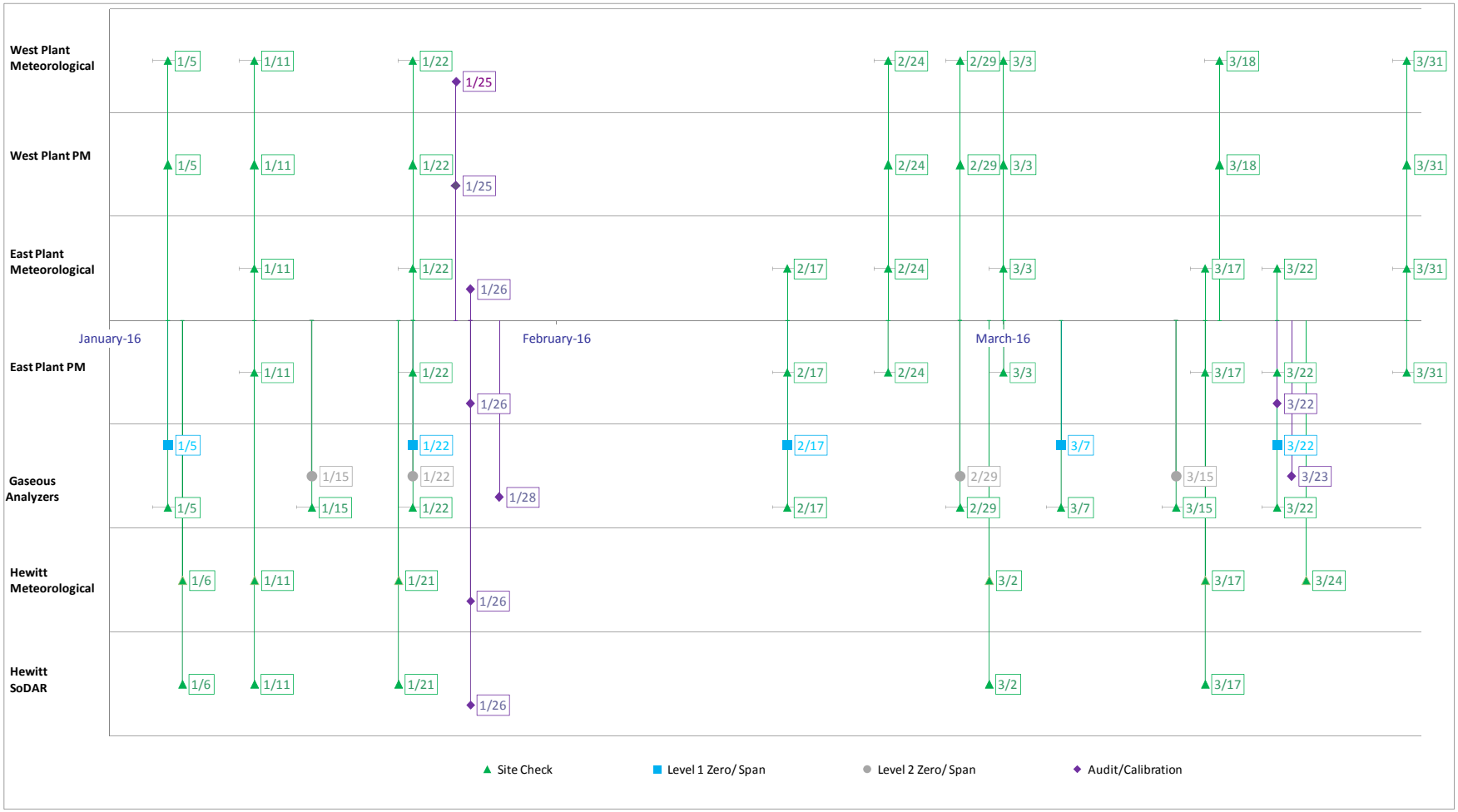
2.2 Quality Control

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-13-003, May 2013)
- 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-13-004, October 2013)
- 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. The most recent audits of the meteorological stations occurred on January 25 and 26, 2016. Audits and/or calibrations of the ambient air quality monitors and analyzers are required every three months. At the West and East Plant, Air Sciences performed audits of the particulate monitors on January 25 and January 26, 2016, respectively. Audits of the air quality analyzers at East Plant occurred on January 28 and March 23, 2016. 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 D-I.

Figure 2. Dates of Site Checks, Audits, and Calibrations
January 1- March 31, 2016



3.0 METEOROLOGICAL DATA SUMMARY AND DISCUSSION

3.1 Meteorological Data Summary

Meteorological and upper-air data from the first quarter have been compiled and summarized in graphical and tabular form. Meteorological and upper-air summary sheets (Figure 3 through Figure 4) are comprised of the following:

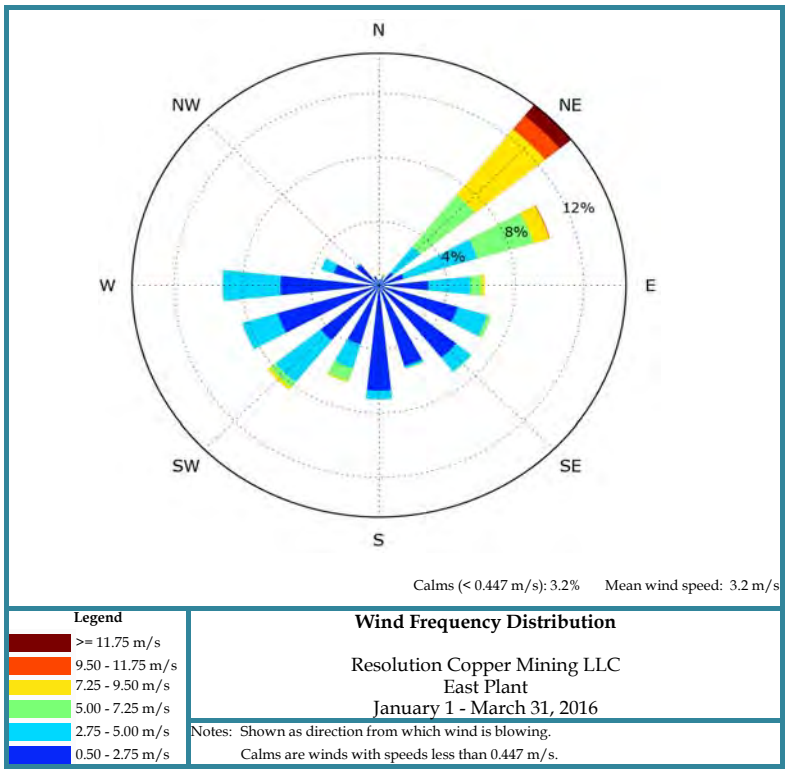
Wind Rose – Graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/ s.

Wind Frequency Table –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.

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.

Figure 3: East Plant Meteorological Data Summary

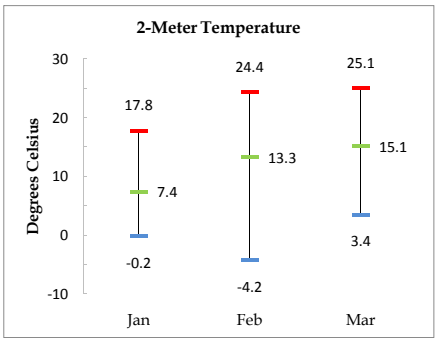
Meteorological Data: January 1 - March 31, 2016

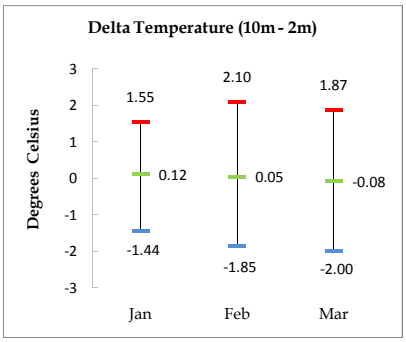


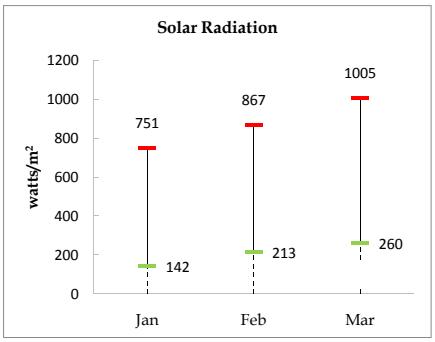
Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	0.3	0.0	0.0	0.0	0.0	0.0	0.4	1.0
NNE	0.1	0.4	0.1	0.0	0.1	0.0	0.7	3.0
NE	0.2	1.0	1.9	3.4	6.6	1.4	14.5	7.1
ENE	0.3	1.6	4.1	3.3	1.2	0.0	10.5	4.7
E	0.6	2.7	2.1	0.6	0.3	0.0	6.2	3.2
ESE	1.9	3.3	1.4	0.2	0.0	0.0	6.8	2.3
SE	3.3	3.2	0.5	0.0	0.0	0.0	7.0	1.7
SSE	4.0	1.3	0.1	0.0	0.0	0.0	5.5	1.3
S	4.6	2.1	0.5	0.0	0.0	0.0	7.2	1.4
SSW	1.9	2.1	1.4	0.8	0.1	0.0	6.3	2.7
SW	1.2	3.9	2.8	0.4	0.2	0.0	8.4	2.9
WSW	1.5	5.7	1.2	0.0	0.0	0.0	8.3	2.2
W	1.8	4.8	2.6	0.0	0.0	0.0	9.2	2.4
WNW	0.9	2.0	0.6	0.0	0.0	0.0	3.5	2.1
NW	0.5	1.2	0.1	0.0	0.0	0.0	1.8	1.8
NNW	0.5	0.1	0.0	0.0	0.0	0.0	0.6	1.4
All	23.7	35.3	19.3	8.8	8.4	1.4	96.8	3.2

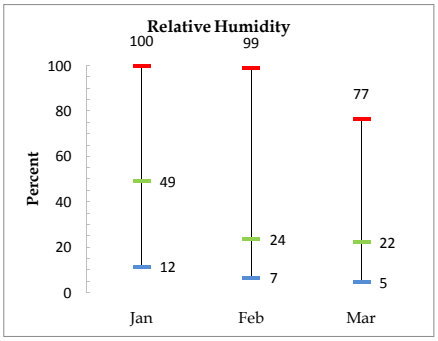
Key

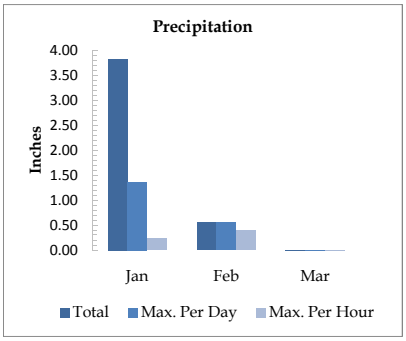
Maximum — Average — Minimum











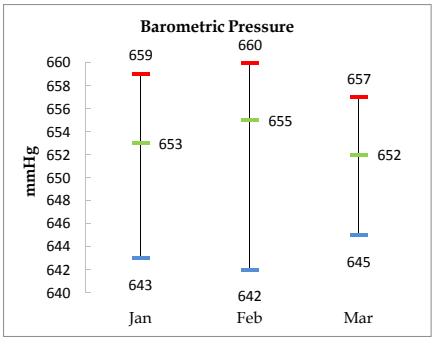
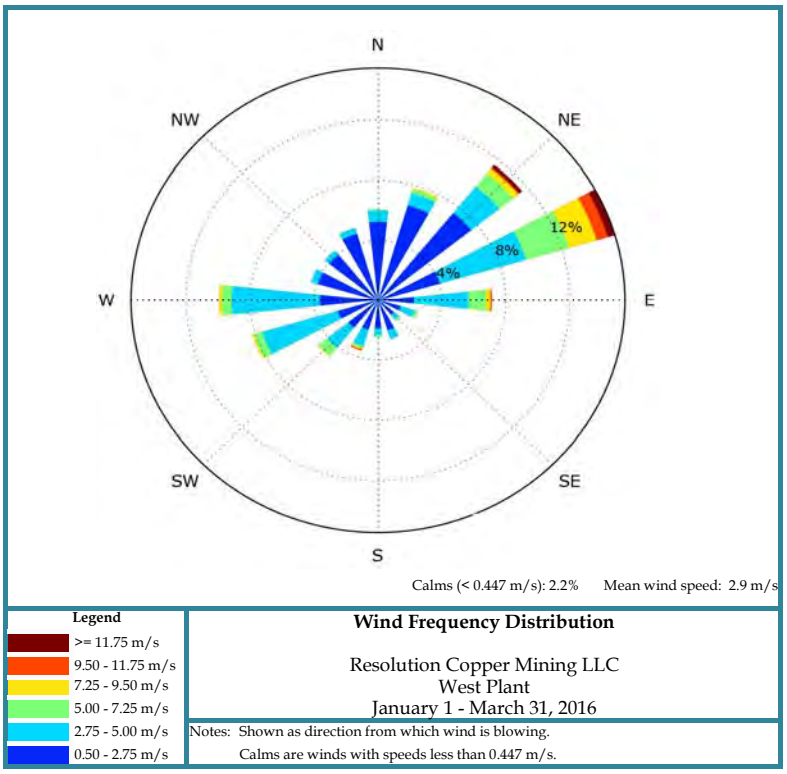


Figure 4: West Plant Meteorological Data Summary

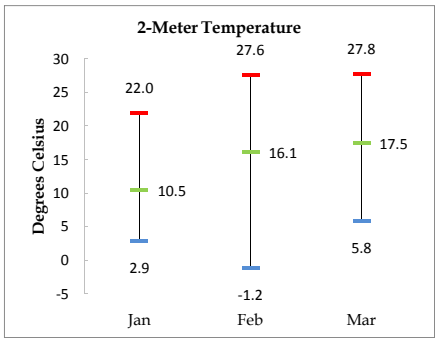
Meteorological Data: January 1 - March 31, 2016

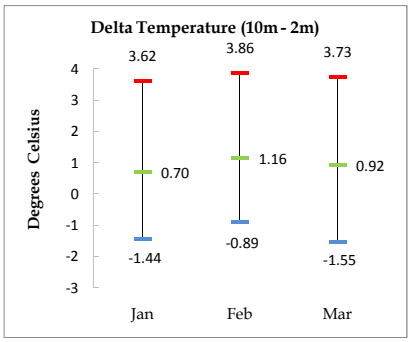


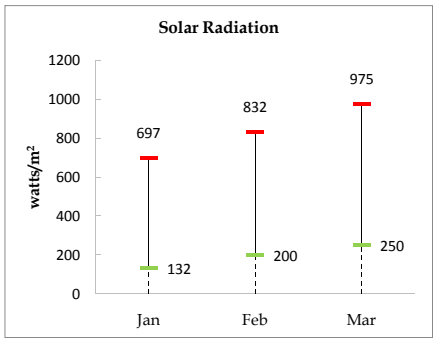
	Speed Class Intervals (m/s) (percent of occurrence)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	4.6	1.0	0.5	0.0	0.0	0.0	6.1	1.4
NNE	4.4	2.4	0.6	0.2	0.1	0.0	7.8	1.8
NE	3.6	4.5	1.7	1.0	0.5	0.3	11.6	2.8
ENE	2.4	2.3	5.0	2.6	2.1	1.1	15.4	4.7
E	1.0	1.6	3.1	1.1	0.4	0.0	7.1	3.6
ESE	0.5	1.1	0.7	0.1	0.0	0.0	2.6	2.7
SE	0.6	0.7	0.4	0.1	0.0	0.0	1.8	2.3
SSE	0.7	1.6	0.4	0.0	0.0	0.0	2.7	2.1
S	1.0	1.0	0.4	0.1	0.0	0.0	2.5	2.1
SSW	0.6	1.7	0.9	0.1	0.2	0.0	3.5	2.9
SW	0.6	2.1	1.4	0.7	0.0	0.0	4.8	3.1
WSW	0.7	2.5	4.3	0.6	0.1	0.0	8.2	3.4
W	1.1	3.4	4.7	0.6	0.2	0.0	9.9	3.3
WNW	1.6	2.3	0.4	0.0	0.0	0.0	4.4	1.9
NW	2.8	1.3	0.2	0.0	0.0	0.0	4.3	1.4
NNW	3.6	1.1	0.3	0.0	0.0	0.0	5.1	1.4
All	29.7	30.6	25.1	7.2	3.7	1.5	97.8	2.9

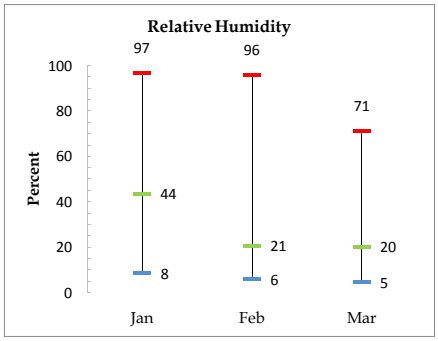
Key

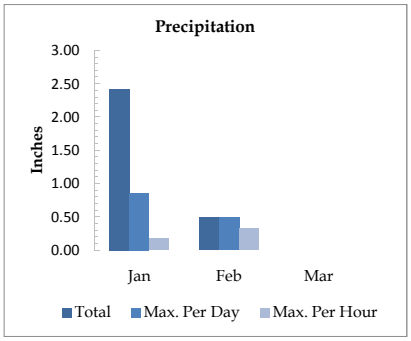
Maximum — Average — Minimum











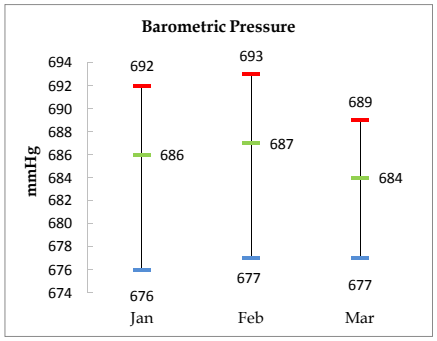
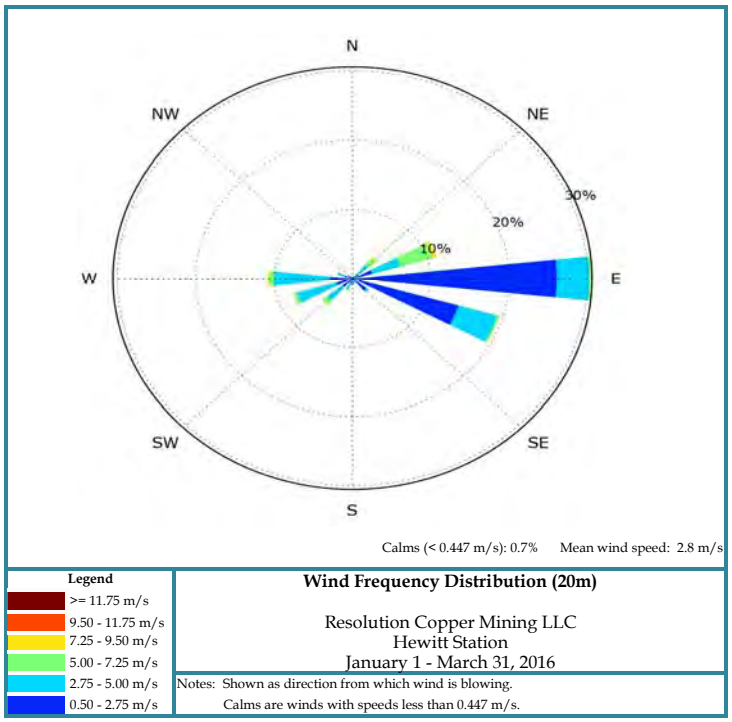


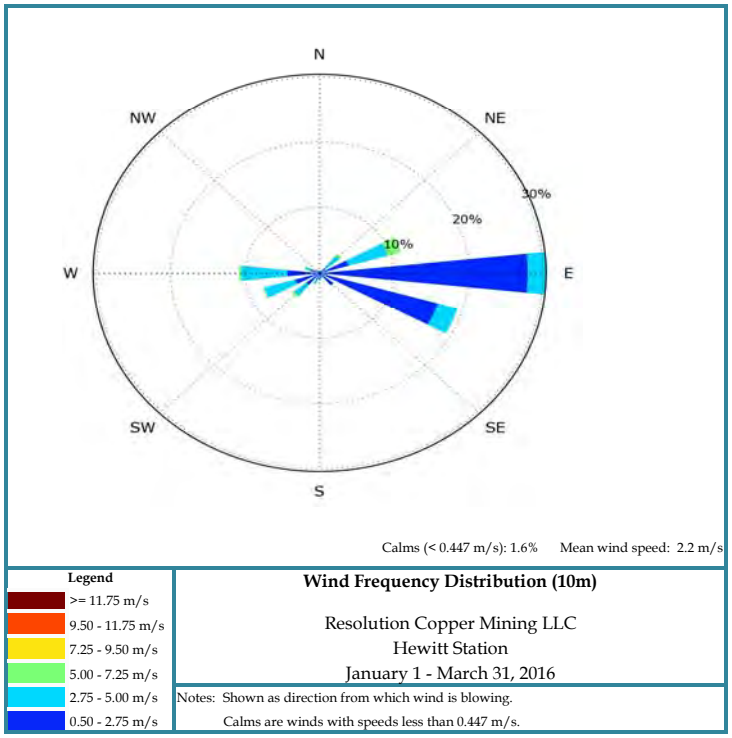
Figure 5: Hewitt Station Meteorological Data Summary

Meteorological Data: January 1 - March 31, 2016



20 Meters

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	0.1	0.1	0.1	0.0	0.0	0.0	0.4	2.2
NNE	0.1	0.2	0.2	0.0	0.0	0.0	0.6	2.4
NE	0.6	0.5	1.6	1.2	0.2	0.0	4.0	4.2
ENE	1.1	1.7	3.6	4.2	0.6	0.0	11.1	4.4
E	7.3	19.4	3.5	0.4	0.0	0.0	30.6	2.0
ESE	5.7	9.1	4.4	0.3	0.0	0.0	19.5	2.2
SE	1.2	1.2	0.2	0.0	0.0	0.0	2.7	1.8
SSE	0.4	0.3	0.2	0.0	0.0	0.0	0.9	2.0
S	0.3	0.5	0.2	0.0	0.0	0.0	1.1	2.3
SSW	0.3	0.7	0.6	0.2	0.0	0.0	1.9	3.0
SW	0.5	1.6	2.1	0.7	0.0	0.0	4.9	3.4
WSW	0.2	2.6	4.5	0.4	0.0	0.0	7.8	3.3
W	0.4	3.0	6.6	0.6	0.2	0.0	10.8	3.4
WNW	0.3	0.9	0.7	0.1	0.0	0.0	2.1	2.7
NW	0.4	0.2	0.0	0.0	0.0	0.0	0.6	1.5
NNW	0.2	0.2	0.0	0.0	0.0	0.0	0.5	1.8
All	19.2	42.3	28.6	8.1	1.1	0.0	99.3	2.8

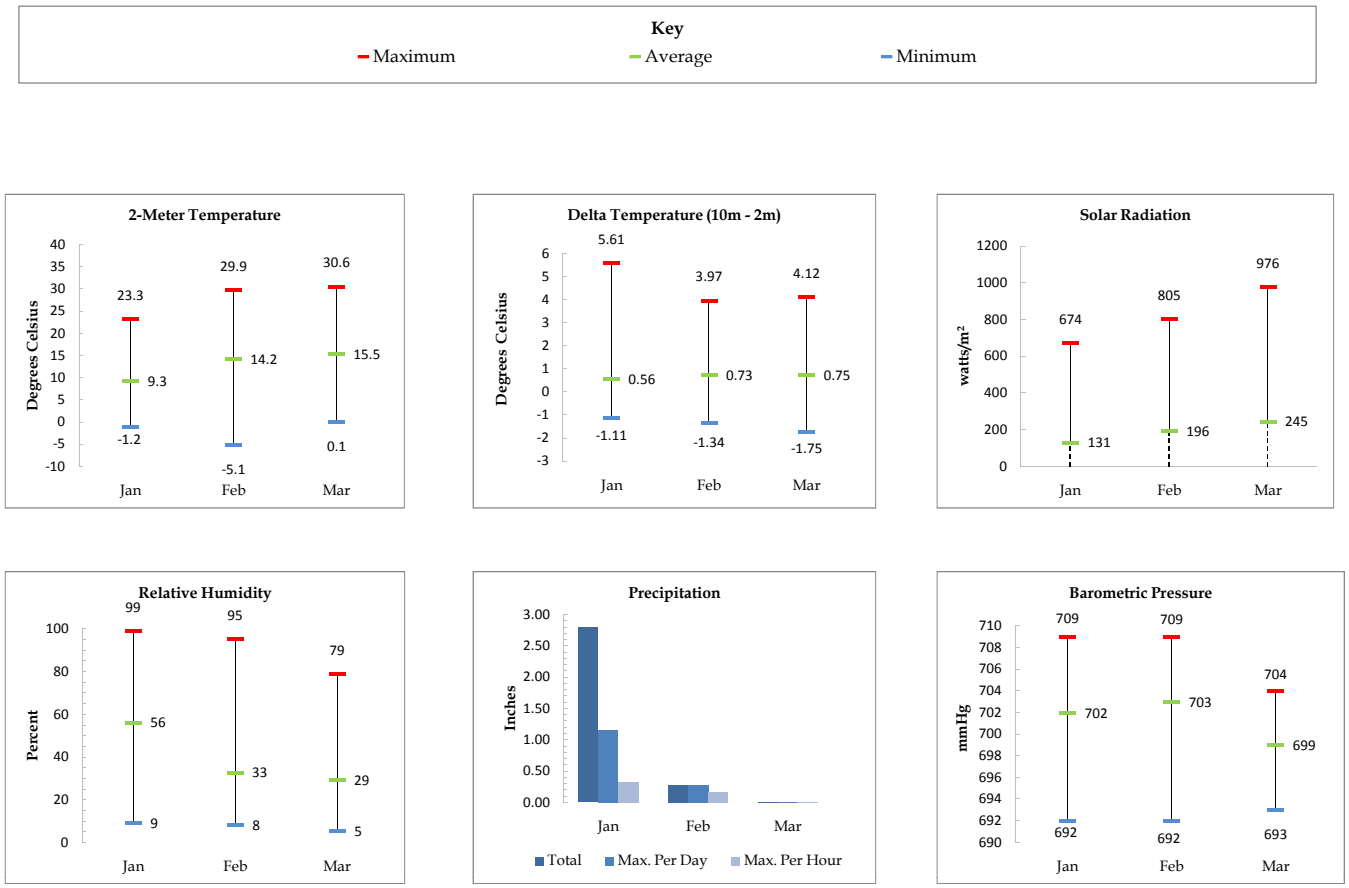


10 Meters

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	1.6
NNE	0.1	0.3	0.1	0.0	0.0	0.0	0.5	2.3
NE	0.4	0.7	2.3	0.3	0.0	0.0	3.8	3.6
ENE	2.2	2.2	5.2	1.8	0.0	0.0	11.4	3.4
E	23.7	4.9	1.7	0.0	0.0	0.0	30.4	1.4
ESE	11.4	6.3	1.6	0.0	0.0	0.0	19.3	1.6
SE	1.3	1.1	0.0	0.0	0.0	0.0	2.4	1.5
SSE	0.4	0.3	0.1	0.0	0.0	0.0	0.8	1.7
S	0.5	0.5	0.2	0.0	0.0	0.0	1.1	1.8
SSW	0.4	0.6	0.6	0.0	0.0	0.0	1.7	2.6
SW	0.5	2.2	1.7	0.4	0.0	0.0	4.8	3.0
WSW	0.8	4.0	3.0	0.1	0.0	0.0	7.9	2.8
W	1.3	4.4	4.8	0.2	0.1	0.0	10.8	2.9
WNW	0.5	1.0	0.6	0.0	0.0	0.0	2.1	2.4
NW	0.5	0.2	0.0	0.0	0.0	0.0	0.6	1.3
NNW	0.2	0.2	0.0	0.0	0.0	0.0	0.4	1.6
All	44.3	29.1	21.9	2.9	0.2	0.0	98.4	2.2

Figure 5: Hewitt Station Meteorological Data Summary (Continued)

Meteorological Data: January 1 - March 31, 2016



3.2 Meteorological and Upper-Air Data Discussion

The meteorological and upper-air data collected at the East Plant, West Plant, and Hewitt sites for the first quarter of 2016 met all data recovery objectives.

3.2.1 Upper-Air and Anemometer Data Comparison

Data from the 20-meter upper-air parameter and the 20-meter anemometer have been compared as an additional quality control check and general gauge of sensor accuracy.

Bivariate scatter plots with linear regressions compare the wind speed, u, and v components. The plots show a linear relation between the 20-meter upper-air parameter and the 20-meter anemometer, with a few outliers.

Figure 6. Wind Speed Comparison
January 1 – March 31, 2016

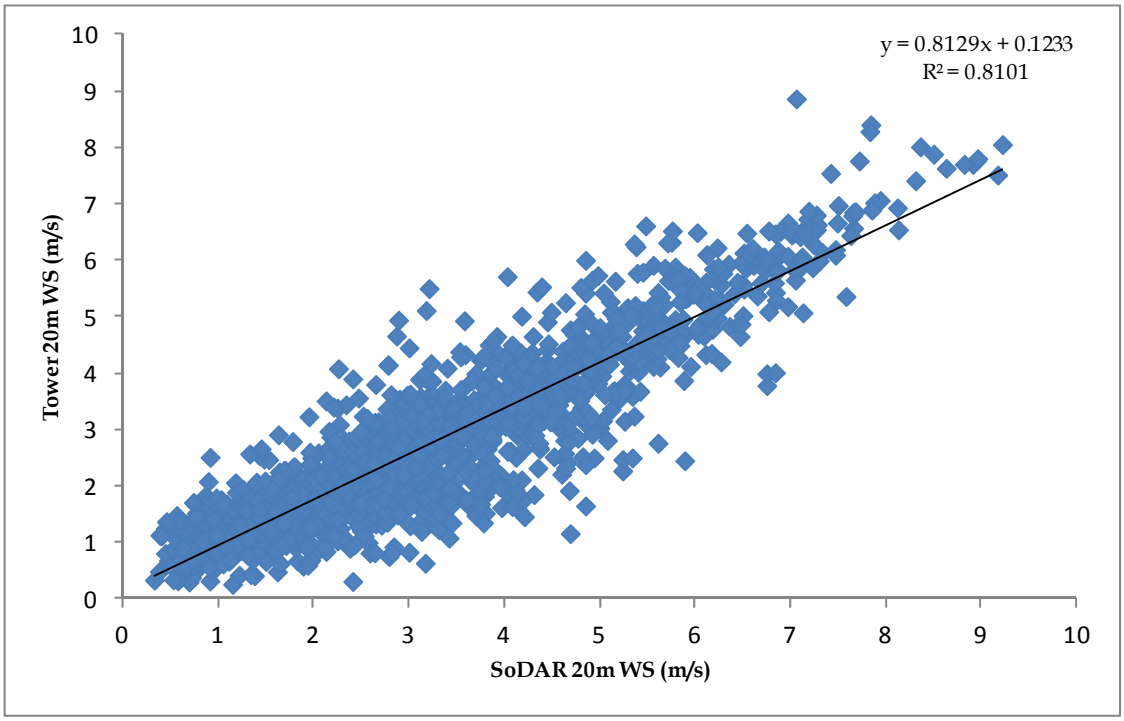


Figure 7. Zonal Component (u) Comparison
January 1 – March 31, 2016

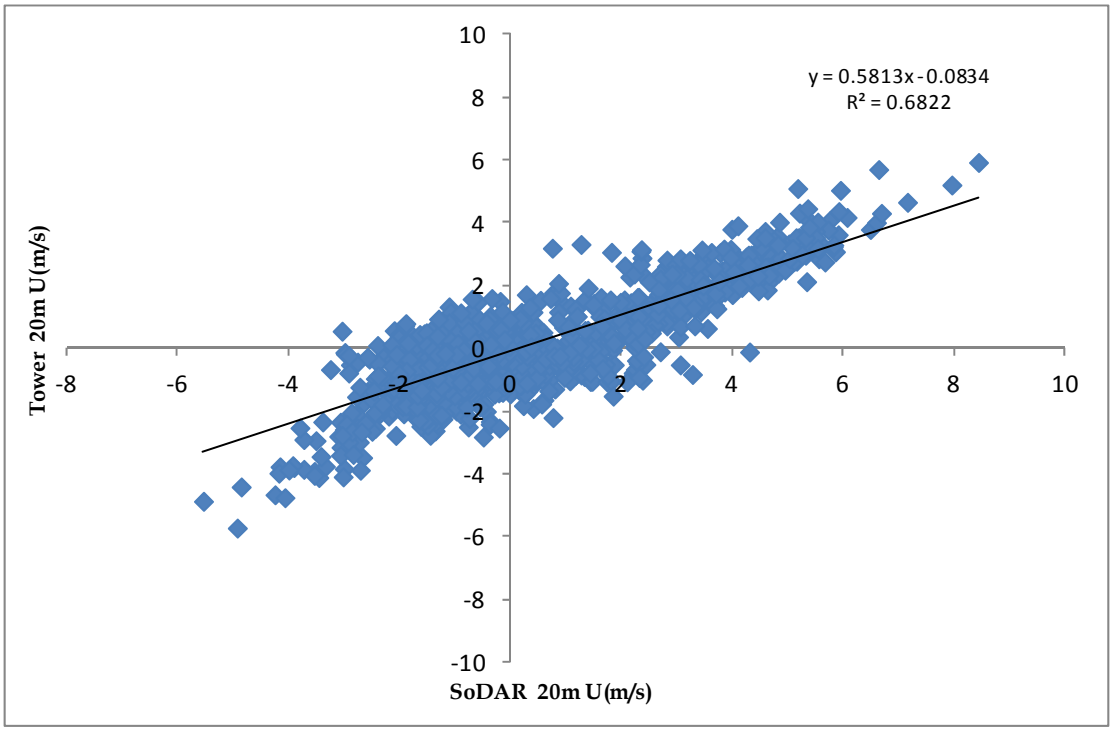
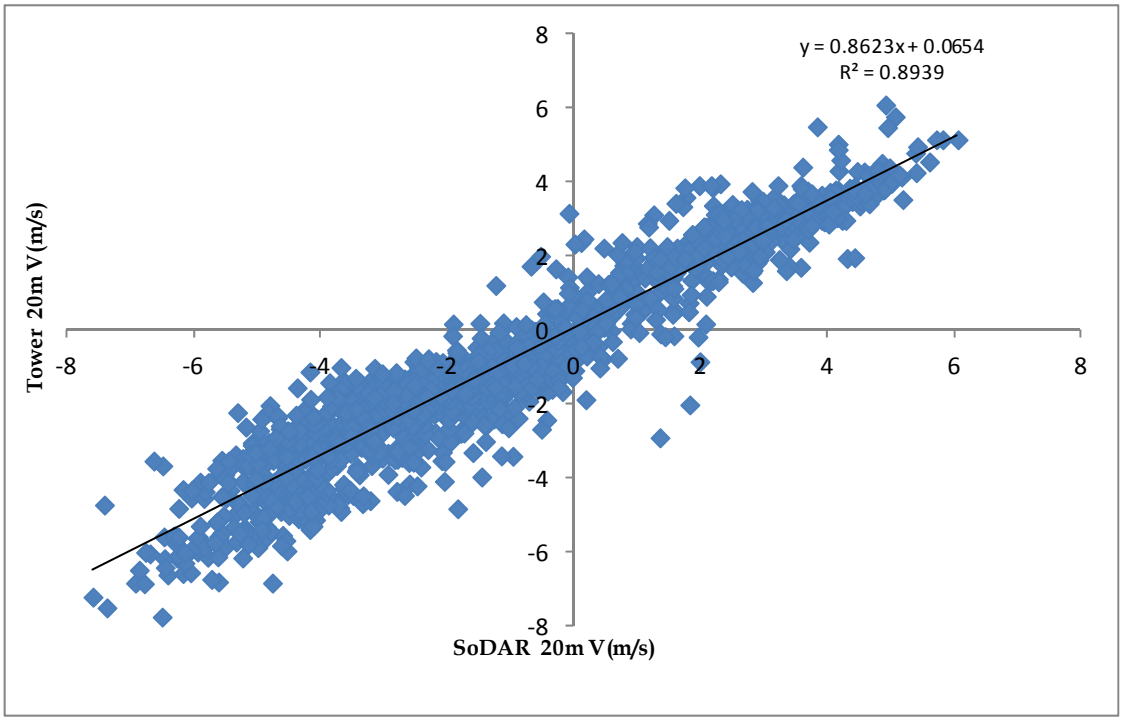


Figure 8. Meridional Component (v) Comparison
January 1 – March 31, 2016

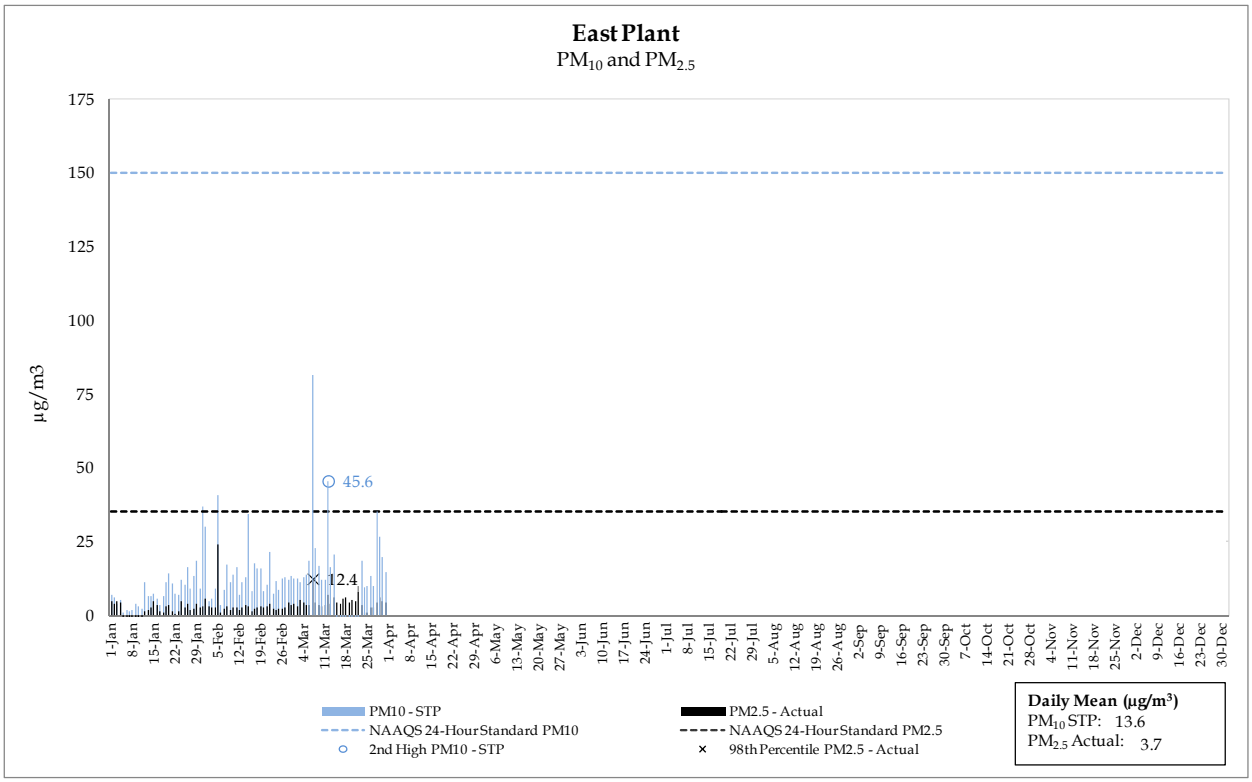


4.0 PM DATA SUMMARY AND DISCUSSION

4.1 East Plant PM Data Summary

Figure 9 presents the PM_{10} and $PM_{2.5}$ data collected at the East Plant site for 2016 (YTD), and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. 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.

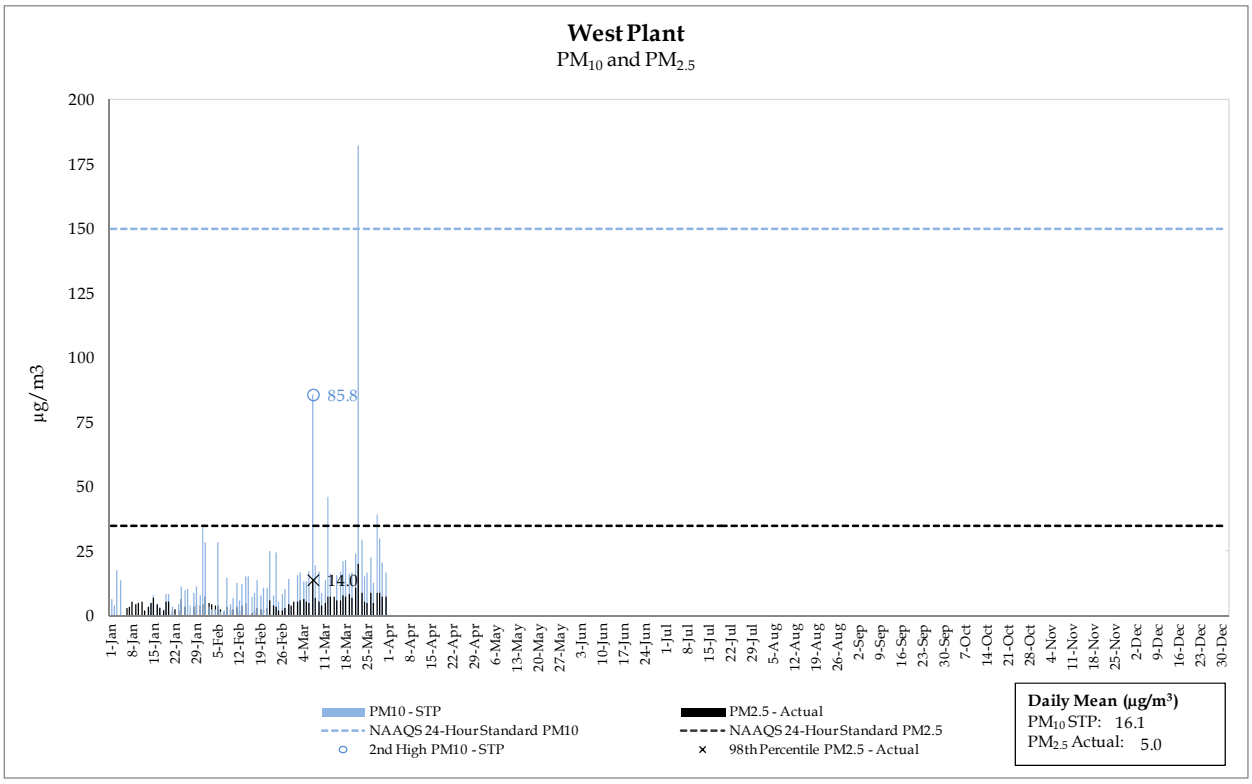
Figure 9. East Plant Particulate Data



4.2 West Plant PM Data Summary

Figure 10 presents the PM_{10} and $PM_{2.5}$ data collected at the West Plant site for 2016 (YTD), and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. 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 10. 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/m^3 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/m^3 is equal to or less than one (second-high value).

As shown in Figure 9 and Figure 10, the second-high PM_{10} concentrations recorded at the East and West Plants are 45.6 µg/m^3 and 85.5 µg/m^3, respectively. Both the East and West Plants' second-high values are below the NAAQS of 150 µg/m^3.

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 μg/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 μg/m^3.

As shown in Figure 9 and Figure 10, arithmetic mean concentrations for the East and West Plants are 3.7 and 5.0 μg/m^3, respectively. Both the East and West Plants' arithmetic mean values are below the NAAQS of 12 μg/m^3.

Figure 9 and Figure 10 also show the 98th percentile concentrations at the East and West Plants, which were 12.4 and 14.0 μg/m^3, respectively. The 98th percentiles of both the East and West Plants' 24-hour concentrations are also below 35 μg/m^3.

5.0 NO_2 DATA SUMMARY AND DISCUSSION

5.1 NO_2 Data Summary

Figure 11 and Figure 12 present the NO_2 maximum hourly concentrations for each calendar day, and hourly data collected at the East Plant site for 2016 (YTD). Figure 11 shows the 98th percentile compared to the one-hour NO_2 standard. Figure 12 shows the mean hourly NO_2 concentration compared with the annual NO_2 standard.

Figure 11. NO_2 Maximum Hourly Concentration for Each Calendar Day

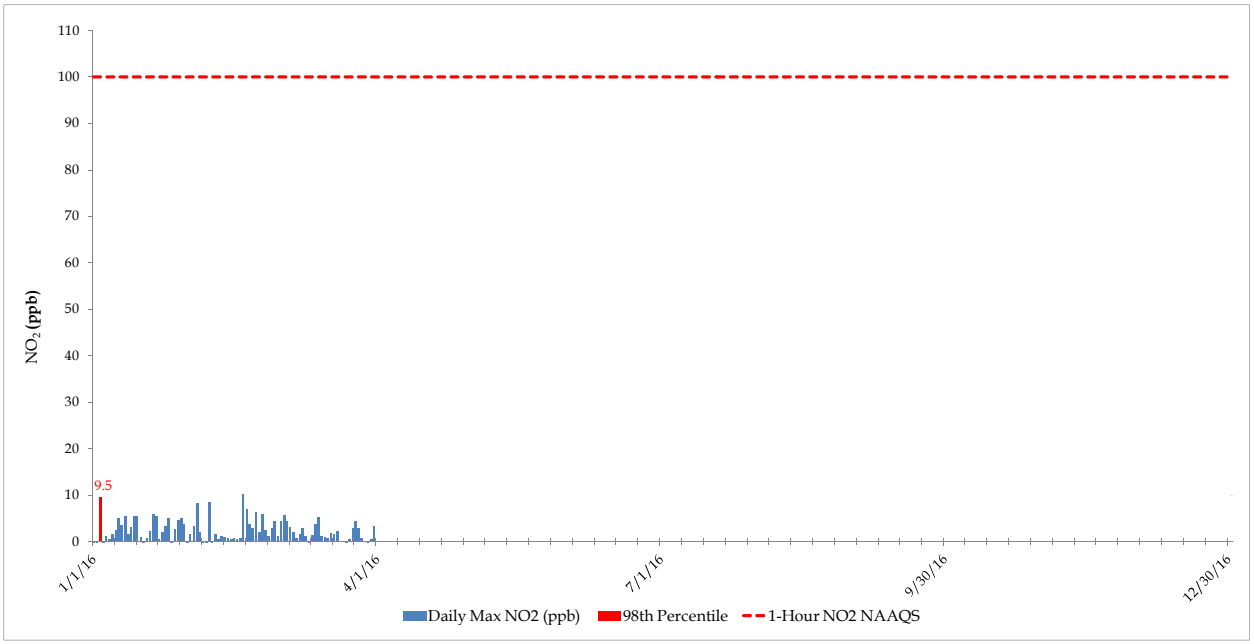
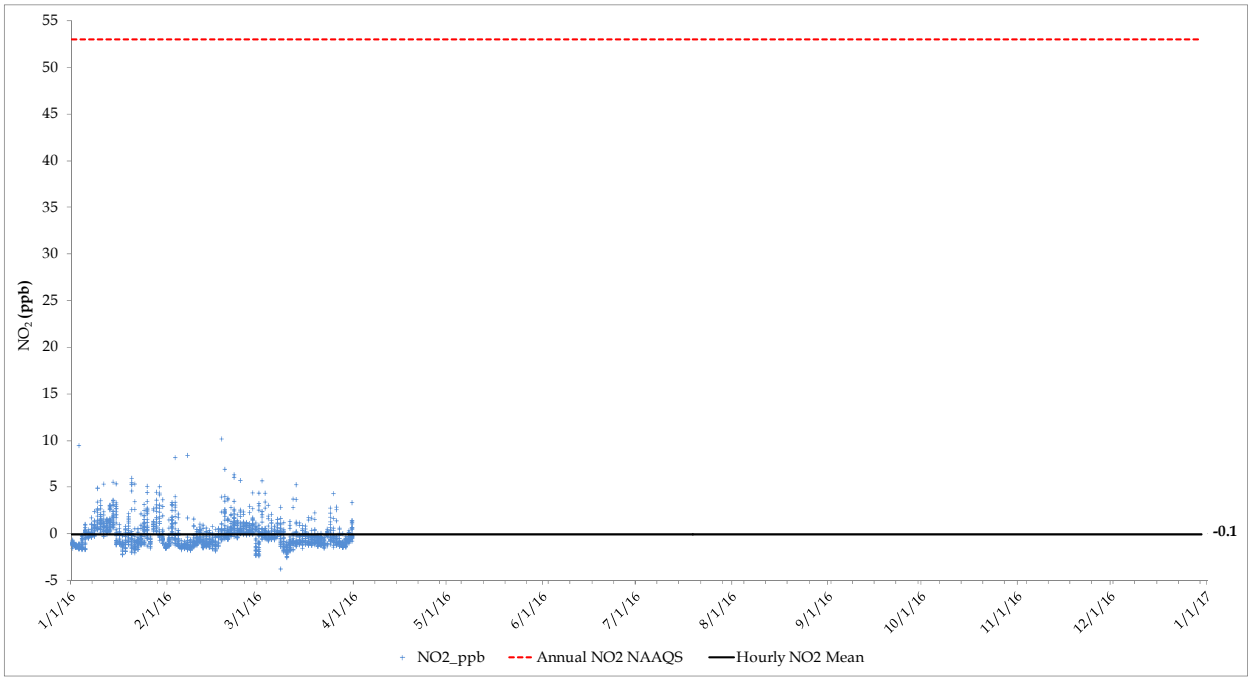


Figure 12. NO_2 Mean Hourly Concentrations



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.

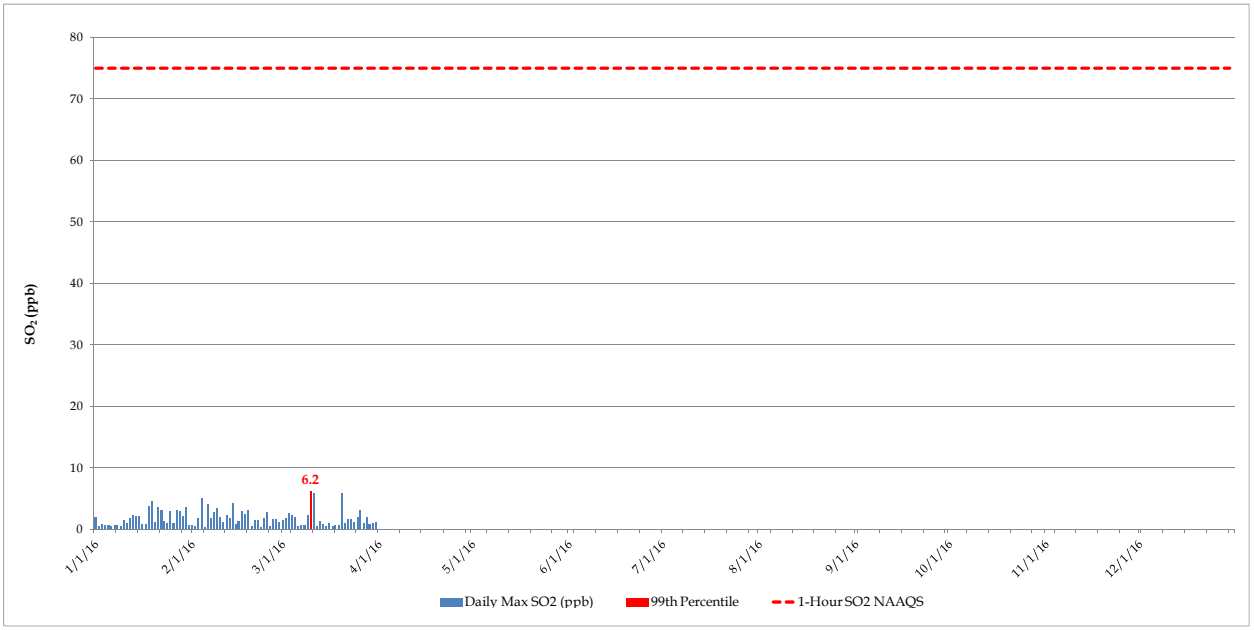
As shown in Figure 11, the 98th percentile of the daily maximum 1-hour average NO_2 concentration for 2016 (YTD) is 9.5 ppb, which is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 12, the 2016 (YTD) hourly NO_2 average is -0.1 ppb, which is below the annual NO_2 NAAQS of 53 ppb. Slight, negative concentrations are normal when the analyzer is operating near the zero calibration set point.

6.0 SO_2 DATA SUMMARY AND DISCUSSION

6.1 SO_2 Data Summary

Figure 13 presents the maximum hourly SO_2 concentrations for each calendar day collected at the East Plant site for 2016 (YTD), and it shows the 99th percentile (labeled) compared to the one-hour SO_2 standard.

Figure 13. SO_2 Maximum Hourly Concentration for Each Calendar Day



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.

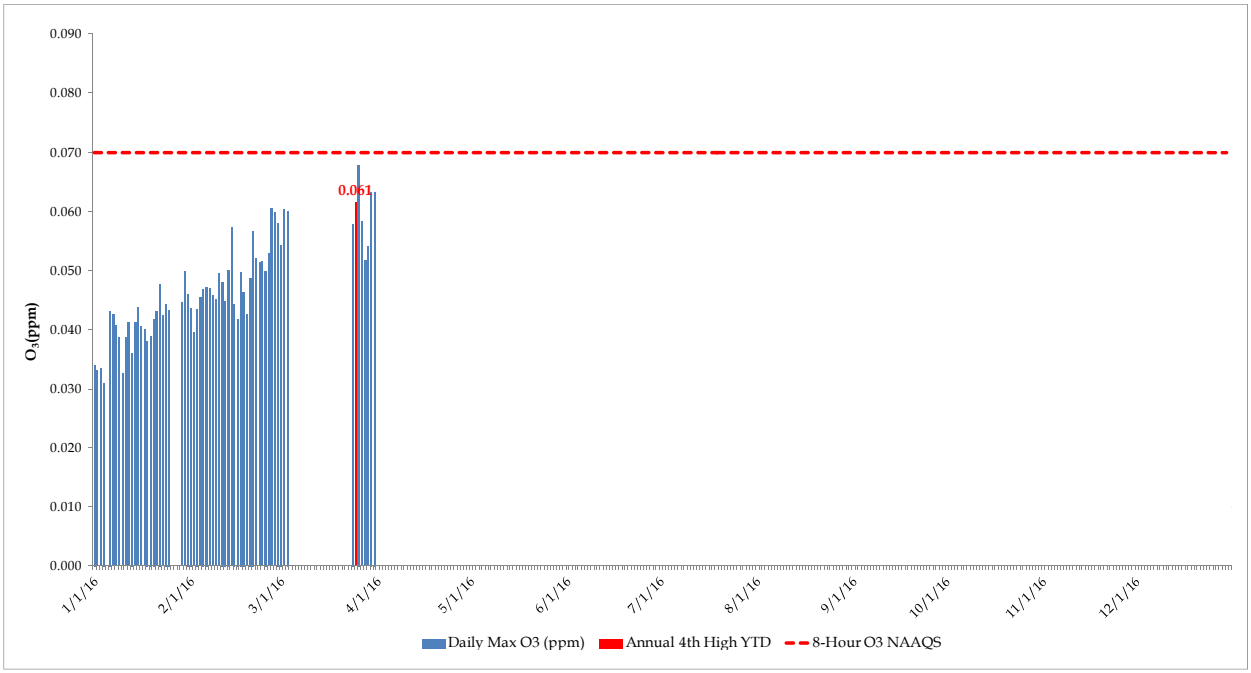
As shown in Figure 13, the 99th percentile 1-hour maximum concentration for 2016 (YTD) is 6.2 ppb, which is below the annual SO_2 NAAQS of 75 ppb.

7.0 O_3 DATA SUMMARY AND DISCUSSION

7.1 O_3 Data Summary

Figure 14 presents the daily rolling 8-hour maximum O_3 data collected at the East Plant site for 2016 (YTD), and it shows the fourth-highest rolling 8-hour average compared to the eight-hour O_3 standard.

Figure 14. O_3 Daily Rolling 8-Hour Maximum



7.2 O_3 Data Discussion

The level of the primary and secondary 8-hour NAAQS for ozone was changed from 0.075 parts per million (ppm) to 0.07 ppm, daily maximum average in the EPA's final ruling signed on October 1, 2015. The new NAAQS of 0.07 ppm is effective as of December 28, 2015.

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 0.07 ppm.

Figure 14 shows that the averaged fourth-high maximum recorded at the East Plant is 0.061 ppm. This concentration is below the NAAQS 8-hour O_3 standard of 0.070 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).

Appendix A: Meteorological Data – Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jan 2016

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	3.9	5.1	6.1	7.2	6.9	7.4	6.8	7.3	6.8	6.5	6.7	6.5	5.2	5.3	4.6	5.0	4.4	6.1	7.3	9.3	9.5	8.6	8.2	6.1	6.5	9.5	3.9
2	7.6	9.5	9.3	8.6	6.0	6.0	6.6	6.7	8.9	8.5	9.4	9.5	9.0	8.5	8.0	8.0	7.2	6.0	5.5	5.4	6.5	5.6	5.8	8.3	7.5	9.5	5.4
3	8.8	4.8	4.9	6.5	6.7	7.8	7.9	7.3	7.2	6.3	7.4	7.5	7.8	8.7	8.5	7.5	6.4	5.6	4.7	4.2	6.2	8.0	7.2	6.0	6.8	8.8	4.2
4	8.2	7.7	7.7	7.9	8.0	7.8	7.3	6.7	7.8	7.4	4.6	4.8	2.2	1.9	3.0	5.7	3.9	4.0	3.1	3.5	3.3	4.0	3.2	3.3	5.3	8.2	1.9
5	2.7	2.1	2.3	2.5	1.8	2.2	2.2	2.2	2.8	3.1	2.6	2.7	2.2	0.8	1.3	1.7	1.2	1.0	1.1	1.4	2.3	4.5	4.5	4.8	2.3	4.8	0.8
6	4.7	4.6	5.1	5.3	5.7	5.4	3.1	4.6	6.1	5.5	4.1	4.2	3.0	3.9	3.6	2.4	1.7	1.2	0.9	0.3	0.3	0.6	0.5	0.7	3.2	6.1	0.3
7	0.6	1.9	3.5	3.5	3.8	4.6	5.9	6.8	6.9	6.5	5.2	4.3	3.5	2.3	1.4	1.2	1.9	2.3	2.1	1.4	0.7	2.9	3.1	1.6	3.3	6.9	0.6
8	1.8	3.0	3.4	3.7	3.5	2.2	2.4	2.1	2.6	2.6	2.6	1.5	1.3	1.5	1.8	1.9	0.9	1.9	1.8	2.5	1.4	1.0	1.2	0.7	2.1	3.7	0.7
9	0.3	1.1	1.3	1.2	1.1	0.9	0.3	0.9	1.2	1.0	1.2	1.4	2.5	2.3	1.5	1.4	1.0	1.0	1.9	1.6	0.3	0.1	1.0	0.7	1.1	2.5	0.1
10	0.9	1.2	1.0	1.3	1.1	1.4	1.6	1.9	2.1	2.3	2.6	2.6	1.9	1.4	2.2	1.6	1.2	1.8	1.7	1.5	1.0	0.6	1.0	1.0	1.5	2.6	0.6
11	0.5	1.0	4.1	7.1	6.6	7.7	6.1	4.6	4.4	5.0	6.5	5.0	5.6	4.7	3.7	3.9	3.7	2.3	3.1	3.4	4.6	3.6	3.2	2.6	4.3	7.7	0.5
12	2.8	2.6	3.1	2.8	2.9	3.2	3.1	2.8	5.3	8.1	7.4	7.1	7.9	7.5	6.9	6.8	7.0	5.8	5.2	3.8	3.1	6.1	4.5	4.1	5.0	8.1	2.6
13	3.3	2.8	3.1	5.0	6.0	5.7	3.3	4.4	4.5	4.4	4.9	4.9	4.2	1.6	3.1	2.0	1.8	0.9	0.8	0.7	0.4	0.7	0.6	0.6	2.9	6.0	0.4
14	0.7	1.1	0.6	0.7	0.5	0.6	0.6	1.1	0.7	0.8	0.8	2.2	2.7	2.8	2.5	1.9	1.2	2.6	1.4	0.5	0.5	0.5	0.4	0.4	1.2	2.8	0.4
15	0.3	0.3	0.4	0.5	0.6	0.7	0.6	0.8	2.0	2.4	2.5	2.3	2.8	2.3	2.6	2.6	2.9	2.1	2.5	1.6	0.8	0.8	1.0	1.6	1.6	2.9	0.3
16	0.5	0.8	1.1	1.5	2.0	2.2	1.8	1.7	1.6	1.4	2.0	1.6	2.8	3.0	2.8	3.1	2.4	1.8	1.8	3.6	1.7	1.8	1.3	1.9	1.9	3.6	0.5
17	1.6	0.9	0.9	1.7	2.2	1.7	1.5	2.3	1.5	1.5	2.3	2.8	2.6	4.0	3.2	2.8	3.2	1.6	0.5	0.6	1.3	1.3	1.1	0.8	1.8	4.0	0.5
18	1.5	1.8	1.3	1.7	1.7	1.7	2.3	2.0	2.1	2.1	2.9	3.4	2.6	2.3	2.0	1.4	1.8	1.4	2.2	0.7	0.4	0.4	0.6	1.2	1.7	3.4	0.4
19	1.3	0.4	0.4	0.6	0.7	1.0	1.4	1.6	1.9	3.3	4.0	2.6	1.2	2.4	2.1	3.0	2.4	1.8	1.7	0.9	1.1	0.9	3.3	3.0	1.8	4.0	0.4
20	1.6	1.0	1.1	0.5	0.9	1.0	0.8	1.4	0.9	1.8	1.9	2.2	2.2	2.7	2.5	2.5	3.0	4.3	3.5	1.4	1.8	1.1	1.8	1.3	1.8	4.3	0.5
21	1.2	2.2	4.2	4.8	5.4	5.9	5.5	7.0	7.5	6.6	8.9	8.2	9.0	7.3	7.2	6.4	5.3	3.8	4.8	3.4	5.6	6.8	7.1	6.2	5.8	9.0	1.2
22	7.5	5.4	4.1	3.9	4.2	4.4	5.8	6.0	6.1	7.1	7.7	7.5	7.2	6.5	5.3	4.9	4.6	3.4	3.0	2.5	2.6	3.1	2.6	3.2	4.9	7.7	2.5
23	3.2	4.1	4.3	5.2	3.7	4.3	5.1	4.3	4.1	3.9	4.9	3.8	3.4	2.8	1.8	0.7	1.0	2.3	2.4	0.9	0.4	2.0	1.4	0.5	2.9	5.2	0.4
24	0.9	1.3	1.2	1.3	1.3	1.3	1.8	2.1	2.2	2.5	2.6	2.6	2.2	2.7	2.6	2.8	2.9	2.6	1.6	1.9	0.8	0.6	0.6	1.4	1.8	2.9	0.6
25	0.7	0.6	0.4	0.8	0.7	1.0	1.2	1.5	1.6	3.4	3.5	2.1	2.4	2.4	3.0	2.5	2.6	3.7	2.7	2.5	1.6	7.6	4.4	6.9	2.5	7.6	0.4
26	5.4	6.8	6.1	6.3	7.4	10.7	12.6	12.0	9.8	9.5	7.7	6.6	7.2	5.5	--	--	5.4	6.2	7.4	8.3	9.0	8.0	7.7	7.8	7.9	12.6	5.4
27	7.1	7.0	5.5	4.9	2.5	5.3	5.7	5.9	6.1	7.9	9.1	6.9	6.3	5.5	3.1	1.4	2.4	2.9	1.2	0.8	0.7	1.3	1.7	1.9	4.3	9.1	0.7
28	2.5	2.8	2.5	3.4	4.0	3.5	2.6	3.3	3.6	4.7	4.3	4.0	4.1	2.6	1.8	2.3	1.2	2.0	0.7	0.5	1.2	1.3	1.6	1.2	2.6	4.7	0.5
29	1.2	1.4	1.7	1.5	1.6	1.6	1.9	1.8	1.9	2.0	1.7	1.5	2.6	3.0	3.0	2.4	1.9	1.0	0.5	0.8	0.4	0.6	0.5	0.7	1.6	3.0	0.4
30	0.7	0.5	0.0	0.4	0.3	0.2	0.3	0.4	0.6	1.6	1.8	3.0	3.1	3.1	2.5	2.3	1.6	1.2	1.5	1.1	1.6	1.4	1.7	3.2	1.4	3.2	0.0
31	2.5	4.1	3.5	3.7	3.7	2.9	3.0	2.6	2.4	3.1	3.6	3.6	2.8	2.7	2.0	3.2	4.4	6.1	7.8	8.1	8.6	7.7	7.6	9.2	4.5	9.2	2.0
Avg	2.8	2.9	3.0	3.4	3.3	3.6	3.6	3.7	4.0	4.3	4.4	4.2	4.0	3.7	3.3	3.2	3.0	2.9	2.8	2.5	2.6	3.0	2.9	3.0	3.3	--	--
Max	8.8	9.5	9.3	8.6	8.0	10.7	12.6	12.0	9.8	9.5	9.4	9.5	9.0	8.7	8.5	8.0	7.2	6.2	7.8	9.3	9.5	8.6	8.2	9.2	--	12.6	--
Min	0.3	0.3	0.0	0.4	0.3	0.2	0.3	0.4	0.6	0.8	0.8	1.4	1.2	0.8	1.3	0.7	0.9	0.9	0.5	0.3	0.3	0.1	0.4	0.4	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Feb 2016

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	6.4	5.0	4.7	4.2	3.2	3.4	4.1	4.7	5.3	5.5	3.6	3.7	2.8	2.5	2.2	2.3	1.7	1.6	3.0	2.6	2.6	2.4	2.0	1.9	3.4	6.4	1.6
2	2.5	2.9	2.2	2.0	1.5	0.7	0.7	1.0	0.8	0.7	2.2	2.1	2.4	2.7	2.1	2.9	2.4	1.7	1.4	1.4	0.6	0.5	0.2	0.6	1.6	2.9	0.2
3	0.7	0.8	0.6	1.0	1.2	1.2	1.9	2.8	2.8	4.9	5.3	5.3	4.1	3.1	3.0	2.9	3.0	1.7	1.0	2.1	3.8	7.5	8.0	7.6	3.2	8.0	0.6
4	9.7	8.7	6.8	9.1	8.3	6.9	8.5	8.6	6.9	6.4	7.5	8.2	7.8	7.7	6.5	5.7	5.3	4.6	1.9	2.2	3.7	7.8	6.1	3.9	6.6	9.7	1.9
5	7.2	7.8	11.7	13.5	10.8	12.7	14.2	15.1	14.6	15.6	17.1	15.7	13.2	6.2	6.0	6.2	5.9	5.1	5.2	8.5	6.1	6.7	8.6	8.0	10.1	17.1	5.1
6	8.5	9.2	9.9	8.6	9.2	8.6	7.8	5.6	5.8	6.0	7.7	8.1	8.6	8.1	8.1	7.5	6.1	4.7	3.6	3.6	5.6	7.3	8.3	8.4	7.3	9.9	3.6
7	5.4	4.6	3.3	6.3	8.0	5.8	4.4	4.2	5.9	7.2	8.1	6.6	7.6	8.5	8.2	8.5	8.3	5.5	7.9	9.6	9.4	9.0	8.6	9.0	7.1	9.6	3.3
8	11.6	12.1	12.6	12.0	9.9	8.8	8.3	10.9	11.6	12.9	10.8	9.7	9.8	9.8	8.1	6.2	2.9	5.0	9.4	9.2	8.2	8.2	7.1	7.9	9.3	12.9	2.9
9	6.8	8.0	9.0	6.5	4.6	6.1	5.4	6.6	8.8	9.7	8.7	9.9	9.4	7.8	6.3	5.8	3.4	2.8	2.6	1.9	3.2	2.6	3.8	3.2	6.0	9.9	1.9
10	2.5	2.9	3.9	4.3	3.4	3.3	3.6	3.8	4.4	6.1	6.4	6.1	6.3	5.9	4.7	3.8	3.3	1.6	0.9	0.8	1.1	1.0	1.2	1.5	3.5	6.4	0.8
11	2.1	1.8	1.8	2.0	2.0	2.3	2.4	2.8	2.8	4.3	4.3	3.3	4.3	2.6	2.9	3.3	3.2	3.3	2.7	0.7	0.7	0.6	1.6	1.8	2.5	4.3	0.6
12	2.3	2.5	2.6	3.0	2.8	3.6	2.9	3.9	3.7	4.8	5.4	5.0	4.7	3.2	3.0	2.6	2.2	1.0	0.6	1.0	1.3	1.5	1.8	2.1	2.8	5.4	0.6
13	1.8	1.7	1.8	2.0	2.1	2.2	2.7	2.9	3.4	4.7	4.4	3.3	1.6	1.9	2.2	1.9	1.4	2.0	2.1	0.8	0.8	0.8	0.5	1.2	2.1	4.7	0.5
14	1.1	0.9	0.5	1.2	1.5	1.1	1.1	1.4	1.6	2.3	2.5	3.2	3.0	2.9	3.1	3.8	3.9	3.7	3.2	1.3	1.3	0.6	0.5	1.4	2.0	3.9	0.5
15	1.6	2.1	8.2	9.3	9.1	10.5	11.6	12.2	12.4	13.1	12.0	10.0	8.6	4.8	3.4	2.5	3.2	3.4	3.8	2.2	0.7	1.5	2.9	4.5	6.4	13.1	0.7
16	6.4	3.5	3.8	8.7	7.2	5.4	7.1	3.8	3.7	4.4	4.8	5.0	4.8	3.6	1.7	1.7	0.9	1.3	0.5	1.2	1.6	1.5	1.4	2.0	3.6	8.7	0.5
17	2.0	2.1	2.3	2.5	2.9	2.4	2.4	2.0	2.5	2.9	4.1	3.5	3.0	2.8	3.1	2.9	2.2	1.8	1.4	1.7	2.8	4.2	4.7	4.2	2.8	4.7	1.4
18	4.7	3.9	5.5	3.0	3.2	3.1	2.6	2.3	0.9	2.1	4.0	2.4	2.4	4.0	2.7	3.2	1.6	1.5	0.7	0.8	1.7	0.7	0.3	0.7	2.4	5.5	0.3
19	0.7	1.1	0.7	0.4	0.9	0.3	0.7	1.4	0.7	0.7	1.6	2.2	2.5	2.1	1.6	1.7	1.8	1.4	0.8	1.2	1.3	0.8	0.9	0.3	1.2	2.5	0.3
20	0.4	0.9	1.1	1.2	1.3	1.0	1.2	1.2	1.9	1.9	2.9	2.8	3.3	3.1	3.1	2.8	3.2	3.6	4.2	3.3	0.6	0.6	0.3	1.0	2.0	4.2	0.3
21	1.6	1.7	1.6	1.8	1.7	1.3	1.4	1.7	1.4	1.0	2.0	3.4	3.2	2.4	2.6	3.0	2.7	2.2	2.6	1.8	2.6	1.7	1.7	1.0	2.0	3.4	1.0
22	0.8	0.3	0.5	0.8	0.4	0.4	0.5	0.3	1.9	2.0	2.1	2.6	2.9	3.3	2.4	3.3	2.7	2.8	3.1	3.1	2.6	3.3	3.8	3.3	2.1	3.8	0.3
23	3.1	2.6	2.5	2.3	1.8	1.7	4.2	3.9	4.9	6.8	5.0	4.7	3.7	3.6	3.7	3.3	2.7	2.9	1.7	3.0	5.3	5.6	4.9	4.4	3.7	6.8	1.7
24	5.7	5.4	6.4	9.1	8.4	8.1	9.4	8.6	8.5	9.2	9.9	9.0	7.4	6.9	6.5	6.0	5.7	5.5	1.8	1.6	2.2	3.8	5.0	4.7	6.4	9.9	1.6
25	6.2	4.7	5.0	4.9	5.0	5.0	6.5	6.2	6.7	6.9	6.6	6.9	6.1	5.3	4.5	3.9	3.3	3.2	2.1	2.3	2.1	2.5	2.7	2.9	4.6	6.9	2.1
26	4.6	5.1	5.6	6.4	8.5	7.4	5.1	4.5	6.4	8.1	7.7	7.6	6.9	5.4	3.7	2.8	3.6	3.2	1.3	1.1	0.8	1.1	1.5	1.2	4.6	8.5	0.8
27	1.2	1.3	1.2	1.7	1.9	2.2	2.5	2.9	3.0	3.6	3.7	2.5	1.6	2.7	2.2	1.9	2.0	1.9	1.8	1.7	0.9	0.7	0.6	0.5	1.9	3.7	0.5
28	0.7	0.3	0.3	0.6	0.6	0.5	0.6	1.0	0.7	0.8	1.9	2.8	2.7	2.7	2.5	2.5	2.4	1.3	2.0	2.3	1.2	0.3	1.2	1.0	1.4	2.8	0.3
29	0.3	0.2	0.4	0.5	0.5	0.5	0.5	0.4	0.6	1.0	1.9	2.2	2.2	2.5	2.6	3.0	2.2	2.2	2.7	2.7	2.7	2.3	3.4	2.1	1.6	3.4	0.2
Avg	3.7	3.6	4.0	4.4	4.2	4.0	4.3	4.4	4.6	5.4	5.7	5.4	5.1	4.4	3.9	3.7	3.2	2.8	2.6	2.6	2.7	3.0	3.2	3.2	3.9	--	--
Max	11.6	12.1	12.6	13.5	10.8	12.7	14.2	15.1	14.6	15.6	17.1	15.7	13.2	9.8	8.2	8.5	8.3	5.5	9.4	9.6	9.4	9.0	8.6	9.0	--	17.1	--
Min	0.3	0.2	0.3	0.4	0.4	0.3	0.5	0.3	0.6	0.7	1.6	2.1	1.6	1.9	1.6	1.7	0.9	1.0	0.5	0.7	0.6	0.3	0.2	0.3	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Mar 2016

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	1.7	1.0	0.4	0.6	0.8	1.0	0.8	1.6	1.5	2.2	2.9	2.4	2.4	2.5	1.9	2.7	2.4	2.2	1.9	1.6	0.9	1.3	1.7	0.7	1.6	2.9	0.4
2	0.4	0.7	0.7	0.7	0.5	0.5	0.8	0.9	0.7	1.2	1.7	2.6	3.1	3.0	2.9	2.9	2.5	1.9	1.4	1.2	1.5	1.6	2.2	2.1	1.6	3.1	0.4
3	0.8	0.8	0.4	1.1	1.2	1.7	1.7	1.2	1.4	2.1	2.8	2.9	1.9	1.2	1.9	1.4	1.8	1.2	1.6	0.6	0.5	0.8	0.7	0.9	1.4	2.9	0.4
4	0.6	0.7	0.7	0.7	1.0	0.9	1.3	1.1	1.4	2.2	2.9	2.7	2.6	2.8	1.8	2.4	2.0	1.7	0.9	1.0	0.6	0.9	1.2	0.8	1.4	2.9	0.6
5	0.6	0.5	0.4	0.3	0.8	0.8	0.8	0.3	0.7	2.4	3.1	3.6	3.0	2.4	2.7	2.6	1.6	0.8	0.3	0.4	1.3	1.3	0.6	1.2	1.4	3.6	0.3
6	1.3	0.7	0.8	1.4	1.1	0.9	0.4	0.6	2.7	2.4	2.7	2.4	3.5	3.4	3.0	3.4	2.1	2.2	2.3	1.7	1.3	3.7	5.8	3.8	2.2	5.8	0.4
7	2.4	2.5	2.0	1.3	0.4	0.4	0.5	0.7	0.9	1.3	2.5	3.0	3.3	2.8	2.6	2.2	2.2	2.3	2.4	3.4	1.6	2.3	1.5	1.3	1.9	3.4	0.4
8	1.5	4.7	3.1	2.8	2.3	1.9	1.0	2.0	2.9	3.0	4.3	4.0	4.9	4.3	3.4	2.9	3.3	2.7	3.4	4.2	3.4	3.3	2.5	1.7	3.1	4.9	1.0
9	0.4	0.9	0.3	0.8	1.0	1.5	2.6	2.0	2.1	3.4	2.6	3.4	3.7	3.7	3.3	3.3	3.4	3.0	3.9	3.3	1.6	0.6	1.1	1.0	2.2	3.9	0.3
10	1.5	2.2	5.0	9.8	10.6	8.6	10.1	9.1	6.1	5.3	4.5	1.7	2.3	1.7	1.9	2.6	1.9	2.0	2.3	3.5	1.5	0.9	1.3	1.0	4.1	10.6	0.9
11	1.2	1.2	1.0	1.5	1.9	1.8	1.8	2.5	3.1	4.2	4.6	5.1	4.7	2.9	3.8	2.7	2.3	2.9	1.8	3.1	3.7	5.0	3.9	4.3	3.0	5.1	1.0
12	4.9	5.5	4.6	4.2	3.4	3.3	3.0	2.3	2.6	3.0	2.0	3.0	3.2	3.7	3.2	3.5	2.5	3.2	2.2	3.4	2.2	1.1	0.3	0.3	2.9	5.5	0.3
13	0.2	0.3	--	0.9	0.7	1.4	1.4	1.4	1.8	1.8	2.1	2.7	2.5	2.7	2.6	2.6	2.6	1.9	1.4	1.5	0.9	0.7	0.4	0.7	1.5	2.7	0.2
14	0.6	1.9	3.2	2.2	0.8	0.9	0.5	0.5	1.1	2.4	2.6	2.9	2.6	2.5	2.8	3.2	2.0	2.3	1.8	1.6	2.2	2.0	1.6	1.3	1.9	3.2	0.5
15	1.0	0.7	2.3	1.6	1.1	1.6	1.0	1.5	4.3	4.3	4.7	3.5	3.5	2.5	2.7	2.8	2.5	3.2	2.7	2.9	1.5	0.8	1.5	1.5	2.3	4.7	0.7
16	1.4	1.3	1.4	1.5	1.4	2.0	2.8	2.7	4.0	4.3	4.7	4.0	2.5	2.3	2.4	2.7	2.6	2.1	2.1	3.2	2.3	0.9	0.9	0.5	2.3	4.7	0.5
17	1.3	1.4	1.6	1.9	1.9	1.7	1.7	1.1	1.4	1.9	1.8	2.3	2.2	2.9	2.7	2.3	2.4	2.5	1.6	0.9	1.2	1.7	1.8	1.6	1.8	2.9	0.9
18	1.4	1.2	0.3	0.5	0.9	0.7	0.6	0.4	0.7	1.4	2.3	2.5	2.8	3.2	2.8	3.0	2.4	2.7	2.1	1.8	1.7	1.8	1.4	1.7	1.7	3.2	0.3
19	2.1	2.3	1.6	1.6	0.5	0.4	0.3	0.4	1.0	1.3	2.1	2.6	2.7	3.2	3.3	2.2	3.4	2.4	2.3	2.7	1.8	1.1	0.9	1.1	1.8	3.4	0.3
20	0.9	1.0	1.2	0.9	1.1	1.6	1.9	3.3	5.3	6.2	7.2	7.1	6.1	4.3	3.0	1.8	2.2	1.7	1.3	0.5	0.5	0.9	1.3	1.2	2.6	7.2	0.5
21	1.4	1.3	1.6	1.7	2.0	2.3	2.0	3.1	3.8	3.4	3.2	2.6	2.1	3.3	2.5	2.5	2.8	2.1	1.4	1.5	1.4	0.8	0.8	1.6	2.1	3.8	0.8
22	2.3	2.1	1.5	2.6	1.9	2.2	1.7	3.8	5.0	5.0	4.3	3.2	3.8	3.4	3.7	3.9	4.2	3.6	3.1	2.8	2.6	2.7	3.7	3.5	3.2	5.0	1.5
23	2.4	1.7	1.6	2.0	2.6	3.7	3.1	2.5	2.3	2.9	3.4	2.9	3.4	2.6	2.8	2.9	2.6	3.1	2.7	2.9	2.5	2.3	2.5	1.6	2.6	3.7	1.6
24	0.7	1.6	2.6	2.7	2.8	4.3	5.0	4.1	5.2	4.9	4.2	3.3	1.8	2.4	3.3	3.3	3.1	3.9	3.1	2.6	2.7	1.4	2.0	1.8	3.0	5.2	0.7
25	2.0	1.7	0.5	0.7	0.6	0.7	0.7	0.4	1.0	1.9	2.6	2.5	2.8	2.5	3.2	3.2	3.0	3.7	2.5	1.7	1.8	2.2	1.0	3.1	1.9	3.7	0.4
26	0.8	0.7	1.2	0.4	0.3	0.7	0.5	0.5	1.2	2.3	2.5	3.4	3.0	3.3	3.0	3.5	3.2	2.4	2.0	1.3	0.4	1.5	1.4	1.3	1.7	3.5	0.3
27	1.9	2.4	2.3	2.4	2.2	1.7	1.8	2.3	2.8	2.6	1.9	2.4	2.8	2.4	2.7	2.5	2.3	2.3	1.4	0.8	0.6	0.6	0.7	0.5	1.9	2.8	0.5
28	0.7	0.9	2.2	2.4	3.2	3.0	4.6	3.9	4.0	4.4	5.3	5.6	4.5	5.2	4.8	5.1	5.5	6.8	6.1	6.0	5.9	5.2	3.5	3.3	4.3	6.8	0.7
29	3.0	2.4	1.9	2.2	2.7	3.9	4.0	4.2	4.6	3.0	2.5	3.2	2.1	2.2	2.1	2.4	2.5	1.8	2.0	1.7	2.4	1.8	1.0	0.9	2.5	4.6	0.9
30	1.3	1.2	1.5	1.8	1.6	1.0	1.1	1.5	1.4	2.2	2.0	2.2	2.7	2.8	2.7	2.8	2.7	2.1	1.6	1.1	0.7	0.6	0.8	0.6	1.7	2.8	0.6
31	0.7	1.2	1.2	1.2	1.5	1.5	1.4	1.4	2.2	2.7	2.8	2.4	3.0	3.0	3.9	2.5	3.2	2.6	1.8	1.8	1.2	0.9	0.7	0.3	1.9	3.9	0.3
Avg	1.4	1.6	1.6	1.8	1.8	1.9	2.0	2.0	2.6	3.0	3.2	3.2	3.1	2.9	2.9	2.8	2.7	2.6	2.2	2.2	1.8	1.7	1.6	1.5	2.2	--	--
Max	4.9	5.5	5.0	9.8	10.6	8.6	10.1	9.1	6.1	6.2	7.2	7.1	6.1	5.2	4.8	5.1	5.5	6.8	6.1	6.0	5.9	5.2	5.8	4.3	--	10.6	--
Min	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.7	1.2	1.7	1.7	1.8	1.2	1.8	1.4	1.6	0.8	0.3	0.4	0.4	0.6	0.3	0.3	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Jan 2016

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	74	62	56	53	53	51	53	52	51	54	55	70	89	106	104	114	90	50	48	44	46	47	49	58	63	114	44
2	52	48	49	52	62	62	60	58	52	54	51	49	47	43	43	45	49	53	53	59	57	63	66	52	53	66	43
3	51	72	65	58	56	52	53	55	55	56	59	59	53	47	47	46	52	57	65	76	59	54	58	68	57	76	46
4	52	52	53	52	55	58	82	78	53	64	78	109	121	246	69	105	107	112	98	89	85	89	85	93	80	246	52
5	112	99	106	107	104	93	101	94	95	110	106	111	110	100	75	102	106	132	142	201	212	212	212	217	121	217	75
6	207	207	203	207	200	203	217	221	218	221	226	210	192	185	187	213	196	198	222	299	181	199	128	172	204	299	128
7	222	195	225	214	219	218	199	198	197	197	205	215	222	247	102	140	91	137	122	97	145	247	228	238	194	247	91
8	263	219	227	213	285	56	175	149	199	205	180	179	216	179	203	312	52	280	288	274	276	303	230	263	232	312	52
9	27	263	244	260	271	275	102	154	132	116	92	269	232	225	252	263	297	251	266	308	146	99	165	150	226	308	27
10	154	164	157	147	146	145	110	117	100	78	69	49	82	22	50	44	256	272	269	277	297	143	181	155	124	297	22
11	160	169	59	42	44	42	56	67	75	55	48	72	54	48	31	38	51	58	79	91	95	93	85	103	68	169	31
12	117	121	136	117	125	119	122	131	74	52	50	52	53	51	49	50	50	59	66	77	75	52	62	64	79	136	49
13	80	93	78	62	59	62	92	131	110	94	75	54	45	39	265	248	70	261	146	179	130	166	174	179	102	265	39
14	186	174	200	175	153	176	151	165	156	122	126	250	255	256	260	247	221	269	280	126	210	162	156	130	189	280	122
15	143	137	291	124	158	139	157	145	188	187	213	225	220	234	193	316	290	280	293	295	180	157	186	297	204	316	124
16	157	180	187	170	140	146	150	150	128	103	90	79	257	254	256	270	261	243	210	277	40	264	286	277	200	286	40
17	252	174	130	177	186	205	187	190	176	124	76	53	335	260	250	255	250	243	134	177	184	187	121	138	185	335	53
18	120	86	135	143	158	130	110	128	98	108	90	121	103	101	110	124	235	228	239	237	82	229	169	257	138	257	82
19	224	140	147	193	179	136	144	145	143	88	71	40	117	257	255	270	265	265	263	166	180	163	270	116	176	270	40
20	239	195	198	177	197	198	172	169	171	230	260	254	251	257	267	257	265	266	278	336	331	334	310	92	240	336	92
21	152	92	91	103	91	76	98	89	83	71	57	59	55	57	54	48	58	61	55	62	57	49	46	52	70	152	46
22	49	60	72	70	74	65	59	56	55	51	53	54	52	51	57	51	58	64	77	74	85	90	84	74	64	90	49
23	61	58	57	55	63	59	59	62	66	76	60	64	101	122	125	120	254	244	264	225	143	257	243	360	78	360	55
24	225	250	253	237	240	246	249	243	232	233	231	234	225	246	221	214	233	222	212	285	346	180	179	270	236	346	179
25	158	207	164	184	133	127	128	119	107	81	55	33	233	252	251	258	254	275	271	269	79	43	61	47	153	275	33
26	50	56	91	93	62	48	42	42	56	53	84	73	60	74	--	--	37	45	39	30	34	39	43	35	54	93	30
27	42	53	67	96	116	75	97	85	75	55	56	56	53	53	44	42	253	273	298	187	116	124	90	99	74	298	42
28	77	97	91	61	91	105	124	125	100	79	67	60	48	64	103	249	228	269	185	144	117	110	140	201	108	269	48
29	289	129	146	161	139	129	125	128	142	112	100	128	234	263	264	259	252	182	130	140	184	162	119	171	160	289	100
30	183	196	117	154	125	150	117	102	107	108	158	228	227	211	178	179	145	168	212	125	264	219	197	227	170	264	102
31	229	225	227	229	219	225	229	226	194	201	199	209	223	209	191	208	214	216	213	214	216	215	212	214	215	229	191
Avg	136	135	129	133	126	114	118	121	114	98	88	85	119	185	146	231	239	240	207	157	116	141	140	131	124	--	--
Max	289	263	291	260	285	275	249	243	232	233	260	269	335	263	267	316	297	280	298	336	346	334	310	360	--	360	--
Min	27	48	49	42	44	42	42	42	51	51	48	33	45	22	31	38	37	45	39	30	34	39	43	35	--	--	22

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Feb 2016

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	160	123	136	119	106	138	164	174	205	208	148	181	168	148	121	164	73	122	205	221	201	71	15	304	153	304	15
2	311	277	264	256	267	215	197	258	7	32	268	247	246	235	257	262	247	211	227	275	249	223	141	180	248	311	7
3	181	170	134	153	141	131	125	140	119	58	49	46	47	47	48	63	44	42	91	100	84	47	52	57	88	181	42
4	46	52	70	48	47	54	49	47	53	56	49	47	49	49	46	51	46	49	94	122	60	47	58	78	56	122	46
5	63	59	47	39	49	47	43	40	42	40	41	39	45	61	61	51	53	58	69	53	56	56	51	49	50	69	39
6	50	48	47	51	49	51	53	60	64	60	57	54	51	49	48	50	53	53	96	99	64	53	50	48	56	99	47
7	61	67	94	62	59	65	93	120	71	57	58	65	55	48	44	41	37	67	52	38	43	48	44	48	59	120	37
8	44	45	45	45	55	58	55	50	47	46	50	55	58	55	61	65	63	46	36	43	56	79	96	90	56	96	36
9	87	70	51	60	63	57	62	63	51	52	57	56	54	51	36	43	73	83	97	90	98	97	74	79	67	98	36
10	121	125	72	66	88	88	76	73	67	60	57	52	47	45	41	43	46	71	148	152	163	143	111	141	85	163	41
11	143	136	151	159	157	144	134	119	132	110	106	71	48	37	242	269	272	277	269	153	195	170	170	138	151	277	37
12	133	116	116	130	124	96	101	122	105	82	58	50	65	117	128	133	138	143	112	117	115	112	86	68	108	143	50
13	85	111	102	111	93	79	80	79	66	59	59	57	113	215	261	238	270	259	275	303	197	181	182	187	124	303	57
14	256	186	173	171	187	183	159	131	145	129	79	257	254	273	281	268	270	269	274	263	258	245	129	163	214	281	79
15	149	112	46	41	40	39	39	41	39	40	40	41	45	52	49	39	265	267	276	314	150	156	118	73	52	314	39
16	51	81	61	40	54	76	53	106	96	74	67	55	46	60	127	166	144	268	2	106	116	134	125	119	85	268	2
17	111	108	95	79	81	93	118	123	93	78	104	127	137	126	195	221	227	216	259	246	215	219	220	214	149	259	78
18	216	213	223	208	216	218	209	223	105	147	136	186	170	141	200	217	164	165	181	194	248	304	149	127	189	304	105
19	117	155	85	101	128	171	148	91	97	117	117	126	144	189	251	256	239	253	336	200	193	183	183	191	159	336	85
20	111	187	190	193	185	188	184	173	170	121	87	319	264	261	243	265	260	273	269	272	260	345	114	186	215	345	87
21	193	202	190	194	202	180	171	188	124	114	229	264	254	243	245	261	258	251	273	276	273	321	278	270	231	321	114
22	47	115	164	155	123	133	131	100	248	237	250	237	231	251	235	262	178	288	296	294	287	277	292	296	234	296	47
23	310	306	310	323	323	79	47	57	65	52	56	57	57	42	45	52	47	30	31	45	51	55	72	76	38	323	30
24	79	73	63	58	59	62	56	57	54	49	47	48	46	46	44	36	46	46	53	72	72	58	62	91	57	91	36
25	101	98	106	112	114	115	98	91	78	60	59	51	57	43	41	34	37	41	63	69	79	76	83	76	74	115	34
26	56	55	54	53	47	51	62	65	55	51	51	46	43	41	46	40	41	46	77	127	157	154	165	146	66	165	40
27	131	157	148	90	96	91	83	79	69	63	59	124	168	268	301	228	235	257	265	270	268	173	205	204	160	301	59
28	197	154	152	179	165	165	153	153	145	149	301	257	260	254	243	269	248	224	248	253	352	61	269	187	210	352	61
29	181	204	154	186	180	185	168	156	125	142	244	244	248	256	244	233	236	245	262	254	280	304	291	291	223	304	125
Avg	108	118	107	102	101	107	104	102	87	78	66	60	71	59	27	333	19	310	320	166	152	99	109	121	95	--	--
Max	311	306	310	323	323	218	209	258	248	237	301	319	264	273	301	269	272	288	336	314	352	345	292	304	--	352	--
Min	44	45	45	39	40	39	39	40	7	32	40	39	43	37	36	34	37	30	2	38	43	47	15	48	--	--	2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Mar 2016

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	291	261	165	261	151	163	146	180	147	102	70	275	253	231	299	246	265	239	254	229	341	290	326	127	233	341	70
2	117	168	145	168	190	159	189	158	145	125	250	242	259	277	266	260	274	243	237	278	278	282	308	298	227	308	117
3	194	204	170	180	175	181	172	125	111	113	124	130	134	86	272	305	287	233	250	349	178	178	185	160	174	349	86
4	193	162	174	183	172	156	158	144	123	121	127	138	144	137	158	212	216	264	2	176	192	185	260	259	172	264	2
5	226	188	134	353	294	151	180	88	115	119	182	200	189	234	212	232	178	166	297	207	285	309	177	208	197	353	88
6	243	242	174	237	240	85	198	210	201	221	231	225	225	213	178	223	183	169	51	306	70	190	213	210	209	306	51
7	205	221	232	230	197	147	152	342	75	166	242	246	209	245	282	162	292	293	252	270	319	222	343	62	236	343	62
8	308	243	269	277	286	259	295	100	68	12	271	265	268	263	256	254	238	244	275	277	292	300	323	41	280	323	12
9	91	130	194	324	191	91	126	128	124	97	32	266	262	276	250	280	265	256	270	270	256	134	199	110	206	324	32
10	168	178	67	36	42	46	40	43	76	68	68	143	151	189	167	247	169	237	269	270	330	153	154	138	124	330	36
11	164	142	148	135	120	119	105	90	78	106	120	126	138	172	197	210	200	184	183	215	222	220	223	223	160	223	78
12	216	201	221	234	226	200	180	187	191	213	195	218	215	241	222	226	270	240	266	272	291	307	95	177	223	307	95
13	214	126	--	243	185	172	145	126	105	143	247	279	232	256	289	281	234	223	151	184	265	120	234	256	208	289	105
14	231	225	227	235	276	237	166	107	64	240	238	245	260	231	234	249	185	195	256	297	286	282	259	285	241	297	64
15	222	18	24	292	191	191	213	122	79	64	52	42	55	24	225	233	222	270	283	263	268	278	293	270	272	293	18
16	336	145	203	188	143	140	122	111	64	78	61	42	98	77	219	246	251	227	254	269	269	274	155	103	159	336	42
17	160	178	186	180	173	161	147	101	100	99	194	266	220	243	240	240	208	250	186	296	295	299	308	313	211	313	99
18	307	299	104	323	194	178	178	123	108	11	251	262	249	239	253	239	245	235	260	285	279	306	267	288	255	323	11
19	283	271	288	247	167	150	141	135	105	103	323	268	270	244	240	255	274	246	264	276	272	291	183	191	242	323	103
20	188	190	157	179	193	167	142	83	65	52	45	43	38	40	37	52	149	172	189	274	173	201	158	135	134	274	37
21	150	153	142	110	115	90	83	79	65	88	119	119	237	229	270	268	257	138	247	301	285	88	319	197	148	319	65
22	211	230	236	231	220	227	215	223	218	215	201	220	187	114	128	104	105	104	67	114	120	83	275	290	187	290	67
23	272	39	305	313	319	295	277	276	309	265	233	254	243	269	240	283	250	264	268	273	267	278	274	47	278	319	39
24	179	114	85	81	89	67	68	82	60	60	47	60	74	188	221	239	262	285	263	267	269	269	294	289	69	294	47
25	300	292	292	162	191	154	153	140	118	231	248	256	249	279	235	265	229	284	269	128	186	220	335	218	230	335	118
26	235	72	249	235	87	198	144	164	121	224	224	242	216	227	238	234	246	217	235	38	68	310	250	158	213	310	38
27	92	77	118	132	119	145	146	104	91	124	132	272	262	243	267	220	198	192	196	141	136	205	275	134	159	275	77
28	203	259	220	215	203	217	201	203	203	202	198	205	219	210	205	203	213	216	219	218	215	218	211	226	212	259	198
29	228	235	230	231	202	216	218	210	202	146	192	332	272	271	185	181	214	193	137	30	279	278	266	264	225	332	30
30	322	232	226	104	133	234	245	110	214	283	269	298	263	288	273	245	208	218	227	254	248	38	172	179	237	322	38
31	173	186	168	150	172	172	152	128	76	239	276	258	292	280	314	285	249	274	244	355	326	284	119	355	238	355	76
Avg	216	195	190	213	181	167	163	129	110	130	201	244	227	238	237	242	230	228	246	267	267	254	248	211	214	--	--
Max	336	299	305	353	319	295	295	342	309	283	323	332	292	288	314	305	292	293	297	355	341	310	343	355	--	355	--
Min	91	18	24	36	42	46	40	43	60	11	32	42	38	24	37	52	105	104	2	30	68	38	95	41	--	--	2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jan 2016

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	0.42	0.35	0.32	0.29	0.27	0.27	0.26	0.22	-0.17	-0.56	-0.82	-0.84	-0.93	-0.84	-0.74	-0.47	-0.12	0.19	0.19	0.16	0.16	0.18	0.20	0.16	-0.08	0.42	-0.93
2	0.17	0.16	0.18	0.19	0.18	0.18	0.19	0.16	-0.16	-0.50	-0.71	-0.83	-0.86	-0.81	-0.71	-0.42	-0.05	0.27	0.33	0.30	0.28	0.19	0.19	0.21	-0.08	0.33	-0.86
3	0.21	0.17	0.15	0.13	0.12	0.13	0.11	0.12	-0.22	-0.58	-0.78	-0.94	-0.99	-0.90	-0.68	-0.43	0.00	0.20	0.20	0.18	0.21	0.14	0.15	0.09	-0.13	0.21	-0.99
4	0.08	0.05	0.10	0.06	0.03	0.09	0.08	0.07	0.00	-0.19	-0.18	-0.10	-0.11	-0.02	-0.20	-0.16	-0.11	0.02	0.02	0.00	0.00	0.01	-0.02	-0.02	-0.02	0.10	-0.20
5	-0.01	-0.04	-0.03	-0.03	-0.04	-0.05	-0.07	-0.07	-0.07	-0.10	-0.15	-0.26	-0.17	-0.16	-0.39	-0.05	-0.04	0.07	0.07	-0.01	0.07	-0.02	0.05	0.05	-0.06	0.07	-0.39
6	0.11	0.14	0.13	0.04	0.08	-0.03	-0.04	-0.04	-0.07	-0.15	-0.14	0.06	0.14	-0.21	-0.14	-0.08	-0.22	0.03	0.32	0.47	0.55	0.73	0.62	0.40	0.11	0.73	-0.22
7	0.56	0.56	0.12	0.09	0.02	0.00	0.02	0.07	0.06	0.04	-0.03	-0.05	-0.04	0.05	-0.03	-0.06	-0.04	-0.07	-0.01	-0.19	0.03	0.41	0.15	0.08	0.07	0.56	-0.19
8	0.04	0.05	0.04	0.03	0.07	0.04	0.03	0.02	0.01	-0.01	0.03	0.02	0.03	0.00	0.00	0.06	0.18	0.05	0.06	0.09	0.21	0.12	0.25	0.39	0.08	0.39	-0.01
9	0.50	0.29	0.14	0.12	0.19	0.35	0.49	0.39	-0.26	-0.51	-0.80	-0.66	-0.84	-0.53	-0.36	-0.14	0.01	0.03	0.18	0.21	0.36	0.60	0.61	0.64	0.04	0.64	-0.84
10	0.72	1.04	0.70	0.45	0.59	0.60	0.16	0.16	-0.01	-0.40	-0.56	-0.72	-0.82	-0.80	-0.37	-0.23	-0.13	0.00	0.01	0.22	0.40	0.54	0.78	0.74	0.13	1.04	-0.82
11	0.72	0.50	0.61	0.42	0.43	0.37	0.27	0.21	-0.16	-0.53	-0.64	-0.82	-0.99	-1.00	-0.92	-0.67	-0.13	0.52	0.48	0.40	0.35	0.32	0.34	0.45	0.02	0.72	-1.00
12	0.74	0.77	0.59	0.53	0.64	0.44	0.41	0.54	-0.01	-0.32	-0.59	-0.74	-0.77	-0.74	-0.67	-0.39	0.02	0.41	0.47	0.38	0.41	0.47	0.47	0.42	0.15	0.77	-0.77
13	0.44	0.46	0.49	0.44	0.39	0.36	0.44	0.54	0.02	-0.41	-0.71	-1.04	-1.26	-1.06	-0.52	-0.41	-0.17	0.82	0.77	1.00	1.02	1.10	0.84	0.78	0.18	1.10	-1.26
14	1.17	1.10	1.45	1.04	0.85	0.66	0.91	1.14	0.21	-0.66	-0.75	-0.56	-0.82	-0.74	-0.63	-0.62	-0.16	0.06	0.20	0.61	1.04	0.88	0.95	0.85	0.34	1.45	-0.82
15	0.82	0.69	1.03	0.93	0.79	0.70	0.63	0.90	0.61	-0.04	-0.34	-0.20	-0.45	-0.41	-0.19	-0.11	0.02	0.07	0.29	0.40	0.60	0.82	0.86	0.80	0.38	1.03	-0.45
16	1.02	0.89	1.09	1.06	0.60	0.51	0.61	0.54	-0.16	-0.77	-0.84	-0.96	-0.62	-0.64	-0.63	-0.33	-0.15	0.02	0.10	0.03	0.28	0.31	0.73	0.52	0.13	1.09	-0.96
17	1.13	1.11	0.80	1.28	1.11	1.10	0.97	1.20	0.44	-0.56	-0.98	-1.25	-0.96	-0.63	-0.72	-0.52	-0.20	0.31	0.97	1.09	1.04	1.32	0.93	1.01	0.42	1.32	-1.25
18	0.75	1.23	0.96	0.94	1.19	0.85	0.57	0.57	0.30	-0.12	-0.49	-0.68	-0.61	-0.48	-0.85	-0.42	0.05	0.47	0.30	0.46	1.33	1.01	1.05	0.71	0.38	1.33	-0.85
19	0.69	0.91	1.07	1.26	1.06	1.09	0.97	0.80	-0.13	-0.55	-0.82	-1.23	-0.99	-0.71	-0.75	-0.34	-0.17	0.14	0.34	0.39	0.79	0.82	0.23	0.23	0.21	1.26	-1.23
20	0.50	0.47	0.58	0.84	0.75	0.93	0.95	0.95	0.23	-0.23	-0.37	-0.61	-0.78	-0.69	-0.66	-0.55	-0.25	0.02	0.08	0.32	0.59	0.73	0.46	0.91	0.22	0.95	-0.78
21	0.76	0.69	0.42	0.34	0.30	0.25	0.27	0.17	-0.14	-0.49	-0.67	-0.80	-0.89	-0.83	-0.76	-0.48	-0.04	0.27	0.43	0.41	0.37	0.39	0.34	0.39	0.03	0.76	-0.89
22	0.38	0.34	0.31	0.30	0.23	0.26	0.29	0.32	-0.04	-0.49	-0.74	-0.91	-1.03	-0.96	-0.84	-0.59	-0.06	0.26	0.34	0.38	0.47	0.44	0.43	0.41	-0.02	0.47	-1.03
23	0.51	0.51	0.49	0.49	0.40	0.40	0.39	0.33	0.08	-0.32	-0.72	-1.06	-0.93	-0.85	-0.65	-0.38	0.14	0.35	0.58	0.69	0.61	0.48	0.44	0.66	0.11	0.69	-1.06
24	0.84	0.39	0.95	0.93	0.51	0.34	0.45	0.26	-0.02	-0.48	-0.71	-0.89	-0.88	-0.84	-0.78	-0.65	-0.38	0.03	0.20	0.18	0.46	0.77	0.85	0.70	0.09	0.95	-0.89
25	0.71	0.76	0.65	0.86	0.67	0.41	0.58	0.31	-0.26	-0.52	-1.20	-1.29	-0.89	-0.95	-0.86	-0.72	-0.35	0.00	0.08	0.17	0.38	0.37	0.33	0.36	-0.02	0.86	-1.29
26	0.34	0.27	0.14	0.14	0.20	0.23	0.21	0.18	-0.20	-0.51	-0.69	-0.96	-1.04	-0.98	--	--	0.21	0.81	0.90	0.83	0.79	0.88	0.92	0.91	0.16	0.92	-1.04
27	0.94	0.91	0.86	0.78	0.85	0.84	0.37	0.14	-0.24	-0.55	-0.76	-1.05	-1.20	-1.23	-1.26	-1.03	-0.38	0.09	0.52	0.82	0.96	1.02	0.72	0.83	0.12	1.02	-1.26
28	0.72	0.73	0.87	0.68	0.63	0.37	0.49	0.46	-0.17	-0.42	-0.87	-1.26	-1.39	-1.44	-1.01	-0.67	-0.45	0.31	1.09	0.90	0.97	0.92	1.21	1.07	0.16	1.21	-1.44
29	1.55	1.41	1.01	1.06	1.01	0.78	0.74	0.64	-0.05	-0.69	-0.91	-1.12	-0.72	-0.67	-0.74	-0.40	-0.27	0.78	0.74	0.81	1.00	1.05	0.79	1.14	0.37	1.55	-1.12
30	1.19	0.82	0.83	0.56	0.79	0.70	0.73	0.58	-0.15	-0.63	-0.74	-0.81	-0.81	-0.86	-0.65	-0.53	-0.31	0.12	0.51	0.57	0.20	0.24	0.28	0.22	0.12	1.19	-0.86
31	0.23	0.27	0.38	0.43	0.44	0.51	0.48	0.48	-0.06	-0.51	-0.83	-1.00	-1.04	-0.37	-0.30	-0.17	-0.01	0.05	0.04	0.02	0.01	0.00	-0.02	-0.04	-0.04	0.51	-1.04
Avg	0.61	0.58	0.56	0.54	0.50	0.44	0.42	0.40	-0.02	-0.41	-0.63	-0.76	-0.76	-0.69	-0.60	-0.40	-0.11	0.22	0.35	0.40	0.51	0.56	0.52	0.52	0.12	--	--
Max	1.55	1.41	1.45	1.28	1.19	1.10	0.97	1.20	0.61	0.04	0.03	0.06	0.14	0.05	0.00	0.06	0.21	0.82	1.09	1.09	1.33	1.32	1.21	1.14	--	1.55	--
Min	-0.01	-0.04	-0.03	-0.03	-0.04	-0.05	-0.07	-0.07	-0.26	-0.77	-1.20	-1.29	-1.39	-1.44	-1.26	-1.03	-0.45	-0.07	-0.01	-0.19	0.00	-0.02	-0.02	-0.04	--	--	-1.44

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Feb 2016

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	-0.08	-0.01	0.08	0.02	-0.01	-0.03	-0.02	-0.02	-0.08	-0.13	-0.10	-0.10	-0.09	-0.06	-0.03	-0.02	-0.04	0.02	0.08	0.11	0.10	0.09	0.06	0.09	-0.01	0.11	-0.13
2	0.09	0.05	0.12	0.20	0.30	0.40	0.50	0.34	-0.35	-0.61	-0.45	-0.73	-0.79	-0.87	-0.74	-0.62	-0.44	-0.03	0.16	0.30	0.50	0.80	0.76	0.67	-0.02	0.80	-0.87
3	0.72	0.84	0.83	0.77	1.00	0.60	0.32	0.12	-0.39	-0.64	-0.91	-1.11	-1.40	-1.39	-1.29	-1.01	-0.61	0.29	0.51	0.55	0.43	0.42	0.31	0.27	-0.03	1.00	-1.40
4	0.30	0.30	0.27	0.31	0.32	0.35	0.33	0.23	-0.21	-0.60	-0.70	-0.69	-0.81	-0.88	-0.75	-0.67	-0.31	0.38	0.49	0.44	0.63	0.53	0.52	0.32	0.00	0.63	-0.88
5	0.28	0.31	0.29	0.25	0.28	0.28	0.25	0.18	-0.06	-0.26	-0.40	-0.54	-0.67	-0.98	-0.85	-0.69	-0.31	0.29	0.33	0.29	0.34	0.37	0.35	0.37	-0.01	0.37	-0.98
6	0.37	0.37	0.32	0.32	0.31	0.32	0.32	0.20	-0.24	-0.61	-0.87	-0.94	-0.98	-0.99	-0.86	-0.64	-0.25	0.40	0.37	0.40	0.45	0.45	0.44	0.38	-0.04	0.45	-0.99
7	0.39	0.38	0.43	0.43	0.36	0.39	0.35	0.30	-0.18	-0.55	-0.75	-0.95	-1.00	-0.92	-0.76	-0.51	-0.18	0.25	0.37	0.37	0.32	0.37	0.37	0.35	-0.02	0.43	-1.00
8	0.27	0.27	0.27	0.28	0.28	0.31	0.36	0.22	-0.10	-0.37	-0.65	-0.78	-0.83	-0.82	-0.74	-0.55	-0.37	0.41	0.48	0.45	0.40	0.24	0.23	0.22	-0.02	0.48	-0.83
9	0.25	0.27	0.38	0.33	0.41	0.41	0.41	0.26	-0.15	-0.51	-0.70	-0.84	-0.95	-0.99	-0.92	-0.71	-0.35	0.28	0.47	0.72	0.53	0.56	0.52	0.59	0.01	0.72	-0.99
10	0.57	0.72	0.49	0.45	0.45	0.41	0.42	0.24	-0.22	-0.58	-0.90	-1.07	-1.15	-1.23	-1.14	-0.91	-0.53	0.59	0.65	0.79	1.31	1.18	0.79	1.37	0.11	1.37	-1.23
11	0.96	0.85	1.01	0.98	0.86	0.68	0.64	0.26	-0.28	-0.55	-0.81	-1.17	-1.37	-1.30	-0.91	-0.47	-0.29	0.05	0.38	0.79	0.85	0.98	1.39	0.91	0.18	1.39	-1.37
12	0.77	0.76	0.75	0.87	0.62	0.44	0.49	0.23	-0.14	-0.47	-0.95	-1.27	-1.29	-1.15	-1.04	-0.82	-0.41	0.44	1.11	1.03	0.87	0.96	0.90	0.76	0.15	1.11	-1.29
13	0.82	1.24	1.19	1.01	0.91	0.60	0.57	0.35	-0.20	-0.65	-1.00	-1.43	-1.09	-1.15	-0.76	-0.96	-0.52	0.00	0.20	0.72	1.06	1.38	1.46	1.27	0.21	1.46	-1.43
14	1.24	0.96	1.15	1.48	1.34	1.04	1.03	0.65	-0.20	-0.76	-1.03	-0.70	-0.88	-0.72	-0.74	-0.53	-0.30	-0.02	0.06	0.37	0.51	0.76	1.13	1.11	0.29	1.48	-1.03
15	1.00	0.64	0.52	0.39	0.35	0.31	0.29	0.20	-0.05	-0.34	-0.62	-0.85	-1.05	-1.40	-1.36	-1.07	-0.38	-0.02	0.14	0.47	0.90	0.90	0.52	0.47	0.00	1.00	-1.40
16	0.44	0.40	0.45	0.44	0.34	0.38	0.44	0.19	-0.22	-0.62	-1.01	-1.31	-1.47	-1.52	-1.21	-0.95	-0.72	0.17	1.15	0.83	0.85	1.03	1.24	0.60	0.00	1.24	-1.52
17	0.98	0.87	0.80	0.57	0.60	0.71	0.56	0.42	-0.27	-0.79	-0.89	-1.23	-1.32	-1.23	-1.06	-0.73	-0.57	0.00	0.73	1.14	0.91	0.53	0.41	0.37	0.06	1.14	-1.32
18	0.38	0.58	0.32	0.68	0.64	0.67	1.04	0.65	-0.28	-0.70	-0.96	-0.62	-0.59	-0.56	-0.53	-0.40	-0.21	0.07	0.44	0.89	0.69	1.08	0.84	1.31	0.23	1.31	-0.96
19	1.09	1.57	1.01	0.93	0.98	0.60	0.77	1.30	0.66	-0.38	-0.65	-0.65	-0.82	-0.71	-0.57	-0.79	-0.52	0.04	0.39	0.81	0.84	0.77	0.86	0.61	0.34	1.57	-0.82
20	1.08	1.44	0.79	0.96	0.79	0.81	0.96	0.87	0.25	-0.75	-1.02	-0.82	-0.73	-0.82	-0.97	-0.75	-0.50	-0.10	0.09	0.21	0.91	0.91	0.98	1.00	0.23	1.44	-1.02
21	1.21	1.07	1.43	1.25	1.02	1.05	1.53	1.13	-0.38	-0.71	-0.57	-0.62	-0.85	-1.02	-1.00	-0.63	-0.49	-0.13	0.13	0.21	0.33	0.47	0.36	0.39	0.22	1.53	-1.02
22	0.95	0.84	0.98	0.91	0.60	0.96	0.86	0.53	0.11	-0.43	-0.64	-0.83	-1.01	-0.93	-0.85	-0.65	-0.49	-0.09	0.07	0.10	0.16	0.12	0.13	0.17	0.06	0.98	-1.01
23	0.30	0.28	0.28	0.37	0.37	0.40	0.44	0.06	-0.51	-0.87	-1.28	-1.67	-1.85	-1.63	-1.41	-0.90	-0.86	-0.25	0.52	0.56	0.40	0.32	0.28	0.29	-0.27	0.56	-1.85
24	0.24	0.22	0.25	0.20	0.14	0.14	0.15	-0.06	-0.46	-0.74	-0.97	-1.19	-1.41	-1.40	-1.28	-1.03	-0.67	-0.03	0.55	0.42	0.41	0.49	0.40	0.25	-0.23	0.55	-1.41
25	0.25	0.23	0.22	0.23	0.25	0.22	0.23	0.03	-0.33	-0.70	-1.00	-1.32	-1.48	-1.48	-1.49	-1.20	-0.89	-0.01	0.49	0.63	0.55	0.61	0.52	0.50	-0.21	0.63	-1.49
26	0.51	0.44	0.46	0.41	0.35	0.36	0.32	0.11	-0.33	-0.69	-1.03	-1.26	-1.36	-1.48	-1.49	-1.43	-0.83	0.05	0.46	0.96	0.71	0.90	1.35	1.46	-0.04	1.46	-1.49
27	1.06	1.15	1.37	0.80	0.88	0.82	0.51	0.09	-0.20	-0.85	-1.29	-1.36	-1.04	-0.93	-0.97	-0.88	-0.61	-0.17	0.14	0.32	0.68	1.17	1.67	2.10	0.19	2.10	-1.36
28	1.18	0.79	0.93	0.89	0.57	0.92	0.85	0.97	-0.13	-0.57	-0.75	-0.80	-0.98	-1.00	-1.07	-0.74	-0.49	-0.17	0.11	0.14	0.50	0.98	0.94	0.90	0.17	1.18	-1.07
29	0.76	0.70	0.64	1.19	0.86	0.87	0.87	0.38	-0.36	-0.54	-0.64	-0.93	-0.93	-0.81	-0.96	-0.92	-0.63	-0.19	0.11	0.15	0.17	0.22	0.14	0.30	0.02	1.19	-0.96
Avg	0.63	0.64	0.62	0.62	0.56	0.53	0.54	0.36	-0.18	-0.59	-0.81	-0.96	-1.04	-1.05	-0.96	-0.77	-0.47	0.09	0.39	0.52	0.60	0.67	0.69	0.67	0.05	--	--
Max	1.24	1.57	1.43	1.48	1.34	1.05	1.53	1.30	0.66	-0.13	-0.10	-0.10	-0.09	-0.06	-0.03	-0.02	-0.04	0.59	1.15	1.14	1.31	1.38	1.67	2.10	--	2.10	--
Min	-0.08	-0.01	0.08	0.02	-0.01	-0.03	-0.02	-0.06	-0.51	-0.87	-1.29	-1.67	-1.85	-1.63	-1.49	-1.43	-0.89	-0.25	0.06	0.10	0.10	0.09	0.06	0.09	--	--	-1.85

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Mar 2016

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	0.49	0.98	1.00	1.46	0.97	0.92	0.73	0.86	-0.45	-0.94	-1.29	-0.89	-0.94	-1.12	-1.02	-0.80	-0.40	-0.23	0.12	0.23	0.61	0.52	0.53	0.83	0.09	1.46	-1.29
2	0.78	0.80	1.09	0.75	0.99	0.86	1.14	0.92	-0.30	-0.73	-0.71	-0.88	-0.77	-0.74	-0.67	-0.61	-0.54	-0.15	0.24	0.44	0.42	0.54	0.29	0.26	0.14	1.14	-0.88
3	1.06	1.12	1.64	0.97	1.16	0.84	1.41	0.65	-0.12	-0.61	-1.07	-1.21	-1.03	-1.14	-0.82	-0.89	-0.56	-0.02	0.18	0.70	0.90	0.80	1.17	0.93	0.25	1.64	-1.21
4	0.89	0.97	0.88	0.64	1.08	0.96	1.27	0.81	-0.43	-0.87	-1.14	-1.33	-1.39	-1.29	-1.26	-0.86	-0.46	-0.04	0.49	0.78	1.17	0.95	1.87	1.41	0.21	1.87	-1.39
5	1.50	0.92	0.78	0.77	0.98	1.39	0.92	0.83	-0.43	-0.82	-0.87	-1.15	-1.04	-0.83	-0.86	-0.56	-0.30	-0.07	0.18	0.56	0.20	0.17	0.33	0.75	0.14	1.50	-1.15
6	0.35	0.27	0.31	0.31	0.32	0.78	0.68	0.46	0.18	-0.36	-0.62	-0.87	-1.06	-0.87	-0.56	-0.53	-0.52	-0.25	0.07	0.04	0.11	0.01	0.00	0.05	-0.07	0.78	-1.06
7	0.00	-0.04	0.04	0.11	0.24	0.56	0.69	0.37	-0.63	-0.66	-0.77	-0.89	-1.28	-1.00	-1.04	-0.80	-0.39	-0.22	-0.05	-0.01	0.07	0.01	0.20	0.12	-0.22	0.69	-1.28
8	0.22	-0.03	0.02	-0.01	-0.01	0.01	0.31	-0.26	-0.77	-0.87	-0.45	-0.63	-0.73	-0.80	-1.04	-0.94	-0.84	-0.29	-0.01	0.02	0.06	0.10	0.24	0.47	-0.26	0.47	-1.04
9	0.76	0.73	0.92	1.14	0.88	0.54	0.38	-0.01	-0.61	-0.94	-1.40	-0.80	-0.86	-0.77	-0.96	-0.69	-0.54	-0.24	0.03	0.08	0.27	0.75	1.36	0.83	0.03	1.36	-1.40
10	1.18	1.02	0.56	0.36	0.30	0.33	0.30	0.06	-0.41	-0.95	-1.35	-1.28	-1.54	-1.35	-1.26	-1.04	-0.89	-0.37	0.08	0.10	0.40	1.05	0.90	1.15	-0.11	1.18	-1.54
11	0.84	1.14	1.69	0.81	0.74	0.75	0.86	0.13	-0.47	-0.74	-0.84	-0.81	-0.98	-1.02	-0.84	-0.57	-0.32	-0.11	0.06	0.16	0.19	0.22	0.29	0.28	0.06	1.69	-1.02
12	0.18	0.21	0.05	0.04	0.00	-0.13	-0.04	-0.16	-0.58	-0.75	-0.97	-1.05	-1.17	-0.98	-1.01	-0.99	-0.71	-0.32	-0.02	0.01	0.09	0.37	0.57	0.65	-0.28	0.65	-1.17
13	0.74	0.84	--	0.77	0.84	0.95	0.71	-0.25	-0.73	-0.98	-0.83	-0.83	-1.20	-1.15	-1.02	-0.94	-0.66	-0.25	0.05	0.12	0.15	0.58	0.72	0.54	-0.08	0.95	-1.20
14	0.27	0.38	0.29	0.29	0.20	0.51	0.68	0.10	-0.59	-0.65	-0.92	-0.91	-1.04	-1.13	-0.98	-0.98	-0.71	-0.37	0.03	0.13	0.10	0.17	0.40	0.39	-0.18	0.68	-1.13
15	0.76	0.95	0.69	0.49	0.79	1.04	0.69	0.18	-0.54	-1.13	-1.58	-1.83	-1.89	-1.41	-1.29	-0.94	-0.69	-0.16	0.07	0.24	0.65	0.69	0.45	0.35	-0.14	1.04	-1.89
16	0.41	0.87	1.05	0.98	0.77	0.66	0.58	-0.12	-0.54	-0.97	-1.43	-1.80	-1.56	-1.53	-1.14	-0.98	-0.79	-0.36	0.10	0.10	0.21	0.71	1.18	1.07	-0.11	1.18	-1.80
17	1.04	1.08	0.85	1.00	1.22	1.52	0.63	-0.02	-0.61	-1.17	-1.14	-0.76	-1.28	-1.11	-1.19	-0.97	-0.73	-0.31	0.17	0.28	0.44	0.34	0.31	0.39	0.00	1.52	-1.28
18	0.45	0.45	1.41	1.76	0.95	0.95	1.07	0.21	-0.45	-0.67	-0.74	-0.95	-1.11	-1.16	-1.15	-0.99	-0.64	-0.30	0.10	0.18	0.38	0.25	0.40	0.31	0.03	1.76	-1.16
19	0.29	0.27	0.44	0.70	0.81	0.60	0.61	0.14	-0.62	-0.92	-0.87	-0.80	-0.96	-1.20	-1.12	-0.98	-0.63	-0.33	0.09	0.15	0.24	0.56	1.12	0.93	-0.06	1.12	-1.20
20	0.74	0.98	1.01	0.71	0.84	1.49	1.03	-0.08	-0.70	-1.19	-1.46	-1.61	-1.71	-2.00	-1.78	-1.43	-0.90	-0.40	0.58	0.99	0.94	1.11	1.40	0.80	-0.03	1.49	-2.00
21	0.81	0.79	0.58	0.75	0.58	0.54	0.43	-0.16	-0.78	-0.91	-1.34	-1.47	-1.21	-1.05	-1.09	-0.92	-0.50	-0.26	0.19	0.22	0.25	0.41	0.40	0.29	-0.14	0.81	-1.47
22	0.24	0.32	0.35	0.29	0.25	0.21	0.33	0.06	-0.40	-0.72	-0.87	-1.05	-1.13	-1.03	-0.84	-0.85	-0.55	-0.28	-0.03	0.04	0.06	0.08	0.04	0.06	-0.23	0.35	-1.13
23	0.11	0.18	0.14	0.22	0.21	0.10	0.11	-0.04	-0.27	-0.54	-1.02	-1.29	-1.07	-1.28	-1.23	-1.01	-0.77	-0.42	0.00	0.05	0.08	0.13	0.19	0.41	-0.29	0.41	-1.29
24	0.56	0.77	0.48	0.45	0.36	0.52	0.31	-0.25	-0.81	-1.39	-1.84	-1.79	-1.53	-1.43	-1.27	-1.12	-0.75	-0.38	0.01	0.10	0.11	0.21	0.19	0.21	-0.35	0.77	-1.84
25	0.23	0.22	0.84	1.09	1.03	0.83	0.86	0.15	-0.60	-0.63	-0.94	-0.94	-1.19	-1.09	-1.09	-0.93	-0.70	-0.34	0.05	0.14	0.24	0.23	0.50	0.61	-0.06	1.09	-1.19
26	0.60	0.53	0.46	0.79	0.62	1.12	0.71	-0.11	-0.58	-0.80	-0.94	-1.02	-1.06	-1.07	-1.08	-0.94	-0.63	-0.37	0.06	0.22	0.49	0.41	0.50	0.83	-0.05	1.12	-1.08
27	0.38	0.32	0.33	0.36	0.23	0.50	0.31	-0.32	-0.75	-1.18	-1.19	-1.25	-1.12	-1.04	-1.23	-1.04	-0.82	-0.42	0.08	0.59	0.67	0.93	1.15	0.99	-0.15	1.15	-1.25
28	0.77	0.38	0.71	0.52	0.46	0.42	0.26	-0.24	-0.64	-0.98	-1.27	-1.27	-1.10	-0.93	-0.60	-0.37	-0.44	-0.17	0.00	0.04	0.05	0.09	0.06	0.07	-0.17	0.77	-1.27
29	0.04	0.05	0.09	0.11	0.07	-0.03	-0.12	-0.16	-0.19	-0.29	-0.36	-0.36	-0.42	-0.66	-0.64	-0.55	-0.57	-0.46	-0.14	0.00	-0.03	-0.01	0.03	0.03	-0.19	0.11	-0.66
30	0.02	0.01	0.05	-0.02	-0.03	0.06	0.11	-0.44	-0.69	-0.52	-0.65	-0.62	-0.77	-0.98	-0.91	-0.71	-0.67	-0.53	0.05	0.16	0.28	0.44	0.61	0.55	-0.22	0.61	-0.98
31	0.84	0.70	0.70	0.59	0.85	0.92	0.35	-0.53	-1.01	-0.93	-0.54	-0.77	-1.13	-1.23	-0.94	-0.91	-0.85	-0.44	-0.02	0.09	0.16	0.14	0.33	0.41	-0.14	0.92	-1.23
Avg	0.57	0.59	0.65	0.62	0.60	0.67	0.59	0.09	-0.53	-0.83	-1.01	-1.07	-1.14	-1.11	-1.03	-0.87	-0.63	-0.29	0.09	0.22	0.32	0.42	0.57	0.55	-0.08	--	--
Max	1.50	1.14	1.69	1.76	1.22	1.52	1.41	0.92	0.18	-0.29	-0.36	-0.36	-0.42	-0.66	-0.56	-0.37	-0.30	-0.02	0.58	0.99	1.17	1.11	1.87	1.41	--	1.87	--
Min	0.00	-0.04	0.02	-0.02	-0.03	-0.13	-0.12	-0.53	-1.01	-1.39	-1.84	-1.83	-1.89	-2.00	-1.78	-1.43	-0.90	-0.53	-0.14	-0.01	-0.03	-0.01	0.00	0.03	--	--	-2.00

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jan 2016

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	5.2	5.5	5.3	5.2	4.8	4.5	4.1	4.1	5.1	6.7	8.3	10.1	11.5	11.9	12.0	11.6	10.3	7.6	6.3	5.7	5.0	4.7	4.6	4.0	6.8	12.0	4.0
2	3.5	3.5	3.6	3.6	3.5	3.2	3.2	3.2	4.5	5.8	6.8	8.0	9.3	10.0	10.5	10.3	9.5	8.3	7.8	7.4	6.8	6.5	6.1	5.5	6.3	10.5	3.2
3	5.3	4.6	4.2	4.1	3.1	2.7	3.0	3.1	4.2	5.4	6.4	8.0	9.2	10.2	10.6	10.9	10.2	9.0	8.9	8.8	8.6	8.2	7.8	7.6	6.8	10.9	2.7
4	7.1	6.3	6.3	6.0	5.8	5.8	6.0	5.5	5.8	6.7	7.7	8.4	8.0	6.5	6.2	6.7	6.8	6.5	6.2	5.8	5.6	5.3	5.1	4.7	6.3	8.4	4.7
5	4.4	4.3	4.4	4.5	4.2	4.0	4.2	4.2	4.4	4.6	5.1	5.9	6.1	6.4	7.0	7.2	7.0	6.9	6.9	6.9	7.1	7.1	6.8	6.8	5.7	7.2	4.0
6	7.0	7.0	6.8	6.5	6.1	4.4	2.9	3.5	3.9	3.9	4.1	4.2	4.4	5.7	5.7	5.6	5.9	5.4	4.8	4.6	3.7	3.5	3.6	4.1	4.9	7.0	2.9
7	4.1	4.5	4.3	4.5	4.3	4.3	4.3	4.3	4.2	4.2	3.8	3.0	2.4	0.7	0.1	0.1	0.1	0.1	0.0	-0.2	-0.1	0.9	1.6	1.5	2.4	4.5	-0.2
8	1.5	1.2	1.2	1.4	1.2	1.2	1.3	1.3	1.2	1.1	0.7	0.3	0.7	0.8	1.1	0.8	0.9	1.6	1.8	2.0	2.1	2.2	1.8	1.8	1.3	2.2	0.3
9	1.4	2.3	2.4	2.1	2.0	1.6	0.8	0.5	1.1	2.6	4.1	4.7	5.6	5.4	5.4	5.1	4.8	4.7	3.9	3.3	1.7	1.7	0.9	0.9	2.9	5.6	0.5
10	1.0	0.6	0.3	-0.2	0.3	0.3	0.4	0.7	1.5	3.2	4.0	4.5	5.7	6.0	5.5	5.0	4.7	4.5	4.1	3.6	3.6	2.5	1.6	1.2	2.7	6.0	-0.2
11	1.3	1.0	1.6	2.4	2.2	1.9	1.3	1.0	1.9	2.8	3.9	5.1	5.9	6.9	7.3	7.4	6.9	5.4	4.5	3.4	4.3	3.6	2.8	2.9	3.6	7.4	1.0
12	1.8	1.8	1.7	1.5	1.7	1.7	1.0	1.2	3.5	5.2	6.2	7.6	8.8	9.3	9.6	9.6	9.0	8.1	8.6	7.8	7.0	7.0	6.8	6.4	5.5	9.6	1.0
13	5.8	5.0	5.4	5.7	5.8	5.8	4.7	4.0	5.6	7.5	8.9	10.2	11.7	12.8	12.1	12.4	12.4	10.4	8.7	7.2	6.4	6.1	6.4	6.3	7.8	12.8	4.0
14	6.1	4.6	5.7	5.0	4.8	5.0	3.7	3.0	4.5	7.2	9.5	9.9	10.4	10.5	10.5	10.7	9.7	8.4	7.4	5.7	5.3	4.4	5.1	5.0	6.8	10.7	3.0
15	4.6	4.2	4.2	2.9	2.9	2.8	3.0	3.6	4.6	5.8	6.6	6.5	7.2	7.7	7.2	6.8	5.4	5.5	5.1	4.9	2.8	2.3	2.9	4.3	4.7	7.7	2.3
16	2.4	3.1	2.0	1.3	1.1	1.2	1.0	0.7	2.3	5.4	7.3	8.8	8.9	9.1	8.9	8.7	8.3	7.6	7.3	6.6	6.1	6.5	6.5	7.4	5.4	9.1	0.7
17	6.7	5.8	4.9	4.5	4.0	4.9	5.2	4.1	6.8	10.5	13.5	14.8	14.8	13.4	13.6	13.4	12.7	11.5	10.6	9.8	9.2	9.9	9.1	8.6	9.3	14.8	4.0
18	7.6	7.5	6.6	6.6	5.7	5.9	6.3	6.2	7.7	9.4	12.2	13.6	13.8	14.0	15.1	15.4	14.7	13.7	12.8	11.5	9.7	10.4	9.0	9.4	10.2	15.4	5.7
19	7.9	6.7	6.5	6.2	5.4	5.0	4.4	4.4	6.7	9.8	12.1	13.5	14.2	13.9	13.8	12.5	12.2	11.5	10.8	10.0	9.5	10.0	10.5	9.2	9.4	14.2	4.4
20	9.8	8.5	7.1	7.3	6.8	6.9	6.9	5.8	8.2	10.3	11.4	12.0	12.4	12.4	12.5	12.3	11.6	10.6	9.9	9.4	8.4	7.9	8.9	7.3	9.4	12.5	5.8
21	6.8	6.5	6.1	6.7	6.8	6.4	5.9	6.0	7.0	8.0	9.1	10.6	11.7	13.0	13.3	13.2	12.5	11.1	10.8	10.7	10.4	10.1	9.9	9.1	9.2	13.3	5.9
22	9.0	8.8	8.3	8.0	7.9	7.7	7.6	7.5	8.4	9.8	11.1	12.4	13.3	14.1	15.1	15.3	13.9	12.6	11.5	11.5	11.5	11.2	11.0	10.9	10.8	15.3	7.5
23	10.6	10.6	10.4	10.1	9.8	9.6	9.1	9.0	9.4	10.9	12.3	14.8	16.9	17.5	17.8	17.7	16.9	15.4	13.8	11.9	12.4	12.4	12.0	10.8	12.6	17.8	9.0
24	10.9	10.7	9.7	9.3	9.1	8.5	8.0	7.5	7.6	8.1	8.5	9.6	10.5	10.6	10.4	10.3	9.9	8.9	8.0	7.7	6.9	5.4	5.0	6.8	8.7	10.9	5.0
25	5.1	5.1	4.9	5.0	4.4	4.5	3.8	4.0	5.6	7.4	9.4	10.3	10.5	10.7	10.8	10.9	10.4	9.4	8.5	8.1	6.4	6.8	5.5	5.8	7.2	10.9	3.8
26	5.0	4.6	4.0	3.6	3.5	3.4	3.4	3.6	4.0	5.2	6.3	8.0	9.7	10.7	--	--	10.5	9.4	8.6	8.1	7.6	7.4	6.8	6.5	6.4	10.7	3.4
27	6.4	6.3	5.5	4.3	3.8	4.1	4.0	3.8	5.8	7.6	8.5	10.2	11.4	12.4	13.9	14.6	13.6	11.6	10.2	8.3	8.5	7.7	7.9	7.7	8.3	14.6	3.8
28	8.0	6.4	6.2	5.9	7.2	7.4	6.5	5.9	8.8	9.6	11.3	13.3	15.0	16.2	16.7	16.2	16.2	14.2	11.9	11.1	10.3	9.2	9.8	9.8	10.5	16.7	5.9
29	10.6	8.1	8.0	7.4	7.0	6.8	6.7	6.5	8.6	11.9	14.6	16.9	16.5	16.3	16.2	15.4	14.9	13.8	13.1	11.5	11.7	10.7	10.3	10.3	11.4	16.9	6.5
30	9.8	9.7	10.3	9.7	8.9	9.0	8.3	8.1	9.3	11.5	13.7	14.4	15.3	16.0	15.8	15.6	15.0	14.3	13.4	13.1	13.4	13.1	12.8	12.7	12.2	16.0	8.1
31	12.1	11.9	11.5	11.3	11.2	10.7	10.4	10.5	11.8	12.8	13.7	14.6	15.6	14.8	14.8	15.3	15.3	15.7	15.0	14.0	13.3	12.5	11.7	10.1	12.9	15.7	10.1
Avg	6.1	5.7	5.5	5.2	5.0	4.9	4.6	4.4	5.6	7.1	8.4	9.5	10.2	10.5	10.6	10.6	10.1	9.2	8.4	7.7	7.3	7.0	6.8	6.6	7.4	--	--
Max	12.1	11.9	11.5	11.3	11.2	10.7	10.4	10.5	11.8	12.8	14.6	16.9	16.9	17.5	17.8	17.7	16.9	15.7	15.0	14.0	13.4	13.1	12.8	12.7	--	17.8	--
Min	1.0	0.6	0.3	-0.2	0.3	0.3	0.4	0.5	1.1	1.1	0.7	0.3	0.7	0.7	0.1	0.1	0.1	0.1	0.0	-0.2	-0.1	0.9	0.9	0.9	--	--	-0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Feb 2016

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	5.5	3.4	2.8	2.3	2.1	1.7	1.6	1.1	0.6	0.7	-0.9	-1.2	-0.8	-0.5	0.0	0.1	-0.4	0.0	0.4	1.1	1.3	0.9	0.7	0.1	0.9	5.5	-1.2
2	-0.4	-0.8	-1.3	-1.7	-2.5	-3.4	-4.2	-3.3	-2.6	-1.0	-0.6	0.4	0.9	1.0	1.3	1.4	1.6	1.2	0.7	0.5	0.0	-1.1	-1.2	-1.6	-0.7	1.6	-4.2
3	-1.7	-2.3	-2.5	-2.9	-3.0	-3.5	-3.9	-3.5	-1.2	1.3	2.0	3.0	4.1	4.8	5.5	6.0	6.0	4.8	3.2	2.4	2.2	2.0	1.3	1.1	1.0	6.0	-3.9
4	1.3	0.7	0.3	0.8	0.6	0.9	0.9	1.0	2.0	3.0	4.1	4.9	6.0	7.3	7.9	8.8	8.6	7.4	5.5	4.6	5.1	5.7	4.9	3.9	4.0	8.8	0.3
5	4.7	4.7	4.8	4.7	4.2	4.6	4.5	4.7	5.2	5.4	6.3	7.5	8.6	10.1	10.6	10.8	10.5	9.3	8.0	7.4	7.1	7.0	6.5	5.9	6.8	10.8	4.2
6	5.9	6.1	5.6	5.2	5.0	5.0	4.8	4.9	6.2	7.6	9.1	10.9	12.3	13.5	13.9	13.9	14.1	13.1	11.6	10.8	10.8	11.1	11.1	10.6	9.3	14.1	4.8
7	10.1	9.8	8.7	9.6	9.8	9.4	8.4	7.8	9.8	10.8	12.7	14.1	15.9	17.1	18.2	18.8	18.0	16.6	15.7	15.0	14.2	13.7	13.7	12.9	13.0	18.8	7.8
8	12.2	11.7	11.8	11.5	10.6	10.5	10.4	10.4	11.5	12.1	13.7	15.8	17.6	18.5	19.1	19.7	20.3	19.2	18.5	17.4	16.0	14.9	13.9	13.7	14.6	20.3	10.4
9	13.2	12.4	12.2	12.3	11.3	10.8	10.9	11.0	12.2	13.4	15.1	16.7	18.2	19.4	20.1	20.3	20.5	18.8	16.2	14.4	14.0	14.0	14.4	13.7	14.8	20.5	10.8
10	13.6	11.9	12.7	13.0	12.3	12.0	11.8	12.0	13.2	14.6	16.1	18.0	19.3	20.0	20.8	21.1	20.9	19.2	17.1	16.2	15.0	14.9	15.5	14.7	15.7	21.1	11.8
11	13.6	12.6	12.0	11.5	11.1	11.1	10.7	10.8	12.8	15.1	17.5	21.0	22.3	23.1	22.6	21.6	21.2	20.2	18.6	16.7	16.2	15.9	14.8	13.8	16.1	23.1	10.7
12	14.1	14.1	13.7	13.1	13.2	13.0	11.9	12.0	14.3	17.0	18.0	19.8	21.4	22.8	23.4	23.4	22.8	21.1	18.6	17.4	16.8	16.3	16.5	16.7	17.1	23.4	11.9
13	15.8	13.9	14.1	13.6	13.8	14.4	14.1	14.0	15.6	17.1	18.4	20.8	22.2	23.1	22.3	22.7	22.1	20.7	19.0	17.0	15.1	14.2	14.7	13.4	17.2	23.1	13.4
14	14.9	13.4	13.5	11.7	11.5	12.0	11.4	10.2	12.4	16.1	18.6	18.6	19.3	19.5	19.9	19.2	18.6	17.4	16.2	15.5	15.7	15.7	14.4	13.3	15.4	19.9	10.2
15	13.7	12.6	15.0	14.6	13.7	13.3	13.4	13.4	14.2	15.3	16.3	18.0	19.4	21.2	21.9	22.4	21.0	19.7	18.5	17.4	15.4	15.3	15.4	15.1	16.5	22.4	12.6
16	15.3	15.0	15.1	15.5	14.4	13.9	14.4	13.4	15.4	17.6	18.6	20.1	21.6	23.1	23.6	23.9	23.8	22.0	19.7	18.6	18.0	17.3	17.0	15.4	18.0	23.9	13.4
17	15.1	15.0	15.0	15.3	14.8	13.8	12.6	12.4	15.5	18.0	20.3	21.8	23.1	23.6	24.4	24.4	24.2	23.0	21.2	20.4	20.8	21.1	20.4	19.7	19.0	24.4	12.4
18	19.2	18.6	18.7	17.7	17.3	16.8	15.8	16.0	15.8	18.4	19.4	19.4	20.0	20.0	21.2	21.0	20.1	19.1	18.2	17.0	17.6	16.1	15.2	14.2	18.0	21.2	14.2
19	14.5	13.7	13.7	13.8	13.4	13.7	13.9	13.5	14.0	16.4	18.7	19.6	20.4	20.6	20.5	21.2	21.1	19.8	18.5	15.9	15.7	15.5	15.2	15.5	16.6	21.2	13.4
20	14.3	13.9	14.4	13.9	13.4	13.0	12.7	12.8	13.1	17.3	20.4	20.8	20.7	21.2	21.8	21.7	21.3	20.1	19.0	18.2	16.8	16.0	15.2	15.0	17.0	21.8	12.7
21	14.5	14.1	13.6	13.2	12.9	12.6	11.7	12.1	15.2	17.2	18.6	18.7	19.4	20.5	21.2	21.0	20.5	19.4	18.0	17.2	16.8	16.2	16.4	16.2	16.6	21.2	11.7
22	14.4	13.1	12.7	11.3	11.5	10.6	9.8	10.3	13.1	14.2	14.9	15.7	16.4	16.3	17.1	17.3	17.3	17.4	16.7	15.7	14.9	14.0	14.3	13.6	14.3	17.4	9.8
23	12.7	12.2	11.8	11.5	11.1	8.1	6.7	6.7	8.6	9.6	10.8	12.1	12.6	13.2	13.4	13.2	13.7	12.9	11.8	11.0	10.2	9.4	9.0	8.3	10.9	13.7	6.7
24	7.7	7.3	7.1	7.2	5.9	5.7	5.2	5.3	7.2	9.2	10.7	12.6	14.2	15.0	15.6	15.8	15.5	14.2	12.5	11.8	11.1	11.0	11.2	10.9	10.4	15.8	5.2
25	10.8	10.3	10.2	9.6	9.5	9.3	9.4	9.8	11.2	12.8	14.6	16.4	18.3	19.6	20.5	20.8	20.5	19.1	17.0	15.8	15.4	15.2	14.9	14.9	14.4	20.8	9.3
26	14.6	13.9	13.5	13.2	13.1	12.6	12.1	12.6	14.0	15.4	16.9	18.3	20.0	21.6	22.8	23.1	22.4	20.8	19.2	17.5	17.1	16.1	15.0	15.1	16.7	23.1	12.1
27	15.3	13.9	13.1	14.2	13.4	12.9	12.9	13.5	14.7	16.7	19.1	20.9	21.8	22.1	22.3	22.5	21.9	20.7	19.3	18.4	17.3	14.8	14.6	13.7	17.1	22.5	12.9
28	14.0	13.9	13.3	12.7	12.6	12.4	12.1	11.3	14.1	17.5	18.9	19.3	20.3	20.9	21.3	21.2	20.6	19.8	18.6	18.2	17.5	16.6	16.8	15.1	16.6	21.3	11.3
29	15.2	15.0	14.5	13.5	13.4	13.0	12.9	13.0	14.7	17.5	18.8	19.7	20.3	21.0	21.7	21.8	21.5	20.5	19.4	18.8	18.5	18.6	18.7	18.5	17.5	21.8	12.9
Avg	11.5	10.8	10.7	10.4	10.0	9.7	9.3	9.3	10.8	12.6	14.0	15.3	16.4	17.2	17.8	17.9	17.6	16.5	15.1	14.1	13.5	13.0	12.8	12.2	13.3	--	--
Max	19.2	18.6	18.7	17.7	17.3	16.8	15.8	16.0	15.8	18.4	20.4	21.8	23.1	23.6	24.4	24.4	24.2	23.0	21.2	20.4	20.8	21.1	20.4	19.7	--	24.4	--
Min	-1.7	-2.3	-2.5	-2.9	-3.0	-3.5	-4.2	-3.5	-2.6	-1.0	-0.9	-1.2	-0.8	-0.5	0.0	0.1	-0.4	0.0	0.4	0.5	0.0	-1.1	-1.2	-1.6	--	--	-4.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Mar 2016

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	18.2	16.8	15.1	15.0	13.9	12.9	12.9	12.2	15.2	18.6	20.9	21.2	22.0	22.5	22.8	22.6	21.8	21.4	20.0	19.2	18.2	18.4	18.7	16.6	18.2	22.8	12.2
2	16.6	15.7	14.3	14.1	14.0	13.3	13.3	12.6	15.4	18.4	19.6	20.7	21.4	21.9	22.0	22.1	22.0	21.3	20.1	19.4	19.2	19.2	19.8	19.4	18.2	22.1	12.6
3	16.3	15.9	14.0	13.8	13.7	12.8	12.4	12.5	14.0	17.5	20.1	21.4	21.8	22.6	22.7	23.3	23.1	21.8	20.6	18.9	17.5	16.8	16.7	15.8	17.8	23.3	12.4
4	16.2	15.3	15.2	15.5	14.2	14.4	12.2	11.6	14.9	18.8	21.1	22.1	23.1	23.6	24.5	24.3	23.4	22.1	20.7	19.0	18.4	17.3	18.2	18.6	18.5	24.5	11.6
5	16.5	15.8	14.9	14.7	14.6	13.1	13.2	13.2	15.9	18.6	19.1	20.0	20.7	20.5	20.8	20.4	19.9	19.3	18.8	18.0	18.3	18.0	17.2	16.7	17.4	20.8	13.1
6	17.2	17.0	16.7	16.5	16.2	13.8	13.3	13.2	14.4	15.4	16.2	17.3	18.1	18.2	17.8	17.7	17.9	17.5	16.3	15.5	14.9	14.7	13.4	12.1	15.9	18.2	12.1
7	11.0	10.6	9.8	9.0	8.2	7.1	6.6	6.8	8.4	10.1	11.3	12.1	12.8	12.8	13.0	13.0	12.1	11.7	10.3	9.3	8.9	8.8	7.3	7.1	9.9	13.0	6.6
8	6.7	6.2	4.3	4.2	4.0	3.8	3.7	5.2	7.7	8.7	7.4	8.7	9.8	11.2	12.7	13.3	13.5	12.6	11.6	11.2	11.2	11.5	11.4	10.6	8.8	13.5	3.7
9	9.6	7.7	8.1	8.7	7.4	7.6	7.3	8.9	12.3	14.5	16.3	15.9	16.3	16.6	17.4	17.2	17.3	16.8	15.7	14.9	14.7	13.2	12.5	11.4	12.8	17.4	7.3
10	11.8	13.0	13.8	14.4	14.0	13.7	13.7	14.5	16.1	17.4	19.0	19.6	21.1	21.9	22.4	22.6	22.6	21.4	19.8	18.9	17.9	15.4	14.9	15.7	17.3	22.6	11.8
11	15.1	14.3	14.4	13.7	12.4	12.8	12.5	14.1	16.8	18.8	19.6	20.2	21.5	22.4	22.9	22.8	22.2	21.6	19.8	18.8	18.1	17.1	16.1	15.4	17.6	22.9	12.4
12	14.4	13.8	11.7	9.4	8.3	7.5	6.1	5.7	6.4	7.1	8.6	9.6	10.6	11.0	11.8	12.2	12.1	11.6	10.8	10.5	10.2	9.4	8.3	8.1	9.8	14.4	5.7
13	8.0	7.6	--	8.4	7.0	6.4	6.1	7.1	10.0	12.4	13.3	14.2	15.6	16.1	16.4	16.6	16.3	15.4	14.5	14.1	13.8	12.3	12.3	12.7	12.0	16.6	6.1
14	12.9	12.7	12.7	12.1	11.5	10.7	9.5	9.6	12.0	13.3	14.6	15.3	16.1	17.0	17.6	17.9	17.6	16.8	15.8	15.1	14.8	14.4	13.9	13.8	14.1	17.9	9.5
15	12.8	12.8	12.9	13.5	10.9	9.1	9.6	11.0	13.8	16.4	18.1	19.4	20.5	21.1	21.5	21.6	21.2	20.3	18.9	17.8	17.0	16.8	17.1	17.2	16.3	21.6	9.1
16	16.6	13.6	13.4	12.4	11.5	11.3	11.9	13.2	17.0	18.1	19.2	20.8	21.7	22.6	22.5	22.8	22.5	21.6	20.0	19.1	18.7	17.9	15.3	16.1	17.5	22.8	11.3
17	15.0	14.5	13.7	12.6	11.9	11.9	11.9	12.8	16.1	18.7	20.0	20.4	22.0	22.3	22.6	22.5	22.2	21.3	20.0	19.3	18.6	18.6	18.6	18.1	17.7	22.6	11.9
18	17.9	17.4	15.0	14.8	13.5	13.3	12.6	13.5	16.6	18.6	19.2	20.3	21.5	22.0	22.4	22.4	21.9	21.2	20.1	19.5	19.1	19.2	18.7	18.5	18.3	22.4	12.6
19	18.3	17.5	16.4	15.7	14.0	13.4	12.9	13.4	16.2	19.1	20.1	20.7	21.8	22.6	23.0	23.3	22.7	22.0	20.9	20.2	19.8	19.5	17.0	16.4	18.6	23.3	12.9
20	15.9	16.1	15.6	15.5	15.2	14.1	13.7	15.0	15.5	17.1	18.5	20.1	21.6	23.3	24.0	24.3	24.0	23.3	21.4	20.3	18.2	17.7	16.4	16.6	18.5	24.3	13.7
21	15.5	14.5	14.2	14.4	13.9	13.7	13.8	15.2	17.5	19.8	21.7	23.0	24.0	24.3	25.1	24.7	24.1	23.4	22.3	21.5	20.9	20.4	20.0	19.8	19.5	25.1	13.7
22	19.0	17.9	17.3	16.6	16.0	15.6	14.7	15.6	16.4	17.2	17.8	18.7	19.5	19.2	19.0	18.6	18.0	16.5	15.2	14.3	13.4	12.6	12.1	11.9	16.4	19.5	11.9
23	11.5	10.8	10.3	9.9	10.1	10.2	9.3	8.2	9.5	10.3	12.0	13.1	13.6	14.6	15.2	15.4	15.4	14.4	13.2	12.5	12.0	12.0	11.6	10.8	11.9	15.4	8.2
24	9.0	8.5	8.3	7.8	7.5	8.5	9.4	10.4	12.5	14.0	16.1	17.1	17.7	18.7	18.8	18.9	18.1	17.1	15.9	15.1	14.7	14.4	14.5	14.2	13.6	18.9	7.5
25	14.2	14.2	13.0	11.1	10.6	9.7	9.4	10.9	13.7	15.7	16.6	17.6	18.5	18.9	19.4	19.6	19.6	18.8	18.0	17.3	17.1	16.8	16.8	16.7	15.6	19.6	9.4
26	15.8	15.3	14.8	13.5	12.4	11.9	10.9	12.6	15.2	16.5	17.7	18.3	19.2	19.7	20.4	20.3	20.0	19.5	18.7	17.9	17.1	17.4	17.0	13.9	16.5	20.4	10.9
27	13.0	12.5	11.0	10.1	9.4	8.6	8.8	11.7	15.3	17.6	18.7	19.7	20.1	21.0	21.7	21.6	21.3	20.6	19.4	18.4	17.1	16.4	15.8	14.5	16.0	21.7	8.6
28	15.0	15.9	14.9	14.5	14.2	14.0	13.8	14.7	15.6	16.5	17.7	18.8	19.0	19.5	19.4	19.2	19.4	18.6	17.4	16.6	15.7	14.9	14.0	12.9	16.3	19.5	12.9
29	12.2	12.0	11.6	11.0	10.1	9.0	8.1	7.4	7.6	7.0	5.8	4.1	4.0	6.1	8.2	9.0	9.7	10.1	9.9	9.3	9.0	8.6	8.3	8.0	8.6	12.2	4.0
30	7.6	7.3	7.1	6.4	5.6	5.1	4.6	5.5	6.8	7.1	8.0	8.4	9.3	10.2	10.7	10.7	10.7	10.7	9.6	9.2	8.7	7.9	6.2	6.3	7.9	10.7	4.6
31	6.0	5.0	5.1	3.9	3.7	3.7	3.4	6.6	9.7	10.2	9.8	10.6	11.2	11.9	11.0	12.0	12.6	12.3	11.6	11.0	10.6	10.6	10.1	10.0	8.9	12.6	3.4
Avg	13.7	13.2	12.7	12.0	11.3	10.7	10.4	11.1	13.4	15.1	16.3	17.1	17.9	18.6	19.0	19.1	18.9	18.2	17.0	16.2	15.6	15.1	14.5	14.1	15.1	--	--
Max	19.0	17.9	17.3	16.6	16.2	15.6	14.7	15.6	17.5	19.8	21.7	23.0	24.0	24.3	25.1	24.7	24.1	23.4	22.3	21.5	20.9	20.4	20.0	19.8	--	25.1	--
Min	6.0	5.0	4.3	3.9	3.7	3.7	3.4	5.2	6.4	7.0	5.8	4.1	4.0	6.1	8.2	9.0	9.7	10.1	9.6	9.2	8.7	7.9	6.2	6.3	--	--	3.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jan 2016

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	21	198	387	531	617	636	591	482	321	128	4	0	0	0	0	0	0	163	636	0
2	0	0	0	0	0	0	0	25	202	393	540	626	645	597	488	326	132	4	0	0	0	0	0	0	166	645	0
3	0	0	0	0	0	0	0	17	197	383	531	618	638	592	483	322	99	7	0	0	0	0	0	0	162	638	0
4	0	0	0	0	0	0	0	7	49	164	148	94	85	70	156	229	96	6	0	0	0	0	0	0	46	229	0
5	0	0	0	0	0	0	0	2	16	45	90	192	92	61	199	38	19	1	0	0	0	0	0	0	31	199	0
6	0	0	0	0	0	0	0	4	47	145	147	184	108	251	159	63	132	7	0	0	0	0	0	0	52	251	0
7	0	0	0	0	0	0	0	2	27	37	22	24	23	19	33	30	27	3	0	0	1	0	0	0	10	37	0
8	0	0	0	0	0	0	0	1	11	30	31	43	29	47	32	19	18	3	0	0	0	0	0	0	11	47	0
9	0	0	0	0	0	0	0	20	210	387	599	518	751	356	260	78	35	8	0	0	0	0	0	0	134	751	0
10	0	0	0	0	0	0	0	7	133	288	312	323	437	353	96	83	64	9	0	0	0	0	0	0	88	437	0
11	0	0	0	0	0	0	0	26	211	408	566	658	685	639	526	360	157	5	0	0	0	0	0	0	177	685	0
12	0	0	0	0	0	0	0	26	210	410	563	657	683	640	532	366	163	5	0	0	0	0	0	0	177	683	0
13	0	0	0	0	0	0	0	27	213	414	570	662	685	636	532	366	159	5	0	0	0	0	0	0	178	685	0
14	0	0	0	0	0	0	0	25	208	405	556	656	681	636	529	370	113	11	0	0	0	0	0	0	175	681	0
15	0	0	0	0	0	0	0	12	79	163	310	162	409	353	158	68	27	8	0	0	0	0	0	0	73	409	0
16	0	0	0	0	0	0	0	27	177	396	516	618	652	571	485	297	94	6	0	0	0	0	0	0	160	652	0
17	0	0	0	0	0	0	0	14	213	412	570	665	688	650	543	377	173	7	0	0	0	0	0	0	180	688	0
18	0	0	0	0	0	0	0	21	169	265	410	531	431	337	527	282	96	11	0	0	0	0	0	0	128	531	0
19	0	0	0	0	0	0	0	28	209	406	562	627	672	587	484	306	178	14	0	0	0	0	0	0	170	672	0
20	0	0	0	0	0	0	0	27	208	406	562	657	684	646	540	380	181	12	0	0	0	0	0	0	179	684	0
21	0	0	0	0	0	0	0	32	226	428	588	688	700	658	567	371	147	19	0	0	0	0	0	0	184	700	0
22	0	0	0	0	0	0	0	5	202	434	576	690	699	611	560	383	147	26	0	0	0	0	0	0	181	699	0
23	0	0	0	0	0	0	0	11	127	330	517	652	698	571	381	273	126	18	0	0	0	0	0	0	154	698	0
24	0	0	0	0	0	0	0	30	216	421	581	677	706	664	558	395	199	17	0	0	0	0	0	0	186	706	0
25	0	0	0	0	0	0	0	10	201	322	545	657	668	660	560	398	205	18	0	0	0	0	0	0	177	668	0
26	0	0	0	0	0	0	0	32	235	448	607	704	730	689	--	--	219	19	0	0	0	0	0	0	167	730	0
27	0	0	0	0	0	0	0	35	234	439	599	697	724	683	578	411	199	20	0	0	0	0	0	0	192	724	0
28	0	0	0	0	0	0	0	37	236	343	589	697	728	681	568	385	224	25	0	0	0	0	0	0	188	728	0
29	0	0	0	0	0	0	0	38	239	450	604	700	631	687	615	287	209	25	0	0	0	0	0	0	187	700	0
30	0	0	0	0	0	0	0	35	229	433	593	694	726	677	524	348	197	25	0	0	0	0	0	0	187	726	0
31	0	0	0	0	0	0	0	37	237	442	601	700	694	214	214	145	49	13	0	0	0	0	0	0	139	700	0
Avg	0	0	0	0	0	0	0	21	173	337	469	538	562	498	412	269	129	12	0	0	0	0	0	0	142	--	--
Max	0	0	0	0	0	0	0	38	239	450	607	704	751	689	615	411	224	26	0	0	1	0	0	0	--	751	--
Min	0	0	0	0	0	0	0	1	11	30	22	24	23	19	32	19	18	1	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Feb 2016

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	3	78	106	44	67	59	57	37	24	23	13	0	0	0	0	0	0	21	106	0
2	0	0	0	0	0	0	0	51	246	450	625	726	757	718	609	443	241	34	0	0	0	0	0	0	204	757	0
3	0	0	0	0	0	0	0	45	252	465	630	735	766	725	621	455	251	36	0	0	0	0	0	0	208	766	0
4	0	0	0	0	0	0	0	50	255	472	521	570	610	660	547	460	256	40	0	0	0	0	0	0	185	660	0
5	0	0	0	0	0	0	0	51	265	474	640	749	778	737	634	464	261	44	0	0	0	0	0	0	212	778	0
6	0	0	0	0	0	0	0	52	268	480	644	748	779	738	632	465	262	44	0	0	0	0	0	0	213	779	0
7	0	0	0	0	0	0	0	52	269	481	647	757	780	741	641	478	257	47	0	0	0	0	0	0	215	780	0
8	0	0	0	0	0	0	0	58	277	490	654	756	789	750	643	474	266	46	0	0	0	0	0	0	217	789	0
9	0	0	0	0	0	0	0	57	273	484	648	751	785	744	638	473	269	46	0	0	0	0	0	0	215	785	0
10	0	0	0	0	0	0	0	59	277	488	652	755	789	750	643	448	286	40	0	0	0	0	0	0	216	789	0
11	0	0	0	0	0	0	0	64	286	499	663	764	798	752	644	479	278	49	0	0	0	0	0	0	220	798	0
12	0	0	0	0	0	0	0	68	294	508	672	773	806	767	659	492	284	47	0	0	0	0	0	0	224	806	0
13	0	0	0	0	0	0	0	66	288	502	668	770	794	755	657	488	282	50	0	0	0	0	0	0	222	794	0
14	0	0	0	0	0	0	0	67	289	503	670	778	803	767	658	492	266	44	0	0	0	0	0	0	222	803	0
15	0	0	0	0	0	0	0	68	292	514	674	780	810	765	658	489	289	55	0	0	0	0	0	0	225	810	0
16	0	0	0	0	0	0	0	79	306	519	685	787	817	775	666	502	291	57	0	0	0	0	0	0	228	817	0
17	0	0	0	0	0	0	0	81	307	519	685	788	816	776	671	506	299	65	0	0	0	0	0	0	230	816	0
18	0	0	0	0	0	0	0	80	300	526	607	361	354	390	404	341	178	47	0	0	0	0	0	0	150	607	0
19	0	0	0	0	0	0	0	13	107	406	463	438	552	396	403	471	278	63	1	0	0	0	0	0	150	552	0
20	0	0	0	0	0	0	0	42	289	521	685	761	807	772	674	514	308	89	1	0	0	0	0	0	228	807	0
21	0	0	0	0	0	0	0	92	316	527	693	798	829	791	686	524	315	90	1	0	0	0	0	0	236	829	0
22	0	0	0	0	0	0	0	92	325	540	704	807	836	795	684	521	311	91	1	0	0	0	0	0	238	836	0
23	0	0	0	0	0	0	0	105	342	559	724	827	857	815	582	380	334	110	2	0	0	0	0	0	235	857	0
24	0	0	0	0	0	0	0	108	347	566	736	839	867	825	713	546	332	102	1	0	0	0	0	0	249	867	0
25	0	0	0	0	0	0	0	107	343	558	726	829	857	815	703	537	324	100	1	0	0	0	0	0	246	857	0
26	0	0	0	0	0	0	0	107	343	559	726	829	858	816	704	538	327	101	1	0	0	0	0	0	246	858	0
27	0	0	0	0	0	0	0	147	254	535	716	823	771	814	701	541	330	104	1	0	0	0	0	0	239	823	0
28	0	0	0	0	0	0	0	116	349	561	730	834	860	818	709	543	272	99	1	0	0	0	0	0	245	860	0
29	0	0	0	0	0	0	0	125	342	529	668	744	794	818	707	544	334	108	2	0	0	0	0	0	238	818	0
Avg	0	0	0	0	0	0	0	73	282	495	641	722	751	719	618	470	276	64	0	0	0	0	0	0	213	--	--
Max	0	0	0	0	0	0	0	147	349	566	736	839	867	825	713	546	334	110	2	0	0	0	0	0	--	867	--
Min	0	0	0	0	0	0	0	3	78	106	44	67	59	57	37	24	23	13	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Mar 2016

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	128	361	577	694	782	844	766	665	486	245	152	2	0	0	0	0	0	238	844	0
2	0	0	0	0	0	0	0	90	365	540	709	843	878	759	631	513	340	114	3	0	0	0	0	0	241	878	0
3	0	0	0	0	0	0	1	44	276	501	763	774	672	681	660	539	270	87	2	0	0	0	0	0	220	774	0
4	0	0	0	0	0	0	0	94	380	606	780	868	901	855	708	517	303	88	4	0	0	0	0	0	254	901	0
5	0	0	0	0	0	0	0	96	387	634	620	774	722	655	587	353	198	58	3	0	0	0	0	0	212	774	0
6	0	0	0	0	0	0	0	56	134	346	641	786	871	520	341	346	298	118	5	0	0	0	0	0	186	871	0
7	0	0	0	0	0	0	2	96	283	555	743	806	863	725	689	510	198	117	9	0	0	0	0	0	233	863	0
8	0	0	0	0	0	0	2	171	354	440	641	788	889	872	770	583	362	130	5	0	0	0	0	0	250	889	0
9	0	0	0	0	0	0	2	167	396	620	791	890	914	870	755	589	374	133	4	0	0	0	0	0	271	914	0
10	0	0	0	0	0	0	6	177	412	635	805	898	925	878	764	598	380	141	3	0	0	0	0	0	276	925	0
11	0	0	0	0	0	0	6	179	381	574	652	614	672	702	554	465	249	121	4	0	0	0	0	0	215	702	0
12	0	0	0	0	0	0	4	148	412	632	801	899	924	882	767	597	379	145	5	0	0	0	0	0	275	924	0
13	0	0	--	0	0	0	7	185	416	620	814	882	933	885	770	600	348	122	7	0	0	0	0	0	286	933	0
14	0	0	0	0	0	0	5	175	400	620	788	887	915	899	765	595	375	145	6	0	0	0	0	0	274	915	0
15	0	0	0	0	0	0	9	184	427	654	828	922	942	888	753	558	353	118	9	0	0	0	0	0	277	942	0
16	0	0	0	0	0	0	12	201	439	665	813	918	938	898	787	615	394	157	5	0	0	0	0	0	285	938	0
17	0	0	0	0	0	0	14	203	441	662	828	929	951	908	794	620	401	161	5	0	0	0	0	0	288	951	0
18	0	0	0	0	0	0	16	208	446	668	840	937	959	915	796	625	406	165	6	0	0	0	0	0	291	959	0
19	0	0	0	0	0	0	18	210	449	667	832	929	952	903	785	612	400	164	6	0	0	0	0	0	289	952	0
20	0	0	0	0	0	0	19	199	453	667	846	884	912	910	784	613	399	162	6	0	0	0	0	0	286	912	0
21	0	0	0	0	0	0	27	211	475	579	856	921	768	809	793	593	378	179	8	0	0	0	0	0	275	921	0
22	0	0	0	0	0	0	12	234	475	697	856	945	963	889	756	617	405	173	15	0	0	0	0	0	293	963	0
23	0	0	0	0	0	0	28	257	510	730	887	986	1005	951	834	659	433	190	7	0	0	0	0	0	312	1005	0
24	0	0	0	0	0	0	34	258	504	718	878	971	990	939	819	644	423	186	9	0	0	0	0	0	307	990	0
25	0	0	0	0	0	0	34	247	491	705	869	964	987	939	818	644	422	186	12	0	0	0	0	0	305	987	0
26	0	0	0	0	0	0	28	249	491	705	868	964	985	937	819	648	425	188	12	0	0	0	0	0	305	985	0
27	0	0	0	0	0	0	41	265	508	716	872	963	985	934	819	643	419	185	15	0	0	0	0	0	307	985	0
28	0	0	0	0	0	0	10	309	515	714	870	925	850	644	416	261	348	128	14	0	0	0	0	0	250	925	0
29	0	0	0	0	0	0	5	15	53	113	153	166	163	467	332	297	315	195	30	0	0	0	0	0	96	467	0
30	0	0	0	0	0	0	15	242	460	543	475	427	567	743	532	379	259	183	14	0	0	0	0	0	202	743	0
31	0	0	0	0	0	0	54	283	525	711	480	582	798	799	643	635	454	199	19	0	0	0	0	0	258	799	0
Avg	0	0	0	0	0	0	13	180	407	607	751	833	859	820	700	547	353	148	8	0	0	0	0	0	260	--	--
Max	0	0	0	0	0	0	54	309	525	730	887	986	1005	951	834	659	454	199	30	0	0	0	0	0	--	1005	--
Min	0	0	0	0	0	0	0	15	53	113	153	166	163	467	332	261	198	58	2	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jan 2016

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	42	46	52	55	57	60	61	59	55	51	48	45	43	42	42	45	52	57	59	61	62	62	65	53	65	42
2	67	67	67	66	67	68	69	68	62	58	55	51	46	43	42	42	43	48	50	51	53	55	57	61	57	69	42
3	62	65	66	67	73	75	72	70	64	60	56	50	47	43	39	38	40	42	42	42	43	48	49	49	54	75	38
4	50	54	54	56	58	59	59	63	64	62	60	58	65	83	93	87	83	82	82	82	84	84	88	92	71	93	50
5	95	95	96	97	98	98	99	100	100	100	100	100	97	94	94	93	94	97	96	97	98	99	100	99	97	100	93
6	94	92	93	95	93	95	99	100	99	98	96	91	87	82	74	76	76	79	82	82	87	88	86	84	89	100	74
7	84	85	89	92	95	97	97	93	92	91	95	98	99	99	99	99	100	100	100	100	100	100	100	100	96	100	84
8	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	100	100	98	95	95	95	97	98	87	77	70	66	60	61	62	66	71	74	80	83	92	92	93	91	84	100	60
10	89	89	86	86	86	87	90	90	85	72	70	70	63	59	64	69	76	76	80	81	78	84	86	84	79	90	59
11	84	85	80	65	55	55	58	58	52	50	44	37	34	32	31	31	34	41	46	53	42	41	44	43	50	85	31
12	48	46	46	47	46	47	52	49	38	33	34	30	24	23	24	27	25	29	30	35	37	37	38	40	37	52	23
13	42	45	43	42	42	41	45	46	40	34	31	31	29	26	33	32	32	38	44	46	50	51	50	50	40	51	26
14	50	53	46	49	47	44	47	48	42	37	34	27	28	28	26	21	26	36	43	50	51	53	46	41	41	53	21
15	43	44	43	49	51	53	54	55	51	45	45	46	42	40	42	44	62	61	61	62	73	75	72	64	53	75	40
16	73	68	70	75	83	82	82	81	72	59	48	42	43	45	47	49	51	55	58	58	60	61	61	56	62	83	42
17	54	57	61	61	62	56	54	60	48	37	32	28	26	37	36	36	39	43	43	45	39	30	32	34	44	62	26
18	37	37	40	42	46	46	45	44	39	36	28	23	22	22	20	20	22	21	25	34	39	32	33	32	33	46	20
19	40	44	45	46	49	49	51	50	43	35	29	26	24	28	29	34	34	38	40	44	45	39	36	45	39	51	24
20	40	43	50	49	50	51	52	56	48	38	34	35	37	37	37	39	43	49	52	55	59	61	58	64	47	64	34
21	67	68	61	42	32	25	25	23	20	21	21	18	16	14	13	12	14	17	18	19	19	20	20	21	26	68	12
22	21	22	22	22	22	22	22	21	20	20	19	18	17	17	16	17	19	21	20	18	17	17	19	20	20	22	16
23	21	21	21	21	21	21	22	22	22	21	21	18	13	12	12	12	15	18	23	29	27	27	26	28	20	29	12
24	20	22	23	24	25	30	32	35	38	39	42	40	37	38	39	39	39	39	40	41	44	50	53	43	36	53	20
25	49	48	48	48	51	52	56	54	46	41	36	33	32	32	32	31	33	37	39	40	46	30	29	27	40	56	27
26	30	30	29	29	29	30	31	30	30	28	26	24	20	19	--	--	12	12	12	12	14	15	17	19	23	31	12
27	18	17	18	22	24	23	24	27	27	24	24	21	19	18	16	14	16	21	24	29	26	26	27	27	22	29	14
28	26	33	32	32	28	27	29	30	23	23	22	20	18	15	15	19	19	24	30	32	30	27	23	23	25	33	15
29	23	28	29	31	33	33	34	35	31	26	20	15	17	19	22	23	23	27	28	30	31	31	29	28	27	35	15
30	26	23	21	25	29	31	31	31	27	25	21	20	17	18	19	21	23	25	28	30	30	31	30	31	25	31	17
31	33	32	32	32	31	33	35	35	33	32	31	30	27	27	29	28	28	25	30	34	38	44	52	67	34	67	25
Avg	53	53	53	54	54	54	56	56	52	48	45	42	40	41	42	42	43	46	48	51	52	52	52	53	49	--	--
Max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	--	100	--
Min	18	17	18	21	21	21	22	21	20	20	19	15	13	12	12	12	12	12	12	12	14	15	17	19	--	--	12

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Feb 2016

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	98	99	85	65	65	69	63	63	73	71	92	96	93	87	82	81	91	83	77	69	65	71	75	77	79	99	63
2	76	76	78	78	83	87	87	84	70	57	40	45	45	45	46	44	41	39	41	39	43	53	51	54	58	87	39
3	55	59	60	60	59	57	61	60	49	38	38	34	32	32	27	24	25	28	36	39	37	34	36	36	42	61	24
4	34	35	34	29	28	23	22	22	20	22	22	20	19	17	17	15	15	17	23	29	27	24	26	27	24	35	15
5	26	28	28	30	32	33	31	30	28	29	27	24	21	20	18	17	17	17	19	22	23	23	25	27	25	33	17
6	25	24	25	25	25	25	25	24	21	20	18	15	13	12	13	13	12	11	14	13	16	18	18	18	18	25	11
7	20	20	22	19	17	18	22	24	21	21	19	18	17	17	15	13	12	13	14	17	16	18	18	20	18	24	12
8	23	23	21	21	22	22	22	22	21	21	20	18	16	14	14	14	14	14	12	14	16	19	22	22	19	23	12
9	22	23	23	22	24	26	26	25	24	23	22	20	18	16	16	14	13	15	20	23	24	22	17	18	21	26	13
10	19	23	21	21	23	24	24	24	22	21	20	19	17	15	14	13	13	15	19	20	22	22	20	21	20	24	13
11	24	27	29	32	33	31	29	24	20	17	16	11	10	12	15	17	17	19	22	26	27	27	28	30	23	33	10
12	25	23	20	18	17	17	19	20	17	12	13	13	13	9	8	7	7	11	16	17	14	13	12	15	15	25	7
13	18	21	20	21	19	17	18	18	16	16	15	14	11	11	14	13	10	13	17	22	26	25	19	21	17	26	10
14	19	19	19	23	26	26	28	31	26	20	16	17	19	17	18	18	20	23	24	26	25	23	23	24	22	31	16
15	25	28	18	17	17	19	20	21	20	19	19	18	17	16	15	14	16	19	20	23	28	28	26	25	20	28	14
16	24	24	24	23	26	28	26	29	25	22	22	20	17	14	15	10	8	16	22	16	14	15	15	19	20	29	8
17	20	21	21	21	21	23	25	25	22	19	15	14	12	12	11	10	10	12	15	15	14	13	14	15	17	25	10
18	13	13	13	15	16	16	18	17	21	18	17	16	16	17	15	15	16	17	18	20	18	22	23	24	17	24	13
19	22	23	22	21	22	22	22	25	26	21	17	15	14	14	14	13	12	14	16	21	20	19	19	18	19	26	12
20	20	19	17	18	19	21	22	22	27	22	16	14	16	15	16	15	16	17	18	18	21	23	24	24	19	27	14
21	24	26	28	30	31	32	35	34	28	24	22	22	22	21	19	15	15	16	19	22	23	24	22	21	24	35	15
22	24	26	27	30	29	32	35	32	23	21	22	21	20	21	20	19	19	17	17	17	17	18	17	16	22	35	16
23	17	18	19	21	21	27	30	29	25	24	22	19	18	15	14	15	13	14	16	17	19	20	21	23	20	30	13
24	26	28	28	27	32	37	39	38	34	30	27	22	19	17	17	15	15	15	18	20	22	23	22	23	25	39	15
25	22	23	23	24	23	23	22	21	20	20	19	17	15	14	13	13	13	14	15	16	16	16	17	16	18	24	13
26	16	17	17	17	16	17	18	17	16	16	15	15	14	13	12	11	11	11	13	15	14	15	17	16	15	18	11
27	15	18	19	17	18	19	19	19	19	18	16	13	11	11	11	10	10	11	13	14	16	20	20	22	16	22	10
28	19	19	19	21	22	22	23	25	22	16	13	14	12	12	12	11	12	13	15	15	16	18	17	19	17	25	11
29	18	18	19	21	22	23	23	22	23	18	15	14	14	13	13	13	13	14	16	17	18	18	18	18	18	23	13
Avg	27	28	28	27	28	29	29	29	27	24	23	21	20	19	18	17	17	19	21	22	23	24	24	24	24	--	--
Max	98	99	85	78	83	87	87	84	73	71	92	96	93	87	82	81	91	83	77	69	65	71	75	77	--	99	--
Min	13	13	13	15	16	16	18	17	16	12	13	11	10	9	8	7	7	11	12	13	14	13	12	15	--	--	7

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Mar 2016

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	18	20	23	24	25	27	27	29	26	22	18	17	15	15	14	13	14	14	16	17	19	17	16	19	19	29	13
2	19	22	25	26	26	27	26	28	24	20	17	16	15	14	13	14	13	13	14	15	16	13	10	11	18	28	10
3	13	14	18	18	18	20	24	26	25	21	15	13	13	13	11	10	8	9	11	13	15	16	15	15	16	26	8
4	15	17	17	17	20	20	25	28	24	17	12	9	7	6	5	6	6	7	9	10	11	12	11	10	13	28	5
5	14	14	16	16	15	18	17	17	14	12	12	12	11	10	11	10	11	12	13	15	14	14	16	17	14	18	10
6	16	16	17	17	18	22	24	24	17	15	14	13	14	17	20	24	23	24	24	29	29	29	35	43	22	43	13
7	51	54	56	59	61	63	62	57	50	37	30	25	25	23	23	20	19	24	32	36	37	38	55	58	41	63	19
8	54	54	72	71	71	74	76	64	50	47	58	52	47	42	34	29	28	30	33	32	32	31	31	33	48	76	28
9	36	41	40	39	41	41	44	37	27	20	17	19	20	18	16	15	14	14	17	17	18	21	22	25	26	44	14
10	24	20	18	17	18	18	17	14	12	13	12	13	9	9	9	9	9	10	12	12	14	17	18	16	14	24	9
11	17	18	18	19	21	19	18	16	14	11	10	10	9	9	8	7	8	11	14	15	15	15	17	20	14	21	7
12	26	28	38	57	67	70	67	60	50	46	39	35	33	33	33	31	31	33	35	35	36	39	43	43	42	70	26
13	43	44	--	42	45	46	47	42	36	30	27	23	23	21	20	20	19	21	23	23	25	28	28	27	31	47	19
14	26	28	29	29	30	32	37	35	31	31	28	27	24	24	25	25	26	27	31	34	35	36	38	39	30	39	24
15	42	42	41	38	45	51	51	45	38	30	22	13	9	9	11	11	9	9	13	15	16	17	15	14	25	51	9
16	15	18	18	20	22	21	20	17	12	11	11	11	9	9	8	8	9	10	10	10	11	12	15	14	13	22	8
17	14	13	13	14	16	16	16	14	13	13	12	9	9	7	7	7	8	8	9	10	11	11	10	11	11	16	7
18	11	11	13	13	14	14	16	15	13	11	10	9	9	8	8	8	8	9	11	12	13	13	14	14	11	16	8
19	15	16	18	20	23	25	26	26	22	19	18	17	14	13	13	12	11	11	11	11	11	11	14	15	16	26	11
20	16	16	17	18	20	20	16	15	19	22	21	19	17	15	13	11	10	9	11	12	16	17	20	20	16	22	9
21	21	23	23	23	24	25	26	24	22	19	15	14	11	10	8	8	9	9	10	13	13	13	14	14	16	26	8
22	14	14	15	16	18	21	23	20	19	19	16	15	14	15	15	15	10	17	18	20	26	27	29	24	18	29	10
23	24	26	31	28	20	13	14	15	13	13	12	8	8	7	7	6	7	9	10	11	12	12	13	15	14	31	6
24	18	18	19	20	20	20	18	18	16	16	13	11	9	9	9	9	10	10	11	12	12	13	13	14	14	20	9
25	13	13	14	17	18	19	20	19	16	13	12	11	10	10	10	10	10	11	11	12	12	11	11	10	13	20	10
26	11	12	13	15	17	20	21	17	16	15	13	11	10	11	11	11	11	12	13	14	15	15	15	19	14	21	10
27	16	15	18	21	24	26	25	21	16	14	13	14	14	12	11	12	13	12	14	15	17	18	19	20	17	26	11
28	19	16	23	29	31	34	39	35	32	32	27	23	24	24	24	23	18	20	23	25	30	31	30	31	27	39	16
29	40	43	43	45	53	65	72	77	73	66	63	74	76	59	50	45	40	37	37	32	28	27	26	26	50	77	26
30	28	30	33	38	46	50	54	51	46	43	39	35	31	28	26	26	27	26	27	28	29	31	35	34	35	54	26
31	35	37	37	40	42	44	46	37	31	28	27	25	25	24	31	26	25	25	26	28	29	28	29	29	31	46	24
Avg	23	24	26	28	30	32	33	30	26	23	21	19	18	17	16	16	15	16	18	19	20	20	22	23	22	--	--
Max	54	54	72	71	71	74	76	77	73	66	63	74	76	59	50	45	40	37	37	36	37	39	55	58	--	77	--
Min	11	11	13	13	14	13	14	14	12	11	10	8	7	6	5	6	6	7	9	10	11	11	10	10	--	--	5

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jan 2016

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	0.036	0.012	0	0	0	0	0	0	0	0	0.012	0.06	0.036	0
5	0.016	0.004	0	0.004	0.056	0.036	0.052	0.04	0.096	0.004	0.04	0	0	0.004	0.004	0	0.012	0.012	0.032	0.134	0.236	0.193	0.111	0.044	1.13	0.236	0
6	0.004	0.189	0.072	0.032	0.122	0.181	0.016	0.016	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0.004	0.64	0.189	0
7	0.004	0.028	0.024	0.004	0.084	0.08	0.067	0.016	0.004	0.012	0.134	0.181	0.185	0.111	0.099	0.052	0.02	0	0.028	0.044	0.068	0.036	0.052	0.028	1.36	0.185	0
8	0	0.008	0	0	0.052	0.072	0.024	0.008	0.012	0.008	0.06	0.095	0.036	0.016	0.004	0.06	0.08	0.04	0.008	0	0	0	0	0	0.583	0.095	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	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
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	0.047	0.047	0.047	0
Total	0.024	0.229	0.096	0.04	0.314	0.369	0.159	0.08	0.112	0.024	0.234	0.28	0.221	0.167	0.119	0.112	0.112	0.052	0.068	0.178	0.304	0.229	0.163	0.135	3.82	--	--
Max	0.016	0.189	0.072	0.032	0.122	0.181	0.067	0.04	0.096	0.012	0.134	0.181	0.185	0.111	0.099	0.06	0.08	0.04	0.032	0.134	0.236	0.193	0.111	0.047	--	0.236	--
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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Feb 2016

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	0.39	0.016	0	0	0	0	0	0.004	0	0.008	0	0.04	0.04	0.028	0.012	0.012	0.004	0	0	0	0	0	0	0	0.554	0.39	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	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
Total	0.39	0.016	0	0	0	0	0	0.004	0	0.008	0	0.04	0.04	0.028	0.012	0.012	0.004	0	0	0	0	0	0	0	0.554	--	--
Max	0.39	0.016	0	0	0	0	0	0.004	0	0.008	0	0.04	0.04	0.028	0.012	0.012	0.004	0	0	0	0	0	0	0	--	0.39	--
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: Mar 2016

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	0.004	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.004	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	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	0.004	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	--	--
Max	0	0.004	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0.004	--
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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jan 2016

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	653	653	653	653	653	653	653	654	654	655	655	655	655	654	654	654	655	655	655	655	655	656	656	656	654	656	653
2	656	655	655	655	655	655	655	656	656	656	656	656	655	655	655	654	654	654	655	655	655	655	656	655	655	656	654
3	655	655	655	655	655	655	655	655	656	656	656	655	654	654	653	653	653	653	653	652	652	652	652	652	654	656	652
4	651	651	651	651	650	650	650	650	650	651	651	651	650	650	649	649	650	649	650	650	650	651	651	651	650	651	649
5	651	651	651	651	651	650	651	651	651	652	652	652	651	650	650	650	650	650	650	650	650	650	650	650	651	652	650
6	649	649	649	649	648	649	649	650	650	651	651	651	651	651	651	651	651	651	651	651	651	651	652	651	650	652	648
7	651	651	650	650	649	649	649	649	649	649	649	649	648	647	647	647	647	647	647	648	647	647	647	647	648	651	647
8	647	647	647	647	646	647	647	648	648	649	649	649	649	649	649	650	650	651	651	652	652	652	653	653	649	653	646
9	653	653	653	653	653	653	654	654	655	655	656	656	655	655	654	654	654	654	655	655	655	655	655	655	654	656	653
10	654	654	654	654	654	654	654	654	654	655	655	655	654	654	653	653	653	653	654	654	654	655	655	654	654	655	653
11	654	655	654	654	654	655	655	655	656	656	656	656	656	656	656	656	656	656	656	656	656	656	657	657	656	657	654
12	656	656	656	656	656	656	656	656	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	655	656	657	655
13	655	655	655	655	655	654	655	655	655	655	656	655	654	654	654	653	653	653	653	653	653	653	653	653	654	656	653
14	652	652	652	652	652	652	652	652	653	653	653	653	652	652	652	652	652	652	652	652	652	652	652	652	652	653	652
15	652	651	651	651	650	650	650	650	651	651	651	651	650	650	650	650	650	651	651	652	652	652	652	653	651	653	650
16	653	653	653	654	654	654	654	654	655	655	655	655	654	654	654	654	654	654	654	654	654	655	655	655	654	655	653
17	655	655	655	655	655	655	655	656	656	656	657	657	656	656	656	656	656	656	656	656	656	656	656	656	656	657	655
18	656	656	656	656	656	656	656	656	657	657	657	657	656	655	655	655	655	655	655	655	655	655	655	655	656	657	655
19	655	655	655	655	655	655	655	656	656	656	657	657	656	655	655	655	655	655	656	656	656	656	656	655	655	657	655
20	656	656	655	655	655	655	655	655	656	656	656	656	655	655	655	654	654	655	655	655	656	656	656	657	655	657	654
21	657	657	657	657	657	657	657	657	658	658	659	659	658	658	657	657	657	657	657	658	657	657	658	657	657	659	657
22	657	657	657	657	657	657	657	657	657	657	658	657	657	656	655	655	655	655	655	655	655	655	655	655	656	658	655
23	655	654	654	654	654	654	654	654	654	654	654	654	653	652	652	651	651	651	651	651	651	651	651	651	653	655	651
24	651	650	650	650	650	650	650	651	651	652	652	652	652	651	651	651	651	651	652	652	652	652	652	652	651	652	650
25	652	652	652	652	652	652	652	652	653	653	653	653	653	652	652	652	652	652	653	653	653	654	654	654	653	654	652
26	655	654	654	654	654	654	655	655	656	656	657	657	657	656	--	--	656	656	656	656	657	657	657	657	656	657	654
27	657	657	657	657	658	658	658	658	658	659	659	659	658	658	657	657	657	657	657	657	657	657	657	657	658	659	657
28	657	657	657	657	657	657	657	657	657	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	656	657	655
29	655	655	654	654	654	654	654	654	654	654	655	654	654	653	653	653	653	653	653	653	653	652	653	653	654	655	652
30	652	652	652	652	652	652	652	652	652	652	653	652	652	651	651	651	651	651	650	651	651	651	651	652	651	653	650
31	652	651	651	651	651	651	651	651	651	651	651	651	650	649	648	647	646	646	646	645	645	644	644	643	649	652	643
Avg	654	654	653	653	653	653	653	654	654	654	655	654	654	653	653	653	653	653	653	653	653	653	654	654	653	--	--
Max	657	657	657	657	658	658	658	658	658	659	659	659	658	658	657	657	657	657	657	658	657	657	658	657	--	659	--
Min	647	647	647	647	646	647	647	648	648	649	649	649	648	647	647	647	646	646	646	645	645	644	644	643	--	--	643

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Feb 2016

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	642	643	644	644	644	644	644	644	645	646	646	646	646	646	647	647	648	648	649	649	649	649	650	650	646	650	642
2	650	650	649	649	649	650	650	651	651	652	652	652	652	652	652	652	652	652	653	653	653	654	654	654	652	654	649
3	654	654	654	654	654	655	655	656	656	657	657	658	657	657	657	657	657	657	658	658	658	658	658	658	656	658	654
4	658	658	658	658	658	658	658	658	659	658	659	658	658	657	657	656	656	656	656	657	657	657	657	657	658	659	656
5	657	657	656	657	657	657	657	657	658	658	658	658	658	658	658	658	658	658	658	658	659	659	659	660	658	660	656
6	660	660	660	660	659	659	659	660	660	660	660	660	659	658	657	657	657	657	657	657	657	657	657	657	659	660	657
7	657	657	657	657	657	657	657	657	657	657	658	658	657	656	656	656	656	656	656	657	657	657	657	657	657	658	656
8	657	657	657	657	657	657	658	658	658	658	659	658	658	657	657	657	657	657	657	657	657	657	658	657	657	659	657
9	658	657	657	657	657	658	658	658	658	659	659	658	658	657	657	657	657	657	657	657	657	658	658	658	658	659	657
10	658	658	658	658	658	658	658	658	659	659	659	659	659	658	658	657	657	657	657	657	657	657	657	657	658	659	657
11	657	657	657	657	657	657	657	657	658	658	658	658	657	657	657	657	657	657	657	657	657	657	657	657	657	658	657
12	657	657	657	657	657	657	657	657	658	658	658	658	657	657	656	656	656	656	656	656	656	656	656	656	657	658	656
13	656	656	656	656	656	656	656	656	656	656	656	656	655	655	654	654	654	654	654	654	654	654	654	654	655	656	654
14	654	653	653	653	653	653	653	653	653	654	654	654	653	653	653	653	652	652	652	653	653	653	653	653	653	654	652
15	653	653	653	653	653	653	653	653	654	654	654	654	653	653	652	652	652	652	652	653	653	653	653	653	653	654	652
16	653	653	653	653	653	653	653	653	653	654	654	654	653	653	652	652	652	652	652	652	652	652	652	653	653	654	652
17	653	652	652	652	652	652	653	653	653	654	654	654	653	652	652	651	651	651	651	651	651	651	651	652	652	654	651
18	652	652	652	651	651	652	652	653	653	654	654	654	653	652	652	652	652	653	653	653	654	654	654	654	653	654	651
19	654	654	653	653	653	654	654	654	655	655	655	656	655	655	654	654	654	654	654	654	655	655	655	655	654	656	653
20	655	654	654	654	654	654	654	654	655	655	655	655	655	654	654	653	653	653	653	654	654	654	654	654	654	655	653
21	654	653	653	653	653	653	653	653	654	654	654	654	654	653	653	652	652	653	653	653	653	653	653	652	653	654	652
22	652	652	651	651	651	650	650	650	651	651	651	651	650	650	649	649	649	649	649	649	649	650	650	650	650	652	649
23	651	651	651	651	651	652	652	652	653	653	653	653	653	653	652	653	653	653	654	654	655	655	655	655	653	655	651
24	655	655	655	655	655	655	656	656	656	656	656	656	656	655	655	655	654	654	654	655	655	655	655	655	655	656	654
25	654	654	654	654	654	654	655	655	656	656	656	656	656	655	655	655	655	655	655	655	655	656	656	656	655	656	654
26	656	656	656	656	656	656	656	656	657	657	657	657	656	656	655	655	655	655	655	655	655	655	655	655	656	657	655
27	655	655	655	654	654	654	654	654	655	655	655	655	654	653	653	653	653	652	652	653	653	653	653	653	654	655	652
28	653	653	653	653	653	653	653	653	654	655	655	654	654	654	653	653	653	653	653	654	654	654	654	654	654	655	653
29	654	654	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
Avg	654	654	654	654	654	654	654	655	655	655	655	655	655	654	654	654	654	654	654	654	655	655	655	655	655	--	--
Max	660	660	660	660	659	659	659	660	660	660	660	660	659	658	658	658	658	658	658	658	659	659	659	660	--	660	--
Min	642	643	644	644	644	644	644	644	645	646	646	646	646	646	647	647	648	648	649	649	649	649	650	650	--	--	642

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Mar 2016

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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jan 2016

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	1.7	2.3	3.9	3.0	2.9	3.4	4.4	4.1	4.1	5.1	5.6	5.7	4.2	4.7	4.2	4.3	3.8	4.6	7.2	7.4	8.5	8.6	7.9	9.0	5.0	9.0	1.7
2	9.4	9.4	8.9	8.7	9.4	11.1	9.2	10.3	10.4	9.2	8.4	7.8	7.3	6.4	6.4	5.7	3.5	4.0	5.0	5.2	4.0	5.2	5.2	3.4	7.2	11.1	3.4
3	2.5	3.7	4.6	7.4	8.9	9.8	9.9	8.8	9.2	8.1	8.0	7.7	6.9	6.5	7.0	5.0	4.7	6.3	5.5	6.2	4.4	6.0	6.9	4.3	6.6	9.9	2.5
4	7.1	7.8	6.0	5.7	6.6	9.1	12.1	11.8	10.3	10.7	7.0	4.1	3.1	2.7	1.9	8.0	5.4	4.0	5.1	4.9	4.3	5.1	5.7	4.4	6.4	12.1	1.9
5	4.7	4.6	3.3	4.6	3.3	2.6	3.3	3.2	4.1	3.8	3.2	3.5	3.6	3.6	4.3	3.8	3.6	3.1	1.9	0.6	1.6	2.6	0.8	2.2	3.2	4.7	0.6
6	1.7	2.0	0.8	1.7	2.0	4.8	1.6	1.2	2.2	2.9	4.4	5.1	3.8	5.1	5.5	4.4	2.9	1.7	0.9	1.5	2.5	2.8	0.8	1.4	2.6	5.5	0.8
7	1.7	1.7	2.2	1.2	1.1	1.0	2.1	2.3	3.7	3.6	3.4	2.9	4.5	2.5	3.5	3.3	5.6	5.3	2.6	2.8	2.1	1.6	1.3	0.7	2.6	5.6	0.7
8	1.0	1.3	0.9	1.4	2.6	2.2	1.4	1.6	2.0	2.8	3.1	1.6	1.4	1.7	1.1	2.1	1.1	0.7	1.0	0.8	0.3	1.1	1.0	1.1	1.5	3.1	0.3
9	0.8	1.2	0.5	1.2	0.4	0.7	0.6	1.5	2.7	1.6	1.3	1.9	2.3	2.5	1.7	2.1	2.5	2.6	1.0	0.5	1.6	0.5	1.9	2.2	1.5	2.7	0.4
10	1.6	1.3	2.1	3.7	1.4	1.3	4.5	3.4	1.9	1.7	1.3	1.7	1.3	1.4	2.6	2.4	0.9	1.6	1.0	0.4	1.2	0.6	0.5	0.7	1.7	4.5	0.4
11	0.7	0.6	0.8	1.9	3.7	6.6	5.4	2.7	1.7	2.1	3.3	3.2	2.4	2.1	2.2	2.0	2.3	2.2	0.8	3.0	3.0	2.8	5.8	1.9	2.6	6.6	0.6
12	1.4	1.2	1.3	1.3	1.3	1.3	1.0	2.0	4.7	3.3	4.0	7.0	4.7	5.2	2.9	3.4	6.2	4.5	2.0	1.0	5.9	2.9	2.5	2.6	3.1	7.0	1.0
13	1.6	2.0	2.2	1.5	1.3	1.3	1.9	1.4	1.6	2.3	2.3	3.3	3.0	2.9	3.1	1.2	1.5	1.5	1.5	1.3	1.4	1.0	0.4	1.4	1.8	3.3	0.4
14	1.9	1.6	0.8	0.6	0.5	0.7	0.3	0.8	0.8	1.2	0.8	1.1	2.3	2.9	2.9	2.7	3.0	1.9	1.0	1.7	2.0	0.6	0.7	0.8	1.4	3.0	0.3
15	0.6	1.6	0.8	1.7	1.8	2.5	2.0	0.9	0.9	1.1	1.4	1.5	2.6	2.6	3.2	4.3	3.0	0.8	2.2	1.0	1.4	2.3	1.8	1.2	1.8	4.3	0.6
16	0.7	0.9	1.4	1.8	3.7	1.8	1.1	2.0	2.1	1.3	1.3	2.0	1.6	3.7	2.7	2.2	2.0	1.5	1.6	1.0	0.7	1.0	1.3	1.1	1.7	3.7	0.7
17	0.9	0.8	1.7	1.1	0.5	0.3	0.5	0.4	0.3	0.5	0.7	1.1	2.3	2.5	2.5	2.2	2.1	1.9	1.1	0.6	0.6	0.5	2.3	1.8	1.2	2.5	0.3
18	3.8	5.0	5.4	3.4	1.6	2.8	4.8	3.4	5.2	3.4	2.7	3.3	3.4	2.3	1.6	2.5	1.5	1.3	1.1	1.1	0.9	0.9	1.2	1.0	2.6	5.4	0.9
19	1.0	1.7	1.3	1.1	0.6	1.8	3.3	1.1	3.3	1.9	2.1	2.7	2.0	2.5	3.9	2.9	1.8	1.4	0.6	1.2	0.7	2.4	2.0	3.1	1.9	3.9	0.6
20	2.3	1.2	1.3	0.7	0.6	1.8	2.0	1.9	1.4	0.7	1.1	1.6	3.1	3.1	3.6	4.0	5.0	3.9	1.3	0.6	0.7	0.6	1.4	0.8	1.9	5.0	0.6
21	0.6	4.1	3.6	1.4	2.0	1.9	2.8	3.2	2.7	3.2	4.6	3.2	2.4	3.3	3.1	3.3	3.0	1.7	5.0	2.3	5.3	5.0	2.8	6.5	3.2	6.5	0.6
22	4.7	2.8	2.9	2.5	2.5	3.1	3.3	3.1	4.7	4.8	5.0	4.0	3.3	2.7	3.3	3.0	3.0	3.8	4.6	3.9	3.8	4.3	2.9	4.3	3.6	5.0	2.5
23	5.3	4.1	3.3	3.0	3.1	4.3	4.5	3.6	3.7	3.2	2.9	2.8	4.8	2.8	2.2	2.2	1.9	1.8	1.4	1.9	1.2	0.8	0.7	1.6	2.8	5.3	0.7
24	1.3	0.6	1.5	0.8	0.7	0.9	0.4	0.7	0.7	2.0	2.3	2.3	3.6	4.7	4.8	4.0	3.7	2.7	1.1	0.8	1.2	1.1	1.4	0.8	1.8	4.8	0.4
25	1.2	0.9	1.1	1.3	0.9	1.0	3.6	4.0	2.7	0.9	1.8	1.7	2.1	--	--	--	3.3	2.9	0.9	0.8	1.7	4.2	8.7	11.0	2.7	11.0	0.8
26	8.8	2.9	4.6	3.4	4.4	6.8	7.1	12.5	12.1	7.8	7.1	4.8	3.1	3.1	4.3	3.3	3.6	5.8	8.6	9.2	4.3	2.8	3.3	5.7	5.8	12.5	2.8
27	2.3	2.1	1.1	1.0	4.9	3.4	6.3	5.5	3.7	3.3	2.7	7.3	6.2	5.2	--	--	--	2.1	0.7	1.7	1.9	1.3	1.5	1.4	3.1	7.3	0.7
28	0.8	0.6	1.1	1.0	1.4	1.2	1.6	1.5	2.6	6.0	2.1	3.5	3.8	2.1	2.5	2.0	1.6	2.0	0.8	1.9	0.7	3.6	1.6	1.5	2.0	6.0	0.6
29	1.2	2.6	1.5	1.9	4.0	2.9	4.2	2.9	2.1	2.0	0.7	1.0	2.1	3.2	2.8	2.6	1.9	0.8	1.1	1.9	0.6	0.6	2.6	2.7	2.1	4.2	0.6
30	1.5	1.8	0.8	0.8	0.8	0.5	0.5	1.0	1.9	2.8	1.8	3.1	4.2	4.4	4.9	4.2	2.6	1.3	0.5	0.6	1.0	0.8	0.6	1.1	1.8	4.9	0.5
31	0.9	1.1	1.1	1.2	1.6	1.1	1.5	2.2	1.5	1.4	3.0	3.1	3.5	3.9	2.6	3.3	2.2	6.3	7.1	6.7	8.1	8.6	10.8	9.6	3.9	10.8	0.9
Avg	2.4	2.4	2.3	2.3	2.6	3.0	3.5	3.4	3.6	3.4	3.2	3.4	3.4	3.4	3.4	3.3	3.0	2.8	2.5	2.4	2.5	2.7	2.9	2.9	2.9	--	--
Max	9.4	9.4	8.9	8.7	9.4	11.1	12.1	12.5	12.1	10.7	8.4	7.8	7.3	6.5	7.0	8.0	6.2	6.3	8.6	9.2	8.5	8.6	10.8	11.0	--	12.5	--
Min	0.6	0.6	0.5	0.6	0.4	0.3	0.3	0.4	0.3	0.5	0.7	1.0	1.3	1.4	1.1	1.2	0.9	0.7	0.5	0.4	0.3	0.5	0.4	0.7	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Feb 2016

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	9.0	6.2	6.6	5.5	4.4	2.7	4.3	5.2	6.1	5.9	3.5	1.8	2.9	2.1	2.5	3.2	2.3	0.9	1.0	0.4	1.0	1.8	0.4	1.0	3.4	9.0	0.4
2	0.5	0.7	0.9	0.8	1.3	1.4	0.5	1.0	0.6	1.1	1.4	2.4	3.9	3.6	3.3	3.4	3.1	2.9	1.0	1.1	1.2	0.9	1.6	2.3	1.7	3.9	0.5
3	2.2	3.9	2.4	3.6	3.7	4.2	3.5	1.8	2.2	2.2	5.7	5.4	1.7	2.9	2.9	2.7	2.7	2.5	1.0	1.3	1.2	5.5	4.1	3.1	3.0	5.7	1.0
4	2.6	2.4	6.9	5.6	5.4	3.4	2.7	2.1	4.6	6.9	4.8	5.0	6.2	5.3	5.7	2.7	3.3	4.3	3.1	1.6	0.9	6.2	9.3	7.7	4.5	9.3	0.9
5	4.9	6.1	7.3	12.8	13.0	12.0	8.0	8.9	13.2	12.8	9.4	9.1	6.2	2.6	3.6	2.7	2.4	1.7	2.4	4.4	5.4	4.0	1.8	3.2	6.6	13.2	1.7
6	3.2	6.4	7.3	8.1	10.3	7.2	8.4	8.2	4.7	6.8	5.6	5.9	6.8	2.9	2.1	3.5	4.3	2.7	2.8	2.6	5.0	2.7	2.2	2.8	5.1	10.3	2.1
7	2.7	3.6	3.6	2.7	3.0	2.6	2.9	2.9	2.6	3.0	5.1	9.8	5.4	6.2	4.0	3.3	2.8	2.3	2.9	5.4	3.6	7.8	7.2	5.5	4.2	9.8	2.3
8	3.1	6.7	4.8	3.6	3.6	4.5	2.7	3.3	5.3	10.1	11.5	12.2	12.2	11.9	8.4	4.0	2.2	2.6	3.2	7.4	6.7	9.7	8.1	3.3	6.3	12.2	2.2
9	4.6	10.0	8.6	7.5	8.2	11.5	12.1	11.6	10.8	12.7	11.5	6.6	2.6	6.3	4.6	3.7	2.3	2.6	3.3	2.8	3.9	4.5	1.4	3.9	6.6	12.7	1.4
10	4.6	5.0	1.5	3.3	8.1	8.1	8.0	5.1	2.8	5.3	5.1	5.2	6.1	3.8	2.4	3.4	3.0	1.6	1.4	2.2	1.3	3.2	1.3	1.3	3.9	8.1	1.3
11	1.2	2.7	3.2	1.4	1.8	1.0	1.2	4.4	4.7	4.1	--	1.6	1.6	3.1	3.5	2.5	2.4	2.5	1.2	1.6	1.1	0.5	0.9	1.3	2.1	4.7	0.5
12	1.2	4.9	5.9	5.3	7.0	6.6	4.2	2.4	2.0	2.6	3.6	2.6	2.9	3.2	2.1	3.2	2.4	1.7	2.0	3.0	3.0	2.2	3.1	0.8	3.3	7.0	0.8
13	1.5	1.4	2.1	3.9	4.3	3.9	3.2	4.2	3.4	3.4	2.7	2.5	2.3	3.6	2.6	2.2	3.0	2.8	1.3	0.9	1.5	1.3	1.0	0.6	2.5	4.3	0.6
14	0.4	1.9	0.6	0.9	0.5	0.9	2.3	1.9	3.1	1.1	0.9	2.4	2.1	1.7	4.8	3.8	3.6	2.4	1.2	0.8	0.6	0.7	1.3	2.4	1.8	4.8	0.4
15	1.8	0.9	1.8	1.8	2.6	3.0	4.0	4.7	9.3	9.1	10.2	6.3	4.4	2.5	2.7	3.3	3.4	2.7	0.6	0.7	1.8	1.1	1.9	2.4	3.5	10.2	0.6
16	1.2	1.9	1.1	1.1	2.1	2.2	1.4	1.1	1.3	2.5	2.9	4.0	2.8	1.9	2.4	2.3	2.5	2.5	1.5	3.1	2.1	1.7	2.4	4.0	2.2	4.0	1.1
17	3.6	2.8	3.2	2.6	2.7	2.1	3.2	5.6	3.7	3.6	3.3	2.4	3.2	3.4	3.1	3.5	3.0	2.7	0.7	1.2	1.4	1.2	1.0	1.1	2.7	5.6	0.7
18	1.9	1.9	1.1	1.2	0.8	1.7	1.0	1.0	2.0	1.0	3.8	2.7	1.9	4.8	3.4	4.1	3.9	1.6	1.0	1.2	0.8	1.3	0.9	1.8	1.9	4.8	0.8
19	1.9	1.8	2.0	1.7	1.9	1.4	1.9	2.6	1.9	2.0	1.9	2.1	2.7	2.1	1.6	2.3	2.3	2.2	1.2	2.2	1.5	0.9	0.8	0.6	1.8	2.7	0.6
20	0.5	1.0	1.1	0.3	0.6	1.2	1.2	0.8	1.0	1.4	0.9	1.9	2.7	2.2	2.8	3.0	3.7	3.1	1.1	0.3	1.1	0.7	1.7	0.5	1.5	3.7	0.3
21	0.4	0.9	1.0	1.0	1.9	0.9	1.4	1.6	0.5	0.8	1.4	3.0	2.6	2.0	2.3	3.6	3.8	3.6	1.6	1.1	1.5	0.3	1.0	0.5	1.6	3.8	0.3
22	0.4	1.0	0.6	1.0	2.0	0.8	1.6	1.8	0.8	0.8	2.0	2.9	4.7	4.6	4.8	6.4	5.6	5.3	4.0	1.2	1.0	1.5	0.8	1.9	2.4	6.4	0.4
23	2.4	2.7	2.1	2.2	0.8	3.2	6.2	5.9	6.6	6.3	2.8	2.3	3.8	3.3	3.7	2.5	3.1	3.4	1.9	2.8	3.6	6.3	9.2	6.0	3.9	9.2	0.8
24	3.1	2.8	5.2	5.4	9.4	13.2	10.5	5.8	2.8	3.3	3.9	3.9	2.0	2.4	2.4	2.1	3.0	4.0	4.0	4.1	4.3	1.4	2.9	2.0	4.3	13.2	1.4
25	6.2	6.5	4.2	4.2	3.2	4.3	2.5	1.2	1.8	3.4	4.2	3.1	1.9	1.3	1.9	1.7	1.6	2.4	3.4	2.0	1.3	1.9	1.4	4.2	2.9	6.5	1.2
26	1.9	2.0	2.3	2.2	2.4	2.0	2.4	2.1	2.0	3.1	3.7	3.4	2.9	1.8	2.1	2.1	3.0	2.0	3.6	2.6	3.0	3.2	1.2	3.1	2.5	3.7	1.2
27	2.9	3.4	2.5	3.2	2.4	4.7	4.6	3.8	3.8	3.2	2.3	2.0	2.4	2.4	3.7	3.5	3.5	3.4	1.5	0.6	0.6	0.3	0.7	0.8	2.6	4.7	0.3
28	0.5	0.8	1.0	0.6	0.5	2.8	1.7	1.5	0.7	0.7	1.3	1.7	2.5	3.4	3.4	3.4	3.4	3.3	1.8	0.5	0.6	0.6	0.5	1.0	1.6	3.4	0.5
29	0.4	0.3	0.5	0.8	0.5	0.6	1.0	0.7	0.4	0.9	1.1	1.7	2.1	2.6	3.2	3.6	4.1	3.6	2.0	1.2	0.7	0.6	1.0	0.8	1.4	4.1	0.3
Avg	2.4	3.2	3.1	3.2	3.7	3.9	3.7	3.6	3.6	4.1	4.2	4.0	3.6	3.4	3.3	3.2	3.1	2.7	2.0	2.1	2.1	2.6	2.5	2.4	3.2	--	--
Max	9.0	10.0	8.6	12.8	13.0	13.2	12.1	11.6	13.2	12.8	11.5	12.2	12.2	11.9	8.4	6.4	5.6	5.3	4.0	7.4	6.7	9.7	9.3	7.7	--	13.2	--
Min	0.4	0.3	0.5	0.3	0.5	0.6	0.5	0.7	0.4	0.7	0.9	1.6	1.6	1.3	1.6	1.7	1.6	0.9	0.6	0.3	0.6	0.3	0.4	0.5	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Mar 2016

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	0.3	0.4	0.4	0.7	3.7	1.0	0.9	2.1	1.1	1.3	1.7	1.8	3.2	3.1	3.1	3.6	3.6	1.5	0.8	0.8	0.5	0.4	0.6	1.6	3.7	0.3
2	0.5	0.5	1.5	1.1	1.8	0.7	1.5	2.0	1.3	0.9	0.8	2.4	4.0	4.1	4.2	4.2	4.3	4.1	1.7	0.4	0.5	0.6	0.7	0.7	1.9	4.3	0.4
3	0.8	1.0	0.8	1.6	2.1	1.7	1.6	5.4	5.2	3.1	2.4	2.0	4.0	2.0	1.8	2.1	2.7	2.7	1.2	1.8	1.3	2.7	2.2	1.1	2.2	5.4	0.8
4	1.4	0.8	0.7	1.4	2.3	1.5	1.4	4.1	5.4	4.1	2.7	2.9	3.9	3.5	2.2	4.1	4.0	2.7	1.8	1.4	1.7	1.1	0.8	1.4	2.4	5.4	0.7
5	0.6	1.3	0.9	1.6	2.1	1.9	2.4	1.1	3.1	2.1	3.7	3.0	3.9	3.0	3.7	3.5	3.2	1.5	1.3	0.4	0.9	0.5	1.5	0.6	2.0	3.9	0.4
6	0.5	0.6	0.5	0.8	0.7	1.0	1.3	1.6	1.1	1.9	3.5	3.9	4.9	4.6	4.9	4.5	4.0	4.8	3.6	0.9	0.4	2.3	3.0	2.7	2.4	4.9	0.4
7	2.1	1.7	1.5	1.2	0.5	0.5	1.1	0.6	1.4	1.7	2.4	4.1	4.8	4.6	4.6	4.7	3.4	4.6	4.9	2.2	1.1	1.7	3.9	2.2	2.6	4.9	0.5
8	1.0	2.3	1.1	1.1	1.7	1.5	1.2	0.8	0.7	1.2	2.5	3.0	4.0	4.3	4.6	3.7	3.7	4.0	3.0	0.9	0.9	0.5	0.8	0.6	2.0	4.6	0.5
9	1.5	1.1	1.1	0.9	0.3	2.8	3.7	0.8	0.9	1.4	1.4	2.2	4.3	3.7	4.3	4.4	4.4	4.5	2.0	1.0	0.8	1.4	1.6	1.0	2.2	4.5	0.3
10	1.4	0.8	1.0	0.9	2.7	2.4	1.3	1.1	2.6	2.9	4.6	3.2	2.0	3.0	2.9	3.1	2.8	3.8	1.9	0.8	0.7	3.6	2.7	3.2	2.3	4.6	0.7
11	2.0	4.2	2.8	4.1	5.5	2.5	3.3	2.7	3.0	4.4	4.3	5.9	5.1	3.4	4.3	4.4	3.8	4.9	2.7	0.7	0.6	1.0	0.8	0.8	3.2	5.9	0.6
12	1.8	1.6	4.3	1.5	2.0	3.5	3.1	2.4	3.6	4.4	4.0	4.4	4.2	5.1	4.8	4.6	4.2	4.8	3.9	2.3	1.0	1.0	1.2	1.8	3.2	5.1	1.0
13	1.6	1.0	--	0.4	0.6	3.7	4.8	5.8	2.9	1.8	1.6	2.3	3.1	3.6	3.8	3.7	4.2	3.8	2.5	0.9	0.3	1.0	0.6	0.2	2.4	5.8	0.2
14	0.9	0.9	0.8	0.4	0.8	0.6	0.8	1.4	1.4	1.3	2.0	3.0	3.6	3.1	3.3	4.4	4.3	3.9	3.1	1.3	0.8	0.6	0.8	0.9	1.8	4.4	0.4
15	1.5	1.0	1.0	0.4	0.7	0.7	1.6	2.4	1.3	2.0	4.0	3.0	3.0	2.8	2.6	2.7	3.9	3.9	2.6	1.0	1.0	1.0	0.5	0.5	1.9	4.0	0.4
16	0.8	1.7	0.8	1.1	2.3	2.0	2.0	1.4	1.0	3.4	3.3	2.8	2.5	2.6	3.0	3.4	4.0	3.8	2.5	1.2	0.8	0.5	1.2	1.2	2.1	4.0	0.5
17	0.6	0.7	1.3	1.0	3.1	2.1	2.9	2.5	1.5	1.7	1.8	2.3	2.7	3.8	3.4	4.0	4.1	4.4	2.5	0.8	0.4	0.6	0.7	0.4	2.1	4.4	0.4
18	0.7	0.4	0.4	0.5	1.0	0.8	2.4	1.2	0.4	1.0	1.6	2.5	3.2	3.9	3.8	4.0	4.6	4.9	2.8	0.6	0.4	0.5	0.8	0.4	1.8	4.9	0.4
19	0.7	0.7	0.7	0.3	0.4	1.5	1.8	1.9	1.6	1.3	1.8	2.2	3.4	3.7	3.9	3.9	4.3	3.9	2.1	0.5	0.8	0.8	0.6	1.5	1.8	4.3	0.3
20	1.0	1.0	1.1	0.9	2.0	1.1	1.8	4.8	4.5	2.7	4.0	5.3	3.7	1.9	1.8	2.6	2.5	1.6	1.3	1.1	0.9	1.5	4.2	4.5	2.4	5.3	0.9
21	3.9	5.0	5.1	5.3	4.8	4.6	3.5	3.1	2.1	3.4	2.8	1.7	2.4	3.4	4.3	4.8	4.9	3.6	2.2	1.1	0.5	0.3	0.5	0.8	3.1	5.3	0.3
22	0.7	1.0	0.8	0.9	1.0	0.6	0.8	1.0	3.1	5.6	6.5	6.7	6.7	7.4	7.9	8.4	8.7	7.7	6.4	4.3	3.5	3.3	3.2	0.6	4.0	8.7	0.6
23	1.2	1.3	1.0	1.1	0.7	0.9	0.8	1.3	1.3	1.3	3.5	4.3	5.9	4.9	3.7	2.8	4.6	4.8	3.2	1.4	0.7	0.9	1.6	0.6	2.3	5.9	0.6
24	1.9	1.8	1.7	1.3	2.4	2.7	1.8	2.7	4.3	6.9	4.0	2.9	2.8	2.5	4.2	3.7	4.8	4.4	3.1	0.7	0.6	0.6	0.5	0.7	2.6	6.9	0.5
25	0.5	0.5	0.7	1.0	1.0	2.1	1.3	0.8	1.1	1.4	2.1	3.6	3.8	4.4	4.6	4.9	5.9	5.2	3.0	1.7	1.5	2.1	1.3	1.3	2.3	5.9	0.5
26	1.1	1.0	1.4	1.2	0.8	2.0	1.9	2.7	1.5	2.0	3.2	4.0	5.2	5.2	6.0	6.0	5.3	4.4	3.2	1.7	1.3	1.0	0.7	1.0	2.7	6.0	0.7
27	4.0	3.7	3.5	4.8	5.6	5.6	5.3	4.8	2.6	2.8	2.4	2.4	2.4	3.5	3.3	4.4	5.1	3.9	1.8	0.7	0.5	0.6	1.2	0.5	3.1	5.6	0.5
28	0.8	1.0	1.4	1.2	1.1	0.9	1.8	2.4	3.9	4.4	5.4	6.1	5.8	6.9	7.0	6.8	7.4	6.5	7.0	6.2	4.8	3.6	3.8	2.3	4.1	7.4	0.8
29	1.6	1.0	2.3	2.9	2.6	3.2	4.2	5.1	6.1	6.1	6.1	4.4	4.3	2.1	3.1	4.7	4.2	2.4	3.8	2.5	0.6	0.7	0.4	0.7	3.1	6.1	0.4
30	0.8	0.2	1.3	2.6	1.8	1.0	1.3	1.1	1.5	1.7	2.1	3.0	3.4	2.8	4.1	3.9	3.3	3.4	1.4	1.8	0.6	1.0	0.6	0.4	1.9	4.1	0.2
31	0.6	1.1	0.5	1.6	2.0	1.7	3.3	1.5	0.8	2.0	3.4	3.1	2.8	2.9	4.1	2.7	3.3	3.8	3.2	1.4	0.7	1.0	0.3	0.7	2.0	4.1	0.3
Avg	1.3	1.3	1.4	1.5	1.8	2.0	2.2	2.3	2.4	2.6	3.1	3.4	3.8	3.7	4.0	4.1	4.3	4.1	2.8	1.4	1.0	1.2	1.4	1.2	2.4	--	--
Max	4.0	5.0	5.1	5.3	5.6	5.6	5.3	5.8	6.1	6.9	6.5	6.7	6.7	7.4	7.9	8.4	8.7	7.7	7.0	6.2	4.8	3.6	4.2	4.5	--	8.7	--
Min	0.5	0.2	0.4	0.3	0.3	0.5	0.8	0.6	0.4	0.9	0.8	1.7	1.8	1.9	1.8	2.1	2.5	1.5	1.2	0.4	0.3	0.3	0.3	0.2	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Jan 2016

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	315	341	38	334	312	355	74	88	73	93	109	72	77	79	81	84	74	54	56	58	69	66	65	72	58	355	38
2	72	78	81	77	77	80	79	74	70	69	61	61	64	68	68	68	67	58	57	35	335	139	52	308	65	335	35
3	286	331	8	62	68	74	71	67	68	62	58	59	61	50	52	139	324	48	50	50	65	74	71	97	56	331	8
4	88	84	90	86	99	82	68	64	61	65	59	85	169	297	44	56	84	82	63	54	60	83	64	69	73	297	44
5	69	54	76	63	88	90	61	78	66	53	77	59	64	71	65	56	67	77	65	179	92	200	126	146	80	200	53
6	119	135	109	149	156	235	18	136	189	204	241	234	240	236	247	259	278	285	29	41	51	52	285	12	211	285	12
7	35	142	77	99	133	109	147	152	146	152	193	209	247	162	77	81	67	69	177	72	99	96	354	242	121	354	35
8	56	129	146	249	270	286	271	271	257	245	258	278	242	266	146	343	90	341	65	32	211	341	61	62	283	343	32
9	60	68	242	44	324	53	350	31	68	139	166	230	242	211	208	284	281	267	303	359	43	353	46	64	357	359	31
10	49	95	53	86	349	25	74	92	109	242	221	123	195	259	267	280	259	297	325	32	22	57	6	3	21	349	3
11	300	81	54	214	89	56	52	153	33	203	215	227	186	182	144	42	12	354	50	70	63	63	39	291	73	354	12
12	314	313	334	5	312	283	300	315	51	262	346	53	7	79	44	89	73	301	174	17	81	17	338	325	355	346	5
13	276	19	32	331	33	17	351	329	320	261	295	125	100	249	265	270	229	274	30	18	39	51	340	31	342	351	17
14	23	40	3	342	323	355	24	52	76	173	182	261	256	264	256	266	271	295	352	47	49	358	315	6	339	358	3
15	24	43	9	50	56	67	30	347	314	106	186	174	206	248	248	262	327	280	341	10	16	47	40	17	8	347	9
16	328	32	13	68	60	289	337	49	77	151	148	211	238	258	263	269	263	275	290	326	64	335	73	10	335	337	10
17	247	356	90	48	246	324	297	317	17	203	214	231	271	264	262	260	279	295	336	297	322	38	66	20	301	356	17
18	60	70	75	62	97	114	83	69	87	117	98	53	64	116	116	204	222	74	311	32	24	1	66	352	73	352	1
19	2	20	7	7	18	27	58	26	52	148	201	194	176	223	262	266	276	282	342	46	133	30	310	55	4	342	2
20	355	23	41	16	330	53	40	12	283	192	218	198	257	262	260	258	262	272	3	333	323	347	11	272	317	355	3
21	324	71	91	352	249	207	154	60	166	103	32	29	101	59	57	47	45	37	74	347	73	61	2	77	58	352	2
22	64	2	13	1	345	16	43	326	58	61	73	69	82	110	57	55	81	80	84	80	89	76	138	77	59	345	1
23	75	77	72	83	92	97	96	108	124	218	175	215	74	93	116	202	212	328	336	52	314	52	28	25	86	336	25
24	64	36	20	66	327	39	21	26	73	233	229	242	255	251	251	244	244	249	293	293	42	41	36	31	336	327	20
25	338	33	47	100	53	303	66	85	81	148	147	209	216	--	--	--	272	285	321	350	47	42	39	37	39	350	33
26	35	345	68	7	227	72	27	40	66	88	113	82	58	35	37	39	32	32	32	24	102	258	4	46	44	345	4
27	227	275	273	0	77	106	86	75	53	51	185	65	68	68	--	--	--	287	331	25	50	38	349	23	38	349	0
28	1	306	326	349	350	18	320	331	340	70	39	127	132	227	245	255	258	291	336	44	10	73	96	4	350	350	1
29	34	40	74	34	58	41	114	78	11	177	189	225	213	278	273	257	291	228	40	59	38	329	55	53	35	329	11
30	4	42	14	347	349	326	37	344	143	100	177	224	212	223	263	269	284	269	56	19	62	37	55	72	4	349	4
31	90	88	65	43	59	58	60	56	75	127	161	189	210	220	202	230	206	207	206	216	203	205	204	206	162	230	43
Avg	21	42	46	37	29	38	46	48	66	141	165	168	179	223	233	278	294	315	12	27	50	41	35	30	40	--	--
Max	355	356	334	352	350	355	351	347	340	262	346	278	271	297	273	343	327	354	352	359	335	358	354	352	--	359	--
Min	1	2	3	0	18	16	18	12	11	51	32	29	7	35	37	39	12	32	3	10	10	1	2	3	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Feb 2016

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	251	253	250	252	265	256	238	245	240	226	277	265	267	259	256	257	324	33	89	96	256	293	277	255	260	324	33
2	47	34	0	64	49	23	23	298	99	159	217	275	252	243	259	266	254	240	292	23	48	56	49	51	355	298	0
3	51	65	52	66	72	75	82	315	30	248	70	75	145	320	86	332	336	302	313	27	88	12	171	329	36	336	12
4	232	289	68	72	60	47	272	284	2	71	77	85	75	56	69	72	82	93	83	45	315	67	43	37	54	315	2
5	63	55	53	39	58	63	58	57	55	51	70	67	216	294	267	210	344	1	29	16	71	43	291	272	35	344	1
6	241	64	65	61	71	61	59	65	52	76	40	126	49	258	159	36	60	221	114	78	56	303	323	0	59	323	0
7	320	355	54	348	55	22	359	20	332	265	240	79	92	82	133	229	262	100	6	59	202	69	63	57	35	359	6
8	346	51	43	270	331	214	273	251	355	62	76	70	60	63	67	113	192	220	222	38	62	78	77	63	53	355	38
9	84	62	88	99	53	59	65	71	66	63	58	25	67	59	64	76	54	69	72	61	90	31	317	65	63	317	25
10	62	51	350	15	69	70	69	54	11	57	39	49	63	74	106	89	50	63	23	46	18	45	43	11	49	350	11
11	16	40	56	7	31	321	359	64	69	88	--	241	220	269	283	283	287	291	328	37	37	16	337	30	356	359	7
12	5	70	76	76	75	76	65	24	29	287	87	109	218	80	142	165	155	227	17	48	57	107	101	328	75	328	5
13	15	352	121	102	99	80	90	74	73	59	91	91	168	272	287	247	266	279	310	31	27	36	20	3	44	352	3
14	352	41	266	30	32	7	56	338	79	147	195	243	237	248	280	262	254	292	338	30	322	355	8	43	335	355	7
15	55	337	341	277	258	264	236	84	61	62	66	75	94	128	141	248	249	272	304	34	45	29	26	43	23	341	26
16	301	359	75	82	273	273	345	3	294	261	157	118	77	107	230	248	259	283	360	53	24	40	91	69	3	360	3
17	112	63	264	286	235	212	92	85	107	118	67	109	145	203	199	217	221	275	4	44	66	70	65	50	112	286	4
18	80	107	60	48	11	57	336	47	82	197	149	189	161	130	213	245	272	292	353	27	47	59	355	44	58	355	11
19	57	42	57	54	72	102	348	53	29	306	99	158	162	196	214	223	232	299	3	50	355	353	358	332	32	358	3
20	5	279	11	9	345	28	9	346	81	161	213	268	277	271	273	255	264	271	323	29	25	37	33	343	332	346	5
21	316	9	329	58	48	342	41	33	217	166	217	270	278	263	243	258	264	264	321	354	42	23	330	320	318	354	9
22	311	12	309	16	40	358	68	23	90	174	223	249	247	260	269	268	276	271	275	286	71	12	81	340	319	358	12
23	343	12	35	22	215	32	65	45	70	81	107	91	115	6	358	356	16	25	9	14	26	34	36	45	36	358	6
24	47	49	17	69	54	54	48	31	41	57	46	37	59	63	69	24	71	73	83	82	70	340	318	8	47	340	8
25	76	87	63	87	64	75	16	306	310	93	73	57	93	58	234	156	118	101	89	98	108	130	66	24	79	310	16
26	327	264	320	311	338	312	267	290	224	1	229	217	232	268	107	91	96	60	85	102	44	53	89	49	350	338	1
27	62	51	75	66	81	90	89	100	88	98	124	97	154	205	274	266	270	267	305	328	337	11	32	347	55	347	11
28	358	9	2	45	49	52	50	330	180	181	180	196	258	278	246	273	255	271	301	314	276	344	358	11	315	358	2
29	358	358	14	9	12	34	14	304	169	174	172	237	269	254	242	248	262	264	292	313	2	319	54	305	309	358	2
Avg	15	28	31	38	41	38	33	17	57	111	116	114	163	261	223	249	273	290	355	36	37	30	28	13	29	--	--
Max	358	359	350	348	345	358	359	346	355	306	277	275	278	320	358	356	344	302	360	354	355	355	358	347	--	360	--
Min	5	9	0	7	11	7	9	3	2	1	39	25	49	6	64	24	16	1	3	14	2	11	8	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Mar 2016

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	341	45	327	356	59	306	10	128	185	206	221	231	245	268	270	269	252	306	340	347	305	282	351	304	356	10
2	311	21	34	30	22	21	40	63	188	166	204	226	266	274	267	258	270	264	306	29	290	300	290	299	305	311	21
3	348	19	349	36	29	33	17	63	83	128	132	177	208	222	277	238	274	280	343	41	39	49	22	7	18	349	7
4	11	338	8	21	42	358	2	57	85	40	105	172	187	185	242	249	258	287	38	42	31	345	23	15	17	358	2
5	2	44	33	69	52	54	50	45	82	167	177	157	190	248	247	260	277	305	16	249	358	92	32	14	33	358	2
6	25	36	53	67	343	54	77	96	114	153	204	206	217	208	248	226	249	254	272	237	103	200	239	250	202	343	25
7	277	247	288	322	13	270	12	5	110	160	241	203	254	256	251	257	281	272	267	285	346	166	50	195	271	346	5
8	130	183	125	309	312	310	306	176	189	169	233	272	268	244	259	255	252	267	271	350	355	8	338	103	265	355	8
9	50	48	327	339	252	62	63	338	175	270	205	225	277	264	258	275	268	263	292	347	323	3	31	350	309	350	3
10	8	336	278	31	155	259	348	37	168	153	176	205	246	208	204	209	236	275	303	331	42	61	46	61	272	348	8
11	49	63	77	74	90	78	89	315	59	66	91	108	120	160	214	217	237	244	251	240	200	123	94	216	120	315	49
12	144	175	239	212	240	254	257	247	254	249	255	250	252	250	256	258	267	264	274	281	13	55	57	41	254	281	13
13	41	20	--	344	331	60	76	74	97	161	225	213	215	282	252	261	266	268	259	281	76	32	35	333	322	344	20
14	54	51	53	17	23	55	67	58	94	159	221	258	243	243	264	260	265	259	278	311	338	43	20	4	347	338	4
15	19	265	300	279	312	270	337	68	141	322	7	18	30	308	274	269	245	284	310	8	21	31	310	301	322	337	7
16	273	47	343	356	50	56	331	290	221	63	97	123	176	214	217	237	256	257	281	331	2	319	19	152	314	356	2
17	0	295	33	52	42	33	52	332	210	180	186	232	268	250	255	258	259	273	292	315	41	77	288	339	306	339	0
18	287	312	347	334	354	339	50	13	132	193	193	237	255	249	258	249	258	267	281	339	25	295	276	341	295	354	13
19	50	33	0	295	299	52	51	56	84	187	226	217	260	235	248	264	261	258	283	347	63	341	23	326	318	347	0
20	286	281	11	31	27	343	21	57	102	67	63	61	68	80	65	211	224	148	178	19	22	19	68	73	49	343	11
21	72	85	83	84	93	90	101	106	95	70	72	154	167	221	258	262	273	271	279	323	44	337	51	65	79	337	44
22	84	58	0	55	64	320	43	90	166	217	234	251	262	265	260	256	271	272	270	262	272	279	270	260	275	320	0
23	70	316	357	33	87	44	323	318	158	129	237	285	273	250	207	277	264	268	264	305	2	331	38	349	313	357	2
24	37	30	44	336	273	295	282	354	56	63	69	206	208	240	238	250	276	284	272	346	26	360	274	300	314	360	26
25	335	284	337	5	14	43	19	54	136	188	231	260	252	245	249	261	261	274	276	296	309	325	68	42	304	337	5
26	48	56	63	57	64	56	55	64	147	199	249	243	248	244	265	264	262	254	266	309	36	319	308	3	321	319	3
27	80	74	61	80	87	84	82	83	123	81	184	229	188	230	200	256	257	260	272	334	353	325	350	27	72	353	27
28	31	65	62	68	100	77	116	147	167	160	172	188	198	227	233	221	218	226	225	223	206	186	209	160	174	233	31
29	186	354	247	227	254	219	226	222	232	266	269	292	294	252	270	258	257	218	269	277	258	244	183	275	251	354	183
30	157	339	156	283	283	283	321	102	188	208	234	277	223	256	253	224	226	233	199	289	336	356	286	15	257	356	15
31	253	111	45	53	68	35	65	142	124	230	285	255	242	217	315	267	275	259	265	299	335	322	45	59	306	335	35
Avg	26	16	18	15	21	24	28	51	136	163	203	222	234	240	251	251	259	262	278	316	4	353	2	358	301	--	--
Max	348	354	357	356	356	358	348	354	254	322	285	292	294	308	315	277	281	305	343	350	358	360	350	351	--	360	--
Min	0	19	0	5	13	21	2	5	56	40	7	18	30	80	65	209	218	148	16	8	2	3	19	3	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jan 2016

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	1.37	0.76	0.76	0.83	0.83	0.40	0.41	0.39	0.19	-0.17	-0.54	-0.60	-0.65	-0.77	-0.62	-0.36	0.06	0.27	0.31	0.37	0.43	0.41	0.41	0.42	0.21	1.37	-0.77
2	0.41	0.48	0.48	0.49	0.45	0.48	0.48	0.46	0.21	-0.24	-0.48	-0.77	-0.94	-0.85	-0.62	-0.30	0.08	0.32	0.41	0.38	0.34	0.40	0.43	0.45	0.11	0.49	-0.94
3	0.74	0.43	0.35	0.41	0.42	0.44	0.41	0.38	0.18	-0.20	-0.41	-0.55	-0.61	-0.50	-0.41	-0.25	0.06	0.28	0.30	0.31	0.34	0.32	0.32	0.27	0.13	0.74	-0.61
4	0.28	0.26	0.26	0.25	0.25	0.27	0.30	0.29	0.21	0.05	0.05	0.04	-0.02	-0.06	-0.07	0.08	0.17	0.25	0.24	0.24	0.25	0.24	0.23	0.32	0.18	0.32	-0.07
5	0.33	0.29	0.31	0.28	0.33	0.29	0.28	0.31	0.30	0.26	0.12	-0.01	0.07	-0.08	-0.13	0.17	0.32	0.37	0.36	0.19	0.29	0.21	0.25	0.33	0.23	0.37	-0.13
6	0.44	0.41	0.29	0.26	0.28	0.15	0.17	0.18	0.12	-0.01	0.01	-0.29	-0.09	-0.38	-0.16	0.04	0.00	0.20	0.85	1.62	0.92	0.77	0.68	0.70	0.30	1.62	-0.38
7	0.64	0.63	0.44	0.42	0.26	0.20	0.25	0.30	0.32	0.26	0.17	0.12	0.09	0.07	0.12	0.14	0.20	0.26	0.17	0.27	0.25	0.39	0.30	0.24	0.27	0.64	0.07
8	0.21	0.23	0.15	0.13	0.13	0.18	0.14	0.13	0.11	0.08	0.09	0.07	0.01	0.06	-0.06	0.21	0.17	0.22	0.40	0.71	0.59	0.30	0.42	0.48	0.21	0.71	-0.06
9	0.58	0.54	0.37	0.50	0.69	1.23	1.33	1.16	0.36	-0.65	-0.71	-0.59	-0.33	-1.05	-0.37	-0.10	-0.10	0.04	0.23	0.80	0.93	1.03	0.70	0.74	0.31	1.33	-1.05
10	0.86	0.95	1.12	0.73	1.01	1.29	0.46	0.41	0.24	-0.14	-0.23	-0.51	-0.54	-0.16	-0.12	0.01	0.04	0.14	0.20	0.57	0.77	0.98	1.22	1.06	0.43	1.29	-0.54
11	1.13	0.92	1.05	0.70	0.69	0.60	0.60	0.87	0.65	-0.53	-0.69	-0.76	-0.71	-0.73	-0.62	-0.52	-0.14	0.35	0.78	0.80	0.97	0.98	0.62	0.76	0.32	1.13	-0.76
12	1.36	1.44	1.89	1.78	1.79	1.53	1.38	1.27	0.62	0.18	-0.24	-0.61	-0.41	-0.49	-0.38	-0.59	0.12	0.64	0.91	1.66	0.91	0.82	1.10	1.40	0.75	1.89	-0.61
13	1.34	1.63	1.42	1.44	1.34	1.69	1.54	1.60	1.26	0.22	-0.09	-0.89	-1.28	-0.54	-0.04	-0.18	-0.26	0.52	1.14	2.15	2.18	2.17	2.38	2.47	0.97	2.47	-1.28
14	1.74	2.01	1.79	1.89	2.66	2.11	1.80	2.26	1.10	-0.60	-0.49	-0.46	-0.32	-0.16	-0.26	-0.11	0.07	0.26	1.19	1.75	1.63	1.71	1.78	2.41	1.07	2.66	-0.60
15	2.15	2.32	2.24	1.64	1.16	0.86	0.95	1.48	0.84	0.06	-0.50	-0.43	-0.63	-0.31	0.03	0.18	0.21	0.38	0.89	2.37	1.55	1.23	1.15	1.91	0.91	2.37	-0.63
16	1.58	1.74	1.39	1.44	0.89	1.08	1.63	1.50	0.49	-0.68	-0.71	-0.72	-0.51	-0.27	-0.19	-0.15	-0.05	0.03	0.18	0.35	0.86	0.75	0.88	1.05	0.52	1.74	-0.72
17	0.96	1.67	1.48	1.44	1.45	2.08	1.92	2.05	1.63	-0.24	-0.51	-0.40	-0.22	-0.23	-0.22	-0.22	-0.14	0.32	1.39	1.51	1.81	2.52	1.40	1.89	0.97	2.52	-0.51
18	1.18	1.13	0.92	1.06	0.85	1.14	0.93	1.05	0.34	-0.12	-0.37	-0.42	-0.52	-0.64	-0.93	-0.77	0.10	1.31	0.94	2.34	2.72	2.00	2.37	2.04	0.78	2.72	-0.93
19	2.60	1.51	1.96	1.93	2.42	2.28	1.14	2.16	0.70	-0.34	-0.53	-1.12	-1.44	-0.91	-0.35	-0.15	-0.09	0.35	0.94	0.78	0.76	0.78	0.60	0.43	0.68	2.60	-1.44
20	0.64	1.51	2.19	2.43	2.09	2.33	2.16	1.61	0.54	-0.23	-0.51	-0.83	-0.31	-0.31	-0.26	-0.46	-0.07	0.21	0.65	1.43	1.30	1.57	1.77	1.42	0.87	2.43	-0.83
21	1.35	0.94	0.82	1.30	1.17	0.82	1.25	1.05	0.57	-0.56	-0.40	-0.60	-0.71	-0.75	-0.67	-0.48	0.03	0.32	0.59	0.74	0.70	0.60	0.66	0.68	0.39	1.35	-0.75
22	0.77	0.74	0.74	0.73	0.71	0.60	0.62	0.61	0.28	-0.22	-0.38	-0.53	-0.55	-0.56	-0.46	-0.27	0.08	0.33	0.53	0.57	0.61	0.56	0.51	0.63	0.28	0.77	-0.56
23	0.68	0.62	0.54	0.47	0.59	0.66	0.59	0.47	0.28	0.03	-0.10	-0.24	-0.81	-0.76	-0.70	-0.77	-0.14	0.37	1.26	1.14	0.83	1.56	2.20	2.23	0.46	2.23	-0.81
24	2.02	2.40	3.10	2.00	2.18	2.74	2.37	1.91	0.94	-0.23	-0.48	-0.67	-0.50	-0.63	-0.57	-0.58	-0.39	0.03	0.39	0.95	1.76	1.22	1.31	1.61	0.95	3.10	-0.67
25	1.77	1.56	1.36	0.79	0.98	0.79	0.54	0.41	0.04	-0.31	-0.72	-0.86	-0.95	--	--	--	-0.27	0.02	0.59	1.04	1.34	1.34	1.11	1.07	0.55	1.77	-0.95
26	1.08	1.17	1.16	1.14	1.29	1.32	1.27	1.23	0.91	0.41	0.18	0.05	0.09	0.16	0.31	0.61	0.86	1.26	1.41	1.36	1.51	1.81	1.63	1.49	0.99	1.81	0.05
27	1.65	1.73	1.81	2.37	1.88	1.67	1.57	1.42	1.17	0.67	0.53	0.07	-0.05	0.22	--	--	--	1.11	2.33	2.61	2.41	2.26	2.39	2.47	1.54	2.61	-0.05
28	2.99	2.83	2.80	2.65	3.02	2.67	2.46	2.26	1.57	0.65	0.55	-0.11	-0.16	0.54	0.58	0.60	0.76	1.20	2.08	2.68	2.29	1.82	2.18	2.40	1.72	3.02	-0.16
29	3.00	2.27	2.50	2.60	1.84	2.43	1.74	1.85	1.56	0.46	0.46	0.38	0.07	0.75	0.71	0.76	0.84	1.14	2.85	2.21	2.18	2.36	2.48	2.03	1.64	3.00	0.07
30	2.52	2.34	2.78	3.32	2.86	3.04	3.22	2.56	1.35	-0.02	-0.13	0.00	-0.53	-0.23	0.57	0.67	0.71	1.01	2.54	2.75	3.08	3.00	2.99	2.62	1.79	3.32	-0.53
31	1.54	1.82	2.19	2.75	3.29	3.37	3.62	2.70	1.71	-0.01	-0.36	-0.60	-0.47	0.24	0.34	0.69	0.89	1.18	1.15	1.11	1.12	1.09	1.02	0.86	1.30	3.62	-0.60
Avg	1.29	1.27	1.31	1.30	1.28	1.31	1.21	1.17	0.67	-0.07	-0.24	-0.41	-0.45	-0.31	-0.19	-0.07	0.14	0.47	0.91	1.22	1.21	1.20	1.21	1.25	0.70	--	--
Max	3.00	2.83	3.10	3.32	3.29	3.37	3.62	2.70	1.71	0.67	0.55	0.38	0.09	0.75	0.71	0.76	0.89	1.31	2.85	2.75	3.08	3.00	2.99	2.62	--	3.62	--
Min	0.21	0.23	0.15	0.13	0.13	0.15	0.14	0.13	0.04	-0.68	-0.72	-1.12	-1.44	-1.05	-0.93	-0.77	-0.39	0.02	0.17	0.19	0.25	0.21	0.23	0.24	--	--	-1.44

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Feb 2016

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	0.57	0.64	0.71	0.70	0.68	0.64	0.68	0.68	0.59	0.49	0.59	0.57	0.55	0.51	0.56	0.58	0.54	0.51	0.62	0.71	0.78	0.78	0.75	0.86	0.64	0.86	0.49
2	0.95	1.41	1.44	1.11	1.14	1.22	1.37	1.09	0.33	-0.20	-0.06	-0.14	-0.13	-0.12	0.01	0.10	0.19	0.35	0.89	1.56	2.00	1.94	1.92	1.49	0.83	2.00	-0.20
3	1.16	1.11	1.22	1.12	1.10	1.03	1.10	1.26	0.65	0.33	-0.45	-0.76	-0.39	-0.18	-0.24	-0.01	0.24	0.56	1.08	1.44	1.71	1.14	1.00	1.01	0.68	1.71	-0.76
4	1.22	1.15	1.03	1.17	1.14	1.22	1.19	1.15	0.82	0.09	0.04	-0.37	-0.23	-0.19	-0.15	0.00	0.45	1.01	1.43	1.53	2.10	1.20	1.07	1.01	0.80	2.10	-0.37
5	1.00	1.01	1.02	0.97	0.96	1.00	0.99	0.99	0.69	0.31	0.06	-0.14	-0.39	0.10	0.07	0.05	0.32	0.68	1.00	1.04	1.21	1.13	1.18	1.18	0.68	1.21	-0.39
6	1.33	1.27	1.16	1.11	1.09	1.14	1.10	1.05	0.70	0.11	0.20	-0.35	-0.22	-0.01	-0.06	0.17	0.54	0.86	1.20	1.54	1.35	1.26	1.43	1.44	0.81	1.54	-0.35
7	1.39	1.83	1.36	1.61	1.71	1.76	1.41	1.41	1.04	0.52	0.26	-0.23	-0.26	-0.19	-0.11	-0.07	0.46	1.00	1.18	1.20	1.20	1.31	1.30	1.27	0.93	1.83	-0.26
8	1.13	1.22	1.24	1.20	1.25	1.46	1.25	1.53	0.93	0.30	0.15	-0.03	-0.07	0.07	0.23	0.21	0.28	1.02	1.55	1.32	1.29	1.14	1.03	1.35	0.88	1.55	-0.07
9	1.17	1.11	1.11	1.08	1.07	1.08	1.08	1.04	0.75	0.28	0.09	0.03	-0.09	-0.30	-0.16	0.13	0.48	0.97	1.37	1.80	1.77	1.25	1.84	1.60	0.86	1.84	-0.30
10	1.51	1.47	1.87	1.52	1.23	1.22	1.25	1.23	0.81	0.27	0.17	-0.11	-0.49	-0.24	-0.16	0.08	0.49	1.17	1.94	2.07	1.98	1.73	1.89	2.21	1.05	2.21	-0.49
11	2.36	2.65	2.23	2.71	2.92	2.64	2.96	1.47	0.73	-0.21	--	0.47	0.17	0.59	0.57	0.61	0.63	0.95	1.70	3.09	3.22	3.01	3.02	3.20	1.81	3.22	-0.21
12	2.72	1.90	1.71	1.66	1.56	1.59	1.82	2.14	1.58	0.77	0.28	0.23	0.24	0.00	-0.02	-0.03	0.36	0.94	1.92	1.92	2.25	2.00	2.20	2.94	1.36	2.94	-0.03
13	3.54	2.83	1.86	1.69	1.75	1.54	1.40	1.54	1.01	0.62	0.44	-0.02	-0.10	0.31	0.48	0.40	0.62	0.92	1.64	2.96	2.78	3.23	2.99	3.06	1.56	3.54	-0.10
14	3.46	2.74	2.74	3.49	2.54	2.92	2.09	1.98	0.75	0.01	0.13	0.08	0.12	0.22	0.29	0.40	0.39	0.83	1.19	2.09	2.07	2.76	2.97	2.30	1.61	3.49	0.01
15	2.40	2.13	2.05	1.63	1.86	1.48	1.49	1.50	0.95	0.38	0.19	-0.25	-0.30	-0.31	-0.15	0.40	0.62	0.92	1.65	2.88	3.13	2.55	1.98	1.81	1.29	3.13	-0.31
16	2.17	2.15	2.11	2.20	1.46	1.69	2.04	2.07	1.44	0.62	0.20	-0.39	-0.28	-0.09	0.06	0.41	0.62	0.94	2.06	2.18	1.87	2.19	2.10	2.34	1.34	2.34	-0.39
17	1.63	1.23	1.28	1.23	1.21	1.28	1.19	1.37	0.86	0.39	0.27	-0.30	-0.77	-0.71	-0.25	-0.16	0.20	0.95	2.00	3.33	3.09	3.04	3.22	2.80	1.18	3.33	-0.77
18	2.32	2.27	2.45	2.58	2.60	3.86	3.16	3.71	1.03	0.27	-0.16	0.11	0.11	0.23	0.01	0.50	0.87	1.05	1.82	2.40	2.57	2.76	2.45	3.04	1.75	3.86	-0.16
19	2.66	3.35	3.57	2.90	2.42	1.58	1.58	1.65	1.39	0.27	0.09	-0.03	-0.21	0.05	0.21	0.12	0.34	0.91	1.75	2.11	2.02	2.87	2.61	3.00	1.55	3.57	-0.21
20	2.93	2.44	3.34	3.37	3.21	3.65	2.77	2.66	0.95	-0.09	0.21	0.40	0.26	0.24	0.30	0.23	0.47	0.77	1.15	2.51	3.04	3.11	2.93	2.64	1.81	3.65	-0.09
21	2.67	3.13	2.92	3.05	3.61	2.95	2.90	2.23	1.08	-0.06	0.25	0.33	0.14	0.07	0.21	0.20	0.36	0.72	1.19	1.80	2.38	2.51	2.41	2.58	1.65	3.61	-0.06
22	3.18	2.79	2.56	2.69	1.87	2.30	2.18	1.85	0.49	0.19	-0.02	-0.02	-0.19	0.15	0.32	0.38	0.44	0.79	1.06	1.33	1.68	1.48	2.25	2.01	1.32	3.18	-0.19
23	1.57	1.37	1.46	1.58	1.85	1.44	1.15	1.01	0.41	-0.31	-0.40	-0.31	-0.89	-0.39	-0.21	0.12	0.16	0.56	0.93	1.05	0.95	0.95	0.93	0.98	0.67	1.85	-0.89
24	0.96	0.99	0.95	0.95	0.88	0.85	0.86	0.86	0.41	-0.11	-0.28	-0.49	-0.57	-0.54	-0.47	-0.23	0.13	0.76	1.12	1.27	1.29	1.30	1.39	1.30	0.57	1.39	-0.57
25	1.20	1.20	1.26	1.25	1.46	1.31	1.68	1.77	0.81	-0.09	-0.35	-0.32	-0.41	-0.17	0.00	-0.01	0.24	0.85	1.33	1.61	1.58	1.36	1.36	1.26	0.84	1.77	-0.41
26	1.81	1.80	1.26	1.91	1.43	1.43	1.65	1.62	0.66	0.42	0.02	-0.40	-0.36	-0.09	-0.29	-0.12	0.28	0.78	1.32	1.62	1.72	1.50	1.94	1.83	0.99	1.94	-0.40
27	1.64	1.64	1.85	1.90	2.09	1.48	1.39	1.09	0.66	0.01	-0.01	-0.48	-0.48	-0.36	0.06	0.23	0.34	0.72	1.21	2.24	3.03	2.65	3.02	2.94	1.20	3.03	-0.48
28	3.13	3.20	3.20	2.95	3.11	2.07	2.26	2.20	0.67	0.14	-0.23	-0.53	-0.13	0.04	-0.04	0.18	0.38	0.67	1.03	1.48	2.01	1.80	2.31	2.63	1.44	3.20	-0.53
29	2.84	2.90	2.80	2.94	2.76	2.64	2.69	2.25	0.70	0.02	-0.08	0.06	0.28	0.31	-0.07	0.09	0.42	0.70	1.25	1.58	2.52	2.20	2.04	2.41	1.51	2.94	-0.08
Avg	1.95	1.89	1.85	1.87	1.79	1.74	1.68	1.60	0.82	0.20	0.06	-0.12	-0.18	-0.03	0.03	0.17	0.41	0.82	1.36	1.85	2.02	1.94	1.98	2.02	1.16	--	--
Max	3.54	3.35	3.57	3.49	3.61	3.86	3.16	3.71	1.58	0.77	0.59	0.57	0.55	0.59	0.57	0.61	0.87	1.17	2.06	3.33	3.22	3.23	3.22	3.20	--	3.86	--
Min	0.57	0.64	0.71	0.70	0.68	0.64	0.68	0.68	0.33	-0.31	-0.45	-0.76	-0.89	-0.71	-0.47	-0.23	0.13	0.35	0.62	0.71	0.78	0.78	0.75	0.86	--	--	-0.89

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Mar 2016

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	3.09	3.50	2.94	3.23	3.15	1.67	2.21	2.23	0.30	0.03	0.00	-0.01	-0.20	-0.12	0.22	0.29	0.49	0.71	1.14	2.07	2.91	2.28	2.26	2.83	1.55	3.50	-0.20
2	3.12	3.45	3.36	3.08	3.14	3.10	2.83	2.02	0.74	-0.03	0.16	-0.22	0.16	0.20	0.44	0.39	0.42	0.75	1.26	2.22	2.38	2.37	2.63	3.13	1.71	3.45	-0.22
3	3.54	3.50	3.37	2.93	2.72	2.45	1.97	1.34	0.63	0.06	-0.23	-0.28	-0.75	0.08	0.19	0.17	0.51	0.94	1.14	2.46	2.31	1.93	2.31	2.89	1.51	3.54	-0.75
4	3.17	2.73	3.12	2.88	2.78	2.45	2.18	1.51	0.41	0.06	-0.38	-0.85	-1.29	-1.17	-0.22	0.21	0.51	0.82	1.54	1.79	1.99	2.26	2.81	3.07	1.35	3.17	-1.29
5	3.09	3.18	2.56	2.44	2.70	2.62	1.96	2.09	0.18	-0.33	-0.71	-0.67	-0.82	-0.03	0.06	0.29	0.48	0.65	0.97	1.42	1.54	1.40	1.36	1.69	1.17	3.18	-0.82
6	2.12	2.76	2.70	2.47	2.18	2.14	1.60	1.12	0.60	0.08	-0.61	-0.90	-1.02	-0.76	0.06	-0.28	0.16	0.47	0.84	0.87	0.91	0.76	0.81	0.81	0.83	2.76	-1.02
7	0.80	0.61	0.71	0.87	1.50	1.23	1.41	0.76	0.00	-0.53	-0.30	-1.29	-0.27	-0.15	-0.15	-0.01	0.24	0.38	0.56	0.67	0.79	0.53	0.71	0.52	0.40	1.50	-1.29
8	0.66	0.44	0.41	0.58	0.58	0.51	0.60	0.27	-0.07	-0.43	-0.23	-0.09	-0.22	-0.42	-0.10	-0.13	0.02	0.29	0.66	0.96	1.17	1.66	1.99	1.77	0.45	1.99	-0.43
9	2.12	1.61	2.04	2.24	1.97	2.02	1.22	1.44	0.11	0.23	-0.30	-0.03	-0.04	0.07	-0.20	0.04	0.27	0.52	0.87	1.38	2.07	2.22	2.23	1.88	1.08	2.24	-0.30
10	2.30	2.11	2.39	1.68	1.61	1.61	1.81	1.52	0.33	-0.09	-1.03	-1.03	-0.06	-0.63	-0.60	-0.50	-0.02	0.57	0.95	1.43	2.59	1.70	1.41	1.44	0.90	2.59	-1.03
11	1.81	1.41	1.39	1.34	1.30	0.88	1.00	0.85	0.53	0.14	-0.11	-0.29	-0.42	-0.66	-0.15	-0.21	0.40	0.66	0.98	1.14	1.21	1.32	1.58	1.43	0.73	1.81	-0.66
12	1.21	1.11	0.88	0.75	0.68	0.51	0.57	0.44	0.19	-0.12	-0.26	-0.34	-0.56	-0.40	-0.37	-0.27	-0.09	0.20	0.55	0.77	1.09	1.83	1.65	1.41	0.48	1.83	-0.56
13	1.75	1.45	--	1.69	1.81	1.31	1.05	0.64	-0.11	-0.47	-0.37	-0.63	-0.89	-0.26	-0.48	-0.16	0.09	0.39	0.74	0.87	0.95	1.68	1.54	2.09	0.64	2.09	-0.89
14	2.73	2.70	2.34	2.18	2.67	1.85	1.96	1.14	-0.30	-0.41	-0.45	-0.09	-0.56	-0.48	-0.07	-0.03	0.07	0.34	0.74	0.90	1.41	1.79	2.34	2.11	1.04	2.73	-0.56
15	1.78	1.69	1.64	2.07	1.98	1.73	2.40	1.01	-0.13	-0.06	-0.28	-0.36	-0.55	-0.28	-0.09	-0.01	0.21	0.59	0.86	1.68	2.97	2.55	2.59	2.42	1.10	2.97	-0.55
16	2.10	1.85	2.21	2.78	1.89	1.71	2.00	1.30	0.31	0.07	-0.34	-0.72	-0.99	-0.61	-0.51	-0.10	0.17	0.55	1.01	1.20	2.03	2.47	2.27	1.75	1.02	2.78	-0.99
17	2.30	2.35	2.93	2.54	1.57	2.11	1.90	1.03	0.16	-0.62	-0.55	-0.40	-0.31	-0.34	-0.02	-0.01	0.27	0.49	1.03	1.88	2.60	1.86	1.93	2.90	1.15	2.93	-0.62
18	3.00	3.05	3.03	3.52	2.90	2.66	2.36	1.30	0.07	-0.11	-0.43	-0.32	-0.23	-0.36	0.01	-0.02	0.17	0.55	0.99	1.50	2.68	2.67	2.10	3.20	1.43	3.52	-0.43
19	2.94	3.08	2.85	2.52	2.66	2.72	1.91	1.34	-0.29	-0.20	-0.16	-0.37	-0.31	-0.69	-0.22	-0.08	0.15	0.45	0.95	1.65	2.71	2.46	2.78	1.73	1.28	3.08	-0.69
20	1.50	1.91	2.53	2.49	1.91	2.29	2.33	0.97	0.14	0.10	-0.44	-0.77	-0.69	-0.23	-0.40	-0.38	-0.03	0.34	1.10	1.50	2.15	2.05	1.38	1.26	0.96	2.53	-0.77
21	1.43	1.35	1.29	1.25	1.28	1.13	1.09	0.73	0.32	0.04	-0.48	-0.60	-0.81	-0.65	-0.02	-0.03	0.20	0.48	1.02	1.55	2.26	2.63	2.88	2.99	0.89	2.99	-0.81
22	2.31	2.66	2.44	2.19	2.22	1.73	2.52	1.12	-0.31	-0.47	-0.33	-0.08	-0.14	-0.08	0.03	0.03	0.22	0.42	0.68	0.73	0.85	0.82	0.83	1.09	0.90	2.66	-0.47
23	1.42	1.31	1.25	1.18	1.44	1.69	1.87	0.57	-0.48	-0.52	-0.25	-0.39	-0.38	-0.41	-1.06	-0.16	-0.02	0.29	0.66	0.86	1.33	1.79	2.50	2.05	0.69	2.50	-1.06
24	2.09	1.59	1.55	1.45	1.48	1.08	1.21	0.78	-0.11	-0.59	-0.77	-0.58	-0.63	-0.57	-0.47	-0.45	0.07	0.24	0.73	1.06	1.99	2.48	1.85	2.25	0.74	2.48	-0.77
25	2.10	2.25	2.73	3.33	2.84	2.30	1.85	0.81	-0.44	-0.30	-0.26	-0.18	-0.30	-0.65	-0.39	-0.14	0.00	0.37	0.78	1.02	1.35	1.35	2.81	2.25	1.06	3.33	-0.65
26	3.32	3.73	3.28	3.69	2.64	2.32	2.07	0.60	-0.25	-0.49	-0.17	-0.50	-0.63	-0.56	-0.26	-0.17	0.07	0.31	0.82	1.12	2.51	2.09	2.11	2.79	1.27	3.73	-0.63
27	1.19	1.18	1.20	1.06	1.03	1.11	1.12	0.53	-0.01	-0.51	-0.80	-0.48	-0.69	-0.74	-1.19	-0.46	-0.02	0.34	0.68	1.75	2.16	1.43	2.32	2.44	0.61	2.44	-1.19
28	2.36	3.06	2.74	1.80	1.50	1.83	1.32	0.13	-0.57	-0.85	-1.00	-1.55	-1.26	-0.66	-0.27	-0.06	-0.14	0.35	0.63	0.71	0.81	0.89	0.80	0.76	0.56	3.06	-1.55
29	0.67	0.72	0.73	0.70	0.73	0.67	0.54	0.33	0.25	0.20	0.13	-0.10	-0.22	-0.41	-0.16	-0.14	-0.17	-0.05	0.34	0.53	0.54	0.50	0.42	0.58	0.30	0.73	-0.41
30	0.47	0.47	0.53	0.54	0.50	0.66	0.66	-0.08	-0.22	-0.36	-0.63	-0.13	-0.82	-0.28	-0.40	-0.46	-0.09	-0.02	0.39	0.66	1.01	1.06	1.03	1.74	0.26	1.74	-0.82
31	1.32	1.16	1.78	1.33	1.20	1.94	0.97	0.13	-0.36	-0.25	0.08	-0.11	-0.23	-0.41	-0.26	-0.17	-0.12	0.19	0.56	0.82	1.03	1.29	1.55	2.66	0.67	2.66	-0.41
Avg	2.06	2.06	2.10	2.03	1.89	1.74	1.63	0.97	0.05	-0.22	-0.37	-0.46	-0.52	-0.41	-0.23	-0.10	0.14	0.44	0.84	1.26	1.75	1.75	1.86	2.00	0.93	--	--
Max	3.54	3.73	3.37	3.69	3.15	3.10	2.83	2.23	0.74	0.23	0.16	-0.01	0.16	0.20	0.44	0.39	0.51	0.94	1.54	2.46	2.97	2.67	2.88	3.20	--	3.73	--
Min	0.47	0.44	0.41	0.54	0.50	0.51	0.54	-0.08	-0.57	-0.85	-1.03	-1.55	-1.29	-1.17	-1.19	-0.50	-0.17	-0.05	0.34	0.53	0.54	0.50	0.42	0.52	--	--	-1.55

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jan 2016

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	7.5	8.2	9.7	8.4	7.9	9.8	9.8	9.7	10.1	11.1	12.4	13.7	14.8	15.5	15.6	15.4	14.4	12.8	12.0	11.7	11.4	10.9	10.5	9.8	11.4	15.6	7.5
2	9.3	9.5	9.6	9.5	8.9	8.6	8.9	9.0	10.1	11.2	11.7	12.6	13.8	14.8	15.1	15.1	14.6	13.7	13.6	13.0	11.8	11.4	11.8	11.1	11.6	15.1	8.6
3	9.5	10.0	10.1	10.3	9.6	9.2	9.4	9.4	10.0	10.7	11.4	12.5	13.6	14.9	15.4	15.7	15.3	14.9	14.6	14.2	14.6	14.1	14.1	13.5	12.4	15.7	9.2
4	13.4	12.5	12.2	12.4	11.9	11.8	11.3	11.2	11.4	11.5	11.6	12.0	11.7	8.5	8.9	10.1	10.3	10.2	10.0	9.7	9.6	9.2	9.0	8.3	10.8	13.4	8.3
5	8.0	8.0	8.1	8.3	7.8	7.6	7.6	7.7	7.7	8.2	8.5	9.7	10.0	10.4	10.8	10.8	10.4	10.3	9.6	9.1	9.0	9.2	9.1	9.1	9.0	10.8	7.6
6	9.3	9.3	9.1	8.9	8.6	6.7	5.9	6.1	6.7	7.3	7.9	8.8	8.3	9.9	9.7	9.2	9.4	8.8	7.8	6.9	7.2	7.4	6.4	7.7	8.1	9.9	5.9
7	6.7	6.9	6.5	7.0	6.8	6.5	6.7	6.7	6.8	6.8	6.4	5.8	5.2	4.0	4.0	4.0	3.9	3.6	3.6	3.0	3.5	4.4	4.4	4.1	5.3	7.0	3.0
8	3.9	4.0	4.1	4.1	3.9	3.5	3.8	3.9	3.9	4.1	3.8	3.4	3.9	4.0	4.4	4.0	4.3	4.9	4.7	4.8	4.6	4.9	4.7	4.9	4.2	4.9	3.4
9	4.9	4.9	4.9	4.9	4.1	3.6	3.0	2.9	4.3	6.3	7.3	8.1	8.4	9.9	9.2	8.9	8.9	8.2	7.3	6.2	5.2	4.6	4.8	4.7	6.1	9.9	2.9
10	4.3	4.3	4.1	4.6	3.6	3.6	4.7	5.1	5.4	6.1	7.1	8.3	8.9	9.0	9.0	8.2	8.2	7.8	7.2	6.5	6.1	5.7	5.1	4.6	6.1	9.0	3.6
11	4.1	4.2	3.6	3.4	5.2	6.0	5.7	3.9	3.7	6.6	7.9	8.9	9.6	10.6	11.2	11.3	10.9	9.9	8.3	7.8	7.6	6.9	7.6	6.8	7.2	11.3	3.4
12	5.2	4.6	4.7	4.6	4.1	4.0	3.8	4.8	7.4	8.2	11.1	12.7	13.0	13.7	14.2	15.0	14.5	13.3	12.0	10.2	11.1	10.7	10.1	9.6	9.3	15.0	3.8
13	9.1	8.2	8.5	7.9	7.9	7.4	7.4	6.8	7.3	9.5	12.4	14.2	15.7	15.4	14.4	15.1	15.7	13.9	11.2	9.8	8.8	8.4	7.9	7.9	10.5	15.7	6.8
14	8.4	7.7	7.3	7.1	6.1	5.8	5.1	4.8	6.4	9.9	11.5	12.5	13.1	13.4	13.8	13.6	12.8	11.6	9.8	8.5	8.0	7.4	6.5	6.6	9.1	13.8	4.8
15	6.1	6.0	6.0	6.0	6.3	6.5	6.0	4.9	5.2	7.8	9.9	10.2	11.0	11.2	10.6	10.1	8.5	8.6	7.7	6.1	5.8	6.2	5.9	5.4	7.4	11.2	4.9
16	5.0	4.7	5.4	5.3	5.7	4.5	4.1	4.5	5.8	8.6	10.5	11.9	12.2	12.0	11.8	12.1	11.6	10.7	10.1	9.6	8.6	8.7	8.0	7.9	8.3	12.2	4.1
17	7.4	6.8	7.5	7.3	6.2	6.1	5.6	5.6	7.1	10.0	12.9	14.8	15.4	15.6	15.9	16.0	15.8	14.3	12.4	11.2	10.5	10.6	12.1	11.5	10.8	16.0	5.6
18	12.4	13.2	13.0	12.2	11.7	10.9	11.6	11.4	13.0	14.7	16.2	17.4	17.8	18.1	19.3	19.6	17.9	16.0	14.5	12.4	11.8	11.1	11.0	10.5	14.1	19.6	10.5
19	9.5	9.4	8.4	8.0	7.6	8.1	8.8	7.7	9.7	12.9	15.0	16.9	17.6	17.6	16.7	15.6	15.6	14.6	13.5	13.1	13.1	13.3	12.6	12.8	12.4	17.6	7.6
20	12.5	10.3	9.6	9.1	8.6	8.6	9.0	8.7	9.5	12.4	14.0	15.4	15.4	15.6	15.6	15.9	15.1	13.9	12.5	11.7	10.8	10.2	9.9	9.9	11.8	15.9	8.6
21	9.4	11.0	10.4	9.4	9.4	9.7	8.6	9.1	10.0	12.1	12.8	14.3	15.7	16.7	17.2	17.3	16.5	15.7	15.6	14.3	15.2	14.9	13.6	14.2	13.0	17.3	8.6
22	13.4	12.7	12.4	12.0	12.1	12.6	12.4	12.6	13.5	14.8	15.5	16.8	17.8	18.6	19.3	19.7	18.6	17.5	16.5	16.9	17.1	16.9	16.6	16.5	15.5	19.7	12.0
23	16.4	16.4	16.0	15.8	15.6	15.3	15.0	15.0	15.1	16.3	17.1	18.5	20.5	21.5	21.9	22.0	20.7	18.3	16.1	15.3	14.5	13.6	12.7	12.4	16.8	22.0	12.4
24	11.5	11.2	10.5	9.4	9.0	8.4	8.4	8.8	9.3	11.2	11.9	12.9	13.4	14.0	13.8	14.0	13.7	12.6	11.1	10.2	8.9	8.7	8.3	7.8	10.8	14.0	7.8
25	7.5	7.7	7.7	8.0	7.8	7.5	8.7	8.6	9.4	10.3	12.5	13.5	14.0	--	--	--	13.8	12.9	11.4	10.5	9.9	9.7	9.9	9.4	10.0	14.0	7.5
26	8.8	7.9	7.4	6.8	6.4	7.9	8.6	8.3	7.5	9.5	9.5	10.5	12.0	13.3	13.9	14.2	14.1	13.2	12.3	11.5	10.6	9.4	10.0	10.5	10.2	14.2	6.4
27	9.0	8.0	7.3	6.8	8.1	7.8	7.6	7.6	8.1	10.2	11.7	12.8	14.3	14.9	--	--	--	13.8	11.9	10.7	10.3	10.0	9.7	9.5	10.0	14.9	6.8
28	9.1	8.6	8.4	8.7	8.2	7.8	8.1	7.8	9.4	12.8	14.1	16.1	17.4	17.5	17.7	17.6	17.5	16.0	13.7	12.2	11.7	12.6	11.5	11.4	12.3	17.7	7.8
29	10.2	10.9	10.1	10.4	11.0	10.1	10.6	10.1	9.6	13.0	14.8	16.9	18.5	17.6	17.5	17.4	16.7	15.8	13.5	13.2	11.7	11.1	11.9	12.4	13.1	18.5	9.6
30	10.8	11.4	10.2	10.1	9.5	9.2	8.9	8.8	11.2	14.7	16.4	17.1	18.5	19.0	17.9	17.7	17.5	17.0	14.7	13.8	13.3	13.3	13.0	12.8	13.6	19.0	8.8
31	13.4	12.7	12.5	11.6	10.9	10.7	10.0	10.8	12.3	15.4	16.9	18.1	18.6	17.8	17.8	18.2	17.7	17.9	17.1	16.2	15.4	14.6	13.8	12.4	14.7	18.6	10.0
Avg	8.9	8.7	8.6	8.3	8.1	7.9	7.9	7.8	8.6	10.5	11.7	12.8	13.6	13.8	13.9	13.9	13.5	12.7	11.5	10.7	10.2	10.0	9.8	9.5	10.5	--	--
Max	16.4	16.4	16.0	15.8	15.6	15.3	15.0	15.0	15.1	16.3	17.1	18.5	20.5	21.5	21.9	22.0	20.7	18.3	17.1	16.9	17.1	16.9	16.6	16.5	--	22.0	--
Min	3.9	4.0	3.6	3.4	3.6	3.5	3.0	2.9	3.7	4.1	3.8	3.4	3.9	4.0	4.0	4.0	3.9	3.6	3.6	3.0	3.5	4.4	4.4	4.1	--	--	2.9

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Feb 2016

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	7.0	6.0	5.5	4.9	4.6	4.1	4.1	3.6	3.1	3.6	0.4	0.7	1.8	2.4	3.0	2.9	2.5	2.9	3.1	3.4	3.7	3.3	3.1	2.5	3.4	7.0	0.4
2	1.8	1.0	0.4	0.3	-0.4	-0.7	-1.2	-1.0	-0.3	1.4	2.4	3.2	3.5	3.6	4.0	4.3	4.6	4.5	3.3	2.3	1.7	1.2	1.2	1.5	1.8	4.6	-1.2
3	1.4	1.8	1.1	1.4	1.4	1.0	1.2	0.6	2.0	3.4	5.5	6.4	7.2	7.6	8.4	8.9	9.1	8.2	6.0	5.1	4.2	5.9	5.1	4.6	4.5	9.1	0.6
4	3.7	3.3	5.3	5.1	5.6	4.9	3.5	2.9	4.6	7.8	8.3	9.5	10.0	11.0	11.4	12.1	12.2	11.2	9.9	8.2	7.0	9.4	9.7	9.1	7.7	12.2	2.9
5	9.0	9.3	9.5	9.2	8.9	8.9	9.3	9.5	9.7	10.1	11.0	11.6	12.7	12.8	13.7	14.1	14.1	13.2	11.8	11.7	10.8	11.6	9.0	9.9	10.9	14.1	8.9
6	8.3	11.3	11.3	10.8	11.0	10.6	10.6	10.5	10.5	12.3	13.2	15.2	16.2	17.1	17.8	17.6	17.7	17.2	16.1	14.4	15.3	13.3	13.1	13.2	13.5	17.8	8.3
7	12.5	12.4	13.5	12.3	12.3	11.8	11.9	11.5	12.2	14.1	16.3	17.8	19.8	20.7	21.8	22.5	21.8	20.4	19.1	18.7	17.3	18.5	18.7	17.8	16.5	22.5	11.5
8	16.7	17.3	17.3	16.0	15.0	14.5	14.1	12.9	15.6	18.1	19.0	19.6	20.2	21.3	22.1	23.0	23.6	22.6	19.8	21.1	20.4	18.5	17.4	16.3	18.4	23.6	12.9
9	16.3	16.3	16.9	16.2	16.1	16.7	16.6	15.6	17.9	18.7	19.1	20.1	21.5	22.9	23.5	23.5	23.4	22.5	20.3	18.3	17.9	18.4	16.8	17.9	18.9	23.5	15.6
10	17.8	17.5	14.9	16.2	17.4	17.2	17.0	16.2	16.8	18.9	19.7	20.9	22.5	23.4	24.1	24.2	23.8	22.5	19.7	18.7	17.3	18.1	17.4	16.7	19.1	24.2	14.9
11	16.2	15.9	16.2	14.9	14.5	13.5	13.2	14.7	16.6	19.2	--	22.3	24.2	24.3	24.1	23.8	23.8	22.5	20.4	18.0	17.3	16.7	16.9	16.5	18.5	24.3	13.2
12	16.1	18.2	18.0	17.6	17.0	16.6	16.0	14.9	16.9	19.1	21.2	22.8	23.8	25.3	26.5	26.9	26.3	24.8	21.7	20.5	19.7	20.2	19.6	17.5	20.3	26.9	14.9
13	16.8	16.9	19.1	19.0	18.8	18.8	18.5	18.6	19.8	21.1	21.9	23.4	25.1	24.4	24.2	24.8	24.5	23.0	20.6	18.1	17.2	16.1	15.7	15.2	20.1	25.1	15.2
14	14.7	14.7	14.1	13.6	13.8	13.1	13.8	13.0	15.3	17.2	19.5	20.8	21.4	22.3	22.4	21.8	21.5	19.9	18.5	17.0	15.5	15.1	14.5	15.9	17.1	22.4	13.0
15	14.9	14.4	14.8	14.3	13.8	14.3	15.2	17.5	19.6	20.9	21.6	22.7	23.3	24.2	24.8	24.2	23.3	22.2	20.2	18.0	17.2	17.2	17.2	17.8	18.9	24.8	13.8
16	16.6	16.3	15.8	15.2	15.3	15.1	14.6	15.0	16.6	19.5	21.5	23.3	24.2	25.5	25.9	26.0	25.6	24.3	21.7	21.1	20.8	20.6	20.4	19.3	20.0	26.0	14.6
17	20.1	20.9	20.8	20.5	20.1	19.5	18.6	17.8	19.3	20.9	22.9	24.8	26.5	27.1	27.3	27.6	27.1	25.4	23.0	21.0	20.5	20.7	19.8	19.5	22.2	27.6	17.8
18	19.4	19.2	18.7	18.1	17.3	16.0	15.4	14.7	18.3	20.1	22.0	21.9	22.5	23.8	24.3	23.8	22.5	21.6	20.0	18.9	17.9	17.4	16.2	16.6	19.4	24.3	14.7
19	16.4	15.4	15.8	16.3	15.8	16.6	16.3	16.4	17.8	19.2	22.0	22.8	23.3	23.2	23.4	24.0	23.8	22.3	20.8	19.2	18.2	16.7	16.6	16.0	19.1	24.0	15.4
20	15.7	15.1	14.5	14.7	14.3	14.2	14.3	14.0	16.5	19.2	21.2	22.3	22.8	23.7	24.2	24.4	23.9	22.8	21.1	18.9	17.7	17.1	16.7	16.2	18.6	24.4	14.0
21	15.5	15.2	14.8	14.7	14.5	13.7	13.9	14.2	15.7	19.1	20.5	21.1	21.8	22.8	23.6	23.7	23.3	22.1	20.0	18.8	17.4	16.6	15.7	15.2	18.1	23.7	13.7
22	14.8	14.2	13.9	13.3	13.3	12.1	12.3	12.0	14.1	16.7	17.8	18.5	19.1	19.1	19.7	20.1	20.3	20.3	18.9	17.3	15.8	15.7	14.1	14.2	16.1	20.3	12.0
23	14.4	14.2	13.5	12.7	9.9	12.0	11.1	10.6	11.3	12.7	13.7	14.5	15.7	15.9	16.3	16.2	16.7	16.0	15.2	14.6	14.0	13.4	13.0	12.2	13.7	16.7	9.9
24	11.7	11.3	11.7	11.6	11.0	10.6	10.6	10.5	11.3	13.0	14.2	15.9	17.3	18.2	18.7	19.1	18.9	17.8	16.4	15.6	15.3	14.2	13.9	13.9	14.3	19.1	10.5
25	14.3	14.2	13.6	13.7	12.8	12.8	12.1	11.3	13.7	16.3	18.1	19.4	20.9	22.2	23.1	23.8	23.7	22.8	21.0	19.6	19.2	19.5	19.3	19.2	17.8	23.8	11.3
26	17.1	16.9	17.3	15.6	15.8	15.6	14.7	14.4	17.1	19.4	20.6	22.2	23.5	24.6	25.7	26.0	25.5	24.6	22.7	21.1	19.9	19.6	18.3	18.5	19.9	26.0	14.4
27	18.3	17.9	17.2	17.5	16.8	17.8	18.1	17.6	18.4	20.2	21.9	23.8	24.8	25.2	25.1	24.8	24.5	23.3	21.4	19.6	17.9	16.9	16.1	16.0	20.1	25.2	16.0
28	15.1	14.7	14.4	14.2	13.7	15.0	14.2	13.6	16.6	19.1	21.1	22.7	23.2	23.5	24.1	23.9	23.5	22.6	20.8	19.9	18.5	17.8	17.2	17.0	18.6	24.1	13.6
29	16.4	16.0	15.4	15.4	15.0	14.8	14.0	13.8	17.0	20.0	21.4	22.2	22.7	23.5	24.4	24.5	24.0	23.3	21.4	20.4	19.1	18.5	17.8	17.2	19.1	24.5	13.8
Avg	13.8	13.7	13.6	13.3	12.9	12.8	12.6	12.3	13.9	15.9	17.1	18.4	19.4	20.0	20.6	20.8	20.5	19.5	17.8	16.5	15.7	15.5	14.8	14.6	16.1	--	--
Max	20.1	20.9	20.8	20.5	20.1	19.5	18.6	18.6	19.8	21.1	22.9	24.8	26.5	27.1	27.3	27.6	27.1	25.4	23.0	21.1	20.8	20.7	20.4	19.5	--	27.6	--
Min	1.4	1.0	0.4	0.3	-0.4	-0.7	-1.2	-1.0	-0.3	1.4	0.4	0.7	1.8	2.4	3.0	2.9	2.5	2.9	3.1	2.3	1.7	1.2	1.2	1.5	--	--	-1.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Mar 2016

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	16.4	16.6	15.9	15.5	15.1	16.7	14.8	14.8	18.4	20.4	22.6	23.7	24.7	25.2	25.1	25.1	24.6	24.0	22.2	20.5	18.9	18.4	17.7	17.1	19.8	25.2	14.8
2	16.8	16.2	16.0	15.7	15.3	14.9	14.8	15.2	17.3	20.2	22.0	23.8	24.2	24.9	24.7	24.9	24.8	24.0	22.3	20.5	19.4	18.1	17.5	17.2	19.6	24.9	14.8
3	17.1	16.5	16.1	16.2	16.5	16.2	16.3	17.6	19.1	20.8	22.9	24.3	25.1	24.9	25.3	26.2	25.6	24.2	22.7	20.6	19.3	19.6	18.7	17.6	20.4	26.2	16.1
4	17.4	16.5	16.9	16.5	16.9	16.2	16.5	17.2	20.1	21.9	24.1	25.7	26.8	27.6	27.0	26.9	25.9	24.7	23.2	21.7	20.9	19.5	18.7	18.4	21.1	27.6	16.2
5	17.7	17.2	17.0	17.2	16.6	15.9	16.2	15.4	18.9	21.2	22.4	23.1	24.1	23.3	23.5	23.1	22.7	22.1	21.5	20.0	19.1	19.2	18.8	18.6	19.8	24.1	15.4
6	18.2	17.5	17.3	17.1	16.8	15.9	15.9	16.4	17.1	18.4	20.0	21.0	21.8	22.1	20.9	21.4	20.8	20.5	18.8	17.6	16.9	17.1	15.8	14.4	18.3	22.1	14.4
7	13.2	13.1	12.3	11.5	10.4	9.7	9.1	9.3	11.5	13.5	14.3	16.3	15.5	15.5	15.7	15.7	15.0	14.6	13.0	11.8	11.6	10.8	10.7	10.2	12.7	16.3	9.1
8	9.1	8.8	7.3	7.0	6.6	6.0	5.8	6.3	7.7	9.5	10.8	11.9	13.0	14.7	15.6	16.3	16.4	15.7	14.4	13.3	13.2	12.1	12.2	11.2	11.0	16.4	5.8
9	11.1	11.0	10.1	9.9	9.1	10.0	11.2	10.4	13.3	14.4	16.6	18.2	18.8	19.5	20.5	20.5	20.1	19.7	18.1	16.9	15.8	14.8	14.6	14.3	15.0	20.5	9.1
10	13.8	12.9	13.1	13.0	13.4	13.9	13.5	13.9	17.8	20.5	21.7	22.4	22.6	24.5	25.4	25.8	25.5	23.8	22.2	20.6	18.5	19.3	19.0	18.9	19.0	25.8	12.9
11	17.9	18.4	18.0	18.3	17.9	18.0	18.3	18.8	20.3	21.7	22.9	24.0	25.1	25.9	26.1	26.3	25.3	24.3	22.2	20.6	19.5	18.4	17.4	16.8	20.9	26.3	16.8
12	15.9	15.2	13.7	11.6	10.6	10.0	8.8	8.4	9.1	10.1	11.3	12.6	13.7	14.3	14.9	15.3	15.3	14.8	13.8	12.8	12.1	11.5	11.0	10.9	12.4	15.9	8.4
13	10.6	10.5	--	9.5	9.6	10.7	10.9	11.4	13.2	15.3	16.6	17.6	19.1	18.8	19.4	19.5	19.1	18.4	17.2	16.6	16.0	15.1	14.2	13.9	14.9	19.5	9.5
14	13.5	13.3	13.3	13.0	12.3	11.9	11.1	11.9	14.8	16.3	17.6	18.2	19.4	20.0	20.1	20.5	20.3	19.8	18.5	17.5	16.5	15.5	14.8	15.1	16.0	20.5	11.1
15	15.1	13.4	13.9	13.1	12.8	12.7	12.8	15.0	17.4	19.3	20.7	21.8	23.1	23.6	23.8	24.2	24.2	23.2	21.3	19.6	18.1	17.5	16.8	16.0	18.3	24.2	12.7
16	15.9	15.9	15.7	15.1	15.6	15.5	14.7	15.5	17.9	20.7	22.1	23.6	25.0	25.2	25.8	25.6	25.1	24.2	22.4	21.2	20.0	18.0	17.8	17.6	19.8	25.8	14.7
17	16.3	16.1	15.4	15.6	16.5	15.6	15.6	15.9	17.8	21.1	22.9	23.7	24.7	25.2	25.0	25.2	24.8	24.1	22.5	20.9	19.3	19.2	17.6	17.3	19.9	25.2	15.4
18	16.9	16.2	15.6	15.5	14.6	14.7	14.9	15.4	18.7	20.7	22.4	23.5	24.3	24.8	24.8	25.1	24.8	24.1	22.6	21.5	19.8	19.3	18.3	17.9	19.9	25.1	14.6
19	17.7	17.3	16.7	15.8	14.9	14.7	14.9	16.1	19.4	21.0	22.3	23.9	24.9	25.8	25.8	26.0	25.7	24.9	23.4	21.9	20.3	19.5	19.4	19.5	20.5	26.0	14.7
20	18.4	18.7	17.5	17.7	18.0	17.4	17.4	18.6	19.8	20.2	22.2	23.6	24.7	25.5	26.7	27.2	26.8	26.3	24.8	23.1	21.3	20.7	21.1	21.3	21.6	27.2	17.4
21	20.4	20.3	19.9	19.6	19.4	18.9	18.7	19.3	21.1	22.6	24.6	26.3	27.4	27.8	27.6	27.7	27.2	26.4	24.8	23.2	21.6	20.8	20.3	19.9	22.7	27.8	18.7
22	19.6	18.5	17.6	17.3	16.8	17.0	15.6	16.9	19.7	21.0	21.3	21.6	22.2	22.0	21.8	21.7	20.9	19.5	17.9	16.9	15.7	15.0	14.3	13.4	18.5	22.2	13.4
23	12.8	12.7	12.3	11.2	10.3	9.6	9.3	10.0	11.9	13.6	14.7	16.3	16.8	17.4	18.7	18.2	18.3	17.3	16.0	14.9	14.0	12.9	12.0	11.4	13.9	18.7	9.3
24	11.5	11.1	10.8	12.2	11.7	12.4	11.3	12.8	15.4	16.9	18.8	19.6	20.5	21.4	21.8	21.9	21.0	20.3	18.6	17.4	16.0	15.4	14.6	14.0	16.1	21.9	10.8
25	13.4	13.3	12.6	12.2	12.2	12.1	11.5	13.5	16.4	18.4	19.5	20.5	21.0	22.1	22.5	22.6	22.6	21.8	20.7	19.4	19.1	18.5	17.3	17.3	17.5	22.6	11.5
26	16.0	15.2	14.8	14.0	13.5	14.0	13.8	15.7	18.1	19.9	20.6	21.7	22.4	23.1	23.3	23.5	23.1	22.7	21.4	20.1	18.5	18.0	16.8	16.6	18.6	23.5	13.5
27	16.7	16.2	15.5	15.5	14.8	14.7	14.8	16.0	18.3	20.6	22.3	22.4	23.5	24.5	25.5	24.9	24.2	23.4	22.4	20.8	19.3	18.2	17.4	16.7	19.5	25.5	14.7
28	16.3	15.7	15.5	16.0	16.0	15.5	15.3	17.4	19.1	20.1	21.5	23.0	23.2	23.4	23.2	22.8	23.1	21.8	20.4	19.5	18.3	17.2	16.5	15.6	19.0	23.4	15.3
29	14.9	14.7	14.3	13.7	12.5	11.6	10.7	10.5	10.7	9.9	8.7	7.1	7.6	9.9	11.4	12.6	13.2	13.4	13.0	12.2	11.6	11.2	11.1	10.7	11.5	14.9	7.1
30	10.1	10.1	9.9	9.0	8.3	7.7	7.5	8.6	9.6	10.6	11.8	11.7	13.3	13.1	14.1	14.5	13.8	13.9	13.0	12.0	11.3	10.6	9.5	8.7	11.0	14.5	7.5
31	8.1	8.3	7.9	8.2	7.6	7.0	7.7	9.1	11.2	13.0	12.9	13.5	13.9	14.5	14.1	14.9	15.6	15.3	14.5	13.5	13.3	13.0	12.1	10.8	11.7	15.6	7.0
Avg	15.1	14.8	14.4	14.0	13.6	13.4	13.2	14.0	16.2	17.9	19.2	20.2	21.0	21.6	21.9	22.1	21.8	21.1	19.7	18.4	17.3	16.6	15.9	15.5	17.5	--	--
Max	20.4	20.3	19.9	19.6	19.4	18.9	18.7	19.3	21.1	22.6	24.6	26.3	27.4	27.8	27.6	27.7	27.2	26.4	24.8	23.2	21.6	20.8	21.1	21.3	--	27.8	--
Min	8.1	8.3	7.3	7.0	6.6	6.0	5.8	6.3	7.7	9.5	8.7	7.1	7.6	9.9	11.4	12.6	13.2	13.4	13.0	11.8	11.3	10.6	9.5	8.7	--	--	5.8

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jan 2016

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	4	113	345	493	583	607	566	461	306	125	6	0	0	0	0	0	0	150	607	0
2	0	0	0	0	0	0	0	4	117	352	500	591	616	574	470	316	130	6	0	0	0	0	0	0	153	616	0
3	0	0	0	0	0	0	0	5	115	341	490	584	611	571	466	316	92	7	0	0	0	0	0	0	150	611	0
4	0	0	0	0	0	0	0	7	41	142	139	87	72	67	163	237	80	6	0	0	0	0	0	0	43	237	0
5	0	0	0	0	0	0	0	2	24	70	190	258	110	105	227	41	20	0	0	0	0	0	0	0	44	258	0
6	0	0	0	0	0	0	0	4	43	110	185	396	223	451	252	101	170	10	0	0	0	0	0	0	81	451	0
7	0	0	0	0	0	0	0	1	27	37	28	29	33	31	50	40	50	5	0	0	1	1	0	0	14	50	0
8	0	0	0	0	0	0	0	2	20	45	35	52	39	56	50	21	48	6	0	0	0	0	0	0	16	56	0
9	0	0	0	0	0	0	0	4	115	347	509	630	622	563	208	129	145	23	0	0	0	0	0	0	137	630	0
10	0	0	0	0	0	0	0	6	117	247	289	306	410	385	164	77	62	8	0	0	0	0	0	0	86	410	0
11	0	0	0	0	0	0	0	3	121	360	521	619	649	606	504	347	152	12	0	0	0	0	0	0	162	649	0
12	0	0	0	0	0	0	0	4	123	364	522	624	652	615	510	355	160	14	0	0	0	0	0	0	164	652	0
13	0	0	0	0	0	0	0	3	125	365	524	624	652	612	510	352	156	13	0	0	0	0	0	0	164	652	0
14	0	0	0	0	0	0	0	4	124	358	513	611	645	612	510	354	110	16	0	0	0	0	0	0	161	645	0
15	0	0	0	0	0	0	0	9	68	155	291	157	387	309	144	73	26	10	0	0	0	0	0	0	68	387	0
16	0	0	0	0	0	0	0	5	122	351	470	583	615	558	474	291	91	6	0	0	0	0	0	0	149	615	0
17	0	0	0	0	0	0	0	4	124	362	520	622	654	620	518	365	166	15	0	0	0	0	0	0	165	654	0
18	0	0	0	0	0	0	0	11	138	260	385	494	420	316	497	287	91	11	0	0	0	0	0	0	121	497	0
19	0	0	0	0	0	0	0	6	126	360	521	586	643	543	489	308	169	18	0	0	0	0	0	0	157	643	0
20	0	0	0	0	0	0	0	5	121	357	516	617	654	621	521	369	171	20	0	0	0	0	0	0	166	654	0
21	0	0	0	0	0	0	0	3	129	381	546	648	668	632	540	369	134	20	0	0	0	0	0	0	170	668	0
22	0	0	0	0	0	0	0	2	136	388	532	641	669	582	544	372	134	28	0	0	0	0	0	0	168	669	0
23	0	0	0	0	0	0	0	8	116	302	481	622	674	552	386	266	123	17	0	0	0	0	0	0	148	674	0
24	0	0	0	0	0	0	0	8	130	369	532	634	673	641	542	386	178	30	0	0	0	0	0	0	172	673	0
25	0	0	0	0	0	0	0	10	150	285	505	618	635	--	--	--	180	33	0	0	0	0	0	0	115	635	0
26	0	0	0	0	0	0	0	5	145	406	570	668	695	661	567	412	191	37	0	0	0	0	0	0	182	695	0
27	0	0	0	0	0	0	0	5	142	393	555	663	697	663	--	--	--	32	0	0	0	0	0	0	150	697	0
28	0	0	0	0	0	0	0	14	159	303	560	664	691	657	553	395	205	29	0	0	0	0	0	0	176	691	0
29	0	0	0	0	0	0	0	4	149	407	560	679	644	587	576	302	172	24	0	0	0	0	0	0	171	679	0
30	0	0	0	0	0	0	0	6	146	394	553	656	695	648	508	335	187	41	0	0	0	0	0	0	174	695	0
31	0	0	0	0	0	0	0	6	149	397	559	659	651	221	230	143	47	13	0	0	0	0	0	0	128	659	0
Avg	0	0	0	0	0	0	0	5	112	302	438	523	539	487	401	264	126	17	0	0	0	0	0	0	132	--	--
Max	0	0	0	0	0	0	0	14	159	407	570	679	697	663	576	412	205	41	0	0	1	1	0	0	--	697	--
Min	0	0	0	0	0	0	0	1	20	37	28	29	33	31	50	21	20	0	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Feb 2016

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	4	72	95	52	73	66	63	42	25	31	13	0	0	0	0	0	0	22	95	0
2	0	0	0	0	0	0	0	7	160	414	580	686	725	683	591	437	242	51	0	0	0	0	0	0	191	725	0
3	0	0	0	0	0	0	0	6	165	424	593	700	731	699	601	448	250	55	0	0	0	0	0	0	195	731	0
4	0	0	0	0	0	0	0	7	169	441	482	561	588	644	535	452	255	59	0	0	0	0	0	0	175	644	0
5	0	0	0	0	0	0	0	8	180	437	601	708	741	712	618	455	257	58	0	0	0	0	0	0	199	741	0
6	0	0	0	0	0	0	0	7	183	444	608	713	751	711	610	457	261	61	0	0	0	0	0	0	200	751	0
7	0	0	0	0	0	0	0	7	186	440	609	724	750	718	619	464	250	60	0	0	0	0	0	0	201	750	0
8	0	0	0	0	0	0	0	7	194	453	620	726	763	731	626	465	262	64	0	0	0	0	0	0	205	763	0
9	0	0	0	0	0	0	0	9	197	450	615	717	748	723	621	465	266	67	0	0	0	0	0	0	203	748	0
10	0	0	0	0	0	0	0	8	200	450	615	720	759	726	611	451	275	46	0	0	0	0	0	0	203	759	0
11	0	0	0	0	0	0	0	9	211	458	--	722	759	728	627	469	273	73	0	0	0	0	0	0	188	759	0
12	0	0	0	0	0	0	0	8	215	466	632	736	773	742	636	483	283	75	0	0	0	0	0	0	210	773	0
13	0	0	0	0	0	0	0	9	214	462	628	733	764	737	636	482	286	80	0	0	0	0	0	0	210	764	0
14	0	0	0	0	0	0	0	10	217	458	624	734	768	735	641	483	252	40	0	0	0	0	0	0	207	768	0
15	0	0	0	0	0	0	0	11	226	475	637	745	780	740	637	485	288	83	0	0	0	0	0	0	213	780	0
16	0	0	0	0	0	0	0	9	232	478	644	750	787	748	645	493	295	89	1	0	0	0	0	0	215	787	0
17	0	0	0	0	0	0	0	10	237	481	646	749	788	753	650	499	298	89	1	0	0	0	0	0	217	788	0
18	0	0	0	0	0	0	0	12	240	472	468	327	347	404	397	332	171	45	0	0	0	0	0	0	134	472	0
19	0	0	0	0	0	0	0	13	106	395	426	408	466	371	401	497	266	59	1	0	0	0	0	0	142	497	0
20	0	0	0	0	0	0	0	11	238	478	642	723	780	747	655	507	308	97	1	0	0	0	0	0	216	780	0
21	0	0	0	0	0	0	0	13	261	486	651	760	798	766	667	518	316	102	2	0	0	0	0	0	222	798	0
22	0	0	0	0	0	0	0	15	271	495	661	771	813	778	673	516	312	98	2	0	0	0	0	0	225	813	0
23	0	0	0	0	0	0	0	14	291	521	683	788	832	792	557	385	333	116	2	0	0	0	0	0	221	832	0
24	0	0	0	0	0	0	0	16	295	523	692	798	831	797	690	532	330	113	3	0	0	0	0	0	234	831	0
25	0	0	0	0	0	0	0	18	295	518	685	789	823	787	683	525	322	110	2	0	0	0	0	0	232	823	0
26	0	0	0	0	0	0	0	18	300	519	684	790	826	791	685	529	327	112	3	0	0	0	0	0	233	826	0
27	0	0	0	0	0	0	0	56	220	501	675	791	745	790	688	538	333	115	1	0	0	0	0	0	227	791	0
28	0	0	0	0	0	0	0	20	310	521	687	795	832	799	694	521	290	106	1	0	0	0	0	0	232	832	0
29	0	0	0	0	0	0	0	30	305	492	622	714	769	798	692	538	338	122	4	0	0	0	0	0	226	798	0
Avg	0	0	0	0	0	0	0	13	220	457	599	688	721	697	601	464	275	78	1	0	0	0	0	0	200	--	--
Max	0	0	0	0	0	0	0	56	310	523	692	798	832	799	694	538	338	122	4	0	0	0	0	0	--	832	--
Min	0	0	0	0	0	0	0	4	72	95	52	73	66	63	42	25	31	13	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Mar 2016

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	25	324	536	645	757	801	752	655	462	244	145	3	0	0	0	0	0	223	801	0
2	0	0	0	0	0	0	0	26	327	504	664	797	855	758	589	516	345	135	7	0	0	0	0	0	230	855	0
3	0	0	0	0	0	0	1	39	252	479	712	721	656	711	628	536	272	86	2	0	0	0	0	0	212	721	0
4	0	0	0	0	0	0	0	41	347	566	729	825	868	839	690	519	299	87	4	0	0	0	0	0	242	868	0
5	0	0	0	0	0	0	0	46	353	582	607	716	706	643	547	347	192	55	3	0	0	0	0	0	200	716	0
6	0	0	0	0	0	0	0	51	129	319	615	748	840	502	319	403	314	134	7	0	0	0	0	0	183	840	0
7	0	0	0	0	0	0	1	66	249	513	698	771	831	640	677	472	200	103	11	0	0	0	0	0	218	831	0
8	0	0	0	0	0	0	2	112	328	448	565	803	861	837	749	582	357	138	8	0	0	0	0	0	241	861	0
9	0	0	0	0	0	0	1	84	365	575	742	842	876	841	735	578	371	142	8	0	0	0	0	0	257	876	0
10	0	0	0	0	0	0	3	87	385	595	758	853	885	851	747	586	377	154	9	0	0	0	0	0	262	885	0
11	0	0	0	0	0	0	2	107	350	547	605	612	659	665	558	440	241	105	4	0	0	0	0	0	204	665	0
12	0	0	0	0	0	0	3	104	380	592	758	857	887	854	747	586	376	153	11	0	0	0	0	0	263	887	0
13	0	0	--	0	0	0	2	109	389	580	765	831	893	857	751	593	348	125	6	0	0	0	0	0	272	893	0
14	0	0	0	0	0	0	3	109	372	577	738	841	880	867	745	584	374	153	10	0	0	0	0	0	261	880	0
15	0	0	0	0	0	0	5	122	388	608	781	874	905	856	732	561	322	115	9	0	0	0	0	0	262	905	0
16	0	0	0	0	0	0	3	128	403	605	775	872	896	871	768	604	394	168	9	0	0	0	0	0	271	896	0
17	0	0	0	0	0	0	4	135	409	618	782	881	910	880	776	612	401	173	10	0	0	0	0	0	275	910	0
18	0	0	0	0	0	0	4	140	412	622	789	887	919	885	779	617	406	175	11	0	0	0	0	0	277	919	0
19	0	0	0	0	0	0	5	144	413	620	785	880	911	869	767	606	399	173	13	0	0	0	0	0	274	911	0
20	0	0	0	0	0	0	9	146	420	621	798	826	869	873	767	605	397	166	12	0	0	0	0	0	271	873	0
21	0	0	0	0	0	0	8	158	441	551	810	880	697	837	789	596	385	185	13	0	0	0	0	0	265	880	0
22	0	0	0	0	0	0	4	162	439	654	820	917	940	874	741	618	404	177	17	0	0	0	0	0	282	940	0
23	0	0	0	0	0	0	6	177	458	671	837	938	975	934	827	655	442	193	20	0	0	0	0	0	297	975	0
24	0	0	0	0	0	0	5	182	457	673	830	930	961	917	813	641	430	187	22	0	0	0	0	0	294	961	0
25	0	0	0	0	0	0	8	184	446	655	818	923	957	917	811	639	430	186	20	0	0	0	0	0	291	957	0
26	0	0	0	0	0	0	7	191	448	656	821	923	957	915	814	646	431	189	23	0	0	0	0	0	292	957	0
27	0	0	0	0	0	0	8	207	465	670	821	919	951	915	807	642	428	192	21	0	0	0	0	0	294	951	0
28	0	0	0	0	0	0	12	277	463	664	785	926	837	758	446	264	355	124	13	0	0	0	0	0	247	926	0
29	0	0	0	0	0	0	6	45	114	245	211	184	420	704	437	527	392	184	40	0	0	0	0	0	146	704	0
30	0	0	0	0	0	0	11	204	325	605	494	466	702	654	697	393	214	189	23	0	0	0	0	0	207	702	0
31	0	0	0	0	0	0	12	230	479	654	373	578	629	522	618	654	406	193	26	0	0	0	0	0	224	654	0
Avg	0	0	0	0	0	0	4	124	372	574	707	799	837	800	694	551	353	151	13	0	0	0	0	0	250	--	--
Max	0	0	0	0	0	0	12	277	479	673	837	938	975	934	827	655	442	193	40	0	0	0	0	0	--	975	--
Min	0	0	0	0	0	0	0	25	114	245	211	184	420	502	319	264	192	55	2	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jan 2016

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	48	43	40	46	50	46	47	47	47	44	42	40	38	36	36	35	36	39	41	41	41	41	42	44	42	50	35
2	46	46	44	44	46	47	45	44	40	37	37	36	33	32	32	31	31	33	31	33	37	39	35	38	38	47	31
3	45	43	42	40	44	46	46	46	43	41	40	37	35	32	31	29	29	28	26	27	26	28	29	31	36	46	26
4	32	35	36	36	38	39	42	43	44	46	47	47	53	87	87	71	67	65	65	65	65	66	68	75	55	87	32
5	76	76	76	76	82	83	83	82	84	80	82	75	74	73	70	72	77	79	87	94	96	95	94	92	82	96	70
6	90	89	92	93	91	94	92	90	92	89	79	73	77	66	64	66	64	68	75	79	75	71	79	72	80	94	64
7	81	81	87	85	90	94	92	88	85	85	92	94	93	94	89	89	86	85	91	91	89	90	91	93	89	94	81
8	95	93	91	93	94	97	96	95	95	91	92	93	93	92	92	90	91	88	90	89	92	89	91	89	92	97	88
9	88	88	89	87	90	92	91	90	79	72	64	59	54	52	54	57	59	64	70	78	81	85	78	78	75	92	52
10	79	75	74	66	74	75	69	68	66	67	62	55	51	50	54	66	63	67	71	78	79	80	80	77	69	80	50
11	78	76	80	78	53	40	40	52	54	42	37	32	26	24	25	26	28	33	41	40	38	37	31	36	44	80	24
12	44	46	44	43	45	43	44	40	31	32	24	17	17	15	17	18	14	19	24	33	30	31	33	34	31	46	14
13	36	39	37	40	40	43	42	43	42	34	27	22	22	27	34	30	29	34	46	50	52	52	54	53	39	54	22
14	49	52	53	53	57	55	57	56	47	34	29	28	27	29	26	22	28	36	45	51	51	53	54	50	43	57	22
15	53	54	51	49	48	47	51	59	59	47	39	39	37	36	39	41	58	58	58	68	68	63	64	68	52	68	36
16	69	70	63	62	60	67	69	65	58	48	40	37	37	43	44	43	45	49	53	53	59	59	60	62	55	70	37
17	64	67	59	57	62	62	65	64	57	43	33	32	36	35	35	36	36	41	49	53	51	45	33	34	48	67	32
18	30	27	27	30	31	33	30	31	26	22	20	17	17	19	15	17	23	28	33	41	42	41	40	38	28	42	15
19	45	45	50	51	52	48	42	48	39	31	26	24	24	24	30	32	31	36	41	42	40	34	39	38	38	52	24
20	38	47	49	51	52	52	51	52	48	37	33	31	35	35	36	36	39	44	49	53	56	59	60	60	46	60	31
21	63	53	48	42	33	22	24	20	19	15	15	14	12	11	10	9	11	12	13	16	13	14	17	14	22	63	9
22	16	17	18	18	18	16	16	15	13	12	13	12	11	12	13	13	14	15	15	12	10	10	11	12	14	18	10
23	12	12	12	12	12	12	13	13	13	12	12	12	10	9	9	10	12	20	24	25	28	31	34	31	16	34	9
24	31	30	29	32	33	36	39	38	39	34	37	35	34	35	36	35	33	33	37	39	44	45	45	47	37	47	29
25	46	46	47	44	46	47	41	40	38	36	31	29	28	--	--	--	31	33	37	40	39	29	19	21	37	47	19
26	23	24	22	22	23	16	13	15	20	15	18	18	16	14	13	11	9	8	9	9	11	15	14	14	16	24	8
27	17	19	20	21	17	18	19	22	23	19	17	16	14	14	--	--	--	20	25	27	26	26	26	26	21	27	14
28	28	29	29	28	29	30	28	29	26	18	17	15	15	17	18	19	19	23	26	30	31	23	25	24	24	31	15
29	29	27	29	27	24	26	24	26	29	23	19	16	16	22	22	21	22	25	32	31	35	37	30	22	26	37	16
30	25	21	26	31	31	33	34	34	27	21	19	16	14	15	17	19	20	22	28	30	32	34	34	33	26	34	14
31	31	32	32	34	35	36	39	37	34	26	26	24	22	23	24	24	26	22	27	30	34	39	46	60	32	60	22
Avg	49	48	48	48	48	48	48	48	46	40	38	35	35	36	37	37	38	40	44	47	48	47	47	47	44	--	--
Max	95	93	92	93	94	97	96	95	95	91	92	94	93	94	92	90	91	88	91	94	96	95	94	93	--	97	--
Min	12	12	12	12	12	12	13	13	13	12	12	12	10	9	9	9	9	8	9	9	10	10	11	12	--	--	8

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Feb 2016

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	94	80	61	58	59	66	61	59	66	63	92	96	84	78	73	73	78	75	72	68	65	68	69	72	72	96	58
2	73	76	78	77	81	82	86	82	69	56	47	46	44	44	44	42	37	35	46	54	57	57	54	48	59	86	35
3	47	42	46	42	40	41	40	45	39	37	28	25	23	26	22	21	20	26	37	40	43	24	27	28	34	47	20
4	31	32	16	16	13	17	22	24	20	12	12	12	11	11	12	11	10	10	13	22	28	18	17	18	17	32	10
5	21	22	21	23	23	22	18	17	17	18	16	15	15	15	15	13	13	12	14	14	17	15	22	19	17	23	12
6	23	13	12	13	13	13	13	13	14	11	11	9	8	9	10	9	8	7	8	10	9	15	17	17	12	23	7
7	18	19	15	17	15	16	16	18	19	16	14	12	11	12	12	11	10	10	11	13	14	12	12	13	14	19	10
8	15	14	14	16	17	18	18	20	16	12	11	11	12	11	11	11	11	12	15	10	10	14	17	19	14	20	10
9	18	17	15	17	17	16	16	18	15	15	15	15	14	13	12	11	10	11	14	17	17	15	17	13	15	18	10
10	14	14	20	18	15	16	16	17	17	14	14	14	13	12	10	10	10	12	22	21	24	18	20	21	16	24	10
11	21	22	21	24	25	29	29	18	14	13	--	12	10	14	16	15	15	18	22	26	28	30	28	26	21	30	10
12	24	13	12	11	12	12	13	16	14	13	9	9	10	7	7	7	6	8	15	14	14	10	10	15	12	24	6
13	17	17	13	12	12	12	12	12	11	10	10	10	10	13	14	12	11	13	17	22	24	25	26	26	15	26	10
14	27	26	27	28	26	27	25	27	23	21	16	17	17	15	17	16	18	21	23	26	30	30	31	24	23	31	15
15	25	27	25	24	23	20	18	14	12	11	11	11	12	12	12	14	16	17	20	25	27	26	25	21	19	27	11
16	24	24	25	26	26	27	29	27	24	21	17	15	14	13	13	13	14	17	23	18	15	14	12	15	19	29	12
17	13	12	13	13	14	14	15	17	15	15	13	12	10	10	10	9	9	12	15	18	18	16	17	17	14	18	9
18	16	15	16	17	18	21	22	25	19	17	15	15	15	13	13	14	16	17	19	20	22	23	25	22	18	25	13
19	20	22	20	19	20	18	20	21	19	18	14	13	12	13	13	12	11	14	15	17	17	20	20	21	17	22	11
20	21	21	21	20	21	21	21	22	20	18	14	15	14	14	14	14	15	16	17	20	22	23	23	25	19	25	14
21	26	27	27	28	29	31	31	31	28	22	19	21	19	19	16	13	14	15	18	21	24	26	28	28	23	31	13
22	28	28	28	29	29	32	30	30	26	20	20	20	19	19	19	18	17	15	16	17	19	17	21	19	22	32	15
23	17	16	18	20	26	22	22	22	21	19	18	16	15	13	12	12	11	12	13	13	15	15	15	18	17	26	11
24	20	21	19	19	21	25	25	24	23	21	19	17	15	13	13	12	12	12	13	15	16	18	19	19	18	25	12
25	18	17	18	17	18	18	19	21	18	15	14	13	13	12	12	10	10	11	12	13	13	12	12	12	15	21	10
26	15	14	13	16	15	15	16	17	14	11	12	11	11	10	9	9	9	9	10	11	12	13	15	14	13	17	9
27	13	14	14	14	15	13	13	14	14	13	12	11	10	9	10	9	9	11	13	15	17	19	20	19	13	20	9
28	21	21	21	22	23	20	21	24	19	15	12	12	11	11	10	10	11	12	14	15	17	18	20	19	17	24	10
29	20	20	21	21	21	22	23	25	20	16	14	13	14	13	12	12	13	13	16	17	20	20	21	22	18	25	12
Avg	26	24	23	23	24	24	25	25	22	20	19	18	17	16	16	15	15	16	19	21	22	22	23	22	21	--	--
Max	94	80	78	77	81	82	86	82	69	63	92	96	84	78	73	73	78	75	72	68	65	68	69	72	--	96	--
Min	13	12	12	11	12	12	12	12	11	10	9	9	8	7	7	7	6	7	8	10	9	10	10	12	--	--	6

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Mar 2016

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	24	24	25	25	26	22	26	27	21	19	16	15	14	14	14	13	13	13	15	18	20	20	21	22	19	27	13
2	22	23	23	24	25	26	26	26	23	19	16	15	15	13	13	13	12	12	14	16	18	20	20	19	19	26	12
3	17	17	18	18	17	18	19	17	15	16	13	11	12	12	10	9	8	10	11	13	15	13	13	16	14	19	8
4	17	19	18	18	17	19	19	18	14	13	10	8	8	5	5	6	6	7	8	9	10	11	12	12	12	19	5
5	13	14	15	14	13	15	14	16	13	11	10	10	9	9	10	9	10	11	12	15	16	16	16	17	13	17	9
6	17	18	18	19	19	20	20	19	18	13	12	11	12	14	17	20	20	20	22	26	28	27	31	38	20	38	11
7	45	48	50	52	52	53	54	53	40	30	26	22	23	21	21	17	17	22	29	32	33	35	41	41	36	54	17
8	43	47	64	63	65	69	71	69	58	53	49	46	41	37	31	27	25	26	29	30	30	34	33	35	45	71	25
9	34	35	37	37	40	36	32	33	27	25	22	19	19	17	15	13	13	13	15	17	19	21	21	22	24	40	13
10	23	25	24	23	22	20	21	20	14	10	12	12	11	9	8	7	8	10	11	13	15	13	14	14	15	25	7
11	15	14	14	14	13	12	11	11	10	9	8	8	7	7	7	6	8	10	14	15	16	16	17	19	12	19	6
12	24	27	35	51	60	60	59	53	43	39	35	31	29	29	28	27	27	28	30	32	33	35	37	36	37	60	24
13	37	37	--	41	40	36	35	33	30	26	23	21	19	19	18	17	17	18	20	21	23	24	26	27	26	41	17
14	27	28	28	30	31	32	35	34	29	28	25	25	22	22	24	23	23	24	27	30	32	35	37	37	29	37	22
15	37	42	41	43	42	41	37	32	28	20	15	10	8	10	12	10	8	9	13	15	17	18	19	20	23	43	8
16	18	17	17	17	16	16	16	16	14	10	9	8	8	8	8	8	9	9	10	10	11	14	14	14	12	18	8
17	16	15	15	14	13	14	14	14	14	11	11	9	8	7	8	7	7	8	8	10	12	12	14	14	11	16	7
18	13	15	14	15	15	16	15	15	13	11	9	9	9	7	9	8	7	8	10	12	13	15	16	16	12	16	7
19	17	18	19	21	24	25	26	25	19	19	17	15	12	11	11	11	10	10	10	11	12	13	13	13	16	26	10
20	14	14	16	18	19	20	16	12	12	16	15	15	14	11	11	9	8	8	9	11	13	14	14	14	14	20	8
21	15	14	15	15	16	17	18	18	16	15	13	11	10	9	8	8	8	8	10	12	14	15	15	15	13	18	8
22	15	16	17	17	18	18	23	20	17	16	14	15	14	15	14	13	10	15	16	18	24	25	27	26	18	27	10
23	25	25	28	30	32	30	24	17	14	13	11	8	8	7	6	6	7	8	10	11	12	13	14	16	16	32	6
24	16	17	17	15	16	15	17	16	13	12	10	9	9	8	9	9	9	9	10	11	13	14	15	16	13	17	8
25	17	16	17	17	17	17	18	16	13	11	11	10	9	9	9	9	9	9	10	11	11	11	12	11	13	18	9
26	12	13	14	15	17	18	20	17	15	12	10	9	9	9	10	10	10	11	12	13	14	15	17	17	13	20	9
27	14	12	14	14	16	16	16	15	13	12	11	12	12	10	10	11	11	11	12	13	15	16	17	17	13	17	10
28	18	18	20	23	28	30	34	31	27	26	23	19	20	20	20	19	15	17	20	21	26	28	28	28	23	34	15
29	36	38	38	40	50	57	62	63	60	53	55	65	63	48	42	37	32	30	30	28	26	25	24	24	43	65	24
30	26	26	29	33	39	42	47	43	43	36	32	31	26	25	24	23	23	21	23	24	25	27	30	31	30	47	21
31	32	32	32	31	33	35	35	32	27	24	25	23	23	22	27	25	22	21	23	25	26	26	27	29	27	35	21
Avg	23	23	24	26	27	28	28	27	23	20	18	17	16	15	15	14	13	14	16	18	19	20	21	22	20	--	--
Max	45	48	64	63	65	69	71	69	60	53	55	65	63	48	42	37	32	30	30	32	33	35	41	41	--	71	--
Min	12	12	14	14	13	12	11	11	10	9	8	8	7	5	5	6	6	7	8	9	10	11	12	11	--	--	5

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jan 2016

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	0.028	0.016	0	0	0	0	0	0	0	0	0.008	0.052	0.028	0
5	0.008	0.008	0.004	0	0.032	0.008	0.02	0.04	0.036	0	0.004	0	0	0	0	0	0	0.012	0.032	0.134	0.138	0.111	0.072	0.067	0.726	0.138	0
6	0.008	0.032	0.052	0.02	0.064	0.177	0.02	0.008	0	0	0	0	0.008	0	0	0	0	0	0	0	0	0	0	0.004	0.393	0.177	0
7	0.004	0.016	0.016	0	0.04	0.075	0.02	0.016	0	0.012	0.111	0.092	0.111	0.134	0.012	0.04	0.004	0	0.102	0.051	0	0.004	0	0	0.86	0.134	0
8	0	0.012	0.004	0	0.04	0.016	0.004	0	0.008	0	0.052	0.036	0.012	0.004	0.02	0.111	0.012	0	0.004	0	0	0.004	0	0	0.339	0.111	0
9	0	0	0	0	0	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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	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	0.004	0	0	0	0	0	0	0	0.004	0.004	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
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
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	0.043	0.043	0.043	0
Total	0.02	0.068	0.076	0.02	0.176	0.276	0.064	0.064	0.048	0.012	0.167	0.128	0.131	0.166	0.048	0.151	0.02	0.012	0.138	0.185	0.138	0.119	0.072	0.122	2.42	--	--
Max	0.008	0.032	0.052	0.02	0.064	0.177	0.02	0.04	0.036	0.012	0.111	0.092	0.111	0.134	0.02	0.111	0.012	0.012	0.102	0.134	0.138	0.111	0.072	0.067	--	0.177	--
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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Feb 2016

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	0.324	0.004	0	0	0	0	0	0	0.004	0	0.012	0	0.02	0.032	0.032	0.024	0.016	0.008	0.004	0	0.004	0.004	0	0	0.488	0.324	0
2	0	0	0	0	0	0	0	0	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	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
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
Total	0.324	0.004	0	0	0	0	0	0	0.004	0	0.012	0.004	0.02	0.032	0.032	0.024	0.016	0.008	0.004	0	0.004	0.004	0	0	0.492	--	--
Max	0.324	0.004	0	0	0	0	0	0	0.004	0	0.012	0.004	0.02	0.032	0.032	0.024	0.016	0.008	0.004	0	0.004	0.004	0	0	--	0.324	--
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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Mar 2016

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	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	0	0	0	0	0	0	0	--	--
Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0	--
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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jan 2016

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	686	686	687	687	688	687	687	687	686	687	687	687	688	688	688	688	688	688	687	688	685
2	688	688	688	688	688	688	688	688	688	689	689	689	688	688	687	687	687	687	687	687	687	688	688	688	688	689	687
3	688	688	688	688	687	687	687	688	688	688	688	688	687	686	685	685	685	684	684	684	684	684	683	684	686	688	683
4	683	683	683	683	682	682	682	682	683	683	684	684	683	683	682	682	682	682	682	683	683	683	683	684	683	684	682
5	684	683	683	683	683	683	684	684	684	685	685	684	684	683	683	683	683	682	683	683	683	683	683	683	683	685	682
6	682	682	682	682	681	682	683	683	684	685	685	685	684	684	684	684	684	684	684	684	684	684	685	684	684	685	681
7	684	684	684	683	683	683	682	682	682	682	683	682	682	681	680	680	680	680	681	681	681	681	681	681	682	684	680
8	681	680	680	680	680	680	681	681	682	683	683	683	683	683	683	683	684	684	685	685	686	686	686	686	683	686	680
9	687	686	687	687	687	687	687	688	688	689	689	689	688	688	688	687	687	688	688	688	688	688	688	688	688	689	686
10	688	688	688	687	687	688	688	688	688	688	688	688	687	687	686	686	686	687	687	687	688	688	688	688	687	688	686
11	688	688	688	688	688	688	688	689	689	690	690	690	689	689	689	689	689	689	690	690	690	690	690	690	689	690	688
12	690	690	690	689	689	689	689	690	690	690	690	689	688	688	687	688	687	687	687	688	687	688	688	688	689	690	687
13	688	688	688	688	687	687	687	688	688	688	688	688	687	686	686	686	686	686	686	686	686	686	686	686	687	688	686
14	685	685	685	685	685	685	685	685	686	686	686	686	685	685	684	684	684	685	685	685	685	685	685	685	685	686	684
15	685	684	684	684	684	683	683	684	684	684	684	684	684	683	683	683	683	684	684	685	685	685	686	686	684	686	683
16	686	687	687	687	687	687	687	688	688	689	688	688	687	687	687	687	687	687	687	687	687	688	688	688	687	689	686
17	688	688	688	688	688	688	688	689	689	689	689	689	689	688	688	688	688	689	689	689	689	689	689	689	688	689	688
18	688	688	688	688	688	688	688	689	689	689	689	689	688	687	687	687	687	687	687	687	687	688	688	688	688	689	687
19	688	688	688	688	688	688	688	689	689	689	689	689	688	687	687	688	688	688	688	688	688	688	689	688	688	689	687
20	688	688	688	688	688	688	688	688	688	689	689	689	688	687	687	687	687	687	688	688	689	689	689	690	688	690	687
21	690	690	690	690	690	690	690	691	691	692	692	692	691	690	690	690	690	690	690	690	690	690	690	690	690	692	690
22	690	690	689	689	689	689	689	689	690	690	690	689	689	688	687	687	687	687	688	688	687	687	687	687	688	690	687
23	687	686	686	686	686	686	686	686	686	686	686	685	685	684	683	683	683	683	683	683	683	683	683	683	685	687	683
24	683	683	683	683	683	683	683	684	684	685	685	685	684	684	684	684	684	684	685	685	685	685	685	685	684	685	683
25	685	685	685	685	685	685	685	685	686	686	686	686	685	--	--	--	685	685	685	686	686	687	687	687	686	687	685
26	688	688	688	688	687	687	688	688	689	689	690	690	690	689	689	688	689	689	689	689	690	690	690	690	689	690	687
27	690	690	690	691	691	691	691	692	692	692	692	692	691	690	--	--	--	690	690	690	690	690	690	690	691	692	690
28	690	690	690	690	690	690	690	690	690	690	690	689	689	688	687	687	687	687	687	687	687	687	687	688	689	690	687
29	688	687	687	687	686	686	686	687	687	687	687	687	686	685	685	685	685	685	685	685	685	685	685	685	686	688	685
30	685	684	684	684	684	684	684	684	684	685	685	685	684	683	683	683	683	683	683	683	683	684	684	684	684	685	683
31	684	684	684	683	683	683	683	683	683	684	684	683	682	681	680	679	678	678	678	678	677	677	677	676	681	684	676
Avg	687	686	686	686	686	686	686	687	687	687	687	687	687	686	685	685	685	686	686	686	686	686	686	686	686	--	--
Max	690	690	690	691	691	691	691	692	692	692	692	692	691	690	690	690	690	690	690	690	690	690	690	690	--	692	--
Min	681	680	680	680	680	680	681	681	682	682	683	682	682	681	680	679	678	678	678	678	677	677	677	676	--	--	676

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Feb 2016

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	677	678	678	678	678	678	678	678	679	680	680	681	681	681	681	681	682	682	683	683	683	683	684	684	680	684	677
2	684	684	684	683	683	684	684	685	686	686	686	686	686	686	686	686	686	686	687	687	687	688	688	688	686	688	683
3	688	688	688	688	689	689	689	690	690	691	691	691	691	691	690	690	690	691	691	692	692	692	692	692	690	692	688
4	692	692	692	691	691	692	692	692	692	692	692	692	691	690	690	690	689	689	689	690	690	690	690	690	691	692	689
5	690	690	690	690	690	690	690	690	690	691	691	692	692	691	691	691	691	691	691	691	692	692	693	693	691	693	690
6	693	693	693	692	692	692	692	692	693	693	693	692	691	691	690	690	689	689	689	690	690	690	690	690	691	693	689
7	690	690	690	689	689	689	689	689	690	690	690	690	689	688	688	688	688	688	688	689	689	689	689	689	689	690	688
8	689	689	689	689	689	690	690	690	690	690	690	690	690	689	689	688	688	688	688	688	689	689	690	690	689	690	688
9	690	690	689	689	689	690	690	690	690	690	691	690	690	689	689	689	689	688	689	689	689	690	690	690	690	691	688
10	690	690	690	690	690	690	690	690	691	691	691	691	690	690	689	689	689	689	689	689	689	689	689	689	690	691	689
11	689	689	689	689	689	689	689	689	690	690	--	690	689	688	688	688	688	689	689	689	689	689	689	689	689	690	688
12	689	689	689	689	689	689	689	689	690	690	690	690	689	688	688	687	687	687	688	688	688	688	688	688	688	690	687
13	688	688	688	687	687	687	688	688	688	688	688	687	687	686	686	685	685	685	686	686	686	686	686	686	687	688	685
14	686	685	685	685	685	685	685	685	686	686	686	686	685	684	684	684	684	684	684	685	685	685	685	685	685	686	684
15	685	685	685	685	685	685	685	685	685	685	685	685	685	684	684	684	684	684	684	684	685	685	685	685	685	685	684
16	685	685	685	685	685	685	685	685	685	685	686	685	685	684	683	683	683	683	683	684	684	684	684	684	684	686	683
17	684	684	684	683	684	684	684	685	685	685	685	685	684	683	683	683	682	682	682	682	682	683	683	683	683	685	682
18	683	683	683	683	683	683	684	684	685	685	685	686	685	684	684	684	684	684	684	685	685	685	686	686	684	686	683
19	686	686	685	685	685	686	686	686	687	687	687	687	687	686	686	685	685	686	686	686	686	686	687	687	686	687	685
20	687	686	686	686	686	686	686	686	687	687	687	687	687	686	685	685	685	685	685	685	686	686	686	686	686	687	685
21	686	685	685	685	685	685	685	685	686	686	686	686	686	685	684	684	684	684	685	685	685	685	685	684	685	686	684
22	684	684	684	683	683	683	682	683	683	683	683	683	682	682	681	681	681	681	681	681	681	682	682	683	682	684	681
23	683	684	684	684	684	684	684	685	685	686	686	686	686	685	685	685	685	686	686	687	687	688	688	688	685	688	683
24	688	688	688	688	688	688	688	689	689	689	689	689	688	688	687	687	687	686	687	687	687	687	687	687	688	689	686
25	687	687	687	686	687	687	687	688	688	688	689	688	688	687	687	686	686	686	686	687	687	687	687	687	687	689	686
26	688	687	687	688	688	688	688	688	689	689	689	688	688	687	687	686	686	686	686	687	687	687	687	687	687	689	686
27	687	687	687	686	686	686	686	686	687	687	687	686	685	685	684	684	684	684	684	684	685	685	685	685	685	687	684
28	685	685	685	685	685	685	685	685	686	687	687	686	686	686	685	685	685	685	685	686	686	686	686	686	685	687	685
29	686	686	685	685	685	685	686	686	687	687	687	687	686	686	685	685	685	685	685	686	686	687	687	687	686	687	685
Avg	687	687	687	686	686	687	687	687	688	688	688	688	687	687	686	686	686	686	686	687	687	687	687	687	687	--	--
Max	693	693	693	692	692	692	692	692	693	693	693	692	692	691	691	691	691	691	691	692	692	692	693	693	--	693	--
Min	677	678	678	678	678	678	678	678	679	680	680	681	681	681	681	681	681	681	681	681	681	682	682	683	--	--	677

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Mar 2016

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

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_20m"
Month: Jan 2016

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	3.3	3.8	2.1	1.0	1.2	2.7	3.2	3.6	4.0	5.1	5.5	4.6	4.6	4.7	4.7	3.7	4.2	5.1	5.0	4.7	4.9	4.7	5.2	5.3	4.0	5.5	1.0
2	6.0	7.7	8.0	6.5	4.7	5.4	5.8	6.3	6.5	7.1	7.8	7.8	6.5	6.7	5.7	5.8	5.0	4.8	3.2	5.0	3.9	2.7	3.1	4.2	5.7	8.0	2.7
3	5.0	4.2	2.8	3.1	4.5	4.7	4.7	4.9	4.8	5.9	6.2	6.6	6.5	6.1	6.1	5.9	4.9	5.3	4.7	5.2	5.8	6.4	6.1	5.9	5.3	6.6	2.8
4	7.4	7.0	6.8	7.6	7.8	5.8	5.6	6.5	5.8	5.3	4.7	3.6	3.7	2.4	2.3	2.7	5.1	3.6	3.1	4.3	3.9	4.4	3.3	3.4	4.8	7.8	2.3
5	3.3	2.7	2.9	2.7	1.6	2.8	3.2	3.0	3.2	3.2	3.4	2.3	2.5	2.2	2.8	2.1	1.5	0.5	0.8	1.9	2.0	4.0	2.5	2.0	2.5	4.0	0.5
6	1.3	1.1	1.5	2.1	2.9	4.4	0.7	0.7	2.5	2.9	3.7	4.3	4.0	5.9	4.7	3.9	2.8	0.9	1.2	1.3	1.4	1.5	1.4	1.2	2.4	5.9	0.7
7	1.8	1.4	1.4	0.9	1.1	1.8	1.0	3.6	3.5	3.9	4.0	4.0	5.5	1.6	2.7	1.6	2.6	4.4	3.1	2.4	1.2	0.7	0.9	0.9	2.3	5.5	0.7
8	0.9	0.9	2.1	3.4	3.2	1.6	0.8	1.8	2.5	3.2	2.8	2.6	2.6	1.7	2.7	2.1	1.2	1.4	1.3	0.9	1.0	0.8	1.6	0.5	1.8	3.4	0.5
9	0.6	0.3	0.6	0.8	0.5	1.3	1.4	1.2	1.0	0.4	0.5	1.2	2.0	2.4	3.1	3.1	2.5	1.8	0.7	1.5	1.1	1.7	1.4	1.4	1.4	3.1	0.3
10	1.3	1.3	1.4	1.2	1.3	1.2	1.5	2.4	2.7	2.3	2.7	2.2	1.1	2.1	3.1	2.2	2.1	1.8	1.8	0.7	1.4	1.0	1.3	1.3	1.7	3.1	0.7
11	1.1	1.5	1.9	2.3	3.6	2.6	3.2	4.5	5.4	5.4	6.9	6.5	4.9	4.0	2.8	1.6	1.2	2.4	1.3	2.7	2.5	2.1	2.3	2.2	3.1	6.9	1.1
12	3.1	4.1	3.6	2.5	2.3	3.7	3.2	4.2	3.1	4.1	5.9	6.9	6.6	5.4	5.4	4.4	5.5	3.4	3.9	1.3	1.5	2.5	3.3	2.5	3.9	6.9	1.3
13	2.5	2.6	3.4	4.0	4.0	4.0	5.4	5.3	5.3	4.7	4.1	2.8	3.3	4.5	3.4	1.7	1.0	1.8	1.7	1.9	1.8	1.6	1.7	1.7	3.1	5.4	1.0
14	1.5	1.1	1.4	1.3	1.6	1.6	1.8	1.4	1.2	0.9	0.7	1.5	2.9	3.2	2.7	2.6	2.5	1.6	1.1	1.8	1.6	1.8	1.4	1.8	1.7	3.2	0.7
15	1.4	1.5	1.4	1.5	1.6	1.4	1.1	1.7	1.5	0.7	0.5	0.4	1.9	2.5	2.3	3.4	2.6	2.1	0.9	1.6	1.7	1.5	1.2	1.8	1.6	3.4	0.4
16	1.5	1.9	1.4	1.3	1.2	1.8	1.2	1.4	1.3	0.9	1.5	1.2	3.3	3.6	3.1	2.2	2.0	0.9	1.0	0.4	1.2	0.6	1.7	1.5	1.6	3.6	0.4
17	0.9	1.6	1.2	1.5	1.3	1.7	1.5	1.5	1.2	0.9	0.3	2.1	3.8	3.7	3.1	2.8	2.5	0.8	1.3	2.3	1.3	1.8	1.3	1.8	1.8	3.8	0.3
18	1.6	2.1	1.8	1.5	1.4	1.6	2.1	1.6	2.5	1.1	2.9	3.4	2.0	2.1	1.5	0.8	1.0	1.8	1.8	1.5	1.8	1.8	1.5	1.8	1.8	3.4	0.8
19	2.0	1.2	1.9	1.5	1.7	1.6	1.1	1.3	1.6	1.8	2.0	2.8	2.3	3.2	4.1	2.9	2.3	1.5	0.9	2.1	2.4	0.9	1.0	4.1	2.0	4.1	0.9
20	2.0	1.6	1.5	1.5	1.6	1.8	1.7	1.6	1.2	0.5	0.7	2.1	3.7	3.5	3.8	3.3	4.2	3.2	0.7	1.6	1.4	1.4	1.7	1.5	2.0	4.2	0.5
21	1.8	1.6	1.4	1.8	1.8	1.3	1.6	1.4	3.4	4.9	6.9	6.7	5.9	4.9	3.9	4.4	4.3	3.2	1.6	1.8	3.0	3.1	3.7	2.7	3.2	6.9	1.3
22	2.9	2.9	3.1	3.0	3.0	3.0	3.7	3.7	3.5	5.4	5.9	5.9	5.6	4.7	4.0	3.3	3.4	2.7	3.0	3.6	3.6	3.0	2.8	3.2	3.7	5.9	2.7
23	3.4	3.5	4.0	4.0	4.2	4.3	4.4	4.4	3.9	3.5	3.4	3.5	3.7	2.9	1.5	1.1	2.3	2.0	1.4	1.6	1.3	1.5	1.8	1.4	2.9	4.4	1.1
24	1.5	1.4	1.2	2.1	1.5	1.5	1.5	1.6	0.9	0.3	1.9	2.5	3.2	3.7	3.7	3.9	3.5	2.2	0.4	2.4	1.7	1.6	1.3	1.6	2.0	3.9	0.3
25	1.4	1.5	1.5	1.4	1.1	1.2	1.2	1.5	0.9	1.1	1.4	2.3	3.4	3.3	2.8	2.9	3.0	2.6	0.9	1.9	1.8	1.1	3.0	6.5	2.1	6.5	0.9
26	5.6	4.5	3.0	2.0	2.0	4.2	4.2	3.2	3.8	--	--	--	4.2	3.6	5.1	4.3	4.2	2.3	1.1	1.0	3.0	3.7	2.6	2.3	3.3	5.6	1.0
27	4.6	5.9	4.5	2.6	3.0	1.8	2.9	3.1	3.1	3.7	6.2	5.6	4.3	2.4	2.0	2.8	3.8	1.6	1.8	1.9	1.7	1.8	2.1	1.8	3.1	6.2	1.6
28	2.4	3.2	4.1	5.0	5.4	4.0	4.0	2.9	4.3	4.1	3.9	2.8	3.0	3.2	3.1	2.3	1.6	1.6	1.5	2.4	1.6	1.6	2.2	1.4	3.0	5.4	1.4
29	1.9	1.8	1.8	0.9	1.3	1.3	1.7	1.4	1.8	0.5	0.6	1.5	3.8	3.2	3.3	2.9	1.4	0.3	1.7	1.7	1.6	1.8	1.4	1.5	1.7	3.8	0.3
30	1.8	1.3	1.9	1.5	2.1	1.8	1.5	1.8	1.3	0.5	0.8	3.1	3.2	4.2	3.4	3.3	1.7	1.5	1.7	1.9	1.7	1.2	1.6	1.2	1.9	4.2	0.5
31	1.2	2.1	1.7	1.6	1.7	1.6	1.8	1.6	1.1	0.3	1.3	2.6	2.8	3.6	2.4	1.3	3.0	5.3	6.0	4.9	4.7	4.7	6.6	7.7	3.0	7.7	0.3
Avg	2.5	2.6	2.5	2.4	2.5	2.6	2.5	2.7	2.9	2.8	3.3	3.5	3.8	3.6	3.4	2.9	2.9	2.4	2.0	2.3	2.2	2.2	2.4	2.5	2.7	--	--
Max	7.4	7.7	8.0	7.6	7.8	5.8	5.8	6.5	6.5	7.1	7.8	7.8	6.6	6.7	6.1	5.9	5.5	5.3	6.0	5.2	5.8	6.4	6.6	7.7	--	8.0	--
Min	0.6	0.3	0.6	0.8	0.5	1.2	0.7	0.7	0.9	0.3	0.3	0.4	1.1	1.6	1.5	0.8	1.0	0.3	0.4	0.4	1.0	0.6	0.9	0.5	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_20m"
Month: Feb 2016

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	8.5	5.6	6.2	5.1	4.1	3.0	3.4	5.5	5.6	5.2	3.2	2.9	4.8	3.5	3.6	4.0	1.9	1.3	1.8	1.5	0.7	0.8	1.8	2.3	3.6	8.5	0.7
2	2.0	1.0	1.3	1.7	1.5	1.3	0.8	1.2	1.6	0.6	1.1	3.1	3.6	3.3	3.4	3.5	3.8	4.1	2.4	2.2	1.4	1.6	1.4	1.4	2.0	4.1	0.6
3	1.3	1.4	1.2	1.2	1.2	1.1	2.2	3.4	2.7	4.3	4.9	3.3	2.4	2.2	2.1	2.4	3.3	2.4	1.5	2.3	2.9	2.7	5.0	5.2	2.6	5.2	1.1
4	4.4	3.6	6.0	4.3	3.0	3.6	2.5	2.7	4.8	5.6	4.8	4.8	5.7	4.9	3.9	2.9	2.7	2.6	1.2	1.3	1.9	3.4	3.1	2.7	3.6	6.0	1.2
5	2.1	3.9	4.8	4.3	3.9	4.7	5.9	3.9	3.9	2.7	5.1	6.6	7.9	5.6	4.8	4.4	4.6	4.0	3.1	3.2	2.3	4.1	4.2	5.4	4.4	7.9	2.1
6	4.5	4.9	5.2	5.7	6.5	6.5	6.5	7.0	6.3	6.0	6.1	6.0	6.1	5.5	5.6	5.0	3.9	3.4	2.3	2.7	2.8	3.8	3.6	3.6	5.0	7.0	2.3
7	3.3	2.9	3.2	3.5	4.2	4.1	4.3	4.3	5.1	4.3	5.6	6.0	5.3	5.8	5.0	6.0	4.9	4.4	2.8	2.7	3.0	3.7	4.1	4.5	4.3	6.0	2.7
8	6.2	6.8	6.5	3.9	5.7	5.7	3.1	6.1	8.9	8.4	6.7	5.9	5.8	5.6	5.9	4.1	3.9	3.2	1.9	2.3	3.7	2.6	3.7	4.4	5.0	8.9	1.9
9	5.1	7.5	3.5	3.7	4.9	6.4	6.0	8.3	5.6	6.9	6.3	5.4	5.8	4.6	4.9	4.6	3.6	3.2	0.9	1.5	1.8	2.4	2.9	3.7	4.6	8.3	0.9
10	3.7	4.1	5.2	2.6	3.4	3.2	2.9	2.8	3.4	4.3	4.8	5.1	5.5	3.7	2.6	1.5	1.5	2.3	1.5	2.0	2.0	1.7	1.9	1.9	3.1	5.5	1.5
11	1.5	1.4	2.0	2.0	1.4	0.9	1.2	2.5	2.8	2.9	1.3	3.5	3.6	3.9	4.0	3.0	2.6	2.0	1.3	2.2	1.6	1.7	1.8	2.1	2.2	4.0	0.9
12	2.5	4.2	4.7	3.7	2.5	2.5	5.4	4.0	5.0	3.1	3.3	3.4	3.2	2.5	2.4	2.9	2.4	1.8	1.7	2.1	2.1	2.2	2.1	1.4	3.0	5.4	1.4
13	1.5	1.7	2.8	2.6	2.3	1.7	1.9	2.5	3.1	2.8	3.8	2.6	4.2	4.0	2.7	2.1	3.2	2.6	1.3	2.7	1.7	1.8	1.8	1.5	2.5	4.2	1.3
14	1.8	1.6	1.8	1.8	1.4	1.9	1.8	1.7	1.8	1.6	3.1	3.8	2.6	3.4	4.5	3.8	4.1	2.9	0.8	1.5	2.1	1.5	2.0	1.7	2.3	4.5	0.8
15	1.7	1.1	1.0	0.8	4.9	3.5	2.3	2.9	3.6	3.5	5.1	6.1	5.9	3.4	3.7	4.1	3.9	3.4	1.3	2.0	1.7	1.8	2.5	3.4	3.1	6.1	0.8
16	3.9	2.4	2.8	4.4	6.5	6.5	4.6	4.1	4.5	3.4	2.9	2.1	1.4	1.8	2.6	3.0	2.8	1.8	1.8	2.1	2.3	2.3	1.4	1.2	3.0	6.5	1.2
17	1.5	1.8	1.5	1.6	0.7	1.6	2.1	1.7	2.1	2.3	3.5	3.7	3.2	2.0	3.2	2.8	2.5	2.1	1.7	2.1	1.6	1.7	2.0	1.3	2.1	3.7	0.7
18	1.6	1.3	1.8	1.8	2.0	1.7	2.0	1.8	1.2	1.3	3.0	2.3	2.2	3.1	2.6	3.2	2.5	1.4	1.9	1.8	1.8	1.9	2.0	1.7	2.0	3.2	1.2
19	1.9	1.6	1.8	1.7	1.8	1.3	1.2	1.7	1.1	0.8	1.4	2.3	2.6	2.3	2.1	1.7	2.7	1.7	0.8	2.2	1.9	1.6	1.8	1.5	1.7	2.7	0.8
20	1.7	1.7	1.7	1.6	1.7	1.6	1.7	1.5	1.6	0.6	1.2	3.2	3.6	3.1	3.6	3.5	3.9	3.7	1.5	1.9	1.9	1.8	1.8	1.9	2.2	3.9	0.6
21	1.6	1.9	1.8	1.6	1.8	1.7	2.0	1.4	1.4	0.8	2.1	3.9	3.3	2.7	3.3	3.5	3.5	3.4	2.3	1.9	2.0	1.9	1.9	1.6	2.2	3.9	0.8
22	1.7	1.8	1.6	1.8	1.7	1.8	1.3	2.0	1.7	0.8	2.5	2.8	4.3	5.2	5.4	5.5	5.2	6.3	5.1	4.1	3.1	4.1	1.8	1.9	3.1	6.3	0.8
23	1.9	2.3	2.0	2.0	2.0	2.2	2.1	3.1	2.8	4.8	4.4	2.6	3.1	2.3	2.1	1.0	2.3	1.9	1.4	1.5	0.8	2.8	1.9	2.7	2.3	4.8	0.8
24	3.6	3.2	3.2	5.0	4.4	5.3	6.1	5.7	6.9	7.7	8.1	7.5	6.2	4.6	4.0	3.3	3.6	4.1	2.6	1.2	2.1	2.1	2.1	2.8	4.4	8.1	1.2
25	3.1	3.4	3.4	3.9	3.9	4.7	4.5	4.8	3.7	2.3	3.0	3.2	2.5	2.4	1.9	1.7	1.4	1.0	1.8	1.6	2.0	1.7	1.5	1.6	2.7	4.8	1.0
26	2.1	3.2	3.5	3.8	3.6	2.9	3.1	3.2	3.4	6.0	6.5	5.4	3.6	2.1	1.5	1.4	1.2	1.4	1.5	2.1	2.5	1.9	1.6	1.1	2.9	6.5	1.1
27	0.9	1.3	1.6	0.8	1.9	1.9	1.8	2.5	3.0	2.4	2.4	1.5	3.4	3.3	3.0	2.8	3.5	3.2	1.2	2.3	2.4	1.9	1.4	1.7	2.2	3.5	0.8
28	1.9	1.7	1.8	1.5	1.8	1.7	1.9	1.5	1.1	0.7	0.6	2.0	3.5	3.2	2.9	3.4	3.2	3.2	1.5	1.9	2.1	1.8	1.6	1.5	2.0	3.5	0.6
29	1.6	1.5	1.6	1.6	1.8	1.6	1.8	1.6	1.1	1.0	0.9	2.1	2.5	3.0	3.3	3.8	3.4	3.5	1.9	2.0	2.3	2.0	2.1	1.6	2.1	3.8	0.9
Avg	2.7	2.8	3.0	2.8	3.0	3.0	3.0	3.3	3.4	3.4	3.7	3.9	4.1	3.5	3.5	3.3	3.2	2.8	1.8	2.1	2.1	2.3	2.3	2.4	3.0	--	--
Max	8.5	7.5	6.5	5.7	6.5	6.5	6.5	8.3	8.9	8.4	8.1	7.5	7.9	5.8	5.9	6.0	5.2	6.3	5.1	4.1	3.7	4.1	5.0	5.4	--	8.9	--
Min	0.9	1.0	1.0	0.8	0.7	0.9	0.8	1.2	1.1	0.6	0.6	1.5	1.4	1.8	1.5	1.0	1.2	1.0	0.8	1.2	0.7	0.8	1.4	1.1	--	--	0.6

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_20m"
Month: Mar 2016

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	1.9	1.9	1.7	1.6	1.7	1.6	1.7	1.8	1.4	0.9	1.0	2.5	2.6	3.4	3.3	3.0	3.2	3.4	1.3	2.2	1.9	1.8	1.9	1.7	2.1	3.4	0.9
2	2.0	1.7	1.8	1.7	1.6	1.7	1.8	1.8	0.9	0.3	0.6	2.3	3.2	3.5	4.2	4.7	4.5	3.2	1.2	2.1	1.9	1.8	1.9	1.9	2.2	4.7	0.3
3	1.8	1.8	1.8	1.5	1.5	1.8	1.4	0.8	1.5	2.4	2.9	2.1	2.1	2.2	3.0	1.8	2.5	3.3	1.3	2.1	2.2	1.6	1.9	1.9	2.0	3.3	0.8
4	1.7	1.9	1.7	1.6	1.6	1.6	1.6	1.1	1.7	2.6	2.6	2.4	2.7	1.9	3.0	3.8	3.1	1.5	1.3	1.7	1.6	1.7	2.0	1.5	2.0	3.8	1.1
5	1.6	1.5	1.6	1.5	1.7	1.9	1.3	1.6	0.7	0.9	3.1	3.1	3.0	3.8	2.8	3.2	2.0	0.6	0.9	0.7	1.9	2.1	1.5	1.2	1.8	3.8	0.6
6	1.5	1.4	1.6	0.9	1.3	1.3	1.6	0.7	1.1	0.6	2.8	2.9	3.6	4.3	4.0	4.2	3.9	4.5	4.3	2.3	1.5	3.3	4.3	3.0	2.5	4.5	0.6
7	3.1	2.8	0.7	1.1	1.7	1.5	1.3	1.2	0.3	0.7	2.5	3.4	4.1	4.3	4.0	3.7	3.4	5.7	5.7	2.3	1.1	1.1	1.3	3.0	2.5	5.7	0.3
8	1.2	4.6	2.7	0.8	1.0	1.1	0.8	1.8	0.9	2.4	4.1	4.3	4.6	4.5	4.8	4.2	4.1	4.0	3.8	0.9	1.5	2.4	1.8	1.9	2.7	4.8	0.8
9	1.9	1.3	1.6	1.9	2.1	1.5	1.6	0.8	0.9	1.9	1.7	3.9	4.3	4.4	4.8	4.1	4.5	4.6	3.3	1.3	2.3	2.0	2.1	1.6	2.5	4.8	0.8
10	1.6	1.7	2.0	1.5	1.3	1.2	3.8	1.8	4.8	5.0	3.1	3.8	2.9	2.5	2.7	2.8	4.1	3.2	2.1	1.3	2.4	2.3	1.8	1.7	2.5	5.0	1.2
11	1.6	1.1	1.5	0.7	1.5	2.4	2.9	2.4	2.4	4.4	3.8	4.7	4.0	2.8	4.1	3.6	3.0	4.5	3.4	1.0	1.4	3.9	2.4	2.9	2.8	4.7	0.7
12	4.6	5.4	5.5	4.5	4.3	4.0	3.4	4.2	3.7	4.1	3.8	3.9	4.2	4.3	4.8	4.8	3.9	4.1	2.1	1.1	2.1	1.8	1.6	1.7	3.7	5.5	1.1
13	2.0	1.6	--	1.7	2.0	1.2	1.5	1.4	2.3	2.1	1.2	3.1	3.2	3.2	3.4	3.2	3.4	3.2	2.2	1.0	2.2	1.8	1.4	1.5	2.2	3.4	1.0
14	1.4	1.7	1.7	1.6	1.6	1.8	1.7	1.7	1.0	0.9	2.4	3.1	2.9	3.0	3.0	3.7	3.1	3.4	3.3	1.2	1.7	1.5	1.9	1.5	2.1	3.7	0.9
15	1.9	1.7	1.6	1.4	1.7	2.0	1.2	0.9	0.8	1.1	2.6	3.3	2.8	2.3	3.2	4.1	3.5	3.6	3.3	1.1	2.0	1.8	1.6	1.8	2.1	4.1	0.8
16	1.5	1.8	1.7	1.5	1.7	1.1	0.9	0.6	2.5	5.2	5.9	3.2	2.1	2.2	3.2	4.1	3.9	3.6	3.2	1.3	2.4	2.0	2.1	1.9	2.5	5.9	0.6
17	1.9	1.8	1.5	1.2	1.0	1.0	2.1	0.8	0.7	1.2	1.2	2.2	3.4	3.6	3.6	3.4	4.0	3.7	2.0	0.6	2.5	1.8	1.9	1.9	2.0	4.0	0.6
18	1.8	1.9	1.7	1.7	2.1	1.3	1.8	1.4	1.0	0.4	1.3	2.8	3.6	3.7	4.1	4.0	4.6	4.2	2.2	1.2	2.2	1.6	1.5	1.5	2.2	4.6	0.4
19	1.5	1.5	1.6	1.4	1.8	1.8	1.8	1.5	0.7	0.7	1.4	3.3	3.3	3.1	3.5	3.8	4.1	4.1	2.6	1.4	2.5	1.9	1.9	2.1	2.2	4.1	0.7
20	1.9	1.6	1.9	1.5	1.4	1.6	1.3	2.2	3.7	4.7	4.0	5.0	4.0	2.3	1.7	2.6	1.6	2.1	1.5	1.7	2.1	2.0	1.8	2.6	2.4	5.0	1.3
21	2.1	1.7	2.0	2.1	2.6	3.3	3.3	3.2	3.7	3.2	2.7	2.1	1.8	2.9	4.1	4.5	4.5	3.1	1.8	1.1	2.5	1.8	1.5	1.4	2.6	4.5	1.1
22	1.5	2.1	1.6	1.7	1.4	1.0	1.3	0.9	1.5	5.4	6.0	5.6	7.1	6.8	8.0	8.2	8.5	8.6	6.1	5.0	4.5	4.7	3.8	1.7	4.3	8.6	0.9
23	2.0	0.4	1.6	1.5	2.0	2.2	1.7	1.0	2.3	3.4	4.9	5.1	4.6	4.6	3.9	3.8	4.8	4.6	4.0	2.0	1.7	2.2	1.9	1.7	2.8	5.1	0.4
24	1.7	2.0	1.6	4.1	3.4	2.7	3.6	3.2	3.8	4.3	3.4	1.9	1.7	3.0	3.8	4.1	4.9	4.5	3.3	1.2	2.2	1.9	1.9	1.7	2.9	4.9	1.2
25	1.5	1.8	1.8	1.5	1.5	1.6	1.7	1.5	1.2	1.2	3.0	4.0	3.7	3.7	4.3	5.0	4.9	3.5	2.2	1.4	1.7	2.1	2.0	1.6	2.4	5.0	1.2
26	2.1	1.5	1.6	1.7	1.8	1.6	1.8	1.4	0.4	1.4	3.6	3.7	4.2	4.7	5.1	5.7	4.8	4.3	3.0	1.3	2.4	1.8	1.7	1.9	2.6	5.7	0.4
27	2.0	3.7	4.0	4.5	4.8	3.9	3.9	3.5	3.0	2.7	2.0	3.1	3.1	3.1	4.2	4.1	3.8	3.3	1.5	1.6	1.8	1.6	1.7	1.5	3.0	4.8	1.5
28	1.4	1.8	1.5	1.6	1.5	1.9	1.3	1.2	3.1	4.5	4.9	5.1	5.6	5.4	6.4	6.2	6.7	6.6	6.7	5.8	5.5	5.9	4.5	5.6	4.2	6.7	1.2
29	4.5	3.4	3.1	3.6	4.0	4.3	4.7	4.1	4.8	5.1	5.8	3.3	2.4	1.3	2.7	3.4	3.7	4.2	3.3	2.4	1.8	1.2	0.9	0.5	3.3	5.8	0.5
30	0.4	1.1	2.0	2.9	1.7	0.5	0.8	1.4	1.7	2.2	2.5	3.2	3.8	3.1	3.4	3.0	3.0	2.3	2.9	2.0	1.2	1.7	1.9	1.6	2.1	3.8	0.4
31	1.8	2.0	1.5	1.2	1.3	1.3	1.4	1.2	1.4	3.7	3.4	3.4	3.7	3.2	2.4	2.0	2.9	3.3	2.9	2.6	1.3	1.6	1.5	1.5	2.2	3.7	1.2
Avg	1.9	2.0	1.9	1.9	2.0	1.9	2.0	1.7	1.9	2.6	3.0	3.4	3.5	3.5	3.9	4.0	4.0	3.8	2.9	1.8	2.1	2.1	2.0	1.9	2.6	--	--
Max	4.6	5.4	5.5	4.5	4.8	4.3	4.7	4.2	4.8	5.4	6.0	5.6	7.1	6.8	8.0	8.2	8.5	8.6	6.7	5.8	5.5	5.9	4.5	5.6	--	8.6	--
Min	0.4	0.4	0.7	0.7	1.0	0.5	0.8	0.6	0.3	0.3	0.6	1.9	1.7	1.3	1.7	1.8	1.6	0.6	0.9	0.6	1.1	1.1	0.9	0.5	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_10m"
Month: Jan 2016

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	2.2	3.0	1.6	0.6	0.8	1.9	2.6	2.7	3.1	4.1	4.4	3.8	3.6	3.7	3.8	3.0	3.4	4.0	3.9	3.7	3.8	3.7	4.1	4.2	3.2	4.4	0.6
2	4.7	6.1	6.3	5.1	3.8	4.3	4.6	5.0	5.3	5.7	6.0	6.3	5.2	5.2	4.5	4.5	3.9	3.6	2.3	3.8	2.9	2.0	2.3	3.2	4.4	6.3	2.0
3	3.8	3.3	2.1	2.3	3.5	3.7	3.7	3.8	3.8	4.8	5.0	5.3	5.3	5.0	4.9	4.7	3.8	4.0	3.5	4.1	4.6	5.0	4.9	4.6	4.2	5.3	2.1
4	5.7	5.5	5.3	6.0	6.1	4.6	4.4	5.0	4.5	4.3	3.5	2.8	3.0	2.0	1.8	2.2	3.9	2.6	2.4	3.1	2.9	3.3	2.6	2.6	3.8	6.1	1.8
5	2.6	2.1	2.0	1.9	1.1	2.1	2.3	2.3	2.4	2.4	2.7	1.9	2.1	1.8	2.3	1.7	1.1	0.4	0.6	1.4	1.6	3.2	1.8	1.5	1.9	3.2	0.4
6	0.9	0.9	1.2	1.6	2.3	3.6	0.6	0.6	2.0	2.4	3.2	3.7	3.6	5.1	4.0	3.2	2.4	0.6	0.9	0.9	0.6	1.1	1.1	0.8	2.0	5.1	0.6
7	1.1	1.1	1.2	0.7	0.9	1.3	0.8	3.1	2.7	3.1	3.3	3.3	4.6	1.4	2.2	1.2	2.1	3.3	2.4	1.9	1.0	0.6	0.7	0.7	1.9	4.6	0.6
8	0.8	0.9	1.7	2.9	2.6	1.3	0.6	1.4	2.1	2.8	2.4	2.2	2.3	1.5	2.4	1.8	1.0	1.1	0.9	0.4	0.7	0.6	1.0	0.3	1.5	2.9	0.3
9	0.4	0.3	0.5	0.6	0.3	0.7	0.8	0.9	0.7	0.3	0.6	1.1	1.9	2.2	2.8	2.8	2.2	1.3	0.4	1.1	0.7	0.9	0.8	1.0	1.1	2.8	0.3
10	0.9	0.7	1.0	0.9	0.9	0.8	0.8	1.5	1.9	1.8	2.2	1.8	1.0	1.9	2.7	1.9	1.8	1.3	1.2	0.4	1.0	0.7	0.8	0.9	1.3	2.7	0.4
11	0.7	1.2	1.4	1.8	2.8	2.3	2.5	3.4	4.2	4.2	5.4	4.9	3.9	3.3	2.5	1.5	1.0	1.8	0.9	1.7	2.0	1.8	1.3	1.6	2.4	5.4	0.7
12	2.4	3.1	2.6	1.5	1.4	2.4	2.0	3.0	2.5	3.3	4.7	5.4	5.2	4.3	4.2	3.5	4.4	2.6	2.6	1.0	1.0	1.9	2.4	1.9	2.9	5.4	1.0
13	1.8	1.5	2.2	3.0	3.0	3.0	4.0	3.8	4.0	3.8	3.3	2.3	2.9	3.9	3.0	1.6	0.9	1.2	1.0	0.8	1.0	1.1	1.4	1.1	2.3	4.0	0.8
14	1.1	1.0	1.1	1.2	0.9	1.1	1.2	1.0	0.8	0.8	0.7	1.4	2.6	2.9	2.5	2.3	2.1	0.8	0.7	1.2	1.2	1.2	1.0	1.3	1.3	2.9	0.7
15	0.9	1.2	1.1	1.2	1.1	0.9	0.6	1.1	1.2	0.7	0.4	0.4	1.8	2.2	2.0	2.8	2.0	1.5	0.6	0.9	1.0	0.8	1.0	1.3	1.2	2.8	0.4
16	1.1	1.3	1.0	1.0	0.6	1.1	0.8	0.9	1.0	0.8	1.2	1.2	3.0	3.2	2.8	1.9	1.8	0.6	0.7	0.6	1.0	0.5	1.0	1.0	1.3	3.2	0.5
17	0.8	1.3	0.9	1.0	0.9	1.0	1.2	1.0	1.0	0.8	0.3	2.0	3.4	3.4	2.8	2.6	2.2	0.6	0.7	1.3	1.0	1.2	1.0	1.2	1.4	3.4	0.3
18	1.3	1.5	1.4	0.8	0.8	0.9	1.0	0.5	1.6	0.9	2.3	2.8	1.7	1.7	1.3	0.7	0.7	1.2	1.2	1.2	1.1	1.0	0.9	1.3	1.2	2.8	0.5
19	1.1	0.8	1.2	1.0	1.2	1.2	0.6	0.8	1.1	1.4	1.6	2.4	2.1	3.0	3.6	2.6	2.0	1.0	0.7	1.6	1.6	0.7	1.0	3.0	1.6	3.6	0.6
20	1.5	1.1	1.0	1.1	1.1	1.2	1.1	1.1	0.9	0.5	0.6	2.0	3.3	3.2	3.4	2.9	3.6	2.5	0.4	1.2	1.0	1.0	1.1	1.0	1.6	3.6	0.4
21	1.1	1.1	0.9	1.2	0.7	0.9	0.9	0.8	2.6	3.9	5.6	5.5	4.8	4.0	3.2	3.5	3.4	2.2	0.9	1.2	2.1	2.5	2.9	2.0	2.4	5.6	0.7
22	2.2	2.1	2.3	2.2	2.2	2.3	2.8	3.0	2.8	4.3	4.7	4.7	4.5	3.8	3.3	2.7	2.7	2.0	2.2	2.5	2.6	2.4	1.6	2.6	2.9	4.7	1.6
23	2.7	2.8	3.1	3.0	3.0	2.8	3.0	3.3	2.4	2.7	2.8	2.9	3.0	2.4	1.3	1.0	1.9	1.2	0.8	1.1	0.8	0.9	1.1	0.9	2.1	3.3	0.8
24	0.9	1.0	0.8	1.6	1.1	1.0	1.1	1.1	0.7	0.3	1.7	2.2	2.9	3.4	3.4	3.4	3.0	1.5	0.4	1.5	0.9	1.0	0.9	1.1	1.5	3.4	0.3
25	1.0	1.0	1.2	1.1	0.7	1.0	0.9	0.9	0.6	1.0	1.3	2.1	3.0	3.0	2.5	2.6	2.6	1.9	0.7	1.4	1.3	0.7	2.2	5.1	1.7	5.1	0.6
26	4.3	3.5	2.5	1.6	1.7	3.3	3.5	2.8	3.2	--	--	--	3.4	3.0	4.2	3.6	3.5	1.8	0.7	0.9	2.5	2.8	2.0	1.9	2.7	4.3	0.7
27	3.7	4.7	3.6	2.0	2.4	1.7	2.4	2.3	2.5	3.0	4.9	4.5	3.4	2.1	1.7	2.5	3.2	1.0	1.2	1.1	1.1	1.2	1.3	1.1	2.4	4.9	1.0
28	1.2	1.7	2.5	3.5	3.8	2.5	2.7	2.1	3.1	3.1	3.1	2.3	2.7	2.9	2.7	2.2	1.5	1.1	0.8	1.5	1.0	0.8	1.6	0.9	2.1	3.8	0.8
29	1.3	1.0	1.0	0.7	1.0	1.3	1.0	0.8	1.3	0.4	0.6	1.5	3.5	2.9	3.0	2.6	1.1	0.2	0.9	0.9	1.0	1.2	1.0	1.1	1.3	3.5	0.2
30	1.3	0.8	1.7	1.3	1.3	1.3	1.3	1.2	1.1	0.3	0.8	2.7	2.9	3.7	3.0	2.9	1.5	1.0	1.2	1.1	1.2	0.9	1.0	0.8	1.5	3.7	0.3
31	0.7	1.1	0.7	1.0	1.0	1.0	1.1	0.8	0.8	0.3	1.2	2.4	2.4	3.0	2.1	1.2	2.6	4.4	5.1	4.2	4.0	3.9	5.6	6.6	2.4	6.6	0.3
Avg	1.8	1.9	1.8	1.8	1.8	1.9	1.8	2.0	2.2	2.3	2.7	2.9	3.2	3.1	2.9	2.5	2.4	1.8	1.4	1.6	1.6	1.6	1.7	1.9	2.1	--	--
Max	5.7	6.1	6.3	6.0	6.1	4.6	4.6	5.0	5.3	5.7	6.0	6.3	5.3	5.2	4.9	4.7	4.4	4.4	5.1	4.2	4.6	5.0	5.6	6.6	--	6.6	--
Min	0.4	0.3	0.5	0.6	0.3	0.7	0.6	0.5	0.6	0.3	0.3	0.4	1.0	1.4	1.3	0.7	0.7	0.2	0.4	0.4	0.6	0.5	0.7	0.3	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_10m"
Month: Feb 2016

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	7.2	4.7	5.2	4.2	3.3	2.3	2.8	4.6	4.7	4.4	2.6	2.2	3.9	2.9	3.0	3.2	1.5	0.9	1.3	1.0	0.4	0.7	1.3	1.3	2.9	7.2	0.4
2	1.1	0.8	1.0	1.2	0.9	0.8	0.5	0.7	1.2	0.6	1.0	2.8	3.2	2.9	3.1	3.1	3.3	3.3	1.9	1.5	0.9	1.0	0.9	1.1	1.6	3.3	0.5
3	0.9	0.8	0.9	1.0	1.0	0.8	1.3	2.5	2.1	3.5	4.0	2.8	2.1	2.0	1.9	2.2	2.9	1.8	0.9	1.4	2.1	2.0	3.8	4.0	2.0	4.0	0.8
4	3.4	2.8	4.7	3.4	2.5	2.9	2.1	2.3	3.9	4.6	3.8	3.9	4.5	4.0	3.2	2.5	2.2	2.0	0.7	1.0	1.4	2.6	2.4	2.1	2.9	4.7	0.7
5	1.8	3.4	3.9	3.4	3.2	3.9	4.8	3.2	3.4	2.3	4.3	5.4	6.3	4.5	3.9	3.6	3.7	3.0	2.1	2.3	1.6	3.1	3.2	4.3	3.5	6.3	1.6
6	3.5	3.9	4.2	4.6	5.3	5.2	5.1	5.6	5.1	4.9	5.0	4.8	4.9	4.5	4.5	4.1	3.1	2.6	1.7	1.6	2.0	2.9	2.9	3.0	4.0	5.6	1.6
7	2.6	2.3	2.3	2.8	3.5	3.4	3.5	3.5	4.2	3.5	4.6	4.7	4.2	4.8	4.0	4.8	3.8	3.3	2.1	2.2	2.3	3.1	3.3	3.7	3.4	4.8	2.1
8	4.9	5.4	5.2	3.2	4.4	4.3	2.4	4.7	7.1	6.5	5.5	4.8	4.7	4.6	4.7	3.4	3.2	2.4	1.4	1.8	2.7	2.1	2.9	3.6	4.0	7.1	1.4
9	3.9	5.7	2.7	2.8	3.7	5.1	4.8	6.5	4.3	5.5	5.1	4.3	4.7	3.7	3.9	3.8	2.8	2.5	0.6	1.1	1.2	1.6	2.1	2.6	3.5	6.5	0.6
10	2.8	3.2	4.0	2.0	2.8	2.3	2.3	2.4	2.6	3.5	4.0	4.2	4.5	3.1	2.3	1.3	1.3	1.6	0.9	1.3	1.4	1.2	1.2	1.1	2.4	4.5	0.9
11	0.8	0.7	1.2	1.2	0.9	0.4	0.4	1.2	2.1	2.2	1.2	3.2	3.2	3.6	3.6	2.8	2.3	1.5	0.9	1.6	1.3	1.3	1.2	1.5	1.7	3.6	0.4
12	1.6	3.1	3.1	2.7	2.1	1.7	3.4	2.9	3.4	2.3	2.7	2.9	2.8	2.2	2.2	2.6	2.2	1.4	1.2	1.1	1.5	1.3	1.2	0.7	2.2	3.4	0.7
13	0.8	0.8	1.6	1.4	1.4	1.3	1.0	1.2	1.8	2.3	3.1	2.3	3.8	3.6	2.5	2.0	2.8	1.9	0.8	1.6	0.9	1.2	1.4	1.1	1.8	3.8	0.8
14	1.2	1.2	1.4	1.4	0.9	1.7	1.2	1.4	1.2	1.2	2.9	3.4	2.4	3.1	4.0	3.3	3.5	2.1	0.5	1.0	1.3	1.2	1.3	1.2	1.8	4.0	0.5
15	1.3	0.6	0.5	0.7	3.8	2.7	1.9	2.4	3.1	2.9	4.1	4.9	4.8	3.1	3.3	3.6	3.4	2.7	0.8	1.6	1.2	1.2	1.8	2.4	2.4	4.9	0.5
16	2.8	1.5	1.9	3.4	5.2	5.1	3.5	3.3	3.6	2.8	2.4	2.0	1.3	1.5	2.4	2.7	2.5	1.4	1.2	1.3	1.5	1.2	0.8	0.7	2.3	5.2	0.7
17	0.8	0.9	0.9	1.0	0.5	0.8	1.5	1.1	1.3	1.9	2.9	3.0	2.7	1.7	2.9	2.5	2.3	1.7	0.8	1.3	0.7	1.0	1.4	0.7	1.5	3.0	0.5
18	0.9	0.9	1.2	1.0	1.0	1.0	1.3	1.2	0.8	1.1	2.5	1.9	1.9	2.6	2.3	2.8	2.1	0.9	1.1	0.9	1.2	1.2	1.2	1.2	1.4	2.8	0.8
19	1.3	1.2	1.3	1.2	1.3	1.2	1.1	1.4	0.8	0.8	1.2	1.9	2.2	2.0	1.9	1.5	2.3	1.2	0.6	1.5	1.1	0.9	1.2	1.0	1.3	2.3	0.6
20	1.2	1.3	0.9	1.1	1.2	1.3	1.1	1.3	1.3	0.5	1.0	2.9	3.3	2.9	3.2	3.1	3.3	2.9	1.1	1.5	1.4	1.2	1.2	1.4	1.7	3.3	0.5
21	1.0	1.1	1.2	1.1	1.4	1.3	1.5	0.9	1.1	0.8	1.9	3.5	2.9	2.4	3.1	3.1	3.2	2.8	1.5	1.4	1.3	1.0	1.5	1.2	1.8	3.5	0.8
22	1.3	1.4	1.3	1.3	1.2	1.5	1.1	1.5	1.4	0.8	2.3	2.5	3.8	4.6	4.7	4.6	4.4	5.2	4.0	3.2	2.2	3.3	1.5	1.9	2.5	5.2	0.8
23	1.3	1.9	1.5	1.1	1.5	1.5	1.5	2.5	2.3	3.9	3.6	2.4	2.7	2.1	2.0	1.1	2.1	1.6	0.9	0.8	0.4	1.9	1.8	2.1	1.9	3.9	0.4
24	2.7	2.2	2.3	3.9	3.4	4.1	4.9	4.5	5.6	6.1	6.4	6.0	5.1	3.8	3.4	2.8	3.1	3.2	1.9	0.9	0.9	1.1	1.3	1.8	3.4	6.4	0.9
25	2.3	2.3	2.3	3.0	3.1	3.4	3.3	3.3	2.9	2.0	2.6	2.7	2.2	2.0	1.8	1.6	1.4	0.8	1.1	0.9	1.3	1.2	1.2	1.3	2.1	3.4	0.8
26	1.7	2.1	2.3	2.5	2.3	2.1	2.3	2.3	2.5	4.9	5.3	4.5	3.1	1.9	1.4	1.3	1.1	1.2	0.9	0.9	1.4	1.2	1.1	0.6	2.1	5.3	0.6
27	0.5	0.9	0.8	0.3	1.1	0.5	0.6	1.6	2.0	2.0	2.1	1.4	3.1	2.9	2.7	2.5	3.0	2.6	0.8	1.3	1.5	1.3	0.9	1.1	1.6	3.1	0.3
28	1.5	1.4	1.4	1.2	1.3	1.3	1.5	1.3	0.9	0.7	0.6	1.9	3.1	2.9	2.6	3.0	2.7	2.6	0.9	1.0	1.4	1.0	1.0	1.1	1.6	3.1	0.6
29	1.4	1.3	1.2	1.1	1.4	1.4	1.4	1.3	0.9	0.9	0.8	2.0	2.3	2.7	3.0	3.3	3.0	2.9	1.1	1.6	1.4	1.3	1.5	1.0	1.7	3.3	0.8
Avg	2.0	2.1	2.2	2.0	2.3	2.3	2.2	2.5	2.7	2.7	3.1	3.3	3.4	3.1	3.0	2.8	2.7	2.2	1.2	1.4	1.4	1.6	1.7	1.8	2.3	--	--
Max	7.2	5.7	5.2	4.6	5.3	5.2	5.1	6.5	7.1	6.5	6.4	6.0	6.3	4.8	4.7	4.8	4.4	5.2	4.0	3.2	2.7	3.3	3.8	4.3	--	7.2	--
Min	0.5	0.6	0.5	0.3	0.5	0.4	0.4	0.7	0.8	0.5	0.6	1.4	1.3	1.5	1.4	1.1	1.1	0.8	0.5	0.8	0.4	0.7	0.8	0.6	--	--	0.3

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_10m"
Month: Mar 2016

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	1.4	1.2	1.0	1.1	1.0	1.3	1.2	1.2	0.8	1.0	2.3	2.3	3.1	2.9	2.6	2.8	2.8	0.7	1.3	1.4	1.0	1.1	0.9	1.6	3.1	0.7
2	1.5	1.2	1.3	1.5	1.1	1.4	1.4	1.2	0.7	0.3	0.6	2.0	2.9	3.1	3.7	4.1	3.8	2.6	0.6	1.3	1.2	1.1	1.1	1.3	1.7	4.1	0.3
3	1.2	1.3	1.3	0.9	1.2	1.1	0.9	0.3	1.1	2.0	2.4	1.9	1.9	2.1	2.7	1.7	2.1	2.6	0.9	1.3	1.4	1.0	1.5	1.2	1.5	2.7	0.3
4	1.3	1.4	1.4	1.2	1.1	1.4	1.2	0.7	1.3	2.1	2.3	2.0	2.4	1.7	2.6	3.3	2.7	1.2	0.9	1.1	1.0	1.0	1.4	1.4	1.6	3.3	0.7
5	1.1	0.9	0.8	1.1	1.2	1.2	1.1	1.3	0.6	0.8	2.6	2.8	2.7	3.4	2.6	2.8	1.7	0.5	0.5	0.6	1.1	1.2	1.0	0.9	1.4	3.4	0.5
6	0.9	1.1	0.9	0.8	1.1	1.0	1.1	0.5	0.8	0.5	2.5	2.6	3.1	3.8	3.5	3.5	3.3	3.8	3.4	1.6	0.6	2.7	3.6	2.3	2.0	3.8	0.5
7	2.3	2.2	0.5	0.7	1.1	1.1	0.8	0.8	0.2	0.6	2.3	3.1	3.5	3.8	3.5	3.3	2.9	4.8	4.7	1.6	0.7	1.0	1.0	2.4	2.0	4.8	0.2
8	0.7	3.8	2.1	0.7	0.6	1.1	0.6	1.3	0.9	2.2	3.6	3.9	4.0	4.0	4.3	3.6	3.6	3.4	3.0	0.7	1.0	1.3	1.2	1.2	2.2	4.3	0.6
9	1.2	0.9	1.2	1.5	1.5	1.0	0.7	0.7	0.9	1.7	1.5	3.5	3.8	3.9	4.2	3.7	3.9	3.8	2.3	0.9	1.5	1.3	1.1	1.1	2.0	4.2	0.7
10	1.3	1.3	1.2	1.2	1.0	0.9	2.7	1.4	3.8	4.0	2.9	3.4	2.7	2.2	2.3	2.5	3.6	2.7	1.3	0.8	1.7	1.1	1.3	1.0	2.0	4.0	0.8
11	1.1	0.7	0.7	0.4	0.5	1.3	1.6	1.5	2.0	3.6	3.0	3.6	3.2	2.4	3.6	3.2	2.6	3.7	2.6	0.6	0.7	3.1	1.7	2.1	2.1	3.7	0.4
12	3.6	4.5	4.7	3.7	3.6	3.2	2.6	3.5	3.2	3.6	3.3	3.3	3.7	3.7	4.2	4.2	3.4	3.5	1.5	0.8	1.2	1.4	1.1	1.2	3.0	4.7	0.8
13	1.3	1.0	--	1.1	1.4	0.6	0.8	0.9	1.8	1.8	1.2	2.8	2.8	2.9	3.0	2.8	3.0	2.7	1.5	0.8	1.1	1.0	1.0	1.1	1.7	3.0	0.6
14	1.1	1.3	1.1	0.8	0.9	1.3	1.1	0.9	0.9	0.9	2.2	2.8	2.7	2.6	2.7	3.4	2.7	2.9	2.5	0.8	1.3	1.1	1.3	1.2	1.7	3.4	0.8
15	1.6	1.2	1.3	1.0	1.0	1.4	0.7	0.6	0.7	1.0	2.3	3.0	2.6	2.2	2.8	3.6	3.0	3.0	2.3	1.0	1.3	1.1	1.1	1.3	1.7	3.6	0.6
16	1.0	1.1	1.1	0.9	0.9	0.5	0.3	0.4	1.9	4.2	4.7	2.8	1.9	2.0	2.8	3.6	3.4	3.0	2.2	0.9	1.5	1.4	1.2	1.2	1.9	4.7	0.3
17	1.0	1.2	0.8	0.8	0.6	0.7	1.1	0.4	0.5	1.1	1.2	2.0	3.1	3.3	3.2	3.0	3.4	3.1	1.3	0.8	1.4	1.1	1.4	1.2	1.6	3.4	0.4
18	1.2	1.3	1.1	1.1	1.6	1.2	1.2	1.2	0.9	0.5	1.2	2.5	3.2	3.3	3.6	3.5	3.9	3.5	1.5	0.9	1.2	1.0	0.9	1.2	1.8	3.9	0.5
19	1.1	0.8	1.4	1.0	1.1	1.0	1.0	1.2	0.6	0.7	1.3	3.0	2.9	2.8	3.1	3.3	3.6	3.4	1.7	1.1	1.4	1.2	1.2	1.4	1.7	3.6	0.6
20	1.1	1.1	1.6	1.0	1.0	1.1	0.7	1.3	2.9	3.8	3.3	4.1	3.3	2.1	1.6	2.1	1.4	1.8	0.8	1.2	1.2	1.1	1.0	1.4	1.7	4.1	0.7
21	1.0	1.0	0.8	0.9	1.4	2.0	2.3	2.1	2.8	2.6	2.3	1.7	1.6	2.5	3.7	3.9	3.9	2.5	1.1	0.8	1.4	1.0	0.9	0.9	1.9	3.9	0.8
22	0.9	1.1	0.9	1.0	0.9	0.7	1.0	0.7	1.3	4.7	5.2	5.0	6.1	5.9	6.7	6.8	7.1	7.1	5.0	4.1	3.6	3.8	2.9	1.0	3.5	7.1	0.7
23	1.2	0.5	1.2	1.0	1.4	1.5	1.0	0.8	2.0	3.0	4.2	4.4	4.1	4.1	3.4	3.4	4.2	3.8	3.0	1.5	1.2	1.5	1.2	1.1	2.3	4.4	0.5
24	0.9	1.4	1.0	2.9	2.9	2.1	2.8	2.5	3.1	3.4	2.8	1.8	1.7	2.6	3.4	3.6	4.2	3.8	2.4	0.8	1.3	0.9	1.1	1.0	2.3	4.2	0.8
25	1.0	1.2	1.3	1.0	1.0	1.2	1.3	0.9	1.0	1.1	2.7	3.6	3.3	3.3	3.8	4.3	4.2	3.0	1.4	0.9	1.1	1.1	1.3	0.8	1.9	4.3	0.8
26	1.3	0.9	0.9	1.1	1.1	0.9	1.0	0.9	0.5	1.4	3.2	3.3	3.6	4.1	4.4	4.9	4.2	3.6	2.3	0.9	1.6	1.0	1.2	1.3	2.1	4.9	0.5
27	1.2	2.7	2.9	2.9	3.1	2.6	2.3	2.3	2.4	2.2	1.8	2.9	2.8	2.8	3.7	3.6	3.3	2.8	1.1	0.7	0.9	0.9	1.1	1.0	2.2	3.7	0.7
28	1.0	1.2	0.9	1.2	1.2	1.1	0.8	0.8	2.6	3.8	4.2	4.4	4.8	4.8	5.5	5.2	5.7	5.6	5.6	4.9	4.5	5.0	3.8	4.7	3.5	5.7	0.8
29	3.8	2.9	2.5	3.0	3.3	3.5	4.0	3.6	4.1	4.3	5.0	2.8	2.1	1.3	2.3	3.0	3.1	3.6	2.6	1.6	0.9	0.6	0.8	0.5	2.7	5.0	0.5
30	0.3	0.4	1.5	2.2	1.0	0.4	0.5	1.3	1.5	2.1	2.2	2.9	3.3	2.8	3.0	2.7	2.6	2.0	2.3	1.4	0.7	1.0	1.3	0.9	1.7	3.3	0.3
31	1.2	1.2	0.8	0.9	0.9	0.7	1.1	1.0	1.3	3.4	3.1	3.1	3.2	2.7	2.2	1.9	2.6	2.7	2.2	1.7	1.0	1.0	0.6	0.6	1.7	3.4	0.6
Avg	1.3	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.6	2.2	2.6	3.0	3.1	3.1	3.4	3.5	3.4	3.2	2.1	1.3	1.4	1.4	1.4	1.3	2.0	--	--
Max	3.8	4.5	4.7	3.7	3.6	3.5	4.0	3.6	4.1	4.7	5.2	5.0	6.1	5.9	6.7	6.8	7.1	7.1	5.6	4.9	4.5	5.0	3.8	4.7	--	7.1	--
Min	0.3	0.4	0.5	0.4	0.5	0.4	0.3	0.3	0.2	0.3	0.6	1.7	1.6	1.3	1.6	1.7	1.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_20m"
Month: Jan 2016

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	103	106	118	87	109	106	104	91	79	67	65	76	101	114	117	106	62	59	74	73	69	76	75	75	88	118	59
2	75	74	74	79	80	84	83	81	78	75	61	59	62	51	55	55	60	68	92	78	77	98	94	85	74	98	51
3	84	88	100	98	86	86	86	83	75	75	72	69	69	63	62	56	57	66	72	78	82	73	75	76	76	100	56
4	71	68	72	67	64	66	64	63	60	76	101	121	183	329	81	95	113	112	93	107	99	102	84	79	85	329	60
5	68	81	50	68	100	66	65	66	68	62	75	81	95	85	86	81	76	344	232	346	144	202	146	154	82	346	50
6	100	148	129	171	160	255	104	95	216	194	220	230	233	230	251	277	280	238	107	93	118	90	86	111	169	280	86
7	108	130	52	36	219	200	52	197	176	176	211	219	246	98	86	56	87	121	61	85	70	262	157	100	124	262	36
8	77	323	192	219	245	269	281	225	221	217	226	225	241	264	220	284	89	80	101	115	103	67	107	123	201	323	67
9	124	92	81	96	77	97	107	91	98	174	101	231	280	258	236	266	245	230	134	104	94	103	92	104	123	280	77
10	86	80	103	83	75	86	87	103	117	137	132	127	168	234	250	258	267	269	267	105	112	103	98	95	118	269	75
11	106	99	86	101	88	107	75	76	65	63	62	51	44	49	76	213	296	68	112	112	110	109	47	103	83	296	44
12	109	110	103	77	76	109	108	117	99	65	62	62	57	55	56	52	64	75	72	139	117	104	97	118	88	139	52
13	106	87	94	105	104	101	113	116	117	107	110	113	224	276	259	223	188	261	105	97	98	94	98	91	117	276	87
14	93	104	102	106	102	100	95	87	90	108	79	283	260	247	253	254	251	235	97	101	100	91	85	95	110	283	79
15	93	92	98	94	91	99	108	102	100	104	141	1	268	228	244	260	269	257	155	91	90	84	98	106	111	269	1
16	90	97	84	88	93	82	93	82	77	93	115	170	239	250	283	278	248	196	279	74	103	102	94	105	108	283	74
17	86	101	84	101	98	105	92	94	85	111	111	293	279	261	244	255	237	193	117	96	90	89	98	100	110	293	84
18	105	103	105	89	114	104	92	68	96	105	99	102	157	147	143	11	222	199	44	101	109	94	102	95	106	222	11
19	95	105	96	86	98	92	77	101	78	102	133	207	272	253	275	258	250	241	97	111	106	81	94	70	109	275	70
20	295	104	99	94	92	93	103	96	106	98	226	278	265	265	254	256	248	243	221	118	103	97	95	87	134	295	87
21	90	83	79	99	107	177	107	120	61	50	67	64	57	47	51	46	54	60	98	102	116	100	84	118	83	177	46
22	125	122	117	110	107	110	96	113	104	75	64	59	54	63	59	60	62	82	118	109	108	114	111	114	94	125	54
23	110	114	113	112	112	109	110	114	106	90	83	95	123	118	124	335	273	243	108	98	97	106	97	93	107	335	83
24	100	107	88	97	106	95	111	104	133	179	221	216	258	242	247	266	274	250	133	103	95	102	85	94	135	274	85
25	89	97	93	89	113	104	101	98	95	94	149	231	254	264	269	261	259	261	77	105	103	117	100	63	114	269	63
26	64	54	93	95	131	156	166	211	118	--	--	--	59	61	62	70	56	47	276	111	129	80	84	116	94	276	47
27	80	82	80	99	107	174	140	81	81	51	55	60	57	69	136	206	254	225	112	100	90	88	83	78	96	254	51
28	95	103	101	105	106	94	93	91	115	121	105	142	240	258	278	275	262	271	104	107	93	91	89	109	113	278	89
29	87	94	84	116	95	116	93	106	105	99	108	272	275	279	272	252	224	184	97	86	95	99	86	84	109	279	84
30	101	100	105	102	98	103	103	99	104	169	103	223	227	227	236	273	265	216	100	104	98	90	104	101	126	273	90
31	89	99	102	107	102	101	98	88	95	119	141	207	216	226	245	308	239	221	219	217	216	216	210	224	171	308	88
Avg	93	96	95	97	103	107	97	100	99	104	107	142	229	248	228	285	256	212	108	100	102	99	96	100	103	--	--
Max	295	323	192	219	245	269	281	225	221	217	226	293	280	329	283	335	296	344	279	346	216	262	210	224	--	346	--
Min	64	54	50	36	64	66	52	63	60	50	55	1	44	47	51	11	54	47	44	73	69	67	47	63	--	--	1

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_20m"
Month: Feb 2016

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	253	251	251	247	271	260	246	247	227	237	277	279	256	255	247	254	343	126	106	7	67	320	310	263	264	343	7
2	278	98	96	105	103	109	104	111	111	89	37	269	255	248	252	260	249	250	207	100	92	104	89	100	126	278	37
3	92	91	92	101	96	83	85	108	115	80	57	66	99	51	120	309	268	253	212	106	108	79	75	70	91	309	51
4	64	75	68	71	92	86	124	104	84	74	63	58	62	54	57	66	67	54	99	109	97	107	149	134	83	149	54
5	177	192	170	161	176	95	76	97	112	146	78	62	57	43	40	52	46	44	52	50	93	64	61	63	86	192	40
6	66	76	76	78	76	79	72	75	76	74	70	64	57	53	54	58	60	49	82	101	97	106	92	101	75	106	49
7	94	98	108	122	116	97	101	104	97	73	72	54	45	60	42	44	52	49	61	67	71	90	82	97	79	122	42
8	73	66	70	80	48	41	11	48	55	58	71	70	64	66	65	67	34	29	52	151	112	171	64	84	66	171	11
9	65	41	62	68	67	68	77	75	63	67	60	58	56	39	43	40	41	63	145	103	102	107	115	125	72	145	39
10	109	105	94	110	90	96	111	119	110	88	77	63	58	69	62	110	187	250	107	104	95	97	82	89	97	250	58
11	87	79	86	80	101	110	108	98	89	111	343	283	281	274	262	267	252	257	102	103	98	90	85	81	93	343	79
12	80	107	97	93	81	85	103	84	106	118	112	64	87	111	242	273	271	261	124	87	78	80	76	87	96	273	64
13	71	91	83	86	72	71	81	102	98	109	67	47	278	271	264	246	251	250	271	100	100	100	95	92	90	278	47
14	95	88	98	96	96	108	108	105	80	114	282	266	269	270	280	252	266	265	206	109	103	99	94	95	119	282	80
15	91	69	124	289	59	53	73	8	79	47	46	51	49	283	272	274	264	262	174	110	106	91	101	95	68	289	8
16	103	127	87	82	64	66	74	92	70	347	34	318	50	117	230	263	256	249	119	112	94	87	70	114	84	347	34
17	91	65	97	86	145	102	104	85	111	107	105	133	141	147	221	233	262	270	116	100	88	106	101	102	115	270	65
18	102	106	102	103	101	95	96	95	104	123	126	170	112	87	253	256	267	275	106	97	105	102	93	98	111	275	87
19	101	101	103	104	98	94	113	83	104	103	114	121	129	173	251	246	272	277	138	102	93	91	104	94	114	277	83
20	92	85	85	91	86	93	91	97	88	56	270	265	263	251	268	272	264	258	297	109	103	92	95	95	95	297	56
21	86	96	81	103	108	115	96	111	93	144	262	250	249	266	263	251	266	267	277	108	97	100	91	97	128	277	81
22	93	96	106	99	104	101	98	102	93	87	297	227	237	256	270	274	274	267	259	249	262	274	190	101	189	297	87
23	74	103	101	102	96	93	91	102	88	61	50	69	31	26	100	324	239	9	43	106	196	84	107	66	78	324	9
24	75	77	57	74	77	66	58	65	62	53	50	38	36	36	30	19	25	42	77	127	94	91	85	94	62	127	19
25	96	99	108	92	94	109	102	100	96	99	96	59	97	74	28	213	143	84	87	100	99	82	76	91	95	213	28
26	105	92	107	108	107	114	105	101	97	71	61	62	79	108	137	142	79	79	240	104	92	85	78	94	97	240	61
27	56	70	84	42	87	94	102	98	102	113	86	130	271	277	251	238	283	265	261	103	105	91	94	92	97	283	42
28	96	92	94	97	92	92	103	102	107	101	128	270	269	249	244	271	274	265	305	106	87	91	91	102	108	305	87
29	93	95	95	100	98	107	99	102	91	104	97	299	276	260	251	251	254	274	279	107	108	91	97	81	107	299	81
Avg	89	91	94	94	93	91	94	94	94	90	66	49	46	26	271	272	279	287	127	102	99	93	91	94	91	--	--
Max	278	251	251	289	271	260	246	247	227	347	343	318	281	283	280	324	343	277	305	249	262	320	310	263	--	347	--
Min	56	41	57	42	48	41	11	8	55	47	34	38	31	26	28	19	25	9	43	7	67	64	61	63	--	--	7

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_20m"
Month: Mar 2016

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	97	96	95	89	91	96	99	103	83	95	205	238	232	270	279	262	277	270	271	99	101	93	90	82	113	279	82
2	90	86	95	97	96	106	93	95	95	175	86	287	255	289	282	275	272	273	236	101	98	88	85	83	102	289	83
3	87	90	82	84	95	85	101	152	76	112	103	127	177	282	275	280	257	269	316	102	88	96	94	90	101	316	76
4	94	100	94	92	92	96	101	98	99	103	120	137	114	102	243	264	271	303	106	97	92	103	92	98	104	303	92
5	95	101	102	103	102	94	103	97	75	98	195	214	234	224	226	269	286	112	130	125	104	88	102	97	121	286	75
6	91	100	83	109	100	104	99	108	94	100	223	213	215	223	246	224	253	263	270	265	215	209	232	233	185	270	83
7	233	227	318	114	108	105	94	111	154	116	249	234	229	258	256	265	290	274	278	291	163	119	208	277	220	318	94
8	277	219	208	288	300	105	112	103	129	279	269	267	263	265	255	256	276	269	265	12	104	95	94	94	249	300	12
9	95	99	106	94	96	86	69	49	113	277	287	266	278	271	281	270	267	268	252	338	107	97	94	84	69	338	49
10	92	94	100	88	57	308	71	327	53	36	300	269	297	213	120	172	270	247	272	117	93	86	89	75	74	327	36
11	91	85	69	80	71	95	96	98	68	100	120	136	122	183	204	238	229	246	251	255	120	207	212	208	141	255	68
12	194	206	223	211	218	235	264	251	241	256	264	284	260	262	276	259	266	268	278	188	106	108	102	91	237	284	91
13	89	94	--	89	92	71	81	86	118	137	165	273	243	255	249	253	268	272	246	79	100	98	97	103	123	273	71
14	100	105	102	97	101	97	97	106	94	106	290	268	261	248	232	262	241	265	269	314	101	101	109	92	127	314	92
15	96	92	95	87	86	85	100	91	87	170	214	251	284	285	245	276	289	285	247	32	109	96	99	93	107	289	32
16	87	81	85	98	84	110	138	292	22	55	53	11	320	266	280	269	267	256	249	88	104	95	92	86	67	320	11
17	94	89	94	71	97	64	87	121	140	123	136	224	266	267	259	265	278	286	273	118	97	82	94	87	114	286	64
18	89	97	91	99	106	104	98	91	105	260	2	243	253	270	261	258	266	270	273	104	98	90	97	105	114	273	2
19	104	101	101	104	93	100	101	90	80	136	242	269	257	254	245	272	258	258	250	53	100	98	92	87	123	272	53
20	81	88	100	81	88	90	100	96	107	71	77	55	49	60	235	104	12	251	280	94	95	87	75	94	83	280	12
21	85	63	96	115	93	101	109	109	112	102	116	121	196	225	248	268	275	271	270	120	93	94	90	103	117	275	63
22	108	97	99	91	118	101	94	105	255	221	242	260	267	282	275	273	275	274	267	269	268	266	278	258	248	282	91
23	258	98	100	106	104	100	100	121	277	255	289	288	266	233	213	248	265	257	245	258	106	101	89	95	195	289	89
24	86	94	74	102	107	123	124	105	66	61	55	63	267	284	287	257	275	274	258	103	104	101	88	84	90	287	55
25	89	85	99	96	93	104	100	109	101	351	282	269	252	261	264	268	258	269	239	119	109	106	100	108	122	351	85
26	97	106	101	99	101	98	91	94	133	293	219	251	258	265	265	265	267	254	254	229	109	84	93	100	153	293	84
27	89	116	121	117	110	105	102	114	103	107	143	246	249	227	246	252	252	260	239	95	92	91	96	98	134	260	89
28	102	95	101	104	105	97	93	102	219	202	205	205	219	213	225	222	230	227	226	229	227	222	218	224	189	230	93
29	215	219	233	231	221	223	231	221	245	253	282	270	292	129	329	275	272	276	269	280	262	79	96	70	249	329	70
30	119	117	177	253	250	48	104	111	124	229	228	217	254	268	250	225	234	229	264	264	104	94	89	91	193	268	48
31	104	97	82	92	109	114	90	92	114	278	248	259	251	314	1	246	257	262	253	236	96	101	127	91	133	314	1
Avg	101	103	102	101	100	98	100	103	106	135	220	247	251	254	257	256	267	264	258	115	109	102	103	98	138	--	--
Max	277	227	318	288	300	308	264	327	277	351	300	288	320	314	329	280	290	303	316	338	268	266	278	277	--	351	--
Min	81	63	69	71	57	48	69	49	22	36	2	11	49	60	1	104	12	112	106	12	88	79	75	70	--	--	1

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_10m"
Month: Jan 2016

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	103	106	119	87	113	106	104	91	79	67	65	76	101	114	117	106	62	59	74	73	69	76	75	75	88	119	59
2	75	74	74	79	80	84	83	81	78	75	61	59	62	51	55	55	60	68	92	78	77	98	94	85	74	98	51
3	84	88	100	98	86	86	86	83	75	75	72	69	69	63	62	56	57	66	72	78	82	73	75	76	76	100	56
4	71	68	72	67	64	66	64	63	60	76	101	121	183	330	81	95	113	112	93	107	99	102	84	79	85	330	60
5	68	81	50	68	100	66	65	66	68	62	75	81	95	85	86	81	76	269	262	346	146	202	146	154	84	346	50
6	100	144	120	172	160	255	111	92	217	194	220	230	233	230	251	277	280	247	106	96	117	89	86	109	169	280	86
7	108	129	73	35	218	201	58	196	176	176	211	219	246	96	86	57	87	121	60	84	69	269	181	92	126	269	35
8	77	324	189	219	245	269	284	225	221	217	226	225	241	263	220	283	88	80	101	113	102	67	107	122	201	324	67
9	129	90	78	101	88	97	106	91	98	169	103	228	280	258	236	266	245	230	137	104	93	103	92	104	124	280	78
10	86	80	103	82	69	83	85	103	117	137	132	127	168	234	250	258	267	269	267	98	111	103	98	95	116	269	69
11	106	99	86	100	88	107	75	76	65	63	62	51	44	49	77	212	286	68	113	112	110	109	44	101	83	286	44
12	109	110	103	77	75	109	108	117	99	65	62	62	57	55	56	52	64	75	73	141	119	104	96	118	88	141	52
13	103	87	94	105	104	101	113	116	117	107	110	113	224	276	259	223	187	264	105	97	98	94	98	91	117	276	87
14	95	107	103	105	100	100	95	87	90	107	77	285	260	247	253	254	251	239	97	101	100	91	86	95	109	285	77
15	93	92	98	94	91	98	105	102	100	92	145	8	269	229	244	260	269	257	5	96	96	87	98	106	102	269	5
16	89	97	86	85	93	84	84	82	76	92	115	169	240	250	283	278	248	197	279	83	104	107	95	105	108	283	76
17	83	101	84	102	94	104	92	94	85	112	101	294	279	261	244	255	237	192	121	96	89	89	100	100	109	294	83
18	105	103	105	87	116	102	89	72	96	93	99	102	158	147	143	10	222	201	47	116	109	94	102	95	106	222	10
19	95	102	96	86	98	92	78	101	78	102	133	207	272	253	275	258	250	241	96	111	106	79	94	70	109	275	70
20	293	103	96	94	92	93	102	96	106	103	226	280	265	265	254	256	248	243	150	118	101	97	95	87	128	293	87
21	90	82	76	100	101	168	107	122	61	50	67	64	57	47	51	46	54	60	97	104	116	100	84	118	83	168	46
22	125	122	117	110	107	110	96	113	104	75	64	59	54	63	59	60	62	82	118	109	108	114	111	114	94	125	54
23	110	114	113	112	112	109	110	114	106	90	83	95	123	118	124	336	273	244	96	97	101	105	97	92	106	336	83
24	100	107	86	97	106	95	110	104	134	169	221	216	258	242	247	266	274	251	133	103	95	102	85	94	135	274	85
25	89	98	93	89	113	104	101	97	107	94	150	230	254	264	269	261	259	261	80	105	103	120	97	63	115	269	63
26	64	54	93	96	132	156	166	211	118	--	--	--	59	61	62	70	56	47	275	93	129	80	85	116	93	275	47
27	80	82	80	99	108	173	140	81	81	51	55	60	57	70	136	206	254	226	111	100	90	88	83	78	96	254	51
28	100	102	101	105	106	94	93	91	115	121	105	142	240	258	278	275	262	270	105	107	93	91	89	109	113	278	89
29	87	97	83	122	98	117	94	109	105	100	93	272	275	279	272	252	222	192	101	86	94	99	88	86	110	279	83
30	101	101	105	102	98	103	103	99	104	170	65	223	227	227	236	273	266	217	100	104	98	89	104	101	124	273	65
31	90	97	104	107	102	102	97	88	95	117	146	207	217	226	245	308	238	221	219	217	216	216	210	224	171	308	88
Avg	93	96	95	97	103	107	97	100	99	103	105	140	230	248	228	285	255	215	101	100	102	99	96	99	103	--	--
Max	293	324	189	219	245	269	284	225	221	217	226	294	280	330	283	336	286	270	279	346	216	269	210	224	--	346	--
Min	64	54	50	35	64	66	58	63	60	50	55	8	44	47	51	10	54	47	5	73	69	67	44	63	--	--	5

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_10m"
Month: Feb 2016

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	253	251	251	247	271	260	246	247	227	237	277	280	256	255	247	254	343	126	105	20	57	319	310	263	264	343	20
2	278	98	100	105	103	109	105	107	111	84	35	269	255	248	252	260	249	250	208	99	92	104	89	100	125	278	35
3	93	91	92	101	96	83	85	108	115	80	57	66	99	52	120	309	268	253	161	106	108	80	75	70	91	309	52
4	64	75	68	71	92	86	124	104	84	74	63	58	62	54	57	66	67	54	106	107	96	107	149	134	83	149	54
5	178	192	170	161	176	95	76	97	112	145	79	62	57	43	40	52	46	44	52	50	93	64	61	63	86	192	40
6	66	76	76	78	76	79	72	75	76	74	70	64	57	53	54	58	60	49	82	101	97	106	92	101	75	106	49
7	94	98	108	122	116	97	101	104	97	73	72	54	45	60	42	44	52	49	61	68	71	89	82	97	79	122	42
8	73	66	70	80	48	41	10	48	55	58	71	70	64	66	65	67	34	29	53	151	112	169	65	84	66	169	10
9	65	41	62	68	67	68	77	75	63	67	60	58	56	39	43	40	41	63	146	103	102	107	115	125	72	146	39
10	109	105	94	110	90	96	111	119	110	88	77	63	58	69	62	111	187	254	105	104	95	97	82	89	97	254	58
11	87	78	85	80	101	108	112	96	89	110	343	283	281	274	262	267	252	257	100	103	98	90	85	81	93	343	78
12	80	107	97	93	81	85	103	84	106	118	112	64	87	111	242	273	271	261	123	87	78	80	76	87	96	273	64
13	73	72	83	86	70	69	82	99	98	109	67	48	278	271	264	246	251	250	255	100	99	100	95	92	89	278	48
14	95	88	98	96	97	108	108	105	82	115	282	266	270	270	280	252	266	265	186	106	103	99	94	95	118	282	82
15	91	70	123	293	59	55	76	9	79	47	46	51	49	282	272	274	264	262	168	110	106	91	101	95	68	293	9
16	103	127	87	82	64	66	74	92	70	347	34	318	49	105	231	263	256	249	119	112	94	88	72	112	83	347	34
17	91	69	98	86	142	104	104	88	99	107	105	133	141	147	221	233	262	270	112	100	86	106	101	100	114	270	69
18	102	107	105	102	100	95	96	95	104	126	126	170	112	87	253	256	267	274	108	99	104	102	93	98	112	274	87
19	101	101	105	104	98	94	113	83	99	105	114	121	129	173	251	246	272	278	135	102	93	94	104	94	114	278	83
20	92	85	85	91	86	93	91	97	88	55	272	265	263	251	268	272	264	258	298	109	103	92	95	95	95	298	55
21	86	96	81	104	109	115	96	115	93	144	261	250	249	266	263	251	266	267	277	107	99	99	91	97	129	277	81
22	93	97	105	99	104	101	98	102	93	89	297	227	237	256	270	274	274	267	259	249	262	274	189	101	189	297	89
23	75	103	100	102	96	94	91	102	88	61	50	69	31	26	102	325	239	9	43	104	164	84	107	66	79	325	9
24	75	77	57	74	77	66	58	65	62	53	50	38	36	36	30	19	25	42	77	128	94	90	85	94	62	128	19
25	96	99	108	92	94	109	102	100	96	99	96	59	97	74	29	214	142	85	89	98	99	82	76	91	94	214	29
26	105	92	107	108	107	114	105	101	97	71	61	62	79	108	137	145	81	80	226	104	92	85	78	94	98	226	61
27	59	68	83	29	86	102	99	98	102	113	86	134	271	277	250	238	283	265	274	103	105	91	93	92	96	283	29
28	96	92	94	97	92	92	103	102	108	101	150	270	269	249	244	271	274	265	293	103	87	91	91	102	112	293	87
29	93	95	95	100	98	107	99	102	91	104	98	299	276	260	251	251	254	274	280	107	108	91	97	81	107	299	81
Avg	89	91	94	94	93	91	94	94	93	90	66	49	46	26	271	271	279	287	125	102	98	93	91	94	91	--	--
Max	278	251	251	293	271	260	246	247	227	347	343	318	281	282	280	325	343	278	298	249	262	319	310	263	--	347	--
Min	59	41	57	29	48	41	10	9	55	47	34	38	31	26	29	19	25	9	43	20	57	64	61	63	--	--	9

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_10m"
Month: Mar 2016

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	96	96	95	89	91	96	99	103	83	93	203	238	232	270	279	262	277	270	253	99	101	93	90	81	115	279	81
2	90	86	95	97	96	106	93	95	95	178	88	287	255	289	282	275	272	273	239	101	98	87	82	83	102	289	82
3	87	90	82	84	95	85	102	146	76	112	103	126	177	281	275	280	257	269	174	102	88	97	94	90	109	281	76
4	94	100	94	92	92	96	101	98	98	103	119	137	114	103	243	264	271	299	107	97	90	103	92	98	104	299	90
5	95	101	101	103	103	94	103	97	75	95	195	214	234	224	226	269	286	120	132	124	105	88	106	98	122	286	75
6	101	100	83	108	100	105	99	111	105	99	223	212	215	223	246	224	253	263	270	265	218	209	232	233	186	270	83
7	233	227	300	112	109	105	94	112	121	116	249	234	229	258	256	265	290	274	278	291	162	118	195	277	218	300	94
8	277	219	209	294	313	104	118	103	130	278	269	267	263	265	255	256	276	269	265	4	105	96	94	94	251	313	4
9	95	99	107	94	96	86	71	64	109	278	290	266	278	271	281	270	267	268	252	338	108	97	94	84	74	338	64
10	92	94	100	88	309	316	71	326	53	36	300	269	297	214	120	173	270	247	272	109	93	85	89	74	64	326	36
11	91	83	78	93	89	95	96	98	54	100	120	136	122	182	204	237	229	246	251	204	120	207	212	208	142	251	54
12	194	206	223	211	218	235	264	251	241	256	264	284	260	262	276	259	266	268	278	186	106	108	105	91	237	284	91
13	89	93	--	89	92	70	82	86	118	137	194	273	243	255	249	253	268	272	246	83	100	98	97	103	125	273	70
14	100	105	102	96	100	97	96	107	94	110	290	268	262	248	232	262	241	265	269	317	101	100	109	92	127	317	92
15	96	92	95	87	86	85	101	94	60	170	214	251	285	285	245	276	289	285	247	34	109	96	99	93	104	289	34
16	87	81	85	99	84	104	140	303	22	55	53	11	321	266	280	269	267	256	249	85	104	95	92	86	66	321	11
17	93	89	94	72	102	62	83	125	139	122	132	223	266	268	259	265	278	286	273	117	98	83	94	87	113	286	62
18	89	97	94	99	106	106	98	91	106	260	1	244	253	270	261	258	266	270	274	98	98	90	96	105	114	274	1
19	104	102	101	105	93	100	101	90	79	142	249	269	257	253	245	272	258	258	250	64	100	98	92	87	124	272	64
20	81	88	100	82	88	90	100	94	107	71	77	55	49	59	193	104	14	249	276	105	95	87	75	94	86	276	14
21	85	62	99	110	93	101	109	109	112	102	115	121	202	226	248	268	275	271	271	108	93	95	92	103	116	275	62
22	108	97	99	94	117	99	97	105	256	221	242	260	267	282	275	273	275	274	267	269	268	266	278	259	248	282	94
23	261	105	100	106	104	100	101	121	277	255	289	288	266	233	213	248	265	257	245	257	106	101	89	95	195	289	89
24	86	94	74	102	107	124	124	105	66	61	55	63	271	284	287	257	275	274	258	145	104	101	88	84	93	287	55
25	90	85	99	97	95	104	100	109	101	352	282	269	252	261	264	268	258	269	239	112	108	106	100	106	121	352	85
26	97	105	100	99	101	98	91	94	131	292	219	251	258	265	265	265	267	254	254	188	109	84	93	100	149	292	84
27	89	116	121	117	110	105	102	114	103	107	143	246	249	227	246	252	252	260	240	105	93	90	96	98	135	260	89
28	102	95	102	104	104	97	95	103	219	202	205	205	219	213	225	222	230	227	226	229	227	222	218	224	189	230	95
29	215	219	233	231	221	223	231	221	245	253	282	270	293	128	330	275	272	276	269	280	257	73	95	89	248	330	73
30	124	114	176	253	250	44	106	113	131	229	229	217	254	269	250	224	234	230	264	264	100	94	89	91	194	269	44
31	104	95	81	92	105	115	90	92	114	278	248	259	251	314	0	246	257	262	253	236	98	99	111	91	128	314	0
Avg	102	103	103	101	101	98	101	104	103	136	223	247	252	254	255	256	267	264	253	123	109	101	103	98	139	--	--
Max	277	227	300	294	313	316	264	326	277	352	300	288	321	314	330	280	290	299	278	338	268	266	278	277	--	352	--
Min	81	62	74	72	84	44	71	64	22	36	1	11	49	59	0	104	14	120	107	4	88	73	75	74	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, DeltaT"
Month: Jan 2016

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	0.75	0.96	1.44	1.98	1.93	0.87	1.72	0.91	0.17	-0.24	-0.44	-0.56	-0.79	-0.87	-0.78	-0.53	-0.19	0.22	0.26	0.28	0.26	0.27	0.23	0.21	0.34	1.98	-0.87
2	0.18	0.12	0.13	0.16	0.27	0.21	0.20	0.19	0.03	-0.21	-0.40	-0.51	-0.59	-0.66	-0.57	-0.38	-0.12	0.26	0.62	0.34	0.56	0.90	0.77	0.46	0.08	0.90	-0.66
3	0.33	0.33	0.77	0.70	0.45	0.20	0.22	0.24	0.04	-0.22	-0.39	-0.49	-0.58	-0.61	-0.52	-0.33	0.02	0.22	0.38	0.24	0.23	0.17	0.16	0.13	0.07	0.77	-0.61
4	0.09	0.10	0.11	0.06	0.05	0.09	0.11	0.12	0.06	-0.09	0.15	0.13	0.16	-0.09	-0.15	-0.28	-0.01	0.18	0.16	0.18	0.12	0.11	0.29	0.34	0.08	0.34	-0.28
5	0.24	0.15	0.19	0.25	0.15	0.03	0.05	0.04	0.02	-0.05	-0.16	-0.31	-0.21	-0.45	-0.21	-0.03	0.32	0.24	0.10	-0.01	0.08	0.18	0.24	0.32	0.05	0.32	-0.45
6	0.33	0.18	0.37	0.34	0.36	0.03	0.10	0.00	0.20	0.08	-0.32	-0.27	-0.41	-0.54	-0.23	-0.14	-0.21	0.98	0.86	0.74	0.77	0.89	0.28	0.31	0.20	0.98	-0.54
7	0.36	0.40	0.34	0.24	0.40	0.41	0.22	0.40	0.33	0.27	0.16	0.01	0.01	-0.08	-0.10	-0.12	-0.11	-0.05	-0.01	-0.05	-0.02	0.06	0.22	0.19	0.15	0.41	-0.12
8	0.01	0.25	0.30	0.23	0.13	0.06	0.00	0.13	0.06	-0.08	-0.03	-0.26	-0.16	-0.20	-0.50	-0.15	-0.11	-0.01	0.23	0.36	0.16	0.13	0.07	0.28	0.04	0.36	-0.50
9	0.34	0.37	0.22	0.78	1.41	0.86	0.67	1.10	-0.06	-0.38	-0.54	-0.62	-0.43	-0.72	-0.95	-0.61	-0.47	0.53	1.44	1.05	1.36	1.31	1.09	1.00	0.37	1.44	-0.95
10	0.84	1.33	1.01	0.77	0.95	0.68	0.61	0.26	0.05	-0.28	-0.54	-0.58	-0.65	-0.67	-0.62	-0.51	-0.07	0.36	0.33	1.18	0.78	1.00	1.36	0.92	0.36	1.36	-0.67
11	1.20	0.96	0.82	0.59	0.93	1.22	0.66	0.52	0.08	-0.26	-0.35	-0.51	-0.74	-0.77	-0.77	-0.54	-0.28	0.74	2.34	0.84	0.99	1.86	3.22	2.57	0.64	3.22	-0.77
12	1.00	0.55	0.47	0.92	1.89	1.47	1.02	1.03	0.28	-0.23	-0.32	-0.41	-0.55	-0.59	-0.53	-0.41	-0.09	1.03	0.98	2.17	3.09	2.29	1.55	2.44	0.79	3.09	-0.59
13	1.07	0.98	1.00	0.61	0.80	0.84	1.04	1.04	0.37	-0.10	-0.54	-0.79	-0.99	-0.83	-0.84	-0.73	-0.50	1.29	2.25	2.24	1.53	1.55	1.05	1.08	0.56	2.25	-0.99
14	1.47	1.02	0.80	0.96	1.37	1.54	1.02	1.84	0.14	-0.60	-0.79	-0.41	-0.83	-1.01	-0.87	-0.65	-0.07	1.14	2.10	1.41	1.74	1.55	1.33	1.12	0.64	2.10	-1.01
15	1.53	1.28	1.30	0.99	0.81	1.04	1.36	0.72	0.17	-0.12	-0.40	-0.17	-0.47	-0.67	-0.33	-0.02	0.21	0.60	2.11	1.49	1.14	1.70	1.75	1.26	0.72	2.11	-0.67
16	1.12	0.80	1.37	1.48	1.73	1.56	1.38	1.62	0.38	-0.56	-0.82	-0.79	-0.95	-0.99	-0.70	-0.38	-0.12	0.48	0.79	1.66	0.80	0.92	0.95	0.82	0.52	1.73	-0.99
17	1.66	1.05	1.60	1.76	1.47	1.41	1.54	1.40	0.12	-0.64	-0.77	-0.48	-0.75	-0.93	-1.00	-0.70	-0.38	1.20	2.15	1.14	2.29	1.81	1.79	1.44	0.76	2.29	-1.00
18	1.43	1.21	1.19	2.12	2.24	2.24	3.63	3.74	1.26	0.19	-0.26	-0.36	-0.63	-0.51	-0.83	-0.42	0.52	1.64	1.60	2.02	2.00	1.95	1.81	1.72	1.23	3.74	-0.83
19	1.38	1.99	1.27	1.87	1.82	1.96	2.21	2.10	0.25	-0.46	-0.82	-0.79	-0.66	-0.85	-0.66	-0.58	-0.30	0.94	1.55	0.54	0.54	1.10	1.05	0.47	0.66	2.21	-0.85
20	1.14	1.54	1.69	2.02	1.36	1.50	1.91	1.32	0.28	-0.75	-0.45	-0.55	-0.82	-0.91	-0.97	-0.71	-0.35	0.36	2.56	1.35	1.31	1.59	1.46	1.79	0.74	2.56	-0.97
21	0.90	1.52	1.46	0.99	2.50	4.89	5.61	5.03	1.56	-0.17	-0.28	-0.42	-0.57	-0.66	-0.61	-0.43	0.08	0.77	2.65	1.71	1.63	0.86	0.57	1.43	1.29	5.61	-0.66
22	1.32	1.45	1.49	1.59	1.12	1.27	0.77	1.18	0.56	-0.10	-0.31	-0.42	-0.55	-0.53	-0.52	-0.37	0.06	0.53	1.47	0.94	0.77	1.50	2.13	1.67	0.71	2.13	-0.55
23	1.43	1.55	1.40	1.15	1.02	1.00	0.92	0.87	0.61	0.09	-0.26	-0.49	-0.74	-0.73	-0.53	-0.18	0.20	1.47	1.68	1.37	1.61	1.55	1.47	1.88	0.76	1.88	-0.74
24	1.53	1.19	2.23	1.18	1.79	2.22	1.56	1.25	0.01	-0.56	-0.71	-0.97	-0.91	-1.11	-1.01	-0.72	-0.35	0.82	2.42	0.76	1.87	1.63	2.58	1.84	0.77	2.58	-1.11
25	2.13	1.32	0.84	0.60	0.78	1.15	1.17	1.14	0.05	-0.45	-0.80	-0.86	-1.00	-0.99	-0.80	-0.72	-0.45	0.49	1.97	1.42	1.12	2.38	1.46	0.24	0.51	2.38	-1.00
26	0.24	0.31	0.60	0.61	0.89	0.85	0.71	0.56	0.14	--	--	--	-0.84	-0.77	-0.62	-0.43	-0.19	0.68	2.99	2.98	2.40	1.22	0.79	1.31	0.69	2.99	-0.84
27	0.42	0.28	0.37	0.88	0.77	1.21	1.03	0.78	0.10	-0.42	-0.47	-0.55	-0.70	-0.87	-0.92	-0.94	-0.41	1.07	2.20	2.07	2.88	1.41	1.87	1.91	0.58	2.88	-0.94
28	1.43	1.24	0.55	0.62	0.54	0.38	0.42	0.46	0.12	-0.14	-0.58	-1.04	-1.01	-1.03	-0.79	-0.55	-0.39	1.24	2.76	1.31	2.49	2.81	1.29	2.06	0.59	2.81	-1.04
29	1.03	1.42	1.59	2.44	1.97	2.01	2.18	1.89	0.14	-0.67	-0.71	-0.58	-0.83	-0.72	-0.78	-0.49	-0.16	1.76	2.35	2.57	2.51	2.17	1.94	2.39	1.06	2.57	-0.83
30	1.75	2.21	1.09	1.60	1.53	1.80	1.77	1.54	-0.15	-0.53	-0.59	-0.85	-0.94	-1.09	-0.98	-0.42	-0.28	0.66	1.81	1.84	1.84	2.22	1.72	1.55	0.80	2.22	-1.09
31	1.75	2.77	3.02	2.53	1.86	1.66	1.76	2.00	0.14	-0.77	-0.77	-0.90	-0.92	-0.32	-0.30	-0.02	0.28	0.36	0.28	0.32	0.35	0.33	0.22	0.11	0.66	3.02	-0.92
Avg	0.98	1.00	1.00	1.07	1.14	1.18	1.21	1.14	0.24	-0.28	-0.45	-0.53	-0.65	-0.70	-0.65	-0.44	-0.13	0.72	1.46	1.18	1.26	1.27	1.18	1.14	0.56	--	--
Max	2.13	2.77	3.02	2.53	2.50	4.89	5.61	5.03	1.56	0.27	0.16	0.13	0.16	-0.08	-0.10	-0.02	0.52	1.76	2.99	2.98	3.09	2.81	3.22	2.57	--	5.61	--
Min	0.01	0.10	0.11	0.06	0.05	0.03	0.00	0.00	-0.15	-0.77	-0.82	-1.04	-1.01	-1.11	-1.01	-0.94	-0.50	-0.05	-0.01	-0.05	-0.02	0.06	0.07	0.11	--	--	-1.11

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, DeltaT"
Month: Feb 2016

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	0.02	0.38	0.37	0.31	0.22	0.30	0.27	0.23	0.18	0.15	-0.04	0.01	0.18	0.09	0.15	0.11	-0.03	0.00	0.16	0.25	0.45	0.83	1.22	1.86	0.32	1.86	-0.04
2	1.38	1.01	0.64	0.49	0.65	0.96	1.20	0.74	-0.21	-0.54	-0.72	-0.77	-1.06	-1.11	-1.09	-0.92	-0.58	0.06	0.91	0.68	1.50	1.47	1.30	1.16	0.30	1.50	-1.11
3	1.13	1.45	1.28	1.26	1.60	2.03	1.45	0.64	0.21	-0.21	-0.55	-0.80	-1.03	-0.97	-1.01	-0.72	-0.52	0.10	1.90	1.00	0.65	1.90	0.50	0.35	0.49	2.03	-1.03
4	0.38	0.54	0.29	0.32	0.38	0.34	0.86	0.75	0.05	-0.29	-0.40	-0.57	-0.55	-0.74	-0.68	-0.67	-0.46	0.33	2.89	3.03	2.88	0.91	1.69	0.78	0.50	3.03	-0.74
5	0.91	0.92	0.74	0.74	0.73	0.50	0.32	0.50	0.02	-0.42	-0.54	-0.58	-0.65	-0.81	-0.77	-0.57	-0.32	0.13	0.60	0.61	1.30	0.61	0.44	0.29	0.20	1.30	-0.81
6	0.40	0.32	0.29	0.27	0.26	0.27	0.23	0.26	0.04	-0.23	-0.40	-0.54	-0.68	-0.68	-0.59	-0.47	-0.26	0.28	1.24	1.55	0.94	1.29	0.72	0.62	0.21	1.55	-0.68
7	0.65	0.95	1.29	1.12	0.82	0.53	0.60	0.70	0.14	-0.26	-0.37	-0.57	-0.75	-0.64	-0.70	-0.44	-0.20	0.22	0.74	0.49	0.40	0.49	0.42	0.42	0.25	1.29	-0.75
8	0.25	0.25	0.22	0.41	0.34	0.31	0.37	0.33	0.03	-0.22	-0.34	-0.46	-0.59	-0.58	-0.52	-0.43	-0.27	0.29	2.94	3.62	1.34	0.82	0.65	0.45	0.39	3.62	-0.59
9	0.66	0.39	0.57	0.73	0.52	0.36	0.26	0.23	0.01	-0.19	-0.39	-0.56	-0.66	-0.87	-0.69	-0.50	-0.29	0.41	2.72	2.24	1.89	1.14	2.30	1.19	0.48	2.72	-0.87
10	1.10	1.03	0.52	1.71	1.08	1.01	1.47	1.41	0.27	-0.18	-0.38	-0.57	-0.63	-0.70	-0.75	-0.82	-0.50	0.84	2.33	1.40	1.72	1.88	1.77	1.89	0.71	2.33	-0.82
11	2.19	3.21	2.40	2.05	2.80	2.90	3.47	2.99	0.11	-0.37	-0.50	-0.59	-0.78	-0.86	-0.91	-0.74	-0.46	0.16	2.47	1.18	2.31	1.78	2.67	1.91	1.23	3.47	-0.91
12	1.57	0.81	0.72	0.69	0.75	0.87	0.57	0.57	0.21	-0.37	-0.69	-0.61	-0.89	-0.93	-0.83	-0.65	-0.38	0.39	2.22	2.21	1.42	1.40	1.79	3.52	0.60	3.52	-0.93
13	2.77	2.84	1.31	1.19	1.31	2.18	2.15	1.94	0.09	-0.34	-0.43	-0.61	-0.83	-0.97	-0.83	-0.75	-0.49	0.14	3.43	1.30	2.29	1.83	2.01	2.53	1.00	3.43	-0.97
14	2.46	2.26	1.80	1.79	2.31	2.29	1.95	1.17	-0.02	-0.51	-0.55	-0.83	-0.84	-0.90	-0.90	-0.85	-0.36	0.49	3.00	1.91	1.69	2.45	1.92	2.49	1.01	3.00	-0.90
15	1.94	2.17	2.37	2.74	1.11	0.61	0.58	0.69	0.10	-0.39	-0.50	-0.60	-0.70	-0.83	-0.88	-0.73	-0.47	0.09	2.37	1.63	2.29	2.27	0.98	0.67	0.73	2.74	-0.88
16	0.84	2.18	1.86	0.69	0.44	0.38	0.61	0.76	0.19	-0.40	-0.61	-0.84	-0.79	-0.96	-0.96	-0.83	-0.55	0.08	1.86	1.80	1.38	1.78	2.16	2.91	0.58	2.91	-0.96
17	3.45	3.17	2.85	2.86	2.76	1.97	2.23	2.30	0.20	-0.49	-0.67	-1.01	-1.22	-0.96	-1.05	-0.77	-0.45	0.21	2.66	1.95	2.93	2.47	1.60	2.27	1.22	3.45	-1.22
18	2.43	2.93	2.77	2.87	2.81	3.03	2.45	1.93	-0.21	-0.73	-0.53	-0.31	-0.55	-0.40	-0.40	-0.24	0.04	1.43	1.45	1.76	1.79	2.19	1.38	2.45	1.26	3.03	-0.73
19	1.64	1.98	2.23	1.53	1.30	1.97	1.64	1.02	0.33	-0.53	-0.65	-0.76	-0.82	-0.49	-0.48	-0.54	-0.28	0.88	2.64	1.80	2.11	2.53	1.97	2.74	0.99	2.74	-0.82
20	2.45	2.22	3.47	2.92	2.90	2.69	2.45	2.26	-0.13	-0.63	-0.51	-0.81	-0.99	-1.13	-0.99	-0.86	-0.51	0.04	2.38	1.73	2.13	2.81	2.25	1.85	1.17	3.47	-1.13
21	2.20	2.39	2.40	2.51	2.18	1.57	1.31	1.48	-0.26	-0.59	-0.55	-1.07	-1.11	-0.95	-1.02	-0.96	-0.56	-0.02	1.55	1.97	2.07	2.75	1.92	2.64	0.91	2.75	-1.11
22	2.82	2.13	2.30	2.11	2.16	1.91	2.14	1.14	-0.24	-0.73	-0.78	-1.02	-1.34	-1.24	-1.07	-0.86	-0.50	0.02	0.46	0.74	1.31	0.84	2.79	1.14	0.68	2.82	-1.34
23	2.62	0.90	1.49	1.70	1.36	1.30	1.32	0.88	-0.02	-0.51	-0.80	-0.99	-1.21	-1.01	-0.77	-0.56	-0.76	-0.09	2.72	2.52	3.22	2.85	2.89	0.73	0.83	3.22	-1.21
24	0.51	1.17	0.99	0.39	0.40	0.32	0.27	0.24	-0.12	-0.44	-0.62	-0.86	-1.01	-1.10	-1.03	-0.95	-0.57	-0.07	1.08	2.08	1.35	1.19	0.85	1.05	0.21	2.08	-1.10
25	0.74	1.16	1.39	1.25	1.05	0.84	0.87	0.72	-0.12	-0.64	-0.88	-0.90	-1.06	-1.00	-1.00	-0.88	-0.61	-0.18	3.05	2.43	2.45	1.99	3.11	3.69	0.73	3.69	-1.06
26	2.13	1.23	1.19	1.14	1.44	1.98	1.80	0.69	0.06	-0.28	-0.55	-0.67	-0.87	-0.97	-0.79	-0.75	-0.55	-0.03	3.03	2.09	1.55	2.80	2.69	3.25	0.90	3.25	-0.97
27	3.28	3.38	3.23	3.97	3.20	3.23	3.94	1.20	0.18	-0.57	-0.79	-0.77	-0.96	-1.07	-1.12	-0.96	-0.60	-0.08	3.05	2.37	1.50	3.16	3.20	3.36	1.47	3.97	-1.12
28	2.36	2.60	2.27	2.79	2.01	2.71	2.46	1.19	-0.43	-0.74	-0.54	-0.76	-1.14	-1.15	-1.12	-0.93	-0.61	0.14	2.42	2.09	1.69	1.81	1.81	1.95	0.95	2.79	-1.15
29	1.78	2.34	1.87	2.60	1.77	2.57	2.46	1.42	-0.46	-0.64	-0.71	-0.77	-0.89	-1.16	-1.21	-0.99	-0.71	-0.13	2.10	2.06	1.58	2.28	1.15	2.04	0.85	2.60	-1.21
Avg	1.62	1.67	1.56	1.56	1.40	1.45	1.44	1.05	0.01	-0.42	-0.55	-0.70	-0.84	-0.87	-0.83	-0.70	-0.44	0.21	2.08	1.74	1.73	1.81	1.73	1.80	0.73	--	--
Max	3.45	3.38	3.47	3.97	3.20	3.23	3.94	2.99	0.33	0.15	-0.04	0.01	0.18	0.09	0.15	0.11	0.04	1.43	3.43	3.62	3.22	3.16	3.20	3.69	--	3.97	--
Min	0.02	0.25	0.22	0.27	0.22	0.27	0.23	0.23	-0.46	-0.74	-0.88	-1.07	-1.34	-1.24	-1.21	-0.99	-0.76	-0.18	0.16	0.25	0.40	0.49	0.42	0.29	--	--	-1.34

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, DeltaT"
Month: Mar 2016

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	2.94	1.77	2.44	2.74	2.91	2.43	2.18	1.15	-0.33	-0.60	-0.66	-0.96	-1.13	-1.11	-0.93	-0.84	-0.40	0.02	2.61	1.33	2.25	2.50	2.23	2.16	1.03	2.94	-1.13
2	1.73	2.37	2.20	1.98	2.68	2.65	2.86	1.72	-0.47	-0.63	-0.62	-0.84	-1.16	-0.96	-0.83	-0.84	-0.60	-0.08	2.81	2.57	2.44	2.73	2.46	1.90	1.09	2.86	-1.16
3	2.92	2.15	2.94	3.53	3.20	3.07	3.03	2.64	0.33	-0.54	-0.89	-0.88	-0.91	-0.89	-0.78	-0.72	-0.30	0.37	2.59	2.02	1.42	2.27	2.33	2.11	1.29	3.53	-0.91
4	2.86	1.79	2.38	1.98	2.26	2.54	3.40	2.49	-0.10	-0.59	-0.87	-0.97	-1.10	-1.05	-1.00	-0.86	-0.35	1.07	2.46	3.01	2.50	2.74	2.17	2.55	1.22	3.40	-1.10
5	3.52	3.26	1.97	1.61	1.71	1.91	2.65	2.59	-0.25	-0.73	-0.73	-1.05	-1.03	-1.21	-0.86	-0.59	-0.13	0.91	1.62	2.97	1.47	1.01	1.42	1.83	0.99	3.52	-1.21
6	1.50	1.05	1.49	1.53	2.08	1.63	1.36	1.23	0.32	-0.26	-0.74	-1.12	-1.30	-0.78	-0.56	-0.72	-0.58	-0.25	0.41	0.91	2.47	0.95	0.43	0.80	0.49	2.47	-1.30
7	0.58	0.50	1.99	1.76	1.54	1.77	2.23	0.62	-0.40	-0.66	-0.94	-1.35	-1.47	-1.32	-1.32	-0.96	-0.51	-0.14	0.10	0.60	2.18	0.99	1.49	0.50	0.32	2.23	-1.47
8	1.97	0.32	0.20	1.36	1.50	0.86	0.83	-0.06	-0.53	-0.74	-1.14	-1.44	-1.56	-1.62	-1.56	-1.29	-0.84	-0.35	0.38	2.36	1.83	0.91	1.77	1.65	0.20	2.36	-1.62
9	1.31	2.05	1.75	1.26	1.18	1.93	2.50	0.98	-0.59	-0.63	-0.80	-1.35	-1.38	-1.46	-1.30	-1.18	-0.84	-0.22	0.84	3.03	1.33	2.09	1.90	2.51	0.62	3.03	-1.46
10	2.58	1.96	1.56	1.54	2.13	2.72	1.22	1.28	-0.07	-0.53	-0.95	-1.22	-1.26	-1.27	-1.11	-0.98	-0.89	-0.30	1.99	3.25	1.47	1.82	1.70	3.24	0.83	3.25	-1.27
11	2.88	3.06	3.36	3.66	3.90	3.90	2.73	0.90	0.01	-0.48	-0.65	-0.83	-1.03	-0.84	-0.90	-0.71	-0.22	0.23	0.71	2.96	3.25	1.74	2.25	2.43	1.35	3.90	-1.03
12	0.69	0.53	0.33	0.33	0.22	0.16	0.31	0.10	-0.48	-0.95	-1.28	-1.36	-1.63	-1.65	-1.58	-1.48	-0.97	-0.46	0.98	2.55	1.18	1.37	2.04	2.05	0.04	2.55	-1.65
13	1.68	1.75	--	1.74	1.25	1.89	2.01	0.90	-0.53	-0.88	-0.93	-1.35	-1.44	-1.49	-1.46	-1.24	-0.89	-0.17	1.15	2.17	1.19	1.80	2.52	2.29	0.52	2.52	-1.49
14	2.26	1.90	2.01	2.02	1.44	1.46	1.86	0.26	-0.54	-0.68	-0.97	-1.30	-1.50	-1.46	-1.49	-1.30	-0.92	-0.40	0.59	2.84	1.62	2.05	1.41	1.65	0.53	2.84	-1.50
15	0.97	1.52	1.09	1.91	1.65	1.34	2.26	0.97	-0.35	-0.59	-1.05	-1.39	-1.27	-1.16	-1.22	-0.94	-0.52	0.06	0.93	3.19	2.13	3.25	3.26	2.00	0.75	3.26	-1.39
16	2.56	2.45	2.80	2.76	2.74	3.29	4.12	1.83	-0.06	-0.48	-0.75	-1.04	-1.13	-1.20	-1.20	-1.19	-0.83	-0.27	1.06	3.10	1.95	2.75	2.45	2.37	1.17	4.12	-1.20
17	2.18	2.78	2.97	2.69	3.46	3.59	3.67	1.36	-0.42	-0.72	-0.71	-1.10	-1.41	-1.43	-1.29	-1.13	-0.75	-0.19	2.43	3.30	2.19	2.83	2.14	2.06	1.19	3.67	-1.43
18	2.32	1.92	2.63	2.99	2.19	2.71	2.81	0.46	-0.63	-0.36	-0.74	-1.23	-1.52	-1.43	-1.47	-1.21	-0.81	-0.23	1.78	2.64	2.37	3.36	3.43	2.97	1.04	3.43	-1.52
19	2.98	2.70	2.14	2.42	3.07	2.49	3.04	0.70	-0.59	-0.70	-0.81	-1.27	-1.45	-1.47	-1.43	-1.08	-0.85	-0.23	1.70	2.82	2.26	3.21	3.24	1.39	1.01	3.24	-1.47
20	2.19	2.89	2.09	3.46	3.48	3.72	3.30	1.31	-0.22	-0.56	-0.92	-0.87	-0.95	-0.97	-0.98	-0.89	-0.54	-0.10	2.75	2.86	2.16	2.76	2.11	1.17	1.22	3.72	-0.98
21	1.66	2.59	2.42	3.66	2.24	1.30	1.54	0.52	-0.41	-0.68	-1.02	-1.04	-0.61	-1.20	-1.23	-1.07	-0.69	-0.14	2.59	3.03	1.98	3.25	3.47	2.79	1.04	3.66	-1.23
22	1.98	2.20	2.80	2.16	2.41	2.93	2.61	0.34	-0.16	-0.67	-1.14	-1.40	-1.43	-1.45	-1.21	-1.09	-0.76	-0.31	0.18	0.35	0.41	0.41	0.57	2.59	0.51	2.93	-1.45
23	3.16	2.70	1.09	1.69	1.43	0.88	1.31	-0.12	-0.38	-1.03	-1.22	-1.45	-1.65	-1.69	-1.63	-1.44	-1.05	-0.49	0.42	2.17	1.93	1.60	2.20	2.30	0.45	3.16	-1.69
24	3.01	1.73	2.82	1.04	1.42	2.56	1.66	0.11	-0.43	-0.70	-1.01	-1.09	-1.21	-1.45	-1.42	-1.41	-0.94	-0.46	0.71	2.78	1.12	2.43	2.19	2.13	0.65	3.01	-1.45
25	2.23	2.00	2.60	2.73	2.79	2.52	2.23	0.04	-0.67	-0.80	-1.07	-1.49	-1.61	-1.52	-1.51	-1.39	-0.98	-0.41	1.57	3.25	2.55	2.94	3.12	2.72	0.91	3.25	-1.61
26	2.49	2.18	2.63	2.57	2.44	2.57	3.07	0.24	-0.57	-0.80	-1.34	-1.48	-1.58	-1.53	-1.61	-1.37	-0.99	-0.44	0.90	3.21	1.34	3.29	2.64	2.32	0.84	3.29	-1.61
27	3.32	1.65	0.91	1.01	0.71	0.83	0.77	-0.05	-0.57	-0.91	-1.21	-1.50	-1.46	-1.52	-1.59	-1.35	-1.04	-0.40	1.84	3.27	2.98	3.16	3.02	2.31	0.59	3.32	-1.59
28	2.18	2.18	2.04	1.49	1.44	1.84	1.71	-0.24	-0.28	-0.88	-1.28	-1.41	-1.33	-1.37	-0.79	-0.40	-0.47	-0.08	0.22	0.25	0.37	0.36	0.35	0.23	0.26	2.18	-1.41
29	0.23	0.27	0.35	0.33	0.35	0.36	0.24	-0.22	-0.39	-0.34	-0.59	-0.29	-0.44	-0.75	-0.94	-0.90	-0.73	-0.51	0.38	0.80	2.29	2.14	1.26	1.19	0.17	2.29	-0.94
30	1.96	2.72	1.24	0.52	0.98	1.53	1.65	-0.14	-0.62	-0.89	-1.27	-1.75	-1.57	-1.50	-1.62	-1.09	-1.07	-0.58	0.08	1.52	2.64	1.55	1.55	1.48	0.31	2.72	-1.75
31	1.58	0.97	1.66	2.57	2.11	2.48	2.18	-0.39	-0.75	-1.09	-1.42	-1.39	-1.51	-1.10	-0.93	-1.21	-1.05	-0.60	0.46	1.28	1.90	1.82	2.68	2.89	0.55	2.89	-1.51
Avg	2.14	1.93	1.96	2.03	2.03	2.13	2.17	0.76	-0.36	-0.68	-0.96	-1.20	-1.29	-1.29	-1.22	-1.06	-0.73	-0.17	1.27	2.34	1.91	2.13	2.12	2.02	0.75	--	--
Max	3.52	3.26	3.36	3.66	3.90	3.90	4.12	2.64	0.33	-0.26	-0.59	-0.29	-0.44	-0.75	-0.56	-0.40	-0.13	1.07	2.81	3.30	3.25	3.36	3.47	3.24	--	4.12	--
Min	0.23	0.27	0.20	0.33	0.22	0.16	0.24	-0.39	-0.75	-1.09	-1.42	-1.75	-1.65	-1.69	-1.63	-1.48	-1.07	-0.60	0.08	0.25	0.37	0.36	0.35	0.23	--	--	-1.75

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Temp_2m_C"
Month: Jan 2016

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	1.6	7.4	7.1	2.7	0.2	1.7	3.8	8.2	10.7	12.6	14.2	16.0	17.4	18.0	18.3	18.0	16.2	13.7	12.5	11.8	11.0	10.6	10.6	10.1	10.6	18.3	0.2
2	9.6	9.5	9.5	9.5	9.1	9.1	9.0	9.1	10.0	11.5	12.9	14.3	15.8	16.9	17.6	17.5	16.5	14.3	12.5	13.0	12.3	10.9	10.8	11.3	12.2	17.6	9.0
3	11.1	10.4	9.2	9.5	9.9	9.9	9.7	9.9	11.1	12.8	14.0	15.3	16.6	17.6	17.9	17.6	16.1	15.1	14.7	14.9	14.8	14.7	14.5	14.2	13.4	17.9	9.2
4	13.6	13.0	12.8	12.5	12.1	12.1	12.7	12.3	12.2	13.6	13.1	13.7	11.5	9.1	9.7	11.5	12.3	11.4	11.5	11.3	11.0	10.9	10.2	9.5	11.8	13.7	9.1
5	8.9	9.0	8.6	9.2	8.8	8.3	8.2	8.3	8.5	8.8	9.8	11.4	12.4	13.5	13.4	13.1	12.0	10.9	10.4	10.2	10.4	10.7	10.7	10.8	10.3	13.5	8.2
6	10.1	10.0	10.1	10.5	9.8	7.7	7.1	7.3	8.1	8.9	10.1	10.6	11.3	12.2	11.5	11.3	11.6	9.3	7.4	6.3	5.2	4.9	5.4	6.0	8.9	12.2	4.9
7	5.9	6.1	6.8	7.0	7.3	8.0	7.8	8.3	8.7	8.7	7.8	7.4	6.6	6.0	5.9	5.9	6.1	5.6	5.0	4.3	4.4	4.4	4.3	4.3	6.4	8.7	4.3
8	4.7	4.8	5.3	5.6	5.5	5.3	5.2	5.4	5.6	5.9	5.5	6.0	6.0	6.4	7.5	7.1	6.7	6.6	6.0	5.4	5.6	5.7	5.7	5.4	5.8	7.5	4.7
9	5.1	5.2	5.3	4.4	2.2	1.7	1.0	0.6	2.7	5.8	8.3	9.7	9.9	11.2	11.8	11.3	10.8	8.8	5.9	4.6	3.5	2.5	2.1	1.5	5.7	11.8	0.6
10	1.5	0.6	0.4	0.7	0.5	1.2	2.2	3.5	5.0	8.2	9.5	10.1	10.9	11.1	10.9	10.9	10.1	8.9	8.6	6.6	5.5	4.7	3.1	2.3	5.7	11.1	0.4
11	1.3	1.2	1.3	1.9	5.5	3.8	5.8	5.8	6.6	8.1	9.0	10.3	11.8	12.5	13.2	13.2	12.7	10.8	5.1	5.0	3.3	2.3	2.8	4.6	6.6	13.2	1.2
12	3.7	2.4	2.4	1.8	1.4	2.9	3.7	4.5	7.9	10.4	11.7	13.3	14.8	15.8	16.4	16.6	15.5	13.0	11.9	7.2	6.9	6.0	9.0	5.9	8.5	16.6	1.4
13	4.4	3.7	4.4	4.1	4.1	4.8	5.9	6.2	8.6	12.3	14.5	16.4	16.5	15.2	16.5	17.4	17.4	13.2	7.4	4.8	4.2	3.3	2.8	2.2	8.8	17.4	2.2
14	1.0	1.2	0.9	1.3	0.0	-1.1	-0.9	-1.2	2.3	8.1	12.2	14.1	15.1	15.6	15.9	15.7	14.3	11.2	6.8	5.0	3.5	2.5	1.8	1.3	6.1	15.9	-1.2
15	0.5	0.4	-0.1	0.1	0.6	0.5	0.0	0.2	1.7	4.8	9.4	11.2	12.5	13.1	12.7	12.1	11.2	10.2	5.6	3.5	3.0	2.1	1.5	1.2	4.9	13.1	-0.1
16	0.9	0.4	0.0	-0.3	-1.1	-0.2	0.5	-0.6	2.5	7.5	11.5	13.2	14.0	14.0	14.1	13.8	12.9	11.3	10.0	8.3	7.2	6.8	5.6	5.3	6.6	14.1	-1.1
17	3.8	3.0	2.2	1.3	0.9	0.0	0.1	-0.4	3.2	8.4	12.7	15.0	16.4	17.1	17.6	17.8	17.1	13.1	7.7	7.0	4.9	4.1	3.3	2.1	7.4	17.8	-0.4
18	1.6	1.0	0.8	0.4	-0.1	0.6	1.2	1.6	7.4	12.0	16.9	19.1	19.7	19.6	20.9	20.6	18.9	14.5	12.9	8.4	6.3	5.2	4.6	3.5	9.1	20.9	-0.1
19	3.1	1.9	2.0	1.4	1.0	0.6	0.2	-0.3	4.7	11.3	16.3	17.5	17.7	18.6	18.1	17.7	17.6	14.8	11.1	11.1	10.9	9.8	9.5	12.1	9.5	18.6	-0.3
20	11.7	7.6	5.3	4.0	3.6	3.0	1.7	1.9	5.4	11.1	14.7	16.6	17.1	17.5	18.1	18.0	17.1	15.1	10.3	9.0	7.0	5.9	5.2	4.6	9.6	18.1	1.7
21	5.0	4.3	4.3	3.4	2.1	3.6	2.3	1.7	9.4	13.6	14.7	15.9	17.4	18.7	19.4	19.4	18.0	15.9	10.6	8.3	10.9	13.7	14.1	11.3	10.7	19.4	1.7
22	11.1	10.7	9.7	9.7	9.7	10.0	11.5	9.0	11.2	15.6	17.1	18.6	20.1	21.1	21.9	22.1	20.7	18.3	14.2	13.2	11.7	10.6	9.7	10.4	14.1	22.1	9.0
23	10.2	9.9	9.9	9.2	8.9	8.5	8.6	9.1	11.1	16.9	19.4	21.4	22.8	23.3	23.2	22.8	21.1	17.2	13.4	11.4	9.6	8.2	7.1	6.1	13.7	23.3	6.1
24	4.9	4.9	3.0	3.0	1.7	1.2	1.2	1.4	5.4	10.6	13.7	14.9	15.6	16.0	16.1	16.0	15.5	12.8	7.8	6.5	4.7	3.6	2.2	2.0	7.7	16.1	1.2
25	1.7	1.9	2.7	3.4	3.3	2.8	2.5	3.2	6.5	11.0	14.1	15.0	15.5	15.9	16.1	16.2	15.7	13.5	9.0	6.3	5.0	3.5	8.6	11.4	8.5	16.2	1.7
26	10.7	9.9	9.1	8.5	7.6	7.6	8.0	8.0	9.0	--	--	--	15.2	16.2	16.9	17.2	17.1	15.3	9.1	6.1	9.4	11.4	11.6	10.5	11.2	17.2	6.1
27	11.4	11.3	10.9	9.7	9.3	8.7	8.4	8.7	11.0	13.3	14.2	15.6	17.1	18.1	19.1	19.5	18.0	14.9	9.2	6.5	4.2	4.6	4.1	3.7	11.3	19.5	3.7
28	4.1	4.5	4.5	5.5	5.7	5.8	5.6	5.8	9.1	13.6	17.4	18.9	19.6	19.8	20.1	20.0	19.9	16.3	9.5	8.3	5.8	4.1	5.0	3.0	10.5	20.1	3.0
29	3.4	2.6	2.9	1.1	0.8	0.1	-0.5	-0.4	5.3	12.6	16.9	18.8	19.8	19.8	20.5	19.9	19.1	14.5	9.4	6.9	5.1	4.4	4.7	3.8	8.8	20.5	-0.5
30	3.3	2.6	3.2	2.6	2.1	1.7	1.4	1.1	6.4	13.4	17.7	19.8	20.6	21.3	21.6	20.7	20.6	18.4	12.6	9.5	8.6	8.6	7.0	6.3	10.5	21.6	1.1
31	6.3	6.4	4.5	4.2	3.4	2.6	2.2	1.8	7.3	14.0	18.5	20.0	20.6	19.8	20.4	20.3	20.4	20.6	19.7	18.3	17.3	16.5	16.0	14.6	13.2	20.6	1.8
Avg	5.7	5.4	5.1	4.8	4.4	4.3	4.4	4.5	7.2	10.8	13.2	14.7	15.4	15.8	16.2	16.2	15.5	13.2	9.9	8.4	7.5	7.0	6.9	6.5	9.3	--	--
Max	13.6	13.0	12.8	12.5	12.1	12.1	12.7	12.3	12.2	16.9	19.4	21.4	22.8	23.3	23.2	22.8	21.1	20.6	19.7	18.3	17.3	16.5	16.0	14.6	--	23.3	--
Min	0.5	0.4	-0.1	-0.3	-1.1	-1.1	-0.9	-1.2	1.7	4.8	5.5	6.0	6.0	6.0	5.9	5.9	6.1	5.6	5.0	3.5	3.0	2.1	1.5	1.2	--	--	-1.2

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Temp_2m_C"
Month: Feb 2016

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	8.5	8.1	7.5	7.2	6.6	6.0	6.0	6.0	5.0	4.9	3.1	3.7	4.7	5.2	5.6	5.7	5.3	5.3	4.7	4.5	4.2	3.7	3.1	2.3	5.3	8.5	2.3
2	2.2	-0.1	-0.9	-1.3	-1.9	-2.7	-3.4	-3.6	-0.3	2.9	4.7	5.7	6.2	6.6	7.2	7.6	7.7	6.6	4.6	1.9	-0.3	-1.7	-2.2	-2.6	1.8	7.7	-3.6
3	-3.0	-3.9	-3.9	-4.1	-4.5	-5.1	-4.1	-2.3	1.6	5.9	7.6	8.9	9.7	10.4	11.4	11.5	11.0	9.3	4.7	2.3	1.4	2.9	6.5	6.4	3.4	11.5	-5.1
4	6.4	5.9	6.0	5.8	5.4	5.4	4.5	4.7	6.7	8.9	10.5	11.5	12.2	13.8	14.5	15.0	15.1	13.6	7.4	4.3	3.2	4.2	7.5	9.1	8.4	15.1	3.2
5	8.8	8.8	8.9	8.8	8.9	9.0	8.9	8.5	9.8	11.4	12.6	13.8	14.5	15.7	16.5	16.8	16.7	15.3	13.1	12.6	10.5	11.2	11.3	11.2	11.8	16.8	8.5
6	10.7	10.5	10.4	10.3	10.4	10.4	10.2	10.5	11.9	13.7	15.4	17.2	18.6	19.7	20.5	20.7	20.7	19.2	14.8	9.0	8.7	11.8	14.9	14.8	14.0	20.7	8.7
7	14.4	13.5	11.6	12.7	12.9	13.1	12.9	12.7	15.0	17.1	18.3	20.0	21.9	23.2	24.4	24.7	23.8	22.3	20.2	19.9	19.2	18.4	18.1	17.5	17.8	24.7	11.6
8	17.3	17.0	16.9	16.2	16.2	16.0	15.6	15.5	16.8	18.0	19.9	22.1	23.8	25.0	25.6	26.2	26.7	25.2	20.1	17.7	19.8	19.5	18.9	19.1	19.8	26.7	15.5
9	18.4	18.2	17.3	16.8	16.5	16.7	17.0	16.9	17.4	18.9	20.9	23.0	24.4	25.7	26.3	26.2	26.1	24.3	16.4	12.4	11.4	10.8	14.8	17.1	18.9	26.3	10.8
10	16.8	16.6	17.7	15.0	15.0	15.7	14.6	14.0	17.0	20.9	22.5	24.0	25.2	26.2	26.9	27.2	26.9	23.1	16.7	14.4	12.2	10.8	10.1	9.2	18.3	27.2	9.2
11	8.3	7.5	7.7	7.8	5.7	4.8	3.8	6.1	13.3	19.5	23.4	24.1	24.7	25.7	26.1	26.5	26.1	24.0	16.5	14.2	11.5	10.4	8.4	9.0	14.8	26.5	3.8
12	9.8	11.0	11.0	10.9	11.0	10.2	9.7	10.9	13.9	20.8	24.0	25.4	27.0	28.2	28.3	28.2	27.8	25.5	17.6	13.9	13.4	11.9	10.6	7.1	17.0	28.3	7.1
13	7.8	8.2	10.1	10.1	9.6	8.3	7.7	8.3	14.6	21.7	24.7	26.1	25.6	25.8	26.5	27.3	27.0	24.6	17.1	14.0	10.5	9.3	8.2	7.0	15.8	27.3	7.0
14	5.9	5.9	5.1	4.9	4.1	3.8	3.3	3.8	11.2	19.2	21.3	22.2	23.3	24.5	25.0	24.7	23.8	21.3	15.7	12.7	10.9	8.7	8.2	6.7	13.2	25.0	3.3
15	6.8	6.3	5.0	4.9	16.4	17.7	17.3	17.5	19.1	20.9	22.2	23.4	25.1	25.6	26.2	26.5	26.0	24.3	19.0	14.9	11.5	10.3	11.0	11.2	17.0	26.5	4.9
16	12.0	11.3	13.6	19.0	20.1	19.5	18.8	17.7	19.9	21.6	23.8	25.1	26.1	27.9	28.2	28.2	27.9	26.2	18.8	15.9	14.4	12.7	11.2	8.4	19.5	28.2	8.4
17	7.6	8.6	7.8	6.2	5.0	4.2	4.5	6.0	14.4	22.0	25.8	27.4	28.5	29.1	29.9	29.6	29.1	27.3	18.9	16.0	13.1	10.5	10.0	7.9	16.2	29.9	4.2
18	6.8	6.1	6.9	5.9	5.5	4.6	4.6	5.6	13.6	21.2	24.2	24.3	24.9	25.3	26.3	25.9	25.0	22.1	17.8	14.6	13.0	11.4	11.3	9.4	14.8	26.3	4.6
19	8.7	7.5	6.9	7.0	7.6	8.7	9.1	11.3	13.7	18.6	23.3	25.4	26.1	25.8	25.9	26.5	26.1	23.5	17.0	14.5	12.0	9.8	9.0	7.7	15.5	26.5	6.9
20	7.1	7.0	5.5	5.5	5.0	4.9	4.2	5.0	11.5	18.6	22.7	24.3	24.9	26.2	26.9	27.1	26.4	24.9	19.8	14.4	12.1	10.0	9.4	8.9	14.7	27.1	4.2
21	8.1	7.3	6.7	5.9	4.9	4.5	4.8	5.6	12.1	18.4	22.1	23.6	24.6	25.5	26.6	26.5	25.8	24.3	20.1	14.5	11.9	9.4	9.1	7.3	14.6	26.6	4.5
22	6.5	6.0	4.7	3.9	3.2	2.8	2.3	3.6	10.8	17.2	19.9	20.9	21.8	22.3	23.0	23.2	23.5	23.0	21.3	19.8	17.8	17.5	12.1	10.4	14.1	23.5	2.3
23	10.0	7.7	7.2	5.1	4.1	3.6	4.1	5.4	13.4	15.0	16.2	17.1	18.1	18.5	18.5	18.8	19.7	18.8	13.3	8.9	6.7	10.7	10.4	13.5	11.9	19.7	3.6
24	13.0	11.2	11.0	12.1	12.1	11.3	11.1	10.9	12.6	14.4	15.9	17.9	19.6	20.8	21.4	21.7	21.6	20.4	17.0	11.0	9.0	8.3	7.9	7.0	14.1	21.7	7.0
25	7.3	7.1	8.0	9.2	9.0	7.4	9.1	8.4	15.9	18.9	20.8	22.2	23.6	25.0	25.7	26.3	26.4	25.7	18.5	14.2	11.9	11.3	9.4	7.6	15.4	26.4	7.1
26	8.1	10.1	9.9	10.1	10.3	10.9	11.0	11.4	17.6	21.3	23.0	24.7	26.4	27.6	28.2	28.7	28.6	27.5	20.4	16.0	14.2	11.6	10.4	8.6	17.4	28.7	8.1
27	8.2	7.8	6.8	5.7	6.4	6.0	5.5	10.2	15.7	22.2	24.7	26.0	26.6	27.4	27.8	27.9	27.3	25.6	18.6	13.6	12.5	10.2	8.0	6.7	15.7	27.9	5.5
28	7.0	6.5	5.9	4.7	4.9	4.5	3.7	5.8	13.0	19.1	22.6	24.6	25.8	26.2	26.9	26.8	26.4	24.6	19.6	14.6	13.5	12.1	11.8	10.5	15.0	26.9	3.7
29	9.5	8.2	8.0	6.1	6.7	5.6	5.1	6.4	14.4	20.1	23.4	24.9	25.7	26.8	27.3	27.3	27.0	25.8	20.9	15.9	13.4	11.2	11.3	10.0	15.9	27.3	5.1
Avg	8.9	8.5	8.3	8.0	8.2	7.9	7.7	8.4	12.8	17.0	19.3	20.7	21.7	22.6	23.2	23.4	23.2	21.5	16.2	12.8	11.2	10.3	10.0	9.3	14.2	--	--
Max	18.4	18.2	17.7	19.0	20.1	19.5	18.8	17.7	19.9	22.2	25.8	27.4	28.5	29.1	29.9	29.6	29.1	27.5	21.3	19.9	19.8	19.5	18.9	19.1	--	29.9	--
Min	-3.0	-3.9	-3.9	-4.1	-4.5	-5.1	-4.1	-3.6	-0.3	2.9	3.1	3.7	4.7	5.2	5.6	5.7	5.3	5.3	4.6	1.9	-0.3	-1.7	-2.2	-2.6	--	--	-5.1

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Temp_2m_C"
Month: Mar 2016

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	8.7	7.2	6.5	6.1	5.7	5.2	6.7	15.0	21.4	24.5	26.1	27.2	27.9	28.1	28.0	27.5	26.2	20.4	16.6	13.9	11.3	10.9	10.2	16.2	28.1	5.2
2	10.0	8.9	8.0	7.7	5.9	5.3	5.1	7.3	15.1	21.1	24.3	26.3	27.5	28.0	28.0	28.1	27.9	26.5	19.9	15.1	12.4	11.2	10.2	10.1	16.2	28.1	5.1
3	8.7	8.7	7.2	6.5	6.5	6.6	5.9	6.6	14.5	22.2	25.5	26.9	27.5	28.4	28.4	29.0	28.1	26.1	20.7	16.4	15.5	12.9	11.6	10.0	16.7	29.0	5.9
4	8.3	8.3	8.3	8.8	8.1	7.5	6.0	7.6	16.8	23.8	26.4	27.7	28.6	29.3	29.9	29.7	28.6	25.8	20.3	16.0	14.5	11.9	11.9	10.1	17.3	29.9	6.0
5	8.4	7.1	6.8	7.1	6.3	6.6	5.7	6.7	15.2	21.5	24.2	25.3	25.7	26.2	25.8	25.7	24.9	23.3	20.2	16.2	14.9	16.0	15.9	14.0	16.2	26.2	5.7
6	13.5	13.4	12.8	12.2	10.6	9.6	9.9	10.7	13.8	18.7	21.6	22.8	23.9	23.5	23.1	23.6	23.6	23.0	20.8	19.0	15.9	17.9	17.8	15.7	17.4	23.9	9.6
7	15.0	14.4	10.6	7.3	6.3	5.1	3.4	4.9	10.0	14.5	16.7	17.9	18.5	18.7	18.9	18.5	17.9	16.7	15.0	13.4	9.5	9.2	9.4	11.2	12.6	18.9	3.4
8	8.5	10.2	9.2	7.3	5.9	5.3	4.9	6.6	9.9	12.0	13.6	14.9	16.2	17.7	18.8	19.3	19.0	18.1	16.3	12.8	9.3	8.8	7.2	6.0	11.6	19.3	4.9
9	5.7	4.5	3.4	3.5	3.6	2.6	1.9	5.3	12.3	16.5	18.9	21.0	21.9	22.8	23.6	23.6	23.3	22.1	19.4	14.8	12.1	10.3	8.7	7.7	12.9	23.6	1.9
10	7.0	6.7	6.3	6.4	6.3	7.6	16.5	14.1	20.6	22.7	23.4	24.4	25.7	26.9	27.8	28.1	27.5	26.2	21.7	15.2	14.0	12.9	11.6	9.0	17.0	28.1	6.3
11	8.7	7.6	6.7	5.9	5.5	6.0	7.7	11.0	19.7	24.2	25.6	26.5	27.6	28.3	28.8	28.6	27.7	26.2	23.7	18.8	14.5	19.6	18.0	16.9	18.1	28.8	5.5
12	18.4	18.0	15.2	13.1	12.2	11.6	10.5	10.4	11.6	12.9	14.3	15.6	16.7	17.5	18.0	18.4	18.2	17.4	14.7	10.7	9.5	8.1	6.5	5.6	13.5	18.4	5.6
13	5.1	4.4	--	3.9	3.5	3.1	2.8	6.5	14.4	17.6	18.9	20.5	21.1	22.0	22.3	22.4	22.0	20.7	18.1	14.0	12.9	11.5	9.2	8.1	13.3	22.4	2.8
14	7.5	6.6	5.5	4.1	4.2	4.5	4.4	7.7	14.1	18.1	19.9	21.1	22.1	22.8	23.4	23.5	23.1	22.4	20.0	15.7	13.5	10.9	10.3	9.5	14.0	23.5	4.1
15	8.9	7.8	7.9	6.4	6.5	6.7	5.1	8.4	16.6	21.4	23.2	24.3	25.2	26.0	26.9	27.2	26.5	25.1	22.3	16.8	13.8	10.6	9.2	9.1	15.9	27.2	5.1
16	8.0	7.4	6.9	5.3	5.1	3.8	3.4	8.1	19.3	23.3	24.6	26.0	26.8	27.7	28.3	28.5	27.9	26.7	23.4	16.9	14.5	11.4	10.4	9.6	16.4	28.5	3.4
17	8.6	7.9	6.4	6.8	4.9	5.6	6.3	9.4	17.8	23.1	24.7	26.6	27.7	28.0	28.3	28.3	27.8	26.7	21.8	15.2	14.0	12.0	11.2	10.0	16.6	28.3	4.9
18	8.7	7.9	6.5	5.2	5.6	4.0	3.1	9.0	16.7	21.6	24.3	26.3	27.3	27.8	28.3	28.3	27.8	26.7	22.9	16.4	14.5	12.4	10.5	9.6	16.3	28.3	3.1
19	8.5	7.4	7.3	6.4	5.0	5.2	4.5	9.9	17.5	22.4	24.7	26.5	27.4	28.3	28.8	28.9	28.5	27.4	23.6	18.0	15.2	12.4	11.2	12.9	17.0	28.9	4.5
20	11.9	10.4	9.8	8.3	7.8	7.0	6.7	12.3	22.0	23.9	25.6	26.7	27.7	28.5	29.6	29.9	29.5	28.8	23.5	17.9	15.7	14.0	14.2	14.3	18.6	29.9	6.7
21	13.2	11.6	11.2	9.8	11.5	12.7	13.4	16.6	22.7	25.3	27.3	28.5	28.8	30.5	30.6	30.6	29.9	28.9	23.9	17.7	16.7	13.7	12.6	11.7	20.0	30.6	9.8
22	10.6	10.7	9.6	9.5	9.2	7.9	6.8	11.9	19.2	22.7	23.8	25.0	25.4	25.2	24.8	24.6	23.5	21.9	20.1	18.8	17.9	17.4	16.1	13.0	17.3	25.4	6.8
23	11.3	7.5	7.2	5.5	5.0	4.4	3.3	7.3	14.0	16.2	18.2	19.0	19.7	20.6	21.2	21.4	21.0	19.9	17.7	14.4	10.2	8.5	6.7	5.5	12.7	21.4	3.3
24	3.7	4.2	4.4	6.7	7.5	9.2	11.9	15.4	17.6	19.4	21.1	22.0	23.0	24.1	24.4	24.3	23.7	22.7	20.0	14.7	12.6	9.8	8.4	7.7	14.9	24.4	3.7
25	6.7	6.2	4.7	3.9	2.7	1.9	2.6	8.3	16.0	19.9	22.2	23.3	24.2	24.9	25.5	25.9	25.4	24.6	21.3	16.1	12.7	9.7	8.7	7.4	14.4	25.9	1.9
26	6.8	6.7	4.6	4.2	4.3	3.6	3.0	9.9	17.0	21.7	23.7	24.5	25.5	26.1	26.6	26.6	26.2	25.3	22.8	17.5	14.6	11.0	9.8	9.6	15.5	26.6	3.0
27	8.9	14.9	15.3	13.3	11.6	10.5	10.4	14.8	20.5	23.0	24.5	25.6	26.3	26.8	27.6	27.4	27.1	25.9	22.2	15.6	13.5	11.4	10.2	10.1	18.2	27.6	8.9
28	8.8	8.4	7.4	7.7	7.4	7.0	7.1	13.7	20.2	22.1	23.6	24.4	25.1	25.8	25.4	24.9	25.0	23.8	22.4	21.4	20.4	19.4	18.3	17.5	17.8	25.8	7.0
29	17.0	16.6	15.9	15.3	14.3	13.3	12.3	12.9	12.7	11.7	10.5	8.5	9.3	11.0	13.7	15.0	16.0	16.1	14.3	12.8	10.3	8.0	8.5	8.7	12.7	17.0	8.0
30	8.5	7.8	8.8	10.4	8.9	7.4	6.1	8.5	11.8	13.1	14.6	16.1	16.4	16.8	17.6	17.1	17.1	16.5	15.2	12.3	7.8	6.9	5.8	4.7	11.5	17.6	4.7
31	3.4	3.5	2.9	1.6	1.3	0.1	0.8	7.6	13.6	15.4	16.6	17.1	17.3	17.3	16.8	18.2	18.6	18.2	16.3	14.6	10.8	9.0	6.2	4.8	10.5	18.6	0.1
Avg	9.2	8.9	8.1	7.3	6.8	6.4	6.3	9.6	16.1	19.8	21.7	22.8	23.7	24.4	24.8	25.0	24.5	23.4	20.2	15.9	13.5	11.9	10.9	10.0	15.5	--	--
Max	18.4	18.0	15.9	15.3	14.3	13.3	16.5	16.6	22.7	25.3	27.3	28.5	28.8	30.5	30.6	30.6	29.9	28.9	23.9	21.4	20.4	19.6	18.3	17.5	--	30.6	--
Min	3.4	3.5	2.9	1.6	1.3	0.1	0.8	4.9	9.9	11.7	10.5	8.5	9.3	11.0	13.7	15.0	16.0	16.1	14.3	10.7	7.8	6.9	5.8	4.7	--	--	0.1

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, SR_wm2"
Month: Jan 2016

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	5	134	314	457	548	577	544	452	306	129	4	0	0	0	0	0	0	145	577	0
2	0	0	0	0	0	0	0	5	136	319	466	558	588	556	463	316	135	4	0	0	0	0	0	0	148	588	0
3	0	0	0	0	0	0	0	5	133	311	456	550	581	550	458	279	95	8	0	0	0	0	0	0	143	581	0
4	0	0	0	0	0	0	0	6	43	140	63	57	41	47	127	195	102	5	0	0	0	0	0	0	35	195	0
5	0	0	0	0	0	0	0	2	25	49	181	225	175	260	134	57	19	1	0	0	0	0	0	0	47	260	0
6	0	0	0	0	0	0	0	4	80	160	335	306	337	452	207	144	166	9	0	0	0	0	0	0	92	452	0
7	0	0	0	0	0	0	0	3	34	36	34	40	48	50	50	52	48	2	0	0	0	0	0	0	17	52	0
8	0	0	0	0	0	0	0	3	37	99	57	183	105	129	285	79	41	7	0	0	0	0	0	0	43	285	0
9	0	0	0	0	0	0	0	5	139	324	455	565	365	574	506	352	182	16	0	0	0	0	0	0	145	574	0
10	0	0	0	0	0	0	0	4	141	215	272	280	402	336	298	236	72	9	0	0	0	0	0	0	94	402	0
11	0	0	0	0	0	0	0	5	146	337	497	596	612	569	491	347	161	14	0	0	0	0	0	0	157	612	0
12	0	0	0	0	0	0	0	5	145	334	493	594	612	571	501	359	172	16	0	0	0	0	0	0	158	612	0
13	0	0	0	0	0	0	0	5	147	337	494	593	608	570	497	356	168	16	0	0	0	0	0	0	158	608	0
14	0	0	0	0	0	0	0	5	148	325	481	582	604	567	497	351	112	17	0	0	0	0	0	0	154	604	0
15	0	0	0	0	0	0	0	9	64	150	282	154	423	311	196	62	40	27	0	0	0	0	0	0	72	423	0
16	0	0	0	0	0	0	0	6	166	333	453	554	570	519	470	275	84	6	0	0	0	0	0	0	143	570	0
17	0	0	0	0	0	0	0	5	152	331	490	596	616	575	504	369	182	20	0	0	0	0	0	0	160	616	0
18	0	0	0	0	0	0	0	10	135	266	374	461	403	336	448	256	87	13	0	0	0	0	0	0	116	461	0
19	0	0	0	0	0	0	0	8	150	333	501	546	602	519	475	327	178	23	0	0	0	0	0	0	153	602	0
20	0	0	0	0	0	0	0	6	147	328	483	589	611	573	503	370	186	26	0	0	0	0	0	0	159	611	0
21	0	0	0	0	0	0	0	6	161	354	520	626	630	591	510	378	131	19	0	0	0	0	0	0	164	630	0
22	0	0	0	0	0	0	0	2	163	348	506	604	625	575	535	360	150	28	0	0	0	0	0	0	162	625	0
23	0	0	0	0	0	0	0	8	106	287	460	593	625	533	346	244	129	19	0	0	0	0	0	0	140	625	0
24	0	0	0	0	0	0	0	11	150	335	498	605	629	590	517	383	200	32	0	0	0	0	0	0	165	629	0
25	0	0	0	0	0	0	0	10	147	290	471	601	609	590	523	392	208	34	0	0	0	0	0	0	161	609	0
26	0	0	0	0	0	0	0	10	166	--	--	--	674	646	556	411	222	38	0	0	0	0	0	0	130	674	0
27	0	0	0	0	0	0	0	10	165	359	525	629	668	637	546	402	208	35	0	0	0	0	0	0	174	668	0
28	0	0	0	0	0	0	0	22	167	286	519	611	672	658	537	377	232	30	0	0	0	0	0	0	171	672	0
29	0	0	0	0	0	0	0	13	175	373	524	644	668	548	548	300	151	17	0	0	0	0	0	0	165	668	0
30	0	0	0	0	0	0	0	14	171	353	514	625	669	603	509	296	215	42	0	0	0	0	0	0	167	669	0
31	0	0	0	0	0	0	0	15	175	357	518	625	573	236	259	124	50	16	0	0	0	0	0	0	123	625	0
Avg	0	0	0	0	0	0	0	7	131	279	413	491	514	478	418	282	137	18	0	0	0	0	0	0	131	--	--
Max	0	0	0	0	0	0	0	22	175	373	525	644	674	658	556	411	232	42	0	0	0	0	0	0	--	674	--
Min	0	0	0	0	0	0	0	2	25	36	34	40	41	47	50	52	19	1	0	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, SR_wm2"
Month: Feb 2016

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	4	98	80	61	73	68	67	42	41	39	15	0	0	0	0	0	0	25	98	0
2	0	0	0	0	0	0	0	33	264	378	550	658	699	667	586	440	247	53	0	0	0	0	0	0	191	699	0
3	0	0	0	0	0	0	0	25	198	391	557	665	704	676	594	449	254	56	0	0	0	0	0	0	190	704	0
4	0	0	0	0	0	0	0	21	197	408	419	520	569	641	555	455	259	59	0	0	0	0	0	0	171	641	0
5	0	0	0	0	0	0	0	21	199	392	560	675	714	690	584	461	267	63	0	0	0	0	0	0	193	714	0
6	0	0	0	0	0	0	0	22	206	407	573	682	723	693	607	462	266	64	0	0	0	0	0	0	196	723	0
7	0	0	0	0	0	0	0	22	207	405	573	685	718	693	607	468	260	63	0	0	0	0	0	0	196	718	0
8	0	0	0	0	0	0	0	21	213	415	579	686	726	698	612	468	273	68	0	0	0	0	0	0	198	726	0
9	0	0	0	0	0	0	0	21	211	412	574	681	724	694	609	469	275	72	0	0	0	0	0	0	198	724	0
10	0	0	0	0	0	0	0	22	212	414	579	687	728	700	612	486	251	43	0	0	0	0	0	0	197	728	0
11	0	0	0	0	0	0	0	26	221	418	579	693	735	707	617	473	278	76	0	0	0	0	0	0	201	735	0
12	0	0	0	0	0	0	0	24	229	428	594	705	743	713	622	481	285	80	0	0	0	0	0	0	204	743	0
13	0	0	0	0	0	0	0	24	226	426	593	700	737	711	626	485	292	85	0	0	0	0	0	0	204	737	0
14	0	0	0	0	0	0	0	25	225	428	591	705	742	711	630	485	252	41	0	0	0	0	0	0	201	742	0
15	0	0	0	0	0	0	0	27	230	435	598	713	754	721	626	488	293	90	0	0	0	0	0	0	207	754	0
16	0	0	0	0	0	0	0	31	240	443	606	715	754	726	638	497	302	93	0	0	0	0	0	0	210	754	0
17	0	0	0	0	0	0	0	34	244	446	607	718	759	728	643	500	304	95	0	0	0	0	0	0	212	759	0
18	0	0	0	0	0	0	0	38	244	481	506	278	350	363	386	267	155	40	0	0	0	0	0	0	129	506	0
19	0	0	0	0	0	0	0	13	96	368	380	501	512	315	448	450	257	66	1	0	0	0	0	0	142	512	0
20	0	0	0	0	0	0	0	28	246	446	609	697	743	730	646	506	314	102	1	0	0	0	0	0	211	743	0
21	0	0	0	0	0	0	0	52	255	453	615	729	770	744	660	517	321	109	1	0	0	0	0	0	218	770	0
22	0	0	0	0	0	0	0	56	262	462	625	739	782	752	661	510	313	104	2	0	0	0	0	0	219	782	0
23	0	0	0	0	0	0	0	62	276	485	649	760	805	750	513	404	333	116	0	0	0	0	0	0	215	805	0
24	0	0	0	0	0	0	0	67	279	491	656	765	804	774	680	533	336	121	1	0	0	0	0	0	229	804	0
25	0	0	0	0	0	0	0	69	276	483	646	755	795	765	671	524	329	115	1	0	0	0	0	0	226	795	0
26	0	0	0	0	0	0	0	69	279	488	651	759	797	766	670	524	327	118	1	0	0	0	0	0	227	797	0
27	0	0	0	0	0	0	1	105	207	465	644	770	712	768	678	533	339	124	0	0	0	0	0	0	223	770	0
28	0	0	0	0	0	0	0	77	286	489	649	761	802	775	683	537	334	98	1	0	0	0	0	0	229	802	0
29	0	0	0	0	0	0	0	85	283	463	581	692	752	773	680	536	343	130	2	0	0	0	0	0	222	773	0
Avg	0	0	0	0	0	0	0	39	228	424	566	661	697	673	593	464	279	81	0	0	0	0	0	0	196	--	--
Max	0	0	0	0	0	0	1	105	286	491	656	770	805	775	683	537	343	130	2	0	0	0	0	0	--	805	--
Min	0	0	0	0	0	0	0	4	96	80	61	73	68	67	42	41	39	15	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, SR_wm2"
Month: Mar 2016

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	84	298	486	606	751	769	737	636	457	303	126	3	0	0	0	0	0	219	769	0
2	0	0	0	0	0	0	0	73	296	476	613	764	812	698	564	527	357	141	6	0	0	0	0	0	222	812	0
3	0	0	0	0	0	0	0	42	241	461	679	712	701	725	615	562	257	86	3	0	0	0	0	0	212	725	0
4	0	0	0	0	0	0	0	70	319	527	680	793	832	801	663	533	291	91	4	0	0	0	0	0	234	832	0
5	0	0	0	0	0	0	0	80	322	508	593	674	669	675	467	375	183	52	4	0	0	0	0	0	192	675	0
6	0	0	0	0	0	0	1	48	117	268	544	748	796	406	323	390	307	148	7	0	0	0	0	0	171	796	0
7	0	0	0	0	0	0	1	71	249	483	665	725	789	683	655	426	249	86	14	0	0	0	0	0	212	789	0
8	0	0	0	0	0	0	1	136	340	517	634	809	831	802	708	552	365	146	9	0	0	0	0	0	244	831	0
9	0	0	0	0	0	0	2	120	336	544	706	814	847	816	721	576	382	145	9	0	0	0	0	0	251	847	0
10	0	0	0	0	0	0	2	128	355	563	718	822	855	825	729	582	387	163	11	0	0	0	0	0	256	855	0
11	0	0	0	0	0	0	3	129	325	522	509	622	669	612	568	445	250	88	5	0	0	0	0	0	198	669	0
12	0	0	0	0	0	0	4	119	352	558	717	820	854	820	725	582	384	164	13	0	0	0	0	0	255	854	0
13	0	0	--	0	0	0	3	139	358	548	720	812	859	827	728	589	374	135	7	0	0	0	0	0	265	859	0
14	0	0	0	0	0	0	3	133	341	540	700	810	847	838	722	577	380	161	13	0	0	0	0	0	253	847	0
15	0	0	0	0	0	0	5	144	357	570	728	825	850	826	709	532	303	123	11	0	0	0	0	0	249	850	0
16	0	0	0	0	0	0	5	155	377	590	749	834	863	841	743	598	403	179	16	0	0	0	0	0	265	863	0
17	0	0	0	0	0	0	5	156	376	583	740	842	877	847	750	604	407	184	17	0	0	0	0	0	266	877	0
18	0	0	0	0	0	0	6	165	385	589	747	855	889	855	756	609	410	184	17	0	0	0	0	0	269	889	0
19	0	0	0	0	0	0	6	165	381	584	744	850	878	842	747	601	405	185	18	0	0	0	0	0	267	878	0
20	0	0	0	0	0	0	10	154	388	594	752	833	834	845	746	592	401	175	15	0	0	0	0	0	264	845	0
21	0	0	0	0	0	0	11	162	397	547	767	856	628	852	752	581	396	192	14	0	0	0	0	0	256	856	0
22	0	0	0	0	0	0	7	183	402	612	769	870	887	828	701	605	410	192	19	0	0	0	0	0	270	887	0
23	0	0	0	0	0	0	11	199	428	638	782	908	937	906	801	643	437	208	22	0	0	0	0	0	288	937	0
24	0	0	0	0	0	0	13	199	423	633	790	894	929	892	792	639	428	200	23	0	0	0	0	0	286	929	0
25	0	0	0	0	0	0	16	192	416	627	792	899	932	899	800	639	425	199	23	0	0	0	0	0	286	932	0
26	0	0	0	0	0	0	17	195	415	626	791	896	929	895	797	641	425	202	25	0	0	0	0	0	286	929	0
27	0	0	0	0	0	0	19	204	429	639	790	895	929	895	800	638	422	197	26	0	0	0	0	0	287	929	0
28	0	0	0	0	0	0	20	247	358	632	785	832	736	687	415	254	303	128	13	0	0	0	0	0	225	832	0
29	0	0	0	0	0	0	10	115	142	117	229	204	282	396	591	383	345	217	30	0	0	0	0	0	128	591	0
30	0	0	0	0	0	0	13	212	387	530	752	976	768	793	737	463	393	208	44	0	0	0	0	0	262	976	0
31	0	0	0	0	0	0	29	232	461	668	766	665	794	480	554	646	440	208	29	0	0	0	0	0	249	794	0
Avg	0	0	0	0	0	0	7	144	348	541	695	794	809	769	678	543	362	158	15	0	0	0	0	0	245	--	--
Max	0	0	0	0	0	0	29	247	461	668	792	976	937	906	801	646	440	217	44	0	0	0	0	0	--	976	--
Min	0	0	0	0	0	0	0	42	117	117	229	204	282	396	323	254	183	52	3	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, RH_percent"
Month: Jan 2016

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	77	45	45	66	80	76	69	53	46	43	40	38	36	34	33	33	35	40	42	44	45	46	46	48	48	80	33
2	49	50	49	49	50	50	50	50	47	43	40	36	33	30	28	28	30	34	39	38	39	44	44	42	41	50	28
3	43	47	50	48	48	48	49	49	44	39	37	33	30	29	28	27	30	31	31	30	30	32	33	34	37	50	27
4	35	37	38	39	41	42	41	43	45	43	50	47	67	92	91	80	67	68	65	65	65	65	71	78	57	92	35
5	84	83	89	83	88	94	94	94	94	94	89	80	71	65	65	67	78	93	97	98	97	93	91	90	86	98	65
6	95	95	94	89	90	94	95	96	90	84	80	70	66	59	58	61	58	72	87	90	94	95	93	93	83	96	58
7	94	95	94	95	95	92	94	86	79	80	90	94	92	94	90	91	90	89	92	93	92	95	96	96	92	96	79
8	96	96	94	91	91	93	96	93	89	87	91	90	90	89	83	84	87	87	91	95	95	95	96	96	92	96	83
9	97	98	98	98	98	99	99	99	96	81	69	63	62	54	52	54	54	65	84	91	94	97	97	97	83	99	52
10	97	97	98	98	98	97	96	91	83	64	59	54	45	53	58	54	58	65	67	83	91	93	96	97	79	98	45
11	97	97	96	93	65	69	51	49	46	41	37	33	28	26	26	27	29	34	67	66	74	78	69	51	56	97	26
12	57	65	64	65	66	57	52	48	35	30	29	24	22	19	17	16	17	26	28	47	50	56	41	55	41	66	16
13	62	65	59	60	60	56	51	47	39	30	27	24	29	34	30	25	26	37	64	77	79	83	83	84	51	84	24
14	88	86	89	87	91	93	92	93	77	55	36	30	29	28	25	25	30	42	64	73	79	82	84	85	65	93	25
15	86	86	87	86	85	86	90	90	87	76	52	43	37	34	36	38	45	48	73	82	85	88	90	90	71	90	34
16	91	92	93	93	95	94	89	93	81	61	47	37	40	42	41	38	43	52	61	69	76	78	82	83	70	95	37
17	88	90	93	94	94	95	94	95	80	61	44	38	36	35	34	32	33	47	72	74	83	85	86	88	70	95	32
18	88	89	88	90	93	89	88	88	62	47	29	22	22	21	17	17	26	43	47	66	73	78	78	82	60	93	17
19	81	85	83	85	87	88	89	93	72	48	31	29	31	29	29	30	29	39	58	59	60	64	68	50	59	93	29
20	48	66	76	82	81	83	88	88	72	50	37	34	34	34	33	33	35	41	59	66	75	80	84	86	61	88	33
21	84	87	86	87	87	64	64	64	30	17	16	15	15	14	12	11	13	17	33	44	30	19	18	24	40	87	11
22	23	25	29	28	29	27	21	28	25	16	15	14	13	12	11	11	13	16	24	26	32	33	34	30	22	34	11
23	30	31	31	33	34	35	34	33	30	18	15	13	12	11	10	13	19	26	35	45	53	60	63	66	31	66	10
24	71	69	75	72	76	77	77	77	58	41	37	35	33	34	33	33	31	37	56	60	66	71	77	77	57	77	31
25	78	77	75	74	75	79	82	79	64	45	31	30	31	29	27	27	28	33	48	59	65	72	36	21	53	82	21
26	23	24	24	24	27	28	27	27	25	--	--	--	15	14	13	12	9	11	25	34	22	16	16	19	21	34	9
27	17	16	16	18	19	20	22	23	21	19	18	17	15	14	13	13	16	22	39	47	57	53	54	54	26	57	13
28	51	49	49	45	44	43	44	43	36	27	19	17	18	19	18	18	17	24	46	49	58	65	60	67	38	67	17
29	65	66	64	73	73	76	78	77	55	31	23	20	22	21	19	21	21	38	54	62	68	70	66	69	51	78	19
30	69	72	68	69	72	73	74	75	55	33	21	17	15	16	17	19	18	24	41	50	54	56	62	66	47	75	15
31	68	66	72	73	75	78	78	80	59	38	28	26	24	25	25	26	25	22	26	31	34	39	44	57	47	80	22
Avg	69	69	70	71	71	71	70	69	59	48	41	37	36	36	35	34	36	43	55	62	65	67	66	67	56	--	--
Max	97	98	98	98	98	99	99	99	96	94	91	94	92	94	91	91	90	93	97	98	97	97	97	97	--	99	--
Min	17	16	16	18	19	20	21	23	21	16	15	13	12	11	10	11	9	11	24	26	22	16	16	19	--	--	9

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, RH_percent"
Month: Feb 2016

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

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, RH_percent"
Month: Mar 2016

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	50	47	52	55	57	59	60	56	35	23	17	15	14	13	12	12	12	13	20	28	34	40	41	43	34	60	12
2	43	45	48	49	57	60	62	54	34	22	16	14	13	11	12	12	12	12	21	29	34	37	39	39	32	62	11
3	43	42	46	48	50	51	54	53	34	18	14	12	11	11	10	8	8	10	16	24	24	30	33	37	29	54	8
4	40	40	40	39	43	46	51	47	27	15	12	9	8	7	5	6	6	10	18	25	26	31	29	33	25	51	5
5	38	42	43	42	45	43	48	45	26	17	11	11	10	10	10	10	11	15	23	31	33	29	28	35	27	48	10
6	37	36	38	41	47	49	48	48	42	24	14	12	12	16	18	18	18	17	22	26	32	28	27	37	29	49	12
7	44	46	58	68	72	75	79	74	54	34	26	23	20	18	17	16	18	23	27	31	40	42	44	41	41	79	16
8	50	48	58	68	74	77	78	72	56	49	45	39	36	30	25	23	23	24	26	33	42	44	49	53	47	78	23
9	55	59	63	62	63	66	70	56	36	26	21	19	17	15	13	11	12	13	15	21	28	31	36	39	35	70	11
10	41	43	45	45	46	42	18	24	13	10	12	12	10	9	7	8	9	9	13	23	25	27	30	36	23	46	7
11	37	40	44	47	49	46	39	33	18	10	10	9	9	8	7	8	9	11	13	19	27	16	19	22	23	49	7
12	24	25	37	52	59	58	53	47	40	37	33	28	26	26	25	24	24	25	30	40	43	46	52	55	38	59	24
13	57	60	--	62	64	66	67	53	33	25	22	20	18	17	17	16	16	18	21	30	33	36	43	46	37	67	16
14	48	51	54	60	61	60	61	51	35	29	26	22	21	20	20	21	21	22	27	36	41	48	50	53	39	61	20
15	56	60	60	67	67	68	73	61	37	22	19	19	16	13	11	9	9	10	14	21	26	34	36	36	35	73	9
16	39	41	42	48	48	53	56	43	17	10	10	8	8	8	8	9	8	8	10	17	20	26	29	31	25	56	8
17	33	35	40	38	44	41	38	34	19	12	10	9	8	7	7	7	7	8	12	21	21	25	26	28	22	44	7
18	31	33	37	41	39	45	48	33	21	13	11	9	8	8	8	7	8	9	12	21	23	28	32	35	23	48	7
19	38	42	42	45	52	52	56	43	28	20	17	15	13	12	11	10	9	9	11	18	22	27	30	26	27	56	9
20	28	32	34	39	41	46	49	36	14	14	14	13	12	11	10	9	8	8	14	21	23	27	25	25	23	49	8
21	28	33	34	38	33	31	30	27	18	15	13	12	11	9	8	8	8	9	14	23	23	30	32	34	22	38	8
22	38	37	41	40	43	48	51	36	23	16	13	13	13	13	12	12	10	15	15	19	22	23	25	29	25	51	10
23	31	41	42	47	49	50	51	37	16	12	9	8	7	6	6	6	7	8	9	13	19	21	25	28	23	51	6
24	33	32	32	28	25	23	18	14	13	12	10	9	8	8	8	8	9	9	10	16	19	24	27	29	18	33	8
25	31	33	37	40	44	46	44	31	17	11	10	10	9	9	9	9	9	9	12	18	23	29	30	33	23	46	9
26	33	33	39	40	41	44	47	30	19	13	11	9	9	10	10	10	10	10	12	18	22	28	31	31	23	47	9
27	33	16	15	20	23	25	26	21	14	11	11	12	12	12	11	11	10	11	15	25	27	31	33	33	19	33	10
28	36	37	41	40	42	45	48	37	29	27	23	22	20	21	20	19	16	18	20	22	25	26	28	29	29	48	16
29	36	38	41	45	49	55	60	58	52	47	53	77	66	53	40	33	29	27	28	27	31	39	39	42	44	77	27
30	44	46	41	33	41	48	54	48	38	32	28	25	24	21	18	19	19	19	21	25	36	36	40	43	33	54	18
31	47	47	49	52	54	58	55	36	25	22	20	20	20	20	23	20	19	19	22	25	32	36	44	48	34	58	19
Avg	39	41	43	46	49	51	51	43	28	21	18	17	16	15	14	13	13	14	18	24	28	31	34	36	29	--	--
Max	57	60	63	68	74	77	79	74	56	49	53	77	66	53	40	33	29	27	30	40	43	48	52	55	--	79	--
Min	24	16	15	20	23	23	18	14	13	10	9	8	7	6	5	6	6	8	9	13	19	16	19	22	--	--	5

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Precip_inch"
Month: Jan 2016

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	0.01	0.07	0.02	0	0	0	0	0	0	0	0.01	0.04	0.15	0.07	0
5	0	0	0.01	0	0.04	0.04	0.03	0.07	0.05	0.03	0	0	0	0	0	0	0.01	0.04	0.08	0.14	0.09	0.11	0.05	0.02	0.81	0.14	0
6	0	0.02	0.04	0.03	0.07	0.33	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.51	0.33	0
7	0	0.09	0.1	0	0.04	0.11	0.01	0.01	0	0.03	0.18	0.09	0.14	0.09	0.01	0.02	0	0	0.17	0.02	0	0.04	0.01	0	1.16	0.18	0
8	0	0	0	0	0.01	0	0	0	0	0	0.07	0.01	0.01	0	0	0.01	0	0	0	0	0	0.01	0	0	0.12	0.07	0
9	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	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	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
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	0.03	0.03	0.03	0
Total	0	0.11	0.16	0.03	0.16	0.48	0.05	0.09	0.05	0.06	0.25	0.1	0.16	0.16	0.03	0.03	0.01	0.04	0.25	0.16	0.09	0.16	0.07	0.09	2.79	--	--
Max	0	0.09	0.1	0.03	0.07	0.33	0.03	0.07	0.05	0.03	0.18	0.09	0.14	0.09	0.02	0.02	0.01	0.04	0.17	0.14	0.09	0.11	0.05	0.04	--	0.33	--
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

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Precip_inch"
Month: Feb 2016

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	0.17	0	0	0	0	0	0	0	0.02	0.03	0.05	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.28	0.17	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	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
Total	0.17	0	0	0	0	0	0	0	0.02	0.03	0.05	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.28	--	--
Max	0.17	0	0	0	0	0	0	0	0.02	0.03	0.05	0.01	0	0	0	0	0	0	0	0	0	0	0	0	--	0.17	--
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, Hewitt_Station
"Component, Channel: Table100, Precip_inch"
Month: Mar 2016

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	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	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	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	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.01	--	--
Max	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	--	0.01	--
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

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, BP_mmHg"
Month: Jan 2016

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	702	701	702	702	702	702	702	703	703	704	704	704	703	702	702	703	703	703	704	704	704	704	705	705	703	705	701
2	705	705	704	704	704	704	705	705	705	705	705	705	704	703	703	703	703	703	703	703	704	704	704	704	704	705	703
3	704	704	704	704	704	703	704	704	704	705	705	704	703	702	701	701	701	700	700	700	700	700	700	700	702	705	700
4	700	699	699	699	698	698	698	698	699	699	700	700	699	699	698	698	698	698	698	699	699	699	700	700	699	700	698
5	700	700	700	699	700	700	700	700	700	701	701	701	700	699	699	699	699	699	699	699	699	699	699	699	699	701	699
6	698	698	698	698	697	698	699	700	700	701	701	701	701	700	700	700	700	700	701	701	701	701	701	701	700	701	697
7	700	700	700	699	699	699	699	698	698	698	699	699	698	697	697	697	696	696	697	697	697	697	697	697	698	700	696
8	697	697	697	697	697	697	697	698	698	699	700	700	699	699	699	700	700	701	701	702	702	702	703	703	699	703	697
9	703	703	703	703	703	703	704	704	705	706	706	706	705	704	704	704	704	704	704	705	705	705	705	705	704	706	703
10	704	704	704	704	704	704	704	704	704	705	705	705	704	703	703	703	703	703	704	704	704	704	705	705	704	705	703
11	705	705	705	705	704	705	705	705	706	706	707	706	706	705	705	705	705	705	706	706	706	706	706	706	706	707	704
12	706	706	706	706	706	706	706	706	706	706	706	706	705	704	704	704	704	703	703	704	704	704	704	704	705	706	703
13	704	704	704	704	704	704	704	704	704	704	704	704	703	702	702	702	701	701	702	702	702	702	702	702	703	704	701
14	702	701	701	701	701	701	702	702	702	702	702	702	701	701	700	700	700	701	701	701	701	701	701	701	701	702	700
15	701	701	701	700	700	700	700	700	700	700	700	700	700	699	699	699	699	700	701	701	702	702	702	703	700	703	699
16	703	703	703	703	703	704	704	704	705	705	705	704	704	703	703	703	703	703	703	704	704	704	704	704	704	705	703
17	704	704	704	704	704	704	705	705	705	706	706	705	705	704	704	704	704	705	705	705	705	705	705	705	705	706	704
18	705	705	704	704	704	704	704	705	705	705	705	705	704	703	703	703	703	703	703	703	703	704	704	704	704	705	703
19	704	704	704	704	704	704	704	705	705	705	705	705	704	703	703	704	704	704	704	704	704	704	705	704	704	705	703
20	705	704	704	704	704	704	704	705	705	705	705	705	704	703	703	703	703	703	704	704	705	705	706	706	704	706	703
21	706	706	706	706	706	706	707	707	708	708	708	708	707	706	706	706	706	706	706	706	706	706	706	706	706	708	706
22	706	706	705	705	705	705	705	706	706	706	706	705	705	704	703	703	703	703	703	703	703	703	703	703	704	706	703
23	703	702	702	702	702	702	702	702	702	702	702	701	700	699	699	698	698	699	699	699	699	699	699	699	700	703	698
24	699	699	699	699	699	699	699	700	700	701	701	701	700	700	700	700	700	700	700	701	701	701	701	702	700	702	699
25	701	701	701	701	701	701	701	702	702	702	702	702	702	701	701	701	701	701	701	702	703	703	703	703	702	703	701
26	703	704	704	704	704	705	705	705	706	--	--	--	706	705	705	704	705	705	705	706	706	706	706	707	705	707	703
27	707	707	707	707	707	707	708	708	708	709	709	708	707	706	706	705	706	706	706	706	706	706	706	706	707	709	705
28	706	706	706	706	706	706	706	706	706	706	706	705	705	704	703	703	702	703	703	703	703	703	703	704	705	706	702
29	704	703	703	703	702	702	703	703	703	703	703	702	702	701	701	701	701	701	701	701	701	701	701	701	702	704	701
30	701	700	700	700	700	700	700	700	700	700	701	700	700	699	699	699	698	698	698	699	699	699	700	700	700	701	698
31	700	700	700	699	699	699	699	699	699	699	699	699	698	697	696	694	694	693	693	693	693	692	692	692	697	700	692
Avg	703	703	703	703	702	702	703	703	703	703	704	703	703	702	702	701	701	702	702	702	702	702	703	703	702	--	--
Max	707	707	707	707	707	707	708	708	708	709	709	708	707	706	706	706	706	706	706	706	706	706	706	707	--	709	--
Min	697	697	697	697	697	697	697	698	698	698	699	699	698	697	696	694	694	693	693	693	693	692	692	692	--	--	692

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, BP_mmHg"
Month: Feb 2016

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	692	693	694	694	694	694	694	695	695	696	697	697	697	697	697	698	698	699	699	699	700	700	700	700	697	700	692
2	700	700	700	700	700	701	701	702	703	703	703	703	703	703	702	702	703	703	703	703	704	704	705	705	702	705	700
3	705	705	705	705	705	706	706	707	707	708	708	708	708	707	707	707	707	707	708	708	708	708	709	709	707	709	705
4	709	709	709	708	708	708	709	709	709	709	709	709	708	707	706	706	705	705	706	706	706	706	707	707	707	709	705
5	707	707	707	707	707	707	707	708	708	709	709	709	709	708	708	707	707	707	707	708	708	709	709	709	708	709	707
6	709	709	709	709	709	709	709	709	709	709	709	709	708	707	706	705	705	705	705	706	706	706	706	706	707	709	705
7	706	706	706	705	705	705	705	705	706	706	706	706	705	704	704	704	704	704	704	705	705	705	705	705	705	706	704
8	705	705	705	705	705	706	706	706	706	707	707	706	706	705	704	704	704	704	704	704	705	705	706	706	705	707	704
9	706	706	706	705	705	706	706	706	706	707	707	706	705	705	704	704	704	704	704	705	705	705	705	705	705	707	704
10	705	705	705	705	706	706	706	706	707	707	707	707	706	705	705	704	704	704	704	704	705	705	705	705	705	707	704
11	705	704	704	704	705	705	705	705	705	705	706	705	705	704	704	704	704	704	704	705	705	705	705	705	705	706	704
12	705	705	704	704	705	705	705	705	705	705	706	705	704	704	703	703	703	703	703	703	703	703	703	703	704	706	703
13	703	703	703	703	703	703	703	703	703	703	703	703	702	702	701	701	701	701	701	701	701	701	702	701	702	703	701
14	701	701	701	701	701	701	701	701	701	702	702	702	701	700	700	700	700	700	700	700	700	701	701	701	701	702	700
15	701	701	701	701	701	701	701	701	702	702	702	701	701	700	699	699	699	699	699	700	700	701	701	701	701	702	699
16	700	701	701	700	700	700	700	701	701	701	701	701	700	699	699	699	698	698	699	699	699	699	699	699	700	701	698
17	699	699	699	699	699	699	700	700	701	701	701	700	700	699	698	698	697	697	697	697	698	698	698	699	699	701	697
18	699	699	699	699	699	699	700	700	700	701	701	701	700	699	699	699	699	700	700	700	701	701	701	701	700	701	699
19	701	701	701	701	701	701	702	702	702	703	703	703	702	702	701	701	701	701	701	702	702	702	702	702	702	703	701
20	702	702	702	702	702	702	702	702	703	703	703	703	702	701	701	700	700	700	700	701	701	701	701	701	702	703	700
21	701	701	701	701	701	701	701	701	702	701	702	702	701	700	700	699	699	700	700	700	700	701	700	700	701	702	699
22	700	700	699	699	699	698	698	698	699	699	699	699	698	697	697	697	696	696	696	697	697	697	698	698	698	700	696
23	699	699	699	700	700	700	701	701	702	702	702	702	702	701	701	701	701	701	702	703	703	704	704	704	701	704	699
24	704	704	704	704	704	705	705	705	706	706	705	705	704	703	703	703	702	702	702	703	703	703	703	703	704	706	702
25	703	703	702	702	703	703	703	703	704	704	704	704	703	703	702	702	702	702	702	702	703	703	703	703	703	704	702
26	703	703	703	703	703	703	704	704	704	704	704	704	703	703	702	702	702	701	702	702	702	702	703	703	703	704	701
27	703	702	702	702	702	702	702	702	702	702	702	702	701	700	700	699	699	699	699	700	700	700	701	701	701	703	699
28	701	701	700	700	701	701	701	701	702	702	702	702	701	701	701	700	700	700	701	701	701	701	702	701	701	702	700
29	701	701	701	701	701	701	702	702	703	703	703	702	702	701	701	700	700	701	701	701	702	702	703	703	702	703	700
Avg	703	703	703	702	702	703	703	703	704	704	704	704	703	702	702	702	702	702	702	702	703	703	703	703	703	--	--
Max	709	709	709	709	709	709	709	709	709	709	709	709	709	708	708	707	707	707	708	708	708	709	709	709	--	709	--
Min	692	693	694	694	694	694	694	695	695	696	697	697	697	697	697	697	696	696	696	697	697	697	698	698	--	--	692

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, BP_mmHg"
Month: Mar 2016

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	703	703	703	703	703	702	703	704	704	704	704	704	703	702	702	702	702	702	702	702	703	703	703	703	703	704	702
2	703	702	702	702	702	702	702	703	703	703	703	703	702	701	701	701	701	701	701	701	702	702	702	702	702	703	701
3	702	702	702	702	702	702	702	702	703	703	703	703	702	702	701	701	701	701	701	701	701	701	701	701	702	703	701
4	701	701	701	701	701	701	701	701	701	701	701	701	700	700	699	699	699	699	699	699	699	700	700	700	700	701	699
5	700	700	700	700	700	700	700	701	701	701	701	701	701	700	700	699	699	699	699	700	700	701	701	701	700	701	699
6	701	701	700	700	700	700	700	700	700	700	700	699	699	698	697	697	696	696	696	696	696	697	697	697	698	701	696
7	697	698	697	697	697	697	697	697	697	697	697	697	696	695	694	694	693	693	693	693	693	694	694	694	696	698	693
8	694	694	694	694	694	695	695	695	695	696	696	696	696	695	695	695	695	695	696	696	697	697	697	697	695	697	694
9	697	697	697	698	698	698	699	699	700	700	700	700	700	699	699	699	699	699	699	700	700	701	701	701	699	701	697
10	701	701	701	701	700	701	701	701	702	702	702	702	702	701	701	700	700	700	701	701	701	701	701	702	701	702	700
11	702	702	701	701	701	701	701	701	701	701	701	701	700	699	699	698	698	698	698	698	698	698	699	699	700	702	698
12	699	699	699	699	699	700	701	701	702	702	702	702	702	702	701	701	701	702	702	702	702	703	703	703	701	703	699
13	703	703	--	703	703	702	702	703	703	703	703	703	702	702	701	701	700	701	701	701	701	701	701	701	702	703	700
14	701	701	701	701	701	701	702	702	702	702	702	702	701	701	700	700	699	700	700	700	701	701	701	701	701	702	699
15	701	701	701	701	701	701	701	702	702	702	702	702	701	701	700	700	699	699	699	700	700	700	700	700	701	702	699
16	700	700	700	700	700	700	700	701	701	701	701	701	700	699	699	698	698	698	698	699	699	699	699	699	700	701	698
17	699	699	699	698	699	699	699	699	700	699	699	699	698	698	697	697	697	697	697	697	697	698	698	698	698	700	697
18	698	698	698	698	698	698	698	699	699	699	699	699	699	698	698	698	698	698	698	698	699	699	699	699	698	699	698
19	699	700	699	700	700	700	700	701	701	701	701	701	701	700	699	699	699	699	699	699	700	700	701	701	700	701	699
20	701	701	701	701	701	701	702	702	703	703	703	703	702	702	701	701	701	701	701	701	702	702	702	702	702	703	701
21	702	702	702	701	701	702	702	702	703	703	703	702	702	701	700	700	699	699	699	699	699	699	699	699	701	703	699
22	699	699	699	699	699	699	699	699	699	699	699	698	698	697	697	697	696	696	697	697	698	698	698	698	698	699	696
23	698	698	699	699	699	700	700	701	701	702	702	702	702	701	701	701	701	702	702	702	703	703	703	703	701	703	698
24	703	703	702	702	702	702	703	703	703	703	703	702	701	701	700	699	699	699	699	699	699	699	699	699	701	703	699
25	699	699	698	698	698	698	698	698	698	698	698	698	697	697	696	695	695	695	695	695	696	696	696	696	697	699	695
26	696	696	696	696	696	696	696	697	697	697	697	697	697	697	697	697	697	697	697	698	698	699	699	700	697	700	696
27	700	700	701	701	701	701	702	702	702	702	702	702	702	701	700	700	700	699	699	699	699	699	699	699	701	702	699
28	699	699	699	699	698	698	698	698	698	698	698	698	697	696	695	695	694	694	694	694	695	695	695	696	697	699	694
29	696	695	695	695	694	695	696	696	696	697	698	698	698	697	697	696	696	696	696	696	696	697	697	697	696	698	694
30	697	697	697	697	698	698	698	699	699	699	699	699	699	698	698	698	697	698	698	698	698	698	699	698	698	699	697
31	698	698	698	698	698	698	698	699	699	699	699	699	699	699	698	698	698	698	698	698	699	700	700	700	699	700	698
Avg	700	700	699	699	699	700	700	700	701	701	701	700	700	699	699	698	698	698	698	699	699	699	699	700	699	--	--
Max	703	703	703	703	703	702	703	704	704	704	704	704	703	702	702	702	702	702	702	702	703	703	703	703	--	704	--
Min	694	694	694	694	694	695	695	695	695	696	696	696	696	695	694	694	693	693	693	693	693	694	694	694	--	--	693

-- Indicates Invalid Data

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

SAROAD for Resolution, East_Plant

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

Month: Jan 2016

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	1.1	-1.1	5.4	6.5	5.4	5.4	5.4	7.6	8.7	7.6	6.6	9.9	12.2	12.2	11.1	6.7	5.5	7.7	7.6	9.8	8.7	6.5	6.5	6.5	7.1	12.2	-1.1
2	8.6	8.6	6.5	6.5	5.4	3.2	5.4	6.5	6.5	9.8	13.0	9.8	5.5	6.6	5.5	2.2	3.3	4.4	4.4	3.3	3.3	4.4	5.4	4.3	5.9	13.0	2.2
3	2.2	3.2	3.2	3.2	3.2	3.2	2.2	5.4	4.3	4.3	7.6	9.8	7.7	5.5	2.2	1.1	2.2	2.2	2.2	2.2	3.3	5.5	6.6	4.4	4.1	9.8	1.1
4	3.3	2.2	6.6	7.7	6.6	7.7	8.8	12.0	10.9	12.1	11.0	6.6	5.5	4.4	4.4	1.1	2.2	3.3	0.0	1.1	1.1	1.1	2.2	1.1	5.1	12.1	0.0
5	2.2	0.0	-2.2	-2.2	-2.2	0.0	2.2	1.1	-1.1	0.0	3.3	0.0	-2.2	-1.1	4.4	5.5	1.1	2.2	1.1	2.2	1.1	-1.1	1.1	2.2	0.7	5.5	-2.2
6	0.0	0.0	3.3	3.3	2.2	0.0	0.0	0.0	-2.2	-1.1	1.1	4.3	5.4	3.3	0.0	-1.1	3.3	5.5	3.3	1.1	2.2	2.2	1.1	0.0	1.5	5.5	-2.2
7	0.0	0.0	0.0	2.2	4.4	1.1	0.0	2.2	5.5	5.5	2.2	-1.1	0.0	2.2	2.2	-1.1	-1.1	2.2	2.2	2.2	3.2	2.2	-1.1	1.1	1.5	5.5	-1.1
8	1.1	-1.1	2.2	4.3	3.3	2.2	1.1	3.2	4.3	3.2	-1.1	-2.2	-1.1	-3.2	0.0	2.2	0.0	0.0	3.2	2.2	2.2	4.3	2.2	4.3	1.5	4.3	-3.2
9	6.4	3.2	2.2	0.0	4.3	6.4	5.3	4.3	0.0	3.2	4.3	1.1	2.2	6.5	5.4	3.3	6.5	7.6	5.4	5.4	3.2	2.1	1.1	2.1	3.8	7.6	0.0
10	2.1	-2.1	1.1	2.1	0.0	1.1	5.3	6.4	3.2	2.2	5.4	4.3	2.2	4.4	5.4	4.3	4.3	5.4	4.3	3.2	1.1	2.2	1.1	2.1	3.0	6.4	-2.1
11	1.1	0.0	4.3	2.2	0.0	2.1	3.2	5.3	4.3	3.2	1.1	1.1	1.1	1.1	-1.1	0.0	--	4.3	2.2	2.2	3.2	3.2	4.3	5.4	2.3	5.4	-1.1
12	9.6	17.1	10.7	11.7	9.6	4.3	6.4	9.6	34.4	13.0	11.9	16.4	27.4	16.5	9.9	6.6	9.9	8.8	7.7	6.6	5.5	4.4	4.4	5.4	11.1	34.4	4.3
13	5.4	6.5	6.5	4.3	3.3	3.3	4.3	7.6	6.5	3.3	5.5	7.7	6.7	3.3	5.6	7.8	10.0	11.1	9.9	6.6	6.6	12.0	6.6	3.3	6.4	12.0	3.3
14	4.4	3.3	3.3	4.4	8.7	4.4	4.3	2.2	2.2	5.5	3.3	3.3	6.7	8.9	4.4	5.6	11.1	8.8	18.6	13.1	9.8	7.6	7.6	7.6	6.6	18.6	2.2
15	5.4	4.3	5.4	6.5	7.6	8.7	9.7	10.8	10.9	9.8	6.6	3.3	3.3	3.3	6.6	8.8	6.6	5.5	6.5	9.8	11.9	10.8	8.6	8.7	7.5	11.9	3.3
16	6.5	4.3	3.2	1.1	3.2	3.2	3.2	5.3	4.3	4.3	5.5	2.2	2.2	4.4	7.7	9.9	6.6	6.6	9.8	12.0	9.8	7.6	6.5	5.5	5.6	12.0	1.1
17	6.5	6.5	3.3	2.2	4.3	2.2	-2.2	1.1	2.2	1.1	2.2	0.0	0.0	4.5	4.5	6.7	8.9	10.0	7.7	8.8	6.6	0.0	-1.1	1.1	3.6	10.0	-2.2
18	1.1	0.0	1.1	1.1	1.1	4.3	5.4	4.3	3.3	5.5	10.0	6.7	1.1	4.5	6.7	4.5	3.4	2.2	3.3	5.5	7.7	6.6	50.5	11.0	6.3	50.5	0.0
19	17.5	18.5	16.3	10.9	13.0	11.9	7.6	6.5	8.7	7.7	7.8	10.0	10.1	6.7	6.7	8.9	12.2	12.2	11.0	11.0	9.9	19.8	14.3	9.9	11.2	19.8	6.5
20	7.7	49.3	46.9	16.4	12.0	7.6	2.2	1.1	3.3	3.3	2.2	3.3	7.8	10.0	6.7	7.8	8.9	9.9	19.8	18.7	18.6	22.9	20.8	31.6	14.1	49.3	1.1
21	16.3	13.0	11.9	7.6	7.6	21.7	8.7	10.8	18.5	7.6	10.9	13.2	9.9	6.7	5.6	10.0	11.1	11.0	12.1	6.6	8.8	11.0	11.0	8.8	10.8	21.7	5.6
22	7.7	5.5	8.7	12.0	8.7	8.7	10.9	12.0	8.7	9.9	11.0	8.9	7.8	6.7	6.7	6.7	5.6	7.8	5.5	2.2	2.2	3.3	3.3	2.2	7.2	12.0	2.2
23	4.4	1.1	2.2	3.3	4.4	3.3	3.3	4.4	4.4	6.6	11.1	9.0	3.4	2.3	2.3	0.0	-1.1	6.8	22.5	14.5	17.9	14.5	13.4	11.1	6.9	22.5	-1.1
24	4.5	3.3	6.7	6.7	7.8	6.6	17.6	5.5	9.9	12.1	12.1	11.1	7.8	11.1	12.2	11.1	16.6	21.0	23.1	18.7	14.2	18.5	16.3	16.4	12.1	23.1	3.3
25	13.1	8.7	8.7	9.8	6.5	5.4	6.5	5.4	6.5	9.9	9.9	7.7	6.7	10.0	10.0	11.1	11.1	19.9	16.5	12.1	12.0	16.4	18.5	0.0	10.1	19.9	0.0
26	4.3	9.7	21.6	20.5	17.3	29.1	98.0	63.5	3.2	5.4	7.6	6.5	4.4	5.5	--	--	--	--	2.2	4.4	5.5	5.4	4.3	5.4	16.2	98.0	2.2
27	6.5	2.2	4.3	45.2	2.2	3.2	5.4	20.4	7.6	6.5	7.6	8.8	4.4	4.4	7.8	5.6	5.6	8.8	17.6	8.7	6.6	5.5	8.7	10.9	8.9	45.2	2.2
28	7.6	23.9	20.6	19.5	7.6	6.5	6.5	8.7	6.6	8.8	17.7	6.7	6.7	6.8	6.8	9.0	19.2	14.5	13.3	13.3	11.0	41.8	16.5	16.5	13.2	41.8	6.5
29	26.5	61.3	58.1	92.9	20.7	9.8	6.6	8.7	13.2	13.3	10.1	3.4	4.5	6.8	10.2	13.5	14.6	12.3	11.2	13.3	12.2	10.0	5.5	6.6	18.6	92.9	3.4
30	6.6	5.5	3.3	1.1	6.6	7.7	7.7	6.6	17.7	10.0	7.8	5.6	5.6	6.8	6.8	7.9	13.5	15.8	14.6	17.9	14.6	12.3	9.0	10.1	9.2	17.9	1.1
31	12.3	8.9	5.6	6.7	8.9	5.6	5.6	6.7	7.8	9.0	9.0	6.8	4.5	5.7	5.7	21.6	25.0	59.3	140.0	150.0	127.0	101.0	72.2	82.0	36.9	150.0	4.5
Avg	6.5	8.6	9.1	10.3	6.2	6.1	8.3	8.2	7.2	6.5	7.2	5.9	5.5	5.7	5.7	6.2	7.8	9.9	13.2	12.5	11.3	11.7	10.6	9.3	8.4	--	--
Max	26.5	61.3	58.1	92.9	20.7	29.1	98.0	63.5	34.4	13.3	17.7	16.4	27.4	16.5	12.2	21.6	25.0	59.3	140.0	150.0	127.0	101.0	72.2	82.0	--	150.0	--
Min	0.0	-2.1	-2.2	-2.2	-2.2	0.0	-2.2	0.0	-2.2	-1.1	-1.1	-2.2	-2.2	-3.2	-1.1	-1.1	-1.1	0.0	0.0	1.1	1.1	-1.1	-1.1	0.0	--	--	-3.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant

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

Month: Feb 2016

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	-1.1	5.5	38.3	74.2	64.3	55.5	29.4	25.0	41.1	50.8	16.1	18.2	15.0	19.4	14.0	22.6	18.2	25.8	31.2	35.5	44.2	36.6	25.8	20.4	30.2	74.2	-1.1
2	6.4	6.4	3.2	1.1	4.3	3.2	1.1	1.1	2.1	3.2	2.1	2.1	2.1	5.4	6.4	2.2	0.0	6.4	11.8	8.6	8.5	7.4	6.4	7.4	4.5	11.8	0.0
3	5.3	5.3	7.4	7.4	6.3	7.4	6.3	6.3	6.3	4.3	5.3	4.3	2.2	4.3	5.4	2.2	4.3	6.5	5.4	4.3	3.2	6.4	7.4	10.6	5.6	10.6	2.2
4	13.8	8.5	7.4	5.3	1.1	6.4	10.6	17.0	7.5	5.3	7.5	25.8	18.4	6.5	6.6	6.6	3.3	6.5	8.7	6.5	6.5	6.5	12.9	11.8	9.0	25.8	1.1
5	33.4	11.9	101.0	176.0	7.5	35.6	182.0	94.8	36.7	59.4	86.6	60.9	51.3	5.5	4.4	6.6	6.6	4.4	2.2	-1.1	1.1	2.2	2.2	3.2	40.6	182.0	-1.1
6	4.3	1.1	-1.1	-1.1	-1.1	2.2	4.3	1.1	2.2	5.4	8.7	8.8	7.7	4.4	1.1	0.0	0.0	1.1	5.5	5.5	5.5	8.8	5.5	6.6	3.6	8.8	-1.1
7	4.4	2.2	1.1	1.1	8.8	7.7	3.3	1.1	4.4	7.7	21.1	7.8	10.1	9.0	9.1	11.3	12.4	10.1	22.4	16.8	29.0	0.0	1.1	4.4	8.6	29.0	0.0
8	33.2	34.3	50.9	23.2	14.3	9.9	4.4	26.4	12.1	24.3	24.4	5.6	6.8	9.1	11.3	12.5	12.5	6.8	4.5	9.0	9.0	17.9	14.5	34.5	17.1	50.9	4.4
9	5.6	23.2	18.8	6.6	7.7	6.6	7.7	8.8	6.6	8.9	19.0	4.5	3.4	6.8	10.2	9.1	6.8	6.8	7.9	4.5	20.0	23.4	11.1	30.0	11.0	30.0	3.4
10	30.0	59.6	29.9	20.0	13.3	6.6	1.1	4.4	6.7	6.7	10.1	18.0	15.8	9.1	6.8	9.1	5.7	4.5	18.0	12.3	7.8	6.7	19.0	10.0	13.8	59.6	1.1
11	25.6	36.6	35.4	51.9	24.3	4.4	7.7	9.9	10.0	8.9	6.8	4.6	2.3	3.5	9.2	12.6	14.9	17.1	15.9	21.4	13.5	11.2	11.2	28.9	16.1	51.9	2.3
12	22.3	7.8	6.7	3.3	4.4	2.2	3.3	5.5	6.7	7.9	4.5	6.8	9.1	8.0	9.2	6.9	4.6	5.7	10.2	9.0	4.5	2.3	3.4	5.6	6.7	22.3	2.2
13	5.6	6.7	6.7	5.6	8.9	9.0	7.8	11.2	9.0	11.3	11.3	9.1	10.3	11.5	19.6	15.0	15.0	16.0	15.9	18.1	16.9	12.3	9.0	1.1	11.0	19.6	1.1
14	2.3	6.7	6.7	6.7	7.8	8.9	6.7	6.6	10.0	10.1	8.0	6.8	10.3	18.3	28.6	19.4	18.2	25.0	27.1	23.7	20.3	12.4	11.2	8.9	12.9	28.6	2.3
15	7.8	6.7	43.9	43.8	29.1	149.0	150.0	45.8	59.4	72.0	33.9	15.9	19.4	10.3	18.4	11.5	13.8	14.9	14.8	17.0	15.8	10.1	5.6	9.0	34.1	150.0	5.6
16	6.8	2.3	4.5	9.0	6.7	2.2	6.7	4.5	3.4	3.4	3.4	8.0	9.2	5.8	4.6	5.8	3.5	6.9	9.2	2.3	4.6	20.4	20.4	44.0	8.2	44.0	2.2
17	67.6	88.9	72.1	18.0	20.3	10.1	11.2	7.8	7.9	8.0	6.9	9.2	11.6	8.1	5.8	5.8	7.0	5.8	6.9	8.1	8.1	10.4	10.3	9.2	17.7	88.9	5.8
18	5.7	3.4	8.0	8.0	5.7	7.9	11.3	10.2	23.7	8.0	8.0	6.8	6.9	11.5	10.4	27.6	28.6	35.4	23.9	19.2	18.1	22.6	29.2	44.8	16.0	44.8	3.4
19	33.7	40.3	43.6	38.1	23.5	16.8	20.1	16.7	22.4	15.8	11.4	9.1	10.3	11.4	8.0	6.9	5.7	5.7	10.2	9.0	6.8	5.6	3.4	4.5	15.8	43.6	3.4
20	3.4	4.5	3.4	0.0	4.5	5.6	3.3	2.2	5.6	9.0	6.9	3.4	5.7	10.3	19.6	10.4	18.4	16.0	16.0	14.8	10.2	7.9	9.0	7.9	8.2	19.6	0.0
21	2.2	4.5	9.0	6.7	5.6	5.6	6.7	7.8	7.9	7.9	8.0	12.5	14.8	12.6	10.3	10.3	8.0	10.3	20.5	20.4	14.7	18.1	13.6	13.6	10.5	20.5	2.2
22	11.2	10.1	16.8	14.5	13.4	12.2	13.3	16.7	12.3	7.9	7.9	19.2	17.0	14.8	19.4	22.8	31.9	53.7	51.3	45.4	36.2	37.2	20.3	10.1	21.5	53.7	7.9
23	7.8	4.5	4.5	4.5	4.5	5.5	7.7	10.9	13.2	11.0	11.1	11.1	6.7	3.4	6.7	7.8	3.4	3.4	5.6	5.5	9.9	9.9	6.6	10.9	7.3	13.2	3.4
24	12.0	7.6	8.7	21.8	13.0	18.4	14.1	14.1	12.0	8.8	12.1	11.1	6.7	6.7	7.9	6.8	6.8	6.7	6.7	8.9	26.6	13.3	10.0	19.9	11.7	26.6	6.7
25	13.3	17.7	6.6	7.7	8.8	6.6	2.2	4.4	10.0	10.0	8.9	10.1	6.8	8.0	10.3	8.0	10.3	10.2	7.9	6.8	6.7	9.0	10.1	5.6	8.6	17.7	2.2
26	2.2	4.5	7.8	10.0	8.9	11.1	15.5	15.5	12.3	26.9	20.3	23.8	22.8	21.8	15.0	15.0	12.7	10.3	11.4	9.1	3.4	3.4	6.7	6.7	12.4	26.9	2.2
27	5.6	3.4	5.6	10.1	10.0	11.1	11.1	13.4	13.4	13.5	21.6	12.6	10.3	12.7	17.3	16.2	17.3	16.1	16.0	15.9	15.9	16.9	14.6	11.2	13.0	21.6	3.4
28	9.0	9.0	17.9	15.6	14.5	11.2	12.2	13.3	16.8	14.7	14.8	13.7	11.4	10.3	9.2	8.0	12.6	14.9	13.7	12.5	10.2	11.3	10.2	6.7	12.2	17.9	6.7
29	6.8	6.7	7.9	7.8	8.9	10.0	8.9	7.8	20.2	12.4	13.6	13.7	20.6	12.6	12.6	18.4	19.5	22.9	18.3	19.3	17.0	13.6	12.5	11.4	13.5	22.9	6.7
Avg	13.3	14.8	19.8	20.6	12.0	15.5	19.7	14.1	13.8	15.3	14.5	12.5	11.9	9.7	10.9	10.9	11.1	13.0	14.4	13.4	13.6	12.5	11.1	13.8	13.8	--	--
Max	67.6	88.9	101.0	176.0	64.3	149.0	182.0	94.8	59.4	72.0	86.6	60.9	51.3	21.8	28.6	27.6	31.9	53.7	51.3	45.4	44.2	37.2	29.2	44.8	--	182.0	--
Min	-1.1	1.1	-1.1	-1.1	-1.1	2.2	1.1	1.1	2.1	3.2	2.1	2.1	2.1	3.4	1.1	0.0	0.0	1.1	2.2	-1.1	1.1	0.0	1.1	1.1	--	--	-1.1

SAROAD for Resolution, East_Plant

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

Month: Mar 2016

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	12.5	12.4	12.3	10.1	8.9	5.6	5.6	8.9	14.6	15.9	17.1	9.1	9.2	11.5	13.8	15.0	16.1	18.3	20.5	15.9	13.6	12.5	11.3	11.3	12.6	20.5	5.6
2	10.1	7.9	7.8	9.0	9.0	8.9	8.9	8.9	21.3	23.8	12.5	14.9	21.8	18.4	11.5	12.7	13.8	18.4	10.3	13.7	13.7	11.4	8.0	4.6	12.5	23.8	4.6
3	2.3	3.4	4.5	3.4	6.7	8.9	11.1	14.5	13.4	22.6	10.3	10.3	11.5	12.7	--	24.3	9.2	12.6	17.2	13.7	14.7	14.7	11.3	5.6	11.2	24.3	2.3
4	7.9	9.0	9.0	12.4	12.3	10.1	11.1	15.5	15.7	22.8	16.1	25.3	12.7	12.7	11.6	12.8	10.4	11.5	14.9	13.7	12.5	9.1	8.0	11.4	12.9	25.3	7.9
5	11.3	11.3	10.1	11.2	11.2	12.3	13.4	12.3	13.5	14.8	12.5	11.4	17.2	11.5	11.5	19.5	16.0	20.6	10.3	17.1	13.6	13.6	13.6	15.8	13.6	20.6	10.1
6	13.6	11.3	9.1	7.9	7.9	16.8	13.4	21.3	7.9	7.9	6.8	9.1	9.1	17.1	25.1	38.8	8.0	10.3	27.3	17.0	24.9	24.9	41.6	69.4	18.6	69.4	6.8
7	118.0	164.0	159.0	153.0	152.0	141.0	132.0	128.0	143.0	116.0	69.3	42.6	47.3	42.8	42.9	37.3	23.7	40.5	42.6	42.4	32.3	30.1	23.3	28.8	81.3	164.0	23.3
8	27.7	24.3	19.7	17.5	14.2	18.6	16.4	19.8	25.5	23.3	28.7	18.9	21.2	22.4	23.7	20.3	23.7	27.0	28.0	26.8	25.7	29.1	22.4	21.2	22.8	29.1	14.2
9	17.8	9.9	17.7	13.3	16.5	18.7	24.2	18.8	13.4	11.2	10.2	26.0	20.4	19.3	21.6	21.6	15.9	12.5	19.2	19.1	16.9	14.5	12.3	11.1	16.8	26.0	9.9
10	11.1	8.9	11.2	33.7	20.2	9.0	24.6	14.6	11.3	9.1	8.0	9.1	5.7	2.3	2.3	5.8	10.4	11.5	12.6	18.2	18.1	11.2	13.5	11.3	12.2	33.7	2.3
11	10.1	10.1	9.0	12.3	--	3.4	3.3	7.8	9.0	6.8	6.8	8.0	12.6	10.4	5.8	4.6	6.9	31.2	33.3	27.4	25.1	15.9	11.3	10.2	12.2	33.3	3.3
12	9.0	6.7	33.5	162.0	242.0	173.0	90.8	60.0	28.4	24.1	19.8	12.1	13.3	15.5	22.3	17.8	17.8	17.8	16.6	22.1	18.8	23.1	30.7	18.6	45.6	242.0	6.7
13	16.4	--	--	15.4	13.1	12.0	13.1	16.4	16.5	14.5	13.4	12.3	14.6	18.0	15.8	15.8	17.0	14.7	22.5	20.2	19.0	18.9	18.9	17.9	16.2	22.5	12.0
14	16.7	22.3	13.4	13.4	14.5	15.5	26.5	15.4	20.0	19.0	28.0	22.5	20.3	17.0	25.0	20.5	23.9	24.9	30.5	22.5	19.1	24.7	19.0	21.3	20.7	30.5	13.4
15	21.2	19.0	14.5	12.3	12.2	13.2	17.7	15.5	24.6	12.4	12.5	14.8	11.4	8.0	--	--	--	--	--	--	--	--	--	--	--	24.6	8.0
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	27.4	60.8	159.0	403.0	190.0	136.0	74.0	65.7	72.2	102.0	75.1	68.3	52.5	--	403.0	27.4
23	53.6	56.8	72.2	61.0	28.9	21.1	18.8	17.6	14.4	11.1	6.7	3.4	2.2	2.3	3.4	5.6	4.5	6.7	7.8	10.0	10.0	8.9	8.9	8.9	18.5	72.2	2.2
24	6.6	4.4	6.6	9.9	8.8	12.1	11.0	6.6	7.8	7.8	7.9	9.1	9.1	6.8	8.0	9.1	6.8	6.8	10.2	12.4	14.7	13.5	12.4	14.6	9.3	14.7	4.4
25	11.3	9.0	7.9	7.8	7.8	8.9	8.9	11.1	14.6	11.3	8.0	8.0	6.9	5.7	8.1	12.7	19.6	10.3	9.2	9.1	12.6	12.5	8.0	5.7	9.8	19.6	5.7
26	5.7	10.2	10.2	7.9	9.0	11.2	10.0	6.7	9.1	11.4	10.3	10.3	11.5	13.8	24.2	31.1	18.4	14.9	17.2	17.1	19.3	14.8	12.5	11.2	13.2	31.1	5.7
27	17.9	10.0	8.9	7.7	7.7	7.7	6.6	5.6	9.0	14.7	12.5	12.5	11.4	9.2	6.9	6.9	9.2	11.5	10.3	10.3	17.0	7.9	7.9	11.2	10.0	17.9	5.6
28	11.3	9.1	10.1	9.0	7.9	9.0	20.2	18.0	14.7	20.4	18.2	17.2	13.8	23.0	51.8	84.0	66.8	77.0	82.4	68.5	53.4	48.7	45.2	68.6	35.3	84.0	7.9
29	28.1	12.4	9.0	10.1	17.9	22.2	13.3	14.4	18.8	37.5	69.1	43.6	32.7	30.8	32.1	38.9	35.6	30.1	29.0	30.0	21.1	19.9	19.9	17.7	26.4	69.1	9.0
30	18.8	18.8	14.3	17.6	21.9	25.1	27.3	25.2	34.0	31.9	20.9	17.7	13.3	18.9	16.7	16.7	16.7	20.1	16.7	19.9	12.2	17.6	13.2	14.3	19.6	34.0	12.2
31	15.3	13.1	12.0	13.1	12.0	10.9	9.8	11.0	10.0	11.1	14.4	14.5	13.4	13.4	14.5	12.3	12.3	21.3	24.6	20.1	18.9	18.9	18.8	8.9	14.4	24.6	8.9
Avg	19.8	20.2	21.0	26.3	28.8	24.8	22.4	20.6	21.3	20.9	18.3	16.4	16.9	20.9	34.8	28.1	22.5	22.7	24.1	23.3	22.9	20.5	19.2	19.7	20.2	--	--
Max	118.0	164.0	159.0	162.0	242.0	173.0	132.0	128.0	143.0	116.0	69.3	43.6	60.8	159.0	403.0	190.0	136.0	77.0	82.4	72.2	102.0	75.1	68.3	69.4	--	403.0	--
Min	2.3	3.4	4.5	3.4	6.7	3.4	3.3	5.6	7.8	6.8	6.7	3.4	2.2	2.3	2.3	4.6	4.5	6.7	7.8	9.1	10.0	7.9	7.9	4.6	--	--	2.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table126, conc_$PM_{2.5}$_µg/m^3 Actual"
Month: Jan 2016

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	3.0	1.0	0.0	3.0	5.0	6.0	4.0	3.0	6.0	7.0	5.0	5.0	6.0	8.0	6.0	5.0	5.0	6.0	6.0	8.0	7.0	5.0	5.0	4.9	8.0	0.0
2	5.0	7.0	6.0	6.0	5.0	2.0	4.0	7.0	6.0	6.0	5.0	0.0	2.0	4.0	4.0	3.0	2.0	4.0	4.0	3.0	2.0	2.0	4.0	4.0	4.0	7.0	0.0
3	3.0	3.0	4.0	5.0	2.0	1.0	5.0	7.0	6.0	5.0	5.0	6.0	7.0	5.0	2.0	5.0	6.0	3.0	3.0	6.0	6.0	5.0	5.0	6.0	4.6	7.0	1.0
4	5.0	5.0	4.0	3.0	4.0	6.0	5.0	7.0	10.0	7.0	4.0	1.0	1.0	5.0	6.0	5.0	4.0	3.0	2.0	0.0	1.0	--	--	--	4.2	10.0	0.0
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	2.0	5.0	2.0	0.0	2.0	--	5.0	0.0
12	4.0	3.0	3.0	2.0	0.0	2.0	0.0	0.0	3.0	2.0	-1.0	0.0	2.0	3.0	2.0	-1.0	-1.0	-1.0	-1.0	0.0	3.0	4.0	4.0	4.0	1.5	4.0	-1.0
13	2.0	-1.0	0.0	2.0	3.0	3.0	3.0	1.0	1.0	2.0	0.0	1.0	2.0	2.0	2.0	0.0	1.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	1.8	3.0	-1.0
14	3.0	5.0	3.0	1.0	1.0	2.0	3.0	2.0	2.0	2.0	1.0	-1.0	1.0	6.0	4.0	1.0	2.0	4.0	4.0	3.0	3.0	4.0	4.0	3.0	2.6	6.0	-1.0
15	3.0	3.0	3.0	1.0	2.0	5.0	8.0	9.0	7.0	6.0	5.0	4.0	4.0	3.0	0.0	3.0	6.0	4.0	7.0	8.0	7.0	6.0	4.0	6.0	4.8	9.0	0.0
16	8.0	5.0	2.0	3.0	3.0	2.0	4.0	6.0	6.0	4.0	2.0	2.0	1.0	1.0	1.0	-1.0	-1.0	0.0	3.0	7.0	7.0	4.0	5.0	5.0	3.3	8.0	-1.0
17	3.0	2.0	1.0	2.0	4.0	4.0	1.0	1.0	2.0	2.0	0.0	-1.0	-2.0	-2.0	0.0	1.0	1.0	1.0	3.0	4.0	3.0	1.0	1.0	0.0	1.3	4.0	-2.0
18	-1.0	1.0	1.0	-1.0	1.0	2.0	3.0	4.0	2.0	1.0	1.0	0.0	0.0	1.0	1.0	-1.0	0.0	0.0	-1.0	1.0	2.0	1.0	3.0	2.0	1.0	4.0	-1.0
19	2.0	6.0	3.0	2.0	3.0	5.0	4.0	2.0	2.0	1.0	1.0	1.0	-2.0	0.0	3.0	6.0	6.0	5.0	6.0	4.0	3.0	3.0	4.0	3.0	3.0	6.0	-2.0
20	3.0	4.0	4.0	4.0	3.0	4.0	3.0	0.0	0.0	1.0	0.0	2.0	1.0	-1.0	0.0	2.0	3.0	3.0	6.0	11.0	11.0	7.0	7.0	7.0	3.5	11.0	-1.0
21	6.0	4.0	2.0	2.0	2.0	-1.0	-1.0	2.0	3.0	2.0	3.0	2.0	1.0	0.0	0.0	0.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	6.0	-1.0
22	2.0	1.0	2.0	1.0	-1.0	1.0	2.0	1.0	2.0	1.0	-1.0	0.0	-1.0	1.0	1.0	-1.0	-2.0	-4.0	-2.0	1.0	2.0	0.0	1.0	1.0	0.3	2.0	-4.0
23	2.0	1.0	2.0	2.0	-1.0	0.0	3.0	2.0	2.0	1.0	2.0	1.0	0.0	-1.0	-1.0	1.0	2.0	1.0	2.0	3.0	0.0	-1.0	3.0	5.0	1.3	5.0	-1.0
24	2.0	1.0	1.0	4.0	6.0	4.0	4.0	5.0	7.0	6.0	4.0	6.0	6.0	4.0	4.0	5.0	5.0	5.0	3.0	4.0	8.0	7.0	7.0	8.0	4.8	8.0	1.0
25	7.0	6.0	5.0	3.0	2.0	1.0	2.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	5.0	6.0	4.0	5.0	4.0	1.0	0.0	0.0	2.7	7.0	0.0
26	1.0	1.0	1.0	2.0	2.0	7.0	26.0	16.0	6.0	5.0	3.0	1.0	0.0	1.0	-1.0	0.0	--	--	4.0	3.0	0.0	0.0	2.0	1.0	3.7	26.0	-1.0
27	1.0	1.0	2.0	3.0	2.0	1.0	1.0	2.0	-2.0	-2.0	1.0	3.0	4.0	2.0	2.0	2.0	2.0	3.0	3.0	1.0	2.0	3.0	2.0	1.0	1.7	4.0	-2.0
28	3.0	2.0	1.0	4.0	5.0	4.0	3.0	5.0	6.0	4.0	2.0	2.0	2.0	0.0	0.0	-2.0	-3.0	2.0	4.0	4.0	3.0	2.0	3.0	0.0	2.3	6.0	-3.0
29	1.0	5.0	4.0	4.0	5.0	3.0	4.0	6.0	6.0	4.0	4.0	2.0	2.0	1.0	3.0	6.0	4.0	4.0	6.0	7.0	6.0	5.0	3.0	3.0	4.1	7.0	1.0
30	4.0	3.0	4.0	2.0	3.0	6.0	6.0	5.0	5.0	4.0	4.0	3.0	1.0	1.0	0.0	0.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	2.6	6.0	0.0
31	2.0	2.0	4.0	4.0	2.0	0.0	1.0	1.0	1.0	2.0	3.0	2.0	2.0	2.0	0.0	2.0	3.0	1.0	3.0	8.0	10.0	9.0	7.0	6.0	3.2	10.0	0.0
Avg	3.0	3.0	2.6	2.5	2.5	2.9	4.2	4.1	3.7	3.0	2.3	1.8	1.7	1.9	1.8	1.8	2.3	2.4	3.0	3.8	4.0	3.2	3.3	3.2	2.9	--	--
Max	8.0	7.0	6.0	6.0	6.0	7.0	26.0	16.0	10.0	7.0	7.0	6.0	7.0	6.0	8.0	6.0	6.0	6.0	7.0	11.0	11.0	9.0	7.0	8.0	--	26.0	--
Min	-1.0	-1.0	0.0	-1.0	-1.0	-1.0	-1.0	0.0	-2.0	-2.0	-1.0	-1.0	-2.0	-2.0	-1.0	-2.0	-3.0	-4.0	-2.0	0.0	0.0	-1.0	0.0	0.0	--	--	-4.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table126, conc_$PM_{2.5}$_µg/m^3 Actual"
Month: Feb 2016

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	7.0	7.0	6.0	5.0	6.0	7.0	7.0	7.0	6.0	5.0	4.0	4.0	6.0	6.0	4.0	5.0	6.0	6.0	6.0	5.0	2.0	4.0	5.4	7.0	2.0
2	5.0	2.0	3.0	3.0	2.0	5.0	5.0	5.0	6.0	3.0	2.0	2.0	1.0	1.0	2.0	5.0	4.0	2.0	-1.0	2.0	5.0	2.0	2.0	4.0	3.0	6.0	-1.0
3	5.0	6.0	7.0	5.0	2.0	3.0	6.0	7.0	4.0	1.0	3.0	3.0	0.0	0.0	1.0	2.0	0.0	-1.0	1.0	1.0	1.0	1.0	3.0	3.0	2.7	7.0	-1.0
4	1.0	2.0	2.0	3.0	5.0	1.0	3.0	8.0	6.0	2.0	1.0	3.0	3.0	3.0	3.0	1.0	-2.0	-2.0	2.0	3.0	3.0	3.0	2.0	2.0	2.4	8.0	-2.0
5	2.0	3.0	6.0	70.0	13.0	16.0	75.0	57.0	57.0	70.0	83.0	57.0	42.0	5.0	3.0	0.0	0.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	23.9	83.0	0.0
6	-1.0	0.0	0.0	0.0	-1.0	-1.0	0.0	3.0	4.0	2.0	1.0	2.0	4.0	2.0	0.0	-1.0	0.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	1.1	4.0	-1.0
7	3.0	1.0	1.0	2.0	2.0	2.0	2.0	0.0	-2.0	1.0	5.0	4.0	2.0	0.0	0.0	1.0	2.0	3.0	5.0	4.0	4.0	3.0	3.0	3.0	2.1	5.0	-2.0
8	0.0	2.0	7.0	8.0	5.0	2.0	1.0	2.0	1.0	5.0	7.0	4.0	4.0	1.0	0.0	2.0	2.0	3.0	2.0	3.0	5.0	3.0	2.0	2.0	3.0	8.0	0.0
9	1.0	1.0	3.0	5.0	3.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0	1.0	-1.0	0.0	1.0	0.0	0.0	1.0	1.0	2.0	5.0	2.0	2.0	1.5	5.0	-1.0
10	4.0	4.0	4.0	1.0	1.0	3.0	2.0	3.0	6.0	4.0	1.0	1.0	0.0	1.0	2.0	2.0	4.0	4.0	0.0	0.0	1.0	3.0	4.0	2.0	2.4	6.0	0.0
11	1.0	4.0	4.0	4.0	4.0	0.0	1.0	5.0	4.0	2.0	1.0	2.0	3.0	0.0	0.0	1.0	2.0	2.0	3.0	5.0	8.0	6.0	1.0	2.0	2.7	8.0	0.0
12	2.0	2.0	4.0	2.0	0.0	0.0	2.0	3.0	4.0	0.0	-2.0	1.0	2.0	2.0	0.0	1.0	3.0	3.0	3.0	2.0	1.0	1.0	0.0	1.0	1.5	4.0	-2.0
13	3.0	4.0	4.0	4.0	2.0	2.0	4.0	3.0	3.0	2.0	0.0	3.0	3.0	1.0	1.0	3.0	3.0	2.0	4.0	4.0	2.0	3.0	4.0	2.0	2.8	4.0	0.0
14	3.0	2.0	0.0	1.0	3.0	3.0	1.0	1.0	3.0	2.0	1.0	0.0	0.0	1.0	5.0	7.0	6.0	7.0	6.0	8.0	8.0	6.0	4.0	4.0	3.4	8.0	0.0
15	4.0	1.0	0.0	2.0	3.0	4.0	5.0	4.0	5.0	7.0	4.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	1.0	2.0	3.0	4.0	1.0	1.0	2.8	7.0	0.0
16	3.0	1.0	-1.0	0.0	0.0	0.0	3.0	3.0	1.0	1.0	2.0	2.0	1.0	2.0	0.0	-1.0	-1.0	1.0	3.0	3.0	3.0	4.0	2.0	3.0	1.5	4.0	-1.0
17	4.0	6.0	7.0	5.0	4.0	1.0	1.0	4.0	2.0	-1.0	0.0	-1.0	0.0	1.0	2.0	0.0	3.0	6.0	3.0	0.0	2.0	3.0	3.0	1.0	2.3	7.0	-1.0
18	0.0	3.0	4.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	3.0	2.0	3.0	3.0	5.0	7.0	6.0	4.0	2.0	2.0	3.0	6.0	2.7	7.0	0.0
19	6.0	6.0	6.0	5.0	4.0	4.0	5.0	4.0	4.0	4.0	4.0	4.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0	1.0	0.0	2.0	3.0	2.8	6.0	0.0
20	2.0	4.0	4.0	3.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	1.0	1.0	2.0	2.0	3.0	4.0	3.0	1.0	2.0	3.0	3.0	2.5	4.0	1.0
21	2.0	1.0	1.0	1.0	1.0	3.0	2.0	2.0	2.0	1.0	2.0	3.0	4.0	6.0	7.0	4.0	0.0	1.0	3.0	5.0	7.0	6.0	6.0	3.0	3.0	7.0	0.0
22	2.0	3.0	4.0	3.0	3.0	5.0	5.0	8.0	6.0	4.0	6.0	4.0	0.0	1.0	3.0	3.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	3.0	3.9	8.0	0.0
23	0.0	0.0	3.0	4.0	3.0	3.0	3.0	4.0	3.0	2.0	2.0	1.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0	2.0	1.0	2.1	4.0	0.0
24	0.0	2.0	1.0	1.0	2.0	1.0	3.0	3.0	2.0	1.0	0.0	3.0	3.0	1.0	1.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	1.9	3.0	0.0
25	3.0	2.0	2.0	3.0	2.0	2.0	2.0	1.0	4.0	3.0	3.0	4.0	1.0	0.0	2.0	3.0	1.0	2.0	2.0	4.0	2.0	0.0	2.0	4.0	2.3	4.0	0.0
26	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	4.0	3.0	3.0	1.0	0.0	4.0	4.0	1.0	1.0	1.0	3.0	4.0	2.0	0.0	1.0	3.0	2.1	4.0	0.0
27	2.0	1.0	3.0	3.0	3.0	5.0	4.0	2.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	0.0	1.0	3.0	5.0	4.0	2.0	2.0	2.7	5.0	0.0
28	4.0	5.0	3.0	5.0	6.0	5.0	6.0	5.0	5.0	5.0	2.0	4.0	4.0	3.0	4.0	6.0	5.0	5.0	2.0	2.0	5.0	5.0	4.0	2.0	4.3	6.0	2.0
29	2.0	3.0	1.0	1.0	2.0	4.0	6.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	5.0	4.0	4.0	4.0	3.3	6.0	1.0
Avg	2.4	2.7	3.2	5.3	3.0	2.9	5.5	5.4	5.4	4.9	5.1	4.3	3.4	1.7	2.0	2.2	2.1	2.5	2.7	3.0	3.3	3.0	2.6	2.6	3.4	--	--
Max	6.0	6.0	7.0	70.0	13.0	16.0	75.0	57.0	57.0	70.0	83.0	57.0	42.0	6.0	7.0	7.0	6.0	7.0	6.0	8.0	8.0	6.0	6.0	6.0	--	83.0	--
Min	-1.0	0.0	-1.0	0.0	-1.0	-1.0	0.0	0.0	-2.0	-1.0	-2.0	-1.0	0.0	-1.0	0.0	-1.0	-2.0	-2.0	-1.0	0.0	1.0	0.0	0.0	1.0	--	--	-2.0

SAROAD for Resolution, East_Plant
"Component, Channel: Table126, conc_$PM_{2.5}$_µg/m^3 Actual"
Month: Mar 2016

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	6.0	5.0	2.0	1.0	5.0	3.0	2.0	5.0	3.0	3.0	5.0	5.0	2.0	2.0	4.0	3.0	2.0	4.0	6.0	5.0	4.0	4.0	4.0	3.7	6.0	1.0
2	4.0	1.0	-1.0	4.0	4.0	2.0	2.0	3.0	5.0	4.0	1.0	4.0	5.0	6.0	4.0	1.0	3.0	4.0	3.0	4.0	4.0	5.0	3.0	1.0	3.2	6.0	-1.0
3	4.0	5.0	1.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	4.0	--	7.0	10.0	7.0	6.0	6.0	6.0	7.0	7.0	6.0	5.1	10.0	1.0
4	5.0	5.0	5.0	5.0	4.0	4.0	5.0	8.0	10.0	8.0	5.0	4.0	5.0	5.0	3.0	4.0	3.0	2.0	3.0	3.0	2.0	1.0	3.0	2.0	4.3	10.0	1.0
5	1.0	1.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	1.0	2.0	5.0	4.0	4.0	5.0	2.0	2.0	5.0	6.0	4.0	2.0	3.3	6.0	1.0
6	3.0	4.0	5.0	4.0	3.0	6.0	7.0	5.0	5.0	4.0	0.0	-1.0	0.0	3.0	2.0	3.0	2.0	0.0	2.0	4.0	5.0	5.0	4.0	4.0	3.3	7.0	-1.0
7	8.0	24.0	24.0	23.0	21.0	18.0	20.0	21.0	23.0	19.0	10.0	10.0	9.0	8.0	8.0	7.0	6.0	5.0	5.0	5.0	5.0	5.0	6.0	7.0	12.4	24.0	5.0
8	6.0	5.0	4.0	6.0	6.0	5.0	3.0	3.0	5.0	5.0	4.0	4.0	4.0	3.0	4.0	3.0	3.0	5.0	4.0	6.0	7.0	5.0	4.0	1.0	4.4	7.0	1.0
9	2.0	5.0	4.0	2.0	1.0	3.0	5.0	5.0	5.0	4.0	3.0	4.0	7.0	7.0	2.0	4.0	6.0	4.0	3.0	3.0	0.0	1.0	3.0	3.0	3.6	7.0	0.0
10	4.0	2.0	0.0	2.0	3.0	6.0	5.0	3.0	4.0	5.0	1.0	2.0	4.0	6.0	7.0	5.0	4.0	3.0	4.0	1.0	1.0	2.0	1.0	2.0	3.2	7.0	0.0
11	4.0	5.0	3.0	2.0	--	2.0	3.0	4.0	3.0	4.0	3.0	2.0	4.0	2.0	2.0	3.0	2.0	3.0	5.0	4.0	4.0	4.0	3.0	4.0	3.3	5.0	2.0
12	3.0	2.0	4.0	19.0	25.0	17.0	6.0	8.0	8.0	7.0	6.0	3.0	2.0	2.0	4.0	5.0	4.0	4.0	5.0	6.0	4.0	4.0	6.0	6.0	6.7	25.0	2.0
13	5.0	--	7.0	5.0	6.0	4.0	1.0	3.0	6.0	6.0	3.0	3.0	1.0	-1.0	3.0	5.0	4.0	4.0	4.0	4.0	5.0	6.0	6.0	3.0	4.0	7.0	-1.0
14	2.0	4.0	5.0	6.0	5.0	5.0	6.0	6.0	8.0	9.0	9.0	8.0	7.0	5.0	5.0	5.0	7.0	8.0	6.0	5.0	6.0	6.0	6.0	8.0	6.1	9.0	2.0
15	7.0	7.0	6.0	4.0	3.0	5.0	6.0	6.0	5.0	5.0	1.0	0.0	4.0	4.0	3.0	2.0	3.0	5.0	6.0	6.0	6.0	4.0	3.0	4.0	4.4	7.0	0.0
16	4.0	5.0	6.0	4.0	4.0	4.0	4.0	7.0	5.0	2.0	4.0	4.0	4.0	3.0	1.0	3.0	5.0	6.0	4.0	2.0	2.0	3.0	4.0	6.0	4.0	7.0	1.0
17	6.0	5.0	6.0	5.0	6.0	7.0	9.0	9.0	8.0	6.0	3.0	4.0	4.0	3.0	4.0	5.0	6.0	4.0	3.0	4.0	6.0	6.0	8.0	8.0	5.6	9.0	3.0
18	6.0	6.0	6.0	5.0	3.0	4.0	4.0	4.0	7.0	9.0	10.0	9.0	4.0	5.0	7.0	7.0	5.0	4.0	9.0	8.0	6.0	7.0	7.0	4.0	6.1	10.0	3.0
19	4.0	6.0	5.0	3.0	2.0	5.0	5.0	6.0	7.0	6.0	5.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0	3.0	4.0	6.0	5.0	6.0	5.0	4.3	7.0	2.0
20	3.0	6.0	6.0	4.0	4.0	2.0	2.0	5.0	7.0	6.0	6.0	6.0	5.0	5.0	7.0	7.0	5.0	7.0	5.0	2.0	4.0	6.0	5.0	5.0	5.0	7.0	2.0
21	6.0	5.0	3.0	5.0	6.0	6.0	6.0	6.0	5.0	3.0	2.0	2.0	3.0	6.0	6.0	3.0	2.0	3.0	5.0	6.0	6.0	5.0	5.0	5.0	4.6	6.0	2.0
22	4.0	5.0	4.0	5.0	5.0	4.0	4.0	5.0	7.0	--	--	7.0	7.0	10.0	28.0	17.0	14.0	11.0	9.0	10.0	20.0	15.0	13.0	11.0	9.8	28.0	4.0
23	9.0	10.0	16.0	10.0	7.0	3.0	3.0	5.0	5.0	2.0	-1.0	1.0	2.0	0.0	0.0	0.0	1.0	3.0	3.0	0.0	1.0	3.0	2.0	1.0	3.6	16.0	-1.0
24	1.0	-1.0	0.0	1.0	0.0	0.0	2.0	3.0	3.0	0.0	0.0	0.0	-2.0	-1.0	0.0	1.0	2.0	3.0	1.0	1.0	3.0	3.0	2.0	2.0	1.0	3.0	-2.0
25	2.0	0.0	-1.0	0.0	0.0	0.0	-1.0	-1.0	1.0	2.0	1.0	1.0	0.0	1.0	3.0	3.0	0.0	1.0	3.0	1.0	-1.0	0.0	0.0	2.0	0.7	3.0	-1.0
26	2.0	2.0	3.0	2.0	3.0	1.0	2.0	2.0	1.0	4.0	4.0	1.0	1.0	1.0	2.0	3.0	5.0	7.0	4.0	3.0	3.0	3.0	3.0	3.0	2.7	7.0	1.0
27	5.0	3.0	1.0	0.0	1.0	3.0	4.0	4.0	4.0	4.0	3.0	2.0	-1.0	0.0	1.0	2.0	4.0	3.0	1.0	3.0	4.0	4.0	2.0	2.0	2.5	5.0	-1.0
28	2.0	4.0	4.0	1.0	2.0	3.0	5.0	3.0	2.0	2.0	3.0	2.0	2.0	3.0	3.0	6.0	6.0	5.0	6.0	6.0	7.0	7.0	7.0	9.0	4.2	9.0	1.0
29	8.0	5.0	4.0	6.0	8.0	7.0	5.0	6.0	6.0	6.0	8.0	11.0	10.0	10.0	8.0	6.0	5.0	6.0	7.0	5.0	2.0	3.0	3.0	3.0	6.2	11.0	2.0
30	3.0	2.0	2.0	4.0	5.0	6.0	8.0	7.0	7.0	6.0	5.0	5.0	6.0	6.0	4.0	3.0	5.0	5.0	5.0	4.0	3.0	4.0	4.0	3.0	4.7	8.0	2.0
31	1.0	-1.0	2.0	5.0	5.0	3.0	5.0	5.0	6.0	5.0	4.0	4.0	3.0	3.0	3.0	4.0	6.0	5.0	4.0	6.0	6.0	6.0	6.0	6.0	4.3	6.0	-1.0
Avg	4.1	4.6	4.6	4.8	5.0	4.8	4.7	5.2	5.8	5.1	3.8	3.9	3.7	3.7	4.5	4.4	4.4	4.4	4.3	4.2	4.6	4.7	4.5	4.3	4.5	--	--
Max	9.0	24.0	24.0	23.0	25.0	18.0	20.0	21.0	23.0	19.0	10.0	11.0	10.0	10.0	28.0	17.0	14.0	11.0	9.0	10.0	20.0	15.0	13.0	11.0	--	28.0	--
Min	1.0	-1.0	-1.0	0.0	0.0	0.0	-1.0	-1.0	1.0	0.0	-1.0	-1.0	-2.0	-1.0	0.0	0.0	0.0	0.0	1.0	0.0	-1.0	0.0	0.0	1.0	--	--	-2.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Jan 2016

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	4.2	4.2	3.1	2.1	6.3	8.4	6.3	9.5	8.4	5.3	8.5	6.4	6.4	7.5	5.4	5.3	6.4	7.4	7.4	8.4	9.5	5.3	4.2	6.3	9.5	2.1
2	4.2	4.2	6.3	4.2	2.1	3.1	4.2	6.3	5.2	4.2	6.3	6.3	4.3	3.2	4.3	4.3	2.1	0.0	1.1	1.1	2.1	3.2	4.2	3.2	3.7	6.3	0.0
3	4.2	5.3	6.3	6.3	3.1	5.2	7.3	5.2	3.2	2.1	4.2	49.8	2.1	2.1	4.3	4.3	2.2	29.0	12.9	22.5	12.9	32.1	184.0	6.4	17.4	184.0	2.1
4	8.6	7.5	4.3	5.3	24.5	58.6	30.9	24.4	118.0	12.7	10.6	6.4	3.2	5.3	4.2	5.3	3.2	-2.1	1.1	3.2	-2.1	-2.1	-2.1	-2.1	13.6	118.0	-2.1
5	-1.1	-3.2	-4.2	-4.2	-2.1	-1.1	-2.1	1.1	-1.1	-3.1	-1.1	-1.1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	1.1	-4.2
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.1	2.1	3.1	1.0	0.0	3.1	2.1	--	3.1	-2.1
12	0.0	3.1	3.1	2.1	1.0	1.0	2.1	2.1	2.1	2.1	1.1	2.1	4.2	2.1	1.1	3.2	2.1	0.0	-1.1	0.0	-1.1	-2.1	1.1	-1.1	1.3	4.2	-2.1
13	-1.1	3.1	2.1	1.0	2.1	1.0	3.1	5.2	3.1	2.1	2.1	1.1	1.1	0.0	5.3	7.5	5.4	5.3	7.4	7.4	6.3	5.2	3.1	3.1	3.4	7.5	-1.1
14	4.2	4.2	3.1	3.1	1.0	0.0	3.1	5.2	3.1	4.2	6.4	4.3	6.4	9.6	6.4	4.3	2.1	2.1	7.4	9.4	9.4	7.3	5.2	4.2	4.8	9.6	0.0
15	4.2	6.2	8.3	8.3	8.3	9.4	9.4	10.4	9.3	7.3	7.4	4.2	0.0	1.1	4.2	6.3	8.4	8.4	9.4	12.5	12.5	9.4	9.3	8.3	7.6	12.5	0.0
16	9.3	7.2	3.1	2.1	1.0	3.1	4.1	3.1	0.0	-1.0	0.0	-1.1	-2.1	2.1	6.4	3.2	2.1	5.3	8.4	8.4	9.4	7.3	7.3	9.4	4.1	9.4	-2.1
17	4.2	4.2	4.2	-1.0	2.1	4.1	2.1	1.0	2.1	-1.1	-2.1	-1.1	0.0	5.4	6.4	6.4	6.4	6.4	7.4	7.4	9.5	8.4	4.2	0.0	3.6	9.5	-2.1
18	-3.2	-2.1	-1.1	0.0	1.1	3.2	3.2	5.3	3.2	1.1	1.1	-1.1	0.0	0.0	-1.1	0.0	-2.2	-1.1	7.5	12.7	9.5	6.3	5.3	6.3	2.2	12.7	-3.2
19	6.3	8.4	9.4	7.3	7.3	6.3	5.2	6.2	6.3	5.3	4.3	2.2	2.2	4.3	20.4	13.9	11.8	11.7	11.7	10.6	8.5	15.9	6.3	8.5	8.3	20.4	2.2
20	7.4	4.2	3.1	5.2	5.2	2.1	3.1	5.2	4.2	4.2	5.3	6.4	5.4	6.4	9.6	10.7	8.6	16.0	13.8	14.8	17.9	13.6	15.7	13.6	8.4	17.9	2.1
21	12.5	12.6	10.5	3.1	1.0	2.1	4.2	5.2	3.1	2.1	8.4	8.5	2.1	2.1	0.0	-1.1	0.0	2.1	0.0	-2.1	-2.1	1.1	6.4	3.2	3.5	12.6	-2.1
22	-2.1	1.1	1.1	-1.1	-2.1	-4.2	-2.1	5.3	6.4	3.2	4.3	2.1	0.0	1.1	-1.1	0.0	3.3	2.2	1.1	0.0	-2.2	-2.2	-1.1	0.0	0.5	6.4	-4.2
23	1.1	0.0	1.1	3.2	2.2	2.1	-2.1	-3.2	1.1	0.0	0.0	3.3	5.5	2.2	-2.2	1.1	4.4	18.5	21.6	8.6	8.6	10.7	10.7	8.5	4.5	21.6	-3.2
24	10.6	9.6	3.2	2.1	4.2	4.2	8.4	12.6	8.4	8.5	11.7	17.0	12.8	12.8	12.8	10.7	17.1	18.1	28.6	16.9	12.6	13.6	11.5	8.4	11.5	28.6	2.1
25	6.3	8.4	8.4	5.2	5.2	6.3	7.3	4.2	9.5	10.5	8.5	7.5	7.5	--	--	--	--	--	15.9	11.6	10.5	17.8	7.4	32.5	10.0	32.5	4.2
26	8.4	4.2	1.0	0.0	-1.0	4.2	10.4	166.0	9.4	7.3	6.3	2.1	-2.1	1.1	3.2	1.1	1.1	2.1	2.1	5.3	5.2	2.1	3.1	0.0	10.1	166.0	-2.1
27	0.0	3.1	4.1	1.0	3.1	3.1	2.1	0.0	3.1	6.3	3.2	5.3	4.2	1.1	--	--	--	7.4	9.5	8.4	5.2	3.1	5.2	5.2	4.0	9.5	0.0
28	1.0	-1.0	1.0	4.2	5.2	6.2	6.2	8.3	9.4	4.2	2.1	4.3	5.4	7.5	11.9	14.0	14.0	16.1	21.3	9.5	10.6	20.1	13.7	13.7	8.7	21.3	-1.0
29	9.5	21.1	22.1	17.9	15.8	11.6	5.3	3.2	6.3	8.5	10.7	9.7	8.7	10.8	20.5	10.8	10.8	10.8	19.2	10.7	9.5	9.5	8.5	5.3	11.5	22.1	3.2
30	6.3	4.2	3.2	3.2	4.2	3.2	6.3	9.5	9.5	11.8	10.8	8.7	7.6	6.5	8.7	10.9	9.8	9.8	10.7	9.6	6.4	8.6	9.6	6.4	7.7	11.8	3.2
31	7.5	7.5	2.1	3.2	4.2	2.1	2.1	3.2	9.6	9.7	6.5	5.4	6.5	6.5	4.4	19.7	20.8	63.4	125.0	134.0	119.0	81.3	99.5	84.0	34.5	134.0	2.1
Avg	4.6	5.1	4.4	3.4	4.0	5.7	5.3	12.0	9.8	4.8	4.9	6.4	3.7	4.3	6.2	6.5	6.3	9.8	14.1	13.3	11.5	11.2	17.1	9.3	8.0	--	--
Max	12.5	21.1	22.1	17.9	24.5	58.6	30.9	166.0	118.0	12.7	11.7	49.8	12.8	12.8	20.5	19.7	20.8	63.4	125.0	134.0	119.0	81.3	184.0	84.0	--	184.0	--
Min	-3.2	-3.2	-4.2	-4.2	-2.1	-4.2	-2.1	-3.2	-1.1	-3.1	-2.1	-1.1	-2.1	0.0	-2.2	-1.1	-2.2	-2.1	-1.1	-2.1	-2.2	-2.2	-2.1	-2.1	--	--	-4.2

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Feb 2016

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	3.2	9.5	34.6	63.8	67.9	52.1	30.2	23.9	32.1	43.6	17.4	27.7	21.6	11.4	13.4	23.8	25.8	23.7	29.9	24.8	30.0	34.0	22.7	18.5	28.6	67.9	3.2
2	10.3	10.2	5.1	2.0	1.0	-1.0	0.0	0.0	1.0	2.0	2.1	1.0	2.1	6.2	5.2	4.1	4.1	4.1	6.2	8.2	5.1	4.1	3.1	2.0	3.7	10.3	-1.0
3	4.1	6.1	5.1	4.1	4.1	2.0	1.0	3.0	3.1	6.1	7.2	0.0	0.0	3.1	0.0	-2.1	-2.1	-2.1	0.0	2.1	2.0	6.2	6.2	2.1	2.6	7.2	-2.1
4	1.0	-1.0	3.1	2.1	-5.1	-5.1	1.0	23.4	6.1	7.2	5.2	0.0	-2.1	0.0	1.1	3.2	-1.1	-4.2	0.0	3.1	3.1	6.3	9.4	5.2	2.6	23.4	-5.1
5	2.1	3.1	6.3	306.0	87.6	16.7	21.9	36.5	47.0	107.0	12.6	13.6	10.5	4.2	2.1	0.0	-2.1	-1.1	-1.1	-1.1	0.0	1.1	4.2	5.2	28.4	306.0	-2.1
6	1.0	1.1	0.0	1.1	3.1	1.1	-1.1	0.0	0.0	0.0	2.1	4.3	4.3	4.3	2.2	1.1	0.0	-1.1	-1.1	1.1	3.2	3.2	2.1	2.1	1.4	4.3	-1.1
7	1.1	1.1	1.1	-1.1	-2.1	0.0	3.2	2.1	3.2	3.2	0.0	1.1	2.2	1.1	-1.1	2.2	3.3	1.1	1.1	3.2	5.4	4.3	4.3	3.2	1.8	5.4	-2.1
8	2.1	2.2	0.0	1.1	3.2	4.3	7.4	31.7	11.7	79.6	21.6	32.4	28.2	8.7	8.7	8.8	8.8	4.4	2.2	17.4	6.5	7.6	25.8	25.7	14.6	79.6	0.0
9	11.8	12.8	5.4	0.0	3.2	4.3	6.4	5.3	4.3	6.5	7.6	9.8	5.4	2.2	3.3	1.1	0.0	1.1	2.2	3.2	2.2	4.3	6.4	3.2	4.7	12.8	0.0
10	2.2	3.2	4.3	3.2	4.3	3.2	3.2	9.6	11.8	8.6	7.6	7.6	4.4	5.5	6.6	3.3	1.1	6.6	22.8	7.6	8.6	10.8	16.1	8.6	7.1	22.8	1.1
11	9.6	11.8	19.3	10.7	9.6	10.6	8.5	5.3	6.4	7.6	--	6.6	6.6	11.0	17.6	25.3	24.2	20.8	18.5	17.2	14.0	12.9	17.2	6.4	12.9	25.3	5.3
12	6.4	8.6	10.8	7.5	4.3	2.1	4.3	26.6	5.4	6.5	6.5	6.6	6.6	3.3	-2.2	0.0	1.1	0.0	6.6	10.9	7.6	4.4	1.1	3.2	5.8	26.6	-2.2
13	5.4	5.4	3.3	3.3	6.5	7.6	7.6	4.3	3.3	6.5	4.4	5.5	7.8	8.8	23.2	14.4	14.4	14.3	19.7	45.5	33.5	16.1	18.2	13.9	12.2	45.5	3.3
14	11.8	10.7	11.8	10.7	5.3	4.3	6.4	16.0	5.4	6.5	8.7	7.7	16.4	15.4	28.6	22.0	17.6	25.1	30.4	22.7	24.7	22.5	23.5	6.5	15.0	30.4	4.3
15	2.1	3.2	9.6	7.5	4.3	56.7	18.2	57.3	33.8	5.5	5.5	4.4	4.4	6.7	10.0	29.9	24.3	11.0	17.5	14.1	18.4	13.0	7.6	3.3	15.3	57.3	2.1
16	6.5	5.4	1.1	-1.1	0.0	-1.1	3.2	20.4	12.9	9.8	6.6	5.5	1.1	-1.1	3.4	10.0	19.0	13.3	11.0	11.0	7.7	3.3	7.7	19.6	7.3	20.4	-1.1
17	29.5	9.9	11.0	7.7	5.5	6.6	5.4	9.8	13.1	8.8	5.5	4.4	4.5	5.6	6.7	5.6	4.5	3.4	6.6	9.9	17.6	6.6	8.8	13.1	8.7	29.5	3.4
18	12.0	6.5	3.3	4.4	5.4	4.3	9.7	27.9	6.5	8.7	9.9	6.6	6.6	6.6	--	--	20.9	27.4	27.3	22.8	24.9	21.6	19.4	15.1	13.5	27.9	3.3
19	11.8	7.5	6.5	5.4	17.2	17.2	16.1	16.1	13.0	13.0	8.8	4.4	5.5	3.3	3.3	5.5	5.5	5.5	4.4	3.3	4.3	5.4	4.3	4.3	8.0	17.2	3.3
20	6.4	5.4	1.1	0.0	1.1	3.2	19.2	8.5	7.5	6.5	5.5	9.9	13.2	8.8	18.8	6.7	24.3	13.2	17.5	29.3	14.1	21.6	9.7	9.7	10.9	29.3	0.0
21	7.5	4.3	4.3	4.3	3.2	7.5	17.1	4.3	17.2	3.3	5.5	9.8	12.1	12.1	11.1	10.0	11.0	11.0	13.1	14.1	24.9	18.3	16.1	12.9	10.6	24.9	3.2
22	12.9	12.9	10.7	12.8	12.8	9.6	18.1	33.0	23.6	9.7	10.9	17.4	13.1	27.3	50.4	23.0	37.4	56.1	51.4	37.0	35.7	35.6	26.8	17.2	24.8	56.1	9.6
23	7.5	5.4	2.1	3.2	5.3	4.3	4.2	10.6	12.7	11.7	11.7	8.6	6.4	4.3	5.4	5.4	0.0	-1.1	2.1	2.1	3.2	6.4	65.7	3.2	7.9	65.7	-1.1
24	6.3	5.3	20.0	4.2	164.0	249.0	36.8	14.7	8.4	4.2	6.4	6.4	5.4	6.5	8.7	4.3	4.3	5.4	4.3	5.4	7.5	5.3	3.2	3.2	24.6	249.0	3.2
25	5.3	9.6	7.5	4.3	5.3	4.3	2.1	15.8	13.8	--	--	--	7.6	2.2	2.2	3.3	5.5	6.6	3.3	2.2	2.2	3.3	5.4	5.4	5.6	15.8	2.1
26	4.3	4.3	2.2	1.1	4.3	7.5	8.5	24.5	9.7	19.5	18.5	--	--	--	8.9	5.6	--	5.5	7.7	9.8	5.4	3.3	7.6	6.5	8.2	24.5	1.1
27	3.2	0.0	1.1	6.5	6.5	4.3	7.6	10.8	--	--	--	--	10.0	11.1	13.3	14.4	--	--	17.6	14.2	13.0	17.3	19.4	11.8	10.1	19.4	0.0
28	12.9	13.9	10.7	8.6	9.6	12.9	24.6	28.8	--	--	--	9.9	20.9	14.3	11.1	19.9	--	--	--	13.1	10.8	10.8	12.9	9.7	14.2	28.8	8.6
29	5.4	7.5	11.8	8.6	10.7	11.8	35.2	--	--	--	--	--	30.8	16.5	21.0	22.1	16.6	--	--	21.8	--	--	--	11.9	--	35.2	5.4
Avg	7.1	6.4	7.3	16.9	15.5	17.2	11.3	16.8	12.0	15.6	8.2	8.4	9.1	7.5	10.1	9.8	10.3	9.6	11.9	13.0	12.0	11.0	13.4	8.7	11.1	--	--
Max	29.5	13.9	34.6	306.0	164.0	249.0	36.8	57.3	47.0	107.0	21.6	32.4	30.8	27.3	50.4	29.9	37.4	56.1	51.4	45.5	35.7	35.6	65.7	25.7	--	306.0	--
Min	1.0	-1.0	0.0	-1.1	-5.1	-5.1	-1.1	0.0	0.0	0.0	0.0	0.0	-2.1	-1.1	-2.2	-2.1	-2.1	-4.2	-1.1	-1.1	0.0	1.1	1.1	2.0	--	--	-5.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Mar 2016

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	14.0	11.8	9.7	10.7	10.7	9.7	27.8	10.7	--	--	--	--	--	12.2	32.1	12.2	11.1	--	--	13.1	--	16.2	11.9	6.5	--	32.1	6.5
2	7.5	11.8	7.5	4.3	7.5	11.8	13.9	26.8	--	--	16.4	18.7	13.2	24.4	52.1	18.8	18.8	13.3	--	20.7	10.9	13.0	12.9	8.6	15.9	52.1	4.3
3	6.5	7.5	8.6	8.6	7.5	7.5	19.3	22.7	--	12.0	--	25.4	23.2	50.9	37.7	12.2	21.1	--	18.7	10.9	18.5	8.7	10.9	13.0	16.7	50.9	6.5
4	10.8	9.7	10.8	12.9	14.0	11.8	18.3	20.5	18.5	--	--	13.3	11.2	13.4	11.2	11.2	20.1	13.3	14.4	12.1	7.7	8.7	10.9	19.5	13.4	20.5	7.7
5	8.7	9.7	10.8	16.2	11.9	9.7	9.7	12.9	13.0	17.5	12.1	9.9	8.9	16.6	17.7	13.2	--	--	--	--	20.7	9.8	11.9	20.6	13.1	20.7	8.7
6	11.9	9.7	6.5	7.6	8.6	21.5	19.4	17.3	15.1	14.1	10.9	7.7	--	--	34.1	22.0	7.7	11.0	18.6	16.3	15.2	27.1	22.7	52.7	17.2	52.7	6.5
7	108.0	147.0	162.0	160.0	156.0	140.0	152.0	161.0	135.0	99.7	87.2	43.4	51.9	48.7	68.4	35.8	29.3	--	39.8	30.0	31.1	34.2	27.8	24.5	85.8	162.0	24.5
8	25.5	19.1	11.6	11.6	17.9	16.8	10.5	12.6	13.7	19.1	21.3	15.0	24.7	23.8	--	--	23.9	24.9	32.3	26.8	26.8	21.3	13.9	19.1	19.6	32.3	10.5
9	18.1	12.8	12.7	19.1	12.7	12.7	13.8	23.3	--	--	--	23.9	29.4	20.7	29.6	19.7	16.4	17.5	15.2	14.0	18.3	12.9	9.6	6.4	17.1	29.6	6.4
10	6.4	7.5	8.5	7.5	6.4	1.1	4.3	13.9	--	13.1	9.9	12.1	12.1	11.1	11.1	8.9	3.3	7.7	11.0	10.9	13.0	12.0	6.5	7.6	8.9	13.9	1.1
11	8.7	6.5	7.6	9.8	11.9	9.7	6.5	17.4	10.9	19.7	13.2	11.1	7.8	3.3	8.9	11.2	17.8	24.4	32.0	29.6	24.0	15.2	13.0	6.5	13.6	32.0	3.3
12	5.4	6.5	46.0	160.0	235.0	153.0	93.4	59.7	33.6	32.6	19.0	17.0	14.9	13.9	13.9	20.4	26.8	24.6	22.4	22.3	28.6	18.0	16.9	16.9	45.9	235.0	5.4
13	12.6	--	--	12.6	15.7	15.8	15.8	18.0	--	--	--	14.0	14.1	18.4	15.2	16.3	17.4	16.3	11.9	20.5	19.4	15.0	18.2	--	16.0	20.5	11.9
14	--	--	--	--	--	--	--	--	--	--	31.3	22.7	33.7	29.5	20.8	28.5	26.3	18.6	23.9	20.6	21.6	16.1	19.3	20.4	--	33.7	16.1
15	18.2	24.5	18.2	11.7	10.6	8.5	10.6	25.7	--	13.0	13.1	13.1	13.2	17.7	19.9	12.2	13.3	12.2	20.8	19.6	17.4	18.4	17.3	12.9	15.7	25.7	8.5
16	16.1	15.1	12.9	17.2	14.0	14.0	15.0	18.3	--	18.6	15.4	13.2	30.0	16.7	27.9	16.7	22.3	17.8	23.2	11.0	12.0	17.4	13.0	14.1	17.0	30.0	11.0
17	15.1	17.3	12.9	9.7	20.5	9.7	29.1	34.5	31.4	19.7	22.1	10.0	20.0	34.6	39.0	21.2	21.2	18.9	--	28.6	--	--	13.0	18.4	21.3	39.0	9.7
18	15.2	--	20.5	17.3	20.4	18.3	23.7	45.2	--	25.2	16.5	40.9	17.8	18.9	26.7	17.8	20.0	17.8	16.6	--	17.5	--	--	11.9	21.5	45.2	11.9
19	11.9	16.2	18.4	12.9	22.5	20.4	17.2	15.1	--	--	29.7	23.2	13.3	12.2	14.5	20.1	16.7	16.7	18.8	14.3	13.1	10.9	10.9	12.0	16.4	29.7	10.9
20	11.9	9.8	20.5	18.4	10.8	9.7	17.3	18.4	14.1	39.2	--	--	--	16.6	18.9	17.9	8.9	10.0	12.2	12.1	16.4	24.0	19.7	19.7	16.5	39.2	8.9
21	16.3	12.0	22.9	16.3	17.4	11.9	19.5	17.4	19.6	24.1	21.0	14.4	--	--	33.6	60.5	36.9	19.0	17.8	53.0	38.5	19.7	17.5	17.5	23.9	60.5	11.9
22	14.2	26.1	19.5	16.3	15.1	8.7	42.0	68.2	28.4	32.9	50.5	50.6	216.0	776.0	956.0	908.0	--	409.0	175.0	73.8	100.0	70.0	66.6	57.8	182.0	956.0	8.7
23	59.8	56.6	62.9	71.1	58.2	54.8	42.1	42.2	15.9	20.2	10.7	10.8	44.2	17.3	7.6	26.0	7.6	20.5	14.0	13.9	22.4	7.4	8.5	9.5	29.3	71.1	7.4
24	10.6	9.5	7.4	5.3	5.3	8.5	12.7	25.5	20.3	21.5	13.0	9.8	6.6	25.2	27.5	17.6	39.5	13.1	14.2	18.4	8.6	10.8	11.8	17.1	15.0	39.5	5.3
25	11.8	11.8	8.5	6.4	9.6	8.5	19.2	25.7	7.6	8.7	18.6	50.5	22.0	--	--	45.5	--	--	18.7	14.3	25.2	10.9	8.7	5.4	16.9	50.5	5.4
26	4.3	7.6	8.6	8.6	17.2	9.7	18.3	11.9	13.1	13.1	11.0	7.7	11.0	--	--	190.0	--	--	16.5	19.7	16.3	14.1	30.3	17.3	22.3	190.0	4.3
27	14.0	12.9	12.9	12.9	8.6	7.5	9.6	12.9	10.8	10.9	--	14.3	9.9	8.9	11.1	23.3	19.9	8.8	9.9	8.8	8.7	23.9	19.5	10.8	12.6	23.9	7.5
28	16.2	8.6	10.8	10.8	19.4	28.0	16.2	18.4	16.4	12.0	26.4	33.2	18.8	80.0	76.7	103.0	83.4	55.4	67.2	47.2	42.6	42.5	44.5	57.3	39.0	103.0	8.6
29	28.1	13.0	12.9	11.8	17.2	21.4	19.2	21.3	27.7	63.6	75.9	45.1	37.8	38.1	34.1	48.2	37.6	27.9	40.8	23.5	19.2	17.0	12.8	18.1	29.7	75.9	11.8
30	19.1	14.8	15.9	27.5	23.2	30.4	32.5	26.3	27.4	28.6	18.1	19.1	16.0	20.3	40.8	16.1	12.9	14.0	15.0	17.1	15.9	12.7	15.8	10.5	20.4	40.8	10.5
31	13.7	15.8	12.6	10.5	18.9	9.4	10.5	20.0	14.9	13.9	21.4	25.7	--	16.1	25.8	8.6	18.4	20.5	17.2	12.8	22.4	21.3	15.9	15.9	16.6	25.8	8.6
Avg	18.0	19.0	20.7	24.2	27.5	23.3	25.3	28.8	24.4	24.7	24.4	21.2	27.8	51.3	61.2	59.4	22.2	34.1	27.3	21.9	22.5	18.9	17.7	18.3	27.6	--	--
Max	108.0	147.0	162.0	160.0	235.0	153.0	152.0	161.0	135.0	99.7	87.2	50.6	216.0	776.0	956.0	908.0	83.4	409.0	175.0	73.8	100.0	70.0	66.6	57.8	--	956.0	--
Min	4.3	6.5	6.5	4.3	5.3	1.1	4.3	10.7	7.6	8.7	9.9	7.7	6.6	3.3	7.6	8.6	3.3	7.7	9.9	8.8	7.7	7.4	6.5	5.4	--	--	1.1

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Jan 2016

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	7.0	5.0	4.0	5.0	5.0	6.0	7.0	6.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	4.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.0	1.0	2.0	3.0	5.0	2.0	5.0	5.0	3.0	-1.0	--	5.0	-1.0
6	-2.0	1.0	0.0	-1.0	1.0	4.0	5.0	4.0	2.0	3.0	3.0	6.0	7.0	3.0	2.0	4.0	4.0	1.0	2.0	4.0	4.0	2.0	2.0	4.0	2.7	7.0	-2.0
7	3.0	3.0	4.0	1.0	-1.0	0.0	1.0	6.0	8.0	4.0	7.0	8.0	4.0	0.0	-1.0	3.0	3.0	6.0	5.0	3.0	2.0	2.0	3.0	3.0	3.2	8.0	-1.0
8	2.0	3.0	3.0	3.0	4.0	6.0	7.0	5.0	4.0	3.0	6.0	6.0	6.0	7.0	6.0	6.0	7.0	7.0	7.0	6.0	6.0	8.0	9.0	8.0	5.6	9.0	2.0
9	5.0	4.0	9.0	7.0	5.0	4.0	4.0	7.0	6.0	5.0	5.0	4.0	3.0	2.0	3.0	3.0	3.0	3.0	4.0	5.0	3.0	4.0	6.0	5.0	4.5	9.0	2.0
10	5.0	6.0	5.0	2.0	4.0	8.0	5.0	5.0	6.0	7.0	7.0	5.0	4.0	4.0	3.0	3.0	4.0	5.0	5.0	5.0	6.0	5.0	4.0	3.0	4.8	8.0	2.0
11	5.0	5.0	7.0	8.0	6.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	2.0	2.0	2.0	--	6.0	8.0	5.0	5.0	6.0	7.0	6.0	5.2	8.0	2.0
12	4.0	5.0	2.0	0.0	3.0	5.0	1.0	1.0	0.0	-1.0	-2.0	-2.0	-3.0	-2.0	2.0	2.0	2.0	5.0	6.0	6.0	6.0	5.0	4.0	4.0	2.2	6.0	-3.0
13	2.0	2.0	4.0	3.0	3.0	4.0	1.0	2.0	5.0	4.0	-2.0	-3.0	1.0	5.0	4.0	0.0	4.0	6.0	6.0	7.0	7.0	5.0	5.0	4.0	3.3	7.0	-3.0
14	2.0	5.0	5.0	3.0	4.0	5.0	7.0	8.0	4.0	0.0	-3.0	-3.0	1.0	5.0	5.0	6.0	9.0	10.0	7.0	8.0	9.0	6.0	6.0	6.0	4.8	10.0	-3.0
15	5.0	4.0	5.0	6.0	7.0	9.0	11.0	11.0	13.0	8.0	2.0	4.0	4.0	2.0	4.0	6.0	6.0	6.0	9.0	12.0	12.0	8.0	7.0	9.0	7.1	13.0	2.0
16	7.0	5.0	4.0	2.0	1.0	6.0	8.0	5.0	3.0	2.0	0.0	-2.0	-2.0	3.0	5.0	3.0	6.0	7.0	6.0	5.0	5.0	6.0	8.0	10.0	4.3	10.0	-2.0
17	6.0	2.0	2.0	6.0	6.0	5.0	5.0	3.0	2.0	0.0	-4.0	-5.0	-2.0	1.0	2.0	5.0	6.0	6.0	6.0	7.0	6.0	3.0	0.0	-1.0	2.8	7.0	-5.0
18	0.0	1.0	3.0	4.0	3.0	6.0	5.0	3.0	1.0	0.0	-3.0	-5.0	-4.0	-2.0	-1.0	1.0	3.0	5.0	5.0	6.0	6.0	4.0	3.0	2.0	1.9	6.0	-5.0
19	4.0	4.0	5.0	7.0	7.0	7.0	4.0	3.0	4.0	1.0	2.0	1.0	-1.0	2.0	5.0	9.0	9.0	8.0	10.0	6.0	4.0	6.0	8.0	9.0	5.2	10.0	-1.0
20	6.0	3.0	3.0	3.0	5.0	6.0	6.0	4.0	2.0	1.0	-3.0	-4.0	-3.0	1.0	5.0	7.0	8.0	7.0	10.0	16.0	13.0	13.0	10.0	9.0	5.3	16.0	-4.0
21	8.0	4.0	3.0	4.0	5.0	3.0	5.0	4.0	0.0	0.0	-3.0	-2.0	1.0	-1.0	-2.0	0.0	0.0	1.0	4.0	2.0	0.0	2.0	4.0	2.0	1.8	8.0	-3.0
22	-1.0	1.0	3.0	1.0	0.0	3.0	4.0	5.0	5.0	4.0	5.0	4.0	4.0	4.0	2.0	0.0	0.0	1.0	2.0	1.0	1.0	2.0	3.0	2.0	2.3	5.0	-1.0
23	1.0	0.0	0.0	3.0	4.0	4.0	3.0	3.0	4.0	3.0	3.0	1.0	-1.0	0.0	-1.0	-1.0	2.0	2.0	1.0	1.0	4.0	7.0	6.0	2.0	2.1	7.0	-1.0
24	1.0	4.0	6.0	6.0	5.0	4.0	6.0	7.0	7.0	4.0	6.0	8.0	7.0	4.0	4.0	9.0	8.0	6.0	7.0	7.0	7.0	7.0	9.0	9.0	6.2	9.0	1.0
25	8.0	6.0	5.0	5.0	4.0	2.0	4.0	6.0	6.0	6.0	5.0	4.0	0.0	2.0	3.0	--	--	--	-1.0	0.0	2.0	3.0	4.0	3.0	3.7	8.0	-1.0
26	2.0	2.0	3.0	2.0	0.0	3.0	4.0	6.0	5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	0.0
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	8.0	6.0	0.0	1.0	3.0	4.0	3.0	3.0	--	8.0	0.0
28	4.0	4.0	3.0	4.0	3.0	2.0	4.0	4.0	3.0	5.0	3.0	-1.0	1.0	2.0	3.0	1.0	1.0	5.0	6.0	5.0	4.0	4.0	5.0	5.0	3.3	6.0	-1.0
29	4.0	5.0	6.0	4.0	4.0	4.0	4.0	4.0	6.0	7.0	4.0	1.0	2.0	6.0	5.0	4.0	5.0	4.0	5.0	4.0	1.0	4.0	7.0	4.0	4.3	7.0	1.0
30	5.0	6.0	4.0	3.0	1.0	4.0	6.0	5.0	6.0	4.0	2.0	3.0	3.0	2.0	0.0	3.0	4.0	4.0	4.0	3.0	5.0	4.0	4.0	5.0	3.8	6.0	0.0
31	5.0	4.0	4.0	5.0	6.0	6.0	5.0	4.0	4.0	3.0	1.0	1.0	0.0	0.0	2.0	3.0	4.0	4.0	7.0	10.0	8.0	7.0	8.0	8.0	4.5	10.0	0.0
Avg	3.8	3.6	3.9	3.7	3.7	4.7	4.9	4.9	4.5	3.3	1.9	1.4	1.5	2.2	2.6	3.4	4.5	5.0	5.2	5.3	5.2	5.1	5.3	4.7	4.0	--	--
Max	8.0	6.0	9.0	8.0	7.0	9.0	11.0	11.0	13.0	8.0	7.0	8.0	7.0	7.0	6.0	9.0	9.0	10.0	10.0	16.0	13.0	13.0	10.0	10.0	--	16.0	--
Min	-2.0	0.0	0.0	-1.0	-1.0	0.0	1.0	1.0	0.0	-1.0	-4.0	-5.0	-4.0	-2.0	-2.0	-1.0	0.0	1.0	-1.0	0.0	0.0	2.0	0.0	-1.0	--	--	-5.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Feb 2016

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	6.0	5.0	5.0	7.0	10.0	8.0	6.0	6.0	7.0	8.0	10.0	12.0	13.0	9.0	7.0	7.0	9.0	8.0	6.0	5.0	6.0	8.0	7.0	7.0	7.6	13.0	5.0
2	5.0	4.0	6.0	6.0	4.0	6.0	7.0	7.0	6.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	7.0	7.0	7.0	6.0	6.0	5.0	7.0	3.0
3	6.0	6.0	6.0	5.0	5.0	3.0	3.0	6.0	7.0	5.0	3.0	5.0	5.0	2.0	2.0	2.0	4.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.6	7.0	2.0
4	2.0	4.0	5.0	5.0	5.0	4.0	4.0	6.0	5.0	4.0	4.0	2.0	2.0	4.0	5.0	3.0	0.0	2.0	5.0	6.0	5.0	4.0	4.0	4.0	3.9	6.0	0.0
5	4.0	3.0	0.0	3.0	7.0	7.0	5.0	2.0	3.0	5.0	5.0	4.0	3.0	3.0	3.0	2.0	2.0	4.0	4.0	4.0	6.0	6.0	4.0	4.0	3.9	7.0	0.0
6	3.0	3.0	1.0	-1.0	1.0	4.0	7.0	5.0	1.0	1.0	3.0	3.0	1.0	0.0	2.0	1.0	-1.0	1.0	3.0	5.0	5.0	6.0	3.0	-1.0	2.3	7.0	-1.0
7	0.0	2.0	1.0	0.0	2.0	3.0	1.0	2.0	3.0	3.0	--	--	--	1.0	2.0	1.0	-2.0	0.0	2.0	2.0	0.0	1.0	3.0	1.0	1.3	3.0	-2.0
8	0.0	1.0	3.0	3.0	3.0	3.0	4.0	5.0	4.0	4.0	4.0	6.0	6.0	4.0	0.0	1.0	1.0	0.0	4.0	7.0	4.0	2.0	5.0	4.0	3.3	7.0	0.0
9	3.0	2.0	3.0	4.0	5.0	4.0	4.0	5.0	2.0	1.0	2.0	--	3.0	0.0	1.0	1.0	0.0	0.0	1.0	2.0	2.0	3.0	5.0	2.0	2.4	5.0	0.0
10	1.0	4.0	3.0	1.0	2.0	5.0	5.0	4.0	--	--	--	--	--	--	0.0	-2.0	0.0	2.0	4.0	1.0	2.0	4.0	4.0	3.0	2.4	5.0	-2.0
11	4.0	4.0	2.0	5.0	6.0	3.0	2.0	3.0	5.0	--	--	3.0	1.0	2.0	1.0	-1.0	1.0	3.0	3.0	7.0	8.0	5.0	6.0	5.0	3.6	8.0	-1.0
12	3.0	4.0	4.0	4.0	2.0	1.0	2.0	3.0	--	--	--	--	4.0	-1.0	-3.0	-2.0	-1.0	-1.0	2.0	5.0	6.0	4.0	1.0	3.0	2.0	6.0	-3.0
13	4.0	4.0	2.0	0.0	1.0	3.0	5.0	5.0	5.0	5.0	--	2.0	0.0	0.0	2.0	5.0	6.0	4.0	2.0	5.0	6.0	7.0	8.0	6.0	3.8	8.0	0.0
14	5.0	6.0	6.0	4.0	4.0	6.0	7.0	6.0	--	4.0	3.0	2.0	3.0	6.0	6.0	4.0	5.0	6.0	6.0	6.0	--	--	--	--	5.0	7.0	2.0
15	--	--	--	--	--	--	--	--	--	--	2.0	--	1.0	0.0	-1.0	-1.0	1.0	2.0	2.0	1.0	0.0	3.0	6.0	5.0	--	6.0	-1.0
16	1.0	0.0	2.0	3.0	4.0	2.0	-1.0	0.0	2.0	--	1.0	0.0	-2.0	-4.0	-1.0	1.0	1.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0	1.1	4.0	-4.0
17	4.0	6.0	5.0	4.0	5.0	3.0	0.0	-1.0	--	--	--	--	0.0	-1.0	-2.0	0.0	0.0	3.0	3.0	1.0	1.0	2.0	5.0	6.0	2.2	6.0	-2.0
18	5.0	3.0	2.0	3.0	2.0	3.0	5.0	5.0	5.0	3.0	2.0	2.0	--	-2.0	--	--	-2.0	1.0	4.0	4.0	3.0	6.0	6.0	4.0	3.1	6.0	-2.0
19	3.0	2.0	2.0	1.0	1.0	5.0	4.0	3.0	6.0	6.0	2.0	1.0	2.0	1.0	2.0	1.0	1.0	4.0	3.0	2.0	2.0	1.0	2.0	3.0	2.5	6.0	1.0
20	5.0	4.0	2.0	3.0	4.0	2.0	-1.0	0.0	1.0	-2.0	-1.0	1.0	1.0	0.0	0.0	1.0	4.0	5.0	0.0	4.0	9.0	7.0	6.0	6.0	2.5	9.0	-2.0
21	4.0	4.0	3.0	5.0	5.0	3.0	2.0	4.0	5.0	2.0	2.0	2.0	2.0	3.0	-2.0	-1.0	3.0	0.0	0.0	4.0	6.0	7.0	6.0	7.0	3.2	7.0	-2.0
22	8.0	8.0	6.0	7.0	7.0	6.0	7.0	8.0	8.0	5.0	4.0	3.0	5.0	6.0	4.0	3.0	3.0	4.0	6.0	6.0	5.0	7.0	6.0	4.0	5.7	8.0	3.0
23	3.0	3.0	4.0	2.0	1.0	2.0	5.0	6.0	4.0	9.0	6.0	-1.0	2.0	4.0	3.0	3.0	2.0	1.0	2.0	6.0	6.0	4.0	6.0	9.0	3.8	9.0	-1.0
24	6.0	3.0	4.0	3.0	6.0	16.0	8.0	5.0	4.0	2.0	0.0	2.0	3.0	0.0	-2.0	-1.0	2.0	4.0	4.0	4.0	1.0	3.0	6.0	4.0	3.6	16.0	-2.0
25	4.0	5.0	3.0	4.0	4.0	3.0	4.0	4.0	5.0	4.0	2.0	1.0	0.0	-2.0	-3.0	-2.0	0.0	1.0	2.0	1.0	1.0	1.0	0.0	1.0	1.8	5.0	-3.0
26	2.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	0.0	-1.0	0.0	0.0	-1.0	0.0	2.0	2.0	1.0	1.9	4.0	-1.0
27	0.0	1.0	1.0	2.0	4.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	5.0	2.0	-1.0	0.0	1.0	3.0	4.0	4.0	5.0	6.0	5.0	5.0	2.9	6.0	-1.0
28	5.0	6.0	6.0	4.0	5.0	7.0	6.0	5.0	8.0	8.0	5.0	4.0	3.0	2.0	4.0	3.0	-1.0	2.0	6.0	2.0	0.0	4.0	6.0	4.0	4.3	8.0	-1.0
29	4.0	3.0	5.0	6.0	5.0	4.0	5.0	--	6.0	4.0	5.0	6.0	6.0	5.0	3.0	3.0	2.0	-5.0	-2.0	6.0	4.0	5.0	4.0	3.0	3.8	6.0	-5.0
Avg	3.6	3.6	3.4	3.4	4.0	4.4	4.0	4.1	4.5	4.0	3.2	3.0	2.9	1.8	1.3	1.3	1.5	2.3	3.1	3.9	3.9	4.4	4.6	4.0	3.3	--	--
Max	8.0	8.0	6.0	7.0	10.0	16.0	8.0	8.0	8.0	9.0	10.0	12.0	13.0	9.0	7.0	7.0	9.0	8.0	6.0	7.0	9.0	8.0	8.0	9.0	--	16.0	--
Min	0.0	0.0	0.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	-2.0	-1.0	-1.0	-2.0	-4.0	-3.0	-2.0	-2.0	-5.0	-2.0	-1.0	0.0	1.0	0.0	-1.0	--	--	-5.0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant

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

Month: Mar 2016

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	3.0	5.0	6.0	6.0	6.0	5.0	7.0	7.0	5.0	7.0	8.0	5.0	1.0	2.0	4.0	4.0	6.0	6.0	6.0	7.0	8.0	8.0	7.0	5.5	8.0	1.0
2	5.0	5.0	4.0	5.0	5.0	3.0	4.0	7.0	9.0	5.0	4.0	5.0	6.0	5.0	6.0	6.0	3.0	5.0	6.0	6.0	7.0	6.0	5.0	4.0	5.3	9.0	3.0
3	3.0	3.0	6.0	6.0	5.0	5.0	6.0	6.0	6.0	5.0	--	6.0	9.0	7.0	5.0	5.0	4.0	6.0	9.0	5.0	6.0	8.0	6.0	6.0	5.8	9.0	3.0
4	6.0	5.0	6.0	6.0	5.0	6.0	9.0	8.0	7.0	8.0	7.0	4.0	3.0	5.0	4.0	5.0	7.0	7.0	6.0	6.0	6.0	8.0	9.0	7.0	6.3	9.0	3.0
5	4.0	6.0	5.0	4.0	6.0	7.0	9.0	7.0	5.0	6.0	7.0	5.0	3.0	3.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	5.0	7.0	6.0	5.3	9.0	3.0
6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.0	7.0	6.0	4.0	5.0	4.0	1.0	4.0	4.0	2.0	1.0	4.0	7.0	7.0	7.0	6.0	9.0	5.0	9.0	1.0
7	10.0	22.0	20.0	23.0	21.0	27.0	24.0	26.0	21.0	17.0	11.0	10.0	11.0	10.0	11.0	10.0	8.0	8.0	5.0	7.0	9.0	8.0	9.0	8.0	14.0	27.0	5.0
8	8.0	8.0	8.0	5.0	4.0	6.0	7.0	7.0	6.0	5.0	6.0	8.0	6.0	6.0	8.0	8.0	6.0	7.0	11.0	10.0	7.0	5.0	6.0	7.0	6.9	11.0	4.0
9	6.0	6.0	7.0	6.0	7.0	7.0	8.0	8.0	4.0	5.0	9.0	6.0	6.0	7.0	5.0	3.0	3.0	5.0	6.0	4.0	3.0	2.0	4.0	5.0	5.5	9.0	2.0
10	5.0	6.0	4.0	3.0	2.0	3.0	4.0	6.0	6.0	5.0	7.0	6.0	3.0	0.0	-1.0	2.0	2.0	1.0	2.0	5.0	6.0	6.0	6.0	6.0	4.0	7.0	-1.0
11	6.0	5.0	3.0	3.0	4.0	5.0	4.0	4.0	6.0	4.0	3.0	4.0	3.0	3.0	4.0	5.0	6.0	6.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0	8.0	3.0
12	4.0	3.0	5.0	22.0	25.0	14.0	14.0	12.0	8.0	5.0	3.0	4.0	3.0	2.0	3.0	4.0	7.0	6.0	5.0	6.0	8.0	7.0	5.0	6.0	7.5	25.0	2.0
13	6.0	--	6.0	6.0	8.0	6.0	6.0	7.0	15.0	9.0	8.0	5.0	5.0	7.0	7.0	10.0	10.0	6.0	5.0	6.0	10.0	10.0	7.0	5.0	7.4	15.0	5.0
14	6.0	6.0	7.0	7.0	6.0	8.0	8.0	11.0	11.0	9.0	8.0	8.0	6.0	5.0	5.0	7.0	8.0	8.0	8.0	7.0	7.0	9.0	9.0	7.0	7.5	11.0	5.0
15	8.0	9.0	6.0	8.0	7.0	6.0	5.0	4.0	6.0	6.0	3.0	4.0	6.0	3.0	2.0	5.0	6.0	6.0	10.0	10.0	9.0	6.0	4.0	7.0	6.1	10.0	2.0
16	7.0	4.0	5.0	7.0	8.0	8.0	6.0	6.0	7.0	4.0	5.0	6.0	3.0	4.0	6.0	6.0	6.0	5.0	6.0	7.0	6.0	7.0	8.0	10.0	6.1	10.0	3.0
17	10.0	8.0	8.0	7.0	8.0	7.0	5.0	9.0	10.0	8.0	8.0	6.0	7.0	7.0	8.0	10.0	8.0	8.0	10.0	7.0	6.0	8.0	8.0	8.0	7.9	10.0	5.0
18	7.0	6.0	7.0	8.0	8.0	11.0	11.0	9.0	8.0	6.0	8.0	6.0	5.0	6.0	7.0	7.0	6.0	7.0	7.0	6.0	6.0	6.0	8.0	10.0	7.3	11.0	5.0
19	9.0	9.0	9.0	8.0	9.0	9.0	6.0	6.0	7.0	7.0	5.0	5.0	5.0	15.0	17.0	10.0	11.0	10.0	8.0	8.0	6.0	9.0	10.0	7.0	8.5	17.0	5.0
20	10.0	11.0	6.0	5.0	5.0	5.0	5.0	7.0	7.0	5.0	6.0	8.0	9.0	11.0	11.0	8.0	1.0	3.0	8.0	7.0	7.0	9.0	8.0	6.0	7.0	11.0	1.0
21	6.0	6.0	6.0	5.0	16.0	5.0	6.0	9.0	6.0	4.0	7.0	5.0	--	--	25.0	32.0	26.0	19.0	7.0	8.0	10.0	18.0	8.0	8.0	11.0	32.0	4.0
22	9.0	7.0	6.0	7.0	2.0	-1.0	4.0	6.0	6.0	6.0	6.0	7.0	10.0	35.0	55.0	47.0	144.0	23.0	17.0	15.0	25.0	14.0	16.0	12.0	19.9	144.0	-1.0
23	12.0	13.0	14.0	14.0	13.0	11.0	10.0	7.0	3.0	5.0	6.0	7.0	9.0	7.0	4.0	4.0	6.0	7.0	8.0	8.0	7.0	8.0	12.0	12.0	8.6	14.0	3.0
24	6.0	2.0	4.0	5.0	4.0	4.0	4.0	4.0	8.0	19.0	3.0	7.0	8.0	5.0	3.0	4.0	4.0	2.0	4.0	4.0	6.0	7.0	5.0	4.0	5.3	19.0	2.0
25	6.0	5.0	3.0	4.0	6.0	5.0	5.0	5.0	3.0	4.0	4.0	5.0	6.0	5.0	4.0	4.0	5.0	6.0	6.0	4.0	4.0	5.0	6.0	6.0	4.8	6.0	3.0
26	6.0	3.0	4.0	5.0	5.0	7.0	6.0	8.0	32.0	12.0	12.0	10.0	9.0	8.0	6.0	9.0	13.0	10.0	7.0	9.0	9.0	7.0	6.0	6.0	8.7	32.0	3.0
27	7.0	5.0	4.0	5.0	5.0	5.0	6.0	6.0	4.0	3.0	6.0	6.0	5.0	4.0	4.0	3.0	6.0	6.0	5.0	4.0	3.0	5.0	5.0	4.0	4.8	7.0	3.0
28	5.0	5.0	4.0	7.0	7.0	7.0	8.0	8.0	4.0	1.0	16.0	14.0	8.0	3.0	5.0	10.0	10.0	10.0	11.0	13.0	13.0	13.0	14.0	13.0	8.7	16.0	1.0
29	9.0	8.0	7.0	5.0	15.0	8.0	8.0	6.0	7.0	10.0	19.0	13.0	10.0	7.0	9.0	12.0	12.0	10.0	9.0	6.0	6.0	5.0	6.0	6.0	8.9	19.0	5.0
30	5.0	7.0	6.0	7.0	8.0	6.0	7.0	9.0	12.0	12.0	9.0	8.0	8.0	5.0	4.0	6.0	6.0	10.0	9.0	8.0	6.0	5.0	8.0	8.0	7.5	12.0	4.0
31	7.0	7.0	6.0	7.0	9.0	9.0	9.0	7.0	8.0	8.0	6.0	7.0	7.0	6.0	4.0	6.0	9.0	8.0	7.0	9.0	10.0	9.0	8.0	7.0	7.5	10.0	4.0
Avg	6.6	6.6	6.3	7.1	7.9	7.1	7.2	7.7	8.3	6.9	7.1	6.7	6.3	6.4	7.8	8.4	11.4	7.3	7.2	7.1	7.6	7.7	7.5	7.2	7.4	--	--
Max	12.0	22.0	20.0	23.0	25.0	27.0	24.0	26.0	32.0	19.0	19.0	14.0	11.0	35.0	55.0	47.0	144.0	23.0	17.0	15.0	25.0	18.0	16.0	13.0	--	144.0	--
Min	2.0	2.0	3.0	3.0	2.0	-1.0	4.0	4.0	3.0	1.0	3.0	4.0	3.0	0.0	-1.0	2.0	1.0	1.0	2.0	4.0	3.0	2.0	4.0	4.0	--	--	-1.0

-- Indicates Invalid Data

Appendix C: NO_2, SO_2, O_3 Data – East Plant – Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Jan 2016

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	-1.3	-1.5	-1.1	-0.7	-0.6	-0.9	-1.0	-1.1	-1.0	-1.0	-0.9	-0.8	-0.9	-1.0	-1.1	-1.2	-1.1	-0.9	-1.0	-1.0	-1.1	-1.1	-1.2	-1.2	-1.0	-0.6	-1.5
2	-1.2	-1.2	-1.3	-1.4	-1.3	-1.4	-1.4	-1.3	-1.3	-1.2	-1.2	-1.1	-1.1	-1.2	-1.2	-1.2	-1.4	-1.3	-1.3	-1.4	-1.4	-1.4	-1.3	-1.4	-1.3	-1.1	-1.4
3	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5	-1.4	-1.4	-1.2	-1.1	-1.1	-1.0	-1.1	-1.1	-1.3	9.5	-1.1	-1.3	-1.4	-1.4	-1.5	-1.5	-1.6	-1.6	-0.9	9.5	-1.6
4	-1.6	-1.5	-1.5	-1.4	-1.1	-0.7	-0.5	-0.2	-0.1	-0.4	-0.5	-1.5	-1.3	-0.8	-0.6	-1.1	-0.9	-1.4	-1.5	-1.5	-1.4	-1.5	-1.6	-1.7	-1.1	-0.1	-1.7
5	-1.6	-1.6	-1.7	-1.6	-1.1	-0.6	-1.0	--	--	--	--	0.3	0.2	0.5	1.0	0.7	0.4	0.3	0.2	1.1	0.4	-0.1	-0.4	-0.4	-0.3	1.1	-1.7
6	-0.4	-0.4	-0.3	-0.3	-0.4	-0.3	-0.3	-0.4	-0.4	-0.2	0.0	-0.1	0.1	0.2	0.0	0.0	0.1	0.2	0.1	0.0	0.1	0.5	-0.1	0.1	-0.1	0.5	-0.4
7	0.1	-0.1	-0.3	-0.2	-0.2	-0.1	0.1	0.2	0.1	0.3	0.5	-0.2	-0.1	-0.3	1.7	-0.2	1.0	0.5	0.4	0.2	1.1	-0.1	-0.3	-0.3	0.2	1.7	-0.3
8	-0.2	-0.2	-0.1	0.1	0.3	0.6	0.7	0.4	0.6	0.6	0.4	0.7	0.8	0.9	1.0	0.7	1.3	1.0	1.0	0.9	0.9	1.0	1.4	2.4	0.7	2.4	-0.2
9	4.9	0.6	0.6	0.7	0.6	0.7	2.6	4.9	3.4	2.3	2.8	1.2	1.1	0.7	0.5	0.4	0.5	0.6	0.8	1.4	2.6	1.5	1.9	0.6	1.6	4.9	0.4
10	0.5	0.2	0.5	1.6	0.8	2.1	2.1	1.3	1.7	1.1	1.5	3.6	2.7	1.5	1.9	1.5	1.0	1.0	1.4	1.2	1.1	3.1	1.5	0.6	1.5	3.6	0.2
11	0.3	1.6	5.4	-0.2	-0.2	0.0	0.3	0.8	0.9	1.2	1.1	0.7	0.4	0.8	0.8	0.9	0.8	0.7	0.4	2.1	0.8	2.4	1.3	1.2	1.0	5.4	-0.2
12	1.4	1.1	1.6	0.9	0.4	0.3	1.1	1.4	0.7	0.4	1.4	1.6	0.5	0.3	0.2	0.4	0.3	0.2	-0.1	0.2	0.5	0.6	0.2	0.7	0.7	1.6	-0.1
13	1.4	1.6	0.5	0.2	0.3	0.4	0.7	1.3	1.0	0.8	1.2	2.6	1.4	1.4	1.2	1.7	3.0	2.9	3.1	3.1	2.6	2.8	1.3	0.9	1.6	3.1	0.2
14	0.7	1.5	1.0	1.9	2.2	0.8	0.7	1.1	1.7	5.6	3.4	1.7	3.6	3.1	2.5	1.3	1.0	1.3	2.0	3.6	2.4	3.2	1.8	1.0	2.0	5.6	0.7
15	1.2	1.8	2.1	3.2	2.7	2.7	5.4	--	--	--	-0.7	-0.7	-0.9	-1.1	-1.1	-1.1	-0.7	-0.2	2.1	2.4	3.0	3.4	0.5	0.2	1.1	5.4	-1.1
16	0.3	0.6	-1.0	-0.6	0.1	0.0	0.2	-0.1	0.0	-0.1	-0.9	-1.1	-0.8	-0.7	-0.6	-0.9	-1.1	-0.8	1.0	-0.1	-0.1	-0.1	-0.4	-1.0	-0.3	1.0	-1.1
17	-0.9	-0.2	-1.3	-1.5	-1.0	-1.6	-1.8	-1.1	-1.4	-0.8	-1.4	-1.4	-1.3	-1.1	-1.0	-1.1	-1.1	-1.2	-1.1	-1.2	-1.8	-2.2	-2.2	-2.1	-1.3	-0.2	-2.2
18	-1.9	-1.1	-0.9	-0.6	-0.7	-0.3	0.4	0.6	0.2	-0.2	-1.0	-1.6	-1.8	-1.5	-1.1	-0.9	-1.8	-1.9	-1.4	-1.5	0.5	-0.9	0.8	-0.9	-0.8	0.8	-1.9
19	0.2	0.6	0.1	-0.1	2.2	0.9	1.6	1.9	1.4	0.1	-1.1	0.0	-0.6	-0.7	-1.1	-0.8	-0.9	-0.8	-0.4	1.2	-0.4	1.7	-0.8	0.4	0.2	2.2	-1.1
20	-0.1	0.1	-0.1	-1.3	-1.5	-1.8	-2.0	-1.3	-0.2	-0.1	-1.5	-1.1	-0.4	-0.7	-0.8	-0.5	-0.6	0.3	2.6	4.6	5.5	5.3	5.3	6.0	0.7	6.0	-2.0
21	3.5	5.4	2.7	-0.9	-1.1	-1.2	-0.7	-0.8	0.6	-1.4	-1.1	-1.3	-1.4	-1.7	-2.0	-1.6	-1.6	-0.7	-1.4	-1.6	-0.9	-0.2	-1.6	-1.7	-0.5	5.4	-2.0
22	-1.3	-1.6	-1.7	-1.5	-1.3	-1.0	-0.8	0.6	0.2	--	--	-0.6	-0.6	-0.5	-0.7	-0.8	-0.7	-0.8	-0.4	-1.0	-0.9	-0.9	-0.8	-1.0	-0.8	0.6	-1.7
23	-0.9	-1.2	-0.1	-1.2	-1.1	-1.0	-1.0	-0.8	-0.6	-0.5	-0.2	-0.4	-0.9	-1.1	-0.9	-0.7	-0.6	-0.6	-0.5	2.2	0.6	-0.5	-0.2	1.0	-0.5	2.2	-1.2
24	-0.7	-0.9	-1.1	-1.0	-0.9	-0.3	0.2	0.3	1.0	1.2	1.6	1.3	0.8	0.4	0.5	0.7	1.2	0.5	0.1	0.8	2.0	2.6	3.2	2.0	0.6	3.2	-1.1
25	2.2	2.5	2.7	0.4	4.5	0.5	5.1	2.8	3.5	1.6	2.3	1.3	0.9	0.4	-0.2	-0.4	-0.4	-0.5	0.1	0.7	2.6	0.1	0.7	-1.3	1.3	5.1	-1.3
26	-0.8	-1.0	-0.8	-0.8	-1.1	-1.3	-1.4	-0.6	-0.9	-1.0	-0.9	-0.6	-0.5	-0.3	-0.4	-0.8	-1.5	--	--	--	--	--	--	--	-0.9	-0.3	-1.5
27	--	--	0.3	1.1	0.4	0.5	2.6	2.7	1.4	1.0	0.8	1.0	0.6	1.1	1.0	1.1	0.8	1.3	--	--	--	0.8	1.3	0.8	1.1	2.7	0.3
28	0.3	1.7	2.4	2.8	0.6	0.2	0.7	0.9	0.8	1.8	0.4	--	--	--	--	--	--	--	3.1	3.6	2.9	4.5	1.6	1.2	1.7	4.5	0.2
29	1.1	3.1	3.1	4.2	2.4	2.8	1.9	1.3	1.2	0.5	0.0	-0.2	-0.2	0.0	-0.1	-0.3	-0.4	-0.2	5.1	1.7	4.4	-0.2	0.2	-0.7	1.3	5.1	-0.7
30	0.3	2.0	-0.7	-0.6	-0.5	-0.6	-0.5	0.0	3.0	3.7	0.4	-0.6	-1.0	-1.0	-0.7	-0.6	0.0	-0.3	-0.3	0.0	-0.5	-0.5	-0.7	-0.9	0.0	3.7	-1.0
31	-1.1	-1.3	-1.4	-1.4	-1.5	-1.4	-1.4	-1.4	-1.2	-1.1	-1.1	-1.1	-1.1	-1.2	-1.2	-1.2	-1.3	-1.3	-1.5	-1.5	-1.5	-1.5	-1.5	-1.4	-1.3	-1.1	-1.5
Avg	0.1	0.3	0.2	0.0	0.0	-0.1	0.4	0.4	0.5	0.4	0.1	0.0	-0.1	-0.2	-0.1	0.1	-0.2	-0.1	0.4	0.6	0.8	0.7	0.3	0.0	0.2	--	--
Max	4.9	5.4	5.4	4.2	4.5	2.8	5.4	4.9	3.5	5.6	3.4	3.6	3.6	3.1	2.5	9.5	3.0	2.9	5.1	4.6	5.5	5.3	5.3	6.0	--	9.5	--
Min	-1.9	-1.6	-1.7	-1.6	-1.5	-1.8	-2.0	-1.4	-1.4	-1.4	-1.5	-1.6	-1.8	-1.7	-2.0	-1.6	-1.8	-1.9	-1.5	-1.6	-1.8	-2.2	-2.2	-2.1	--	--	-2.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Feb 2016

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	-1.3	-1.3	-1.3	-1.2	-1.2	-1.1	-1.1	-1.0	-1.0	-1.2	-0.8	-0.6	-0.8	-0.1	-0.5	-0.5	-0.7	-0.7	-0.9	-1.0	-1.1	-0.4	0.6	1.5	-0.7	1.5	-1.3
2	0.9	1.6	1.1	0.2	0.1	0.8	1.5	0.3	1.1	0.7	-0.9	-0.5	-0.3	0.1	1.2	0.6	1.8	2.6	3.2	1.8	1.5	3.2	3.1	3.4	1.2	3.4	-0.9
3	2.9	4.0	8.2	3.1	3.4	1.2	1.9	2.5	0.6	0.0	-0.1	-0.2	-0.1	1.2	-0.5	-1.0	-1.0	-1.2	-0.5	-0.6	-0.5	-0.1	-0.4	-0.7	0.9	8.2	-1.2
4	-1.3	-1.2	-0.8	-1.1	-1.3	-1.2	-1.3	-1.1	-1.0	-0.6	-0.1	-0.6	-0.5	-1.0	-0.8	-1.0	-1.0	-1.0	0.0	1.8	2.2	0.1	0.4	0.1	-0.5	2.2	-1.3
5	-0.7	-1.3	-1.4	-1.5	-1.4	-1.3	-1.5	-1.3	-1.1	-1.1	-1.4	-1.3	-1.4	-1.3	-1.3	-1.5	-1.5	-1.5	-1.5	-1.7	-1.6	-1.2	-1.6	-1.6	-1.4	-0.7	-1.7
6	-1.5	-1.5	-1.6	-1.5	-1.3	-1.2	-1.1	-1.1	-1.2	-1.1	-1.1	-1.2	-1.5	-1.5	-1.4	-1.4	-1.4	-1.4	-0.8	-1.3	-1.0	-0.8	-1.0	-1.1	-1.3	-0.8	-1.6
7	-1.1	-0.9	-1.4	-1.4	-1.2	-1.4	-0.9	-1.1	-1.2	-1.0	-0.3	-0.7	-0.9	-0.7	-1.1	-1.5	-1.6	-1.7	-1.7	-1.4	8.4	1.7	-1.2	-1.4	-0.6	8.4	-1.7
8	-1.4	-1.6	-1.6	-1.6	-1.6	-1.5	-1.5	-1.4	-1.3	-1.3	-0.8	-0.9	-1.2	-1.4	-1.3	-0.7	-0.6	-1.4	-1.8	-1.7	-1.4	-1.3	-0.8	-1.1	-1.3	-0.6	-1.8
9	-1.1	-1.0	-1.2	-1.3	-1.1	-0.4	-0.7	-0.9	-0.8	-0.8	-0.9	-1.3	-1.2	-1.0	-0.9	-1.0	-1.4	-1.2	-0.2	1.6	0.8	0.9	-1.0	-1.1	-0.7	1.6	-1.4
10	-0.9	-0.5	-0.9	-1.0	-1.2	-1.1	-0.9	-0.7	-0.3	0.0	0.3	0.1	-0.4	-0.8	-0.9	-0.5	-0.9	-1.1	-0.4	-0.8	-0.6	0.5	0.5	-0.3	-0.5	0.5	-1.2
11	0.2	0.4	0.8	0.2	-0.5	-0.6	0.5	0.3	-0.7	-0.5	0.4	-0.7	-0.8	-0.5	-0.8	-0.9	-0.8	-0.8	0.0	0.4	-0.2	-0.7	-0.4	1.1	-0.2	1.1	-0.9
12	0.0	-0.3	0.6	1.0	-0.9	-1.2	-0.8	-0.6	-0.7	-1.2	-0.7	-0.8	-1.1	-1.4	-1.4	-1.5	-1.4	-1.1	-1.0	-1.0	-0.9	-1.2	-1.4	-1.1	-0.8	1.0	-1.5
13	-0.9	-0.5	-1.2	-1.3	-1.2	-1.4	-1.3	-1.2	-1.0	-0.7	-0.3	-0.2	-0.8	-1.0	-1.1	-1.1	-1.3	-1.1	-0.6	0.3	0.7	0.2	-0.7	-1.0	-0.8	0.7	-1.4
14	-0.9	-0.8	-1.4	-1.2	-1.4	-1.4	-1.4	0.2	-0.6	-0.6	-1.1	-1.0	-0.9	-0.9	-0.8	-1.0	-1.0	-1.0	-0.4	0.4	0.1	-0.2	-1.0	-1.1	-0.8	0.4	-1.4
15	-0.4	-0.5	-1.6	-1.5	-0.8	-0.8	-1.6	-0.8	-1.1	-1.2	-0.7	-1.2	-0.9	-1.0	-0.7	-0.9	-1.1	-0.6	-0.7	-0.1	0.1	0.8	-0.9	-0.9	-0.8	0.8	-1.6
16	-1.4	-0.8	-1.7	-1.8	-1.6	-1.2	-1.7	-1.3	-1.2	-1.4	-1.1	-0.7	-0.3	-1.1	-1.0	-1.3	-1.6	-1.2	-0.9	-0.9	-0.2	-0.4	-0.3	0.5	-1.0	0.5	-1.8
17	0.5	0.1	0.3	-1.0	-0.4	-0.1	-0.4	0.6	-0.3	-0.9	-1.4	-1.2	--	--	--	-0.1	0.1	0.0	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	0.6	-1.4
18	-0.5	-0.6	-0.7	-0.6	-0.6	-0.5	-0.3	-0.3	10.2	1.1	0.0	-0.1	0.0	0.5	0.6	0.3	0.5	0.4	0.5	0.4	0.1	1.1	2.4	4.0	0.8	10.2	-0.7
19	2.2	4.0	2.3	2.6	1.9	2.4	1.5	2.6	7.0	3.5	0.9	0.4	-0.1	-0.2	-0.2	0.1	-0.3	-0.4	0.4	0.6	-0.3	-0.3	-0.4	-0.5	1.2	7.0	-0.5
20	-0.2	-0.5	-0.6	-0.6	-0.4	-0.5	-0.3	-0.3	0.2	0.4	3.7	3.8	0.0	0.1	0.1	0.0	0.2	0.5	1.6	1.6	1.5	0.8	0.3	0.2	0.5	3.8	-0.6
21	-0.3	0.1	-0.1	0.0	0.2	0.1	0.1	0.1	0.6	0.8	0.5	0.4	0.5	0.7	0.4	0.0	-0.1	0.2	0.7	1.4	2.0	2.8	2.1	1.2	0.6	2.8	-0.3
22	1.7	6.1	2.2	2.7	0.9	1.0	3.5	6.4	0.5	0.2	0.7	0.9	0.6	0.6	1.1	1.4	2.5	1.0	1.3	1.2	1.8	1.7	0.1	-0.3	1.7	6.4	-0.3
23	-0.3	-0.4	-0.4	-0.4	-0.3	0.9	1.1	2.1	0.9	0.4	0.6	0.6	0.3	0.5	0.2	0.0	-0.3	-0.2	0.1	0.4	1.1	1.2	1.4	1.4	0.5	2.1	-0.4
24	1.2	1.9	2.4	0.6	0.3	0.6	0.4	0.4	0.3	0.5	0.3	0.2	0.2	0.5	1.1	0.5	0.1	0.1	0.4	0.4	5.8	2.6	0.0	0.8	0.9	5.8	0.0
25	0.2	0.8	1.0	1.2	2.1	1.2	0.8	0.9	1.3	0.9	1.2	0.9	0.6	0.6	0.6	0.7	0.2	0.1	0.4	2.4	0.1	0.1	0.2	0.0	0.8	2.4	0.0
26	-0.1	0.0	0.7	0.0	0.1	0.3	0.5	1.1	1.2	1.3	1.1	1.1	0.9	0.8	0.9	1.0	0.2	0.2	1.0	0.5	0.2	-0.1	0.2	-0.1	0.6	1.3	-0.1
27	0.0	0.3	0.4	0.2	0.4	0.4	0.8	0.4	0.9	0.9	0.7	0.3	0.3	0.4	0.1	0.1	0.0	0.1	0.3	0.5	0.7	1.1	2.3	3.0	0.6	3.0	0.0
28	1.2	1.5	1.1	0.9	1.0	1.1	1.0	1.7	2.7	1.6	0.8	0.6	0.3	0.2	0.2	0.0	0.0	0.0	0.3	0.2	0.6	0.5	1.7	4.4	1.0	4.4	0.0
29	0.7	0.5	0.5	0.5	1.2	0.8	0.4	--	--	--	-1.4	-1.8	-1.6	-1.7	-2.1	-2.2	-2.3	-2.2	-1.7	-1.4	-1.0	-0.6	-0.5	-1.4	-0.8	1.2	-2.3
Avg	-0.1	0.3	0.1	-0.2	-0.2	-0.2	-0.1	0.2	0.5	0.0	-0.1	-0.2	-0.4	-0.3	-0.4	-0.5	-0.5	-0.5	-0.1	0.1	0.6	0.4	0.1	0.3	0.0	--	--
Max	2.9	6.1	8.2	3.1	3.4	2.4	3.5	6.4	10.2	3.5	3.7	3.8	0.9	1.2	1.2	1.4	2.5	2.6	3.2	2.4	8.4	3.2	3.1	4.4	--	10.2	--
Min	-1.5	-1.6	-1.7	-1.8	-1.6	-1.5	-1.7	-1.4	-1.3	-1.4	-1.4	-1.8	-1.6	-1.7	-2.1	-2.2	-2.3	-2.2	-1.8	-1.7	-1.6	-1.3	-1.6	-1.6	--	--	-2.3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Mar 2016

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	-1.9	-1.0	3.3	-0.8	-1.4	-1.6	-1.8	-0.9	0.6	-1.1	-2.1	-2.3	-2.2	0.3	0.1	0.0	-0.2	-0.2	0.2	0.2	3.0	1.0	2.6	4.4	-0.1	4.4	-2.3
2	2.4	0.0	1.8	1.3	-0.1	-0.2	-0.1	5.7	2.4	2.1	0.6	0.6	0.2	-0.2	-0.1	-0.1	-0.1	-0.2	0.0	0.2	0.5	0.1	-0.5	-0.6	0.7	5.7	-0.6
3	-0.2	-0.5	0.4	0.0	-0.4	0.2	0.6	3.4	4.4	2.8	0.4	0.1	0.0	0.6	0.1	0.3	-0.3	-0.4	-0.1	0.4	0.0	0.0	-0.3	-0.4	0.5	4.4	-0.5
4	-0.5	-0.6	-0.6	-0.6	0.9	-0.5	0.2	1.9	3.1	1.7	0.2	-0.1	0.1	0.1	0.3	-0.2	-0.5	-0.5	-0.3	-0.3	-0.6	-0.5	-0.7	-0.6	0.1	3.1	-0.7
5	2.1	0.6	0.2	0.0	-0.4	1.2	0.1	0.4	1.5	1.1	-0.2	-0.3	-0.3	-0.3	-0.2	-0.4	-0.4	-0.5	-0.4	-0.3	-0.6	-0.6	-0.5	-0.1	0.1	2.1	-0.6
6	-0.6	-0.4	-0.5	-0.5	-0.5	0.5	0.4	0.8	-0.3	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.1	0.3	0.1	-0.3	0.3	-0.2	0.8	-0.6
7	0.3	0.0	0.0	0.1	0.4	1.0	1.6	--	--	--	0.2	0.0	0.1	0.1	0.2	0.1	-0.3	-0.3	1.1	1.2	1.6	0.7	0.4	0.6	0.4	1.6	-0.3
8	0.6	1.0	0.6	0.1	0.1	0.4	2.9	0.1	-3.7	0.3	-0.1	-1.1	-0.5	-0.2	-0.8	-0.9	-0.6	-0.5	1.2	1.7	0.3	-1.1	-1.3	-1.3	-0.1	2.9	-3.7
9	-1.0	0.5	-1.8	-1.6	-1.4	-1.4	0.2	0.3	0.0	-0.8	-0.8	-0.3	-1.5	-1.8	-1.8	-1.9	-1.8	-1.2	0.3	1.2	-0.4	-0.4	-1.3	-1.1	-0.8	1.2	-1.9
10	-1.3	-1.2	-1.3	-2.4	-2.5	-2.4	-1.8	-1.5	-1.1	-1.5	-0.9	-0.9	-1.8	-1.7	-1.7	-1.8	-1.8	-2.1	-2.2	-2.0	-1.7	-1.8	-1.6	-2.0	-1.7	-0.9	-2.5
11	-1.8	-1.6	-1.8	-1.0	-1.1	-0.6	-0.3	-1.1	-1.5	-1.8	--	-0.8	-0.7	-0.9	-1.3	-1.0	-1.0	-1.1	0.6	1.0	1.4	-1.2	-1.4	-1.6	-0.9	1.4	-1.8
12	-1.7	-1.7	-1.2	-0.9	-0.8	-1.0	-1.0	-1.0	-0.9	-0.8	-0.8	-0.8	-0.9	-0.8	-0.7	-0.9	-0.9	-0.8	-0.5	0.0	-0.2	0.1	2.9	3.8	-0.5	3.8	-1.7
13	1.3	--	5.3	3.7	-1.0	-1.0	-0.7	1.1	0.3	-0.2	-0.8	-0.9	-0.9	-1.0	-1.1	-1.1	-1.3	-1.3	-1.0	-0.9	-0.9	0.1	0.2	-0.8	-0.1	5.3	-1.3
14	-0.8	-0.4	-0.9	-1.1	-0.9	-1.0	-0.1	1.2	0.9	-0.7	-0.7	-0.7	-0.9	-0.9	-0.9	-0.9	-0.9	-1.1	-1.1	-0.8	-0.3	-0.1	-0.2	-0.6	-0.6	1.2	-1.1
15	-0.8	-0.7	-0.9	-1.1	-0.6	-0.2	0.4	--	--	-0.5	-0.8	-0.2	-0.8	-0.8	-0.9	-1.1	-1.2	-1.5	-0.7	0.4	0.9	0.6	0.0	-0.2	-0.5	0.9	-1.5
16	-0.2	-0.2	-0.7	-0.3	0.1	0.9	0.1	0.3	0.1	-0.7	0.0	0.5	-0.5	-0.4	-1.0	-1.1	-0.9	-0.9	-0.7	-0.5	-0.2	0.0	0.1	-0.5	-0.3	0.9	-1.1
17	-0.7	-1.1	-0.9	-0.9	-1.0	-0.9	-0.1	1.5	1.8	-0.4	-0.3	-0.8	-0.8	-1.1	-1.1	-1.1	-1.2	-1.2	-1.1	-1.0	-0.6	0.0	-0.2	-0.4	-0.6	1.8	-1.2
18	-0.6	-0.6	-0.6	-0.6	-0.2	-0.9	-1.0	0.4	1.7	-0.2	-0.5	-0.8	-1.1	-1.2	-1.0	-1.0	-1.2	-1.0	-0.5	-0.2	-0.4	-0.3	-0.3	-0.6	-0.5	1.7	-1.2
19	-0.7	-0.8	-0.9	-0.9	-0.7	0.4	1.6	2.3	0.5	-0.2	-0.3	-0.4	-0.8	-1.0	-1.0	-1.0	-1.1	-0.9	-0.6	-0.3	-0.2	-0.1	-0.1	-0.4	-0.3	2.3	-1.1
20	-0.6	-0.9	-0.5	-1.3	-1.3	-1.3	-1.1	-0.3	-0.6	-0.2	-0.3	-0.4	-0.5	-0.4	-0.6	-0.9	-1.0	-0.7	-1.3	-0.2	0.1	-1.0	-0.7	-0.8	-0.7	0.1	-1.3
21	-0.2	-0.8	-0.9	-0.9	-0.9	-0.7	-0.6	0.1	-0.2	-0.5	-0.5	-0.4	-0.4	-1.1	-0.9	-1.0	-1.2	-1.2	-1.2	-1.1	-1.1	-0.9	-0.4	-0.4	-0.7	0.1	-1.2
22	-1.2	-1.3	-1.1	-1.4	-1.5	-1.4	-1.0	-1.2	-1.2	-0.8	-1.1	-0.4	-1.0	-0.6	--	--	--	-0.9	-1.0	-1.0	-0.6	-0.7	-0.4	-0.4	-1.0	-0.4	-1.5
23	-0.1	0.5	0.2	0.3	-1.1	-1.3	-1.0	--	--	--	--	--	--	--	--	--	--	--	-0.1	0.3	0.0	-0.3	-0.1	0.1	-0.2	0.5	-1.3
24	0.1	-0.6	-0.5	1.0	0.2	0.4	-0.7	-0.4	-0.8	-0.3	-0.6	-0.3	-0.6	0.0	-1.0	-1.1	-0.7	-0.4	0.5	0.7	1.3	2.3	2.8	1.8	0.1	2.8	-1.1
25	0.6	-0.7	-0.5	-0.4	-0.4	-0.3	-0.1	4.3	1.7	0.4	-0.3	-0.6	-0.9	-0.8	-0.8	-0.7	-0.5	-0.3	-0.1	-0.1	-0.5	-0.9	-1.2	-1.4	-0.2	4.3	-1.4
26	-0.9	-0.5	-1.2	-0.9	-0.7	-0.2	1.4	2.9	2.6	-1.0	-1.1	-1.2	-1.1	-0.9	-0.9	-0.8	-0.5	-0.3	-0.5	-0.5	-0.3	-1.0	-1.1	-0.6	-0.4	2.9	-1.2
27	-0.5	-1.0	-0.7	-1.0	-1.1	-0.8	-0.9	-0.9	0.6	-0.8	-0.8	-1.0	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-0.8	0.1	-1.1	0.5	-0.2	-0.8	0.6	-1.3
28	0.0	-0.9	-0.8	-1.2	-1.4	-1.4	-1.2	-1.1	-0.9	-0.9	-0.9	-1.0	-1.0	-1.1	-1.2	-1.3	-1.2	-1.3	-1.3	-1.4	-1.3	-1.4	-1.4	-1.4	-1.1	0.0	-1.4
29	-1.4	-1.3	-1.4	-1.2	-1.1	-1.1	-1.0	-0.9	-0.8	-0.3	-0.7	-0.6	-0.6	-0.4	-0.6	-0.7	-0.9	-0.9	-0.9	-1.0	-0.8	-0.7	-0.6	-0.5	-0.8	-0.3	-1.4
30	-0.3	0.4	0.2	-0.5	-0.7	-0.6	-0.3	0.1	0.2	-0.2	-0.6	-0.8	-0.8	-0.6	-0.5	-0.3	-1.0	-0.8	-0.9	-0.6	-0.7	-0.3	-0.6	-0.8	-0.5	0.4	-1.0
31	-0.8	0.6	0.6	-0.2	-0.1	-0.3	1.1	1.5	3.4	-0.4	-0.3	0.0	-0.2	-0.4	-0.1	-0.4	-0.5	-0.4	0.7	1.4	1.3	0.5	0.7	-0.3	0.3	3.4	-0.8
Avg	-0.4	-0.5	-0.2	-0.5	-0.7	-0.5	-0.1	0.7	0.5	-0.2	-0.5	-0.5	-0.7	-0.6	-0.7	-0.8	-0.9	-0.8	-0.4	-0.1	0.0	-0.3	-0.2	-0.2	-0.4	--	--
Max	2.4	1.0	5.3	3.7	0.9	1.2	2.9	5.7	4.4	2.8	0.6	0.6	0.2	0.6	0.3	0.3	-0.1	-0.2	1.2	1.7	3.0	2.3	2.9	4.4	--	5.7	--
Min	-1.9	-1.7	-1.8	-2.4	-2.5	-2.4	-1.8	-1.5	-3.7	-1.8	-2.1	-2.3	-2.2	-1.8	-1.8	-1.9	-1.8	-2.1	-2.2	-2.0	-1.7	-1.8	-1.6	-2.0	--	--	-3.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Jan 2016

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	1.1	1.2	1.9	2.0	1.4	1.1	1.5	1.6	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	2.0	0.5
2	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.4
3	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.8	0.4
4	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.6
5	0.6	0.6	0.6	0.7	0.6	0.6	0.6	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.8	0.6
6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.5
7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.5
8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.6
9	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
10	0.6	0.6	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.5	1.6	1.5	1.2	1.2	1.1	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.8	1.6	0.3
11	0.6	0.6	0.7	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.6	1.1	0.6	0.7	0.9	0.6	1.1	0.5
12	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.7	1.0	1.3	1.4	0.7	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.3	1.8	1.4	1.1	0.9	1.8	0.6
13	1.3	2.3	1.1	0.8	0.8	0.9	0.8	0.7	0.5	0.8	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.3	1.1	1.3	1.1	0.9	0.9	0.8	1.1	2.3	0.5
14	0.9	0.8	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.0	1.1	1.1	1.5	2.0	2.2	1.6	1.5	1.4	1.5	1.3	1.2	2.2	0.7
15	1.2	1.2	0.9	0.9	0.9	0.9	0.9	--	--	--	1.6	2.2	1.5	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.7	0.7	1.0	2.2	0.6
16	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.8	0.8	0.7	1.0	0.6
17	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.6	0.7	0.8	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.6	0.7	1.0	0.5
18	0.6	0.6	0.6	1.4	1.4	1.2	1.1	1.3	2.7	3.8	2.8	1.1	0.9	0.9	0.8	0.9	1.2	1.1	1.3	1.6	1.4	1.4	1.2	1.2	1.3	3.8	0.6
19	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	1.0	1.0	1.0	0.9	0.9	4.7	4.4	4.3	3.8	3.2	2.6	2.0	1.9	1.5	1.3	1.4	1.8	4.7	0.8
20	1.1	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.8	1.1	1.0	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.1	0.6
21	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.6	1.1	1.7	1.2	0.7	0.5	0.7	1.1	1.1	2.6	3.4	2.5	3.6	3.0	1.3	3.6	0.5
22	2.3	2.5	2.4	3.1	3.3	2.2	2.2	2.1	--	--	1.2	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6	7.0	3.3	0.6
23	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.6	0.7	0.8	0.8	1.0	0.9	0.9	1.2	1.4	1.3	0.8	1.4	0.6
24	1.0	1.1	0.9	0.9	1.0	1.1	1.0	0.9	0.8	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.8	1.1	0.7
25	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.4	2.2	2.6	2.6	3.1	2.5	1.8	1.3	1.0	0.8	0.7	0.7	1.2	3.1	0.7
26	0.7	0.6	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.6	0.7	1.1	0.5	0.3	0.2	--	--	--	--	--	--	--	0.6	1.1	0.2
27	--	--	0.7	0.8	0.9	1.2	1.8	3.2	1.9	1.0	0.7	0.7	0.9	2.0	0.8	0.8	1.0	1.1	--	--	--	0.7	0.6	0.7	1.1	3.2	0.6
28	0.8	0.8	1.9	3.1	2.0	1.2	0.9	0.9	1.5	2.4	1.6	--	--	--	--	--	--	--	1.0	1.0	0.9	0.7	0.6	0.7	1.3	3.1	0.6
29	0.8	0.8	0.8	0.9	1.3	1.5	1.4	1.3	1.0	1.0	1.1	0.8	1.0	1.5	2.0	2.2	1.8	1.5	1.5	1.3	1.5	1.5	1.5	1.7	1.3	2.2	0.8
30	1.4	1.1	1.1	1.5	1.7	2.2	2.8	3.0	3.7	3.6	3.2	3.3	1.0	1.0	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.6	1.6	3.7	0.6
31	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	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.6	0.8	0.6
Avg	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	5.6	1.0	0.9	0.8	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	1.1	--	--
Max	2.3	2.5	2.4	3.1	3.3	2.2	2.8	3.2	3.7	136.0	3.2	3.3	1.7	4.7	4.4	4.3	3.8	3.2	2.6	2.6	3.4	2.5	3.6	3.0	--	4.7	--
Min	0.5	0.5	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Feb 2016

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	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.6
2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.3
3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.8	1.2	1.1	1.6	1.2	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.6	0.7	1.8	0.4
4	0.5	0.4	0.6	1.2	0.6	0.6	1.3	1.2	2.0	1.7	1.7	1.0	0.9	0.4	0.6	0.6	0.5	0.6	2.8	2.7	5.0	1.0	0.5	0.5	1.2	5.0	0.4
5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.5	0.3
6	0.4	1.2	1.5	1.5	1.7	1.9	1.8	1.9	1.3	1.4	1.4	0.9	0.3	0.1	0.4	0.4	0.4	0.4	0.6	1.4	4.1	1.5	1.7	2.6	1.3	4.1	0.1
7	1.7	0.6	0.5	0.4	0.4	0.4	0.4	1.2	0.7	0.7	1.0	1.8	1.7	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.5	0.5	0.7	0.7	1.8	0.4
8	0.4	0.4	0.4	0.4	0.5	0.7	0.8	0.5	1.0	0.8	1.0	2.5	1.3	0.4	0.5	1.6	2.9	1.0	0.4	0.4	0.4	0.5	0.4	0.4	0.8	2.9	0.4
9	0.5	1.4	2.0	1.3	1.5	3.5	1.4	1.7	2.9	2.0	1.4	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2.2	3.1	0.5	0.4	1.3	3.5	0.4
10	0.5	1.1	1.3	1.2	1.6	1.0	1.1	1.8	2.1	1.2	1.4	1.1	0.6	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	1.0	1.4	0.7	1.0	2.1	0.4
11	0.8	0.9	1.3	1.1	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.7	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.4	0.7	1.3	0.4
12	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	1.9	2.3	2.1	1.2	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.8	0.7	2.3	0.0
13	1.0	1.1	1.0	1.0	0.9	0.9	1.6	1.1	1.1	1.1	1.0	1.2	1.7	1.1	1.0	1.0	0.5	0.7	1.0	0.9	0.8	0.7	0.6	0.6	1.0	1.7	0.5
14	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.9	1.8	2.6	4.4	3.1	1.7	2.1	1.6	1.6	1.4	1.1	0.7	0.6	1.2	4.4	0.5
15	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.8	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.8	0.4
16	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	1.0	1.4	0.9	1.3	0.7	0.6	0.8	0.7	0.6	0.8	0.6	0.6	1.1	0.7	1.4	0.5
17	1.1	1.3	1.7	3.0	2.7	1.4	0.9	0.7	0.7	0.6	0.6	--	--	--	--	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	2.3	3.0	0.4
18	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.6	2.5	0.7	0.7	1.4	1.7	1.1	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	2.5	0.3
19	0.3	0.3	0.3	0.3	0.3	0.3	0.6	1.2	2.0	3.1	1.9	0.8	0.4	0.3	0.5	0.5	0.5	0.6	0.7	0.6	0.5	0.4	0.4	0.3	0.7	3.1	0.3
20	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.6	0.5	0.5	0.4	0.2	0.4	0.4	0.3	0.3	0.3	0.4	0.6	0.2
21	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.5	1.4	1.5	0.9	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.5	1.5	0.3
22	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.9	1.2	0.6	1.6	1.3	1.1	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.6	1.6	0.3
23	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.2
24	0.3	1.6	1.8	1.8	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.6	0.6	1.4	0.5	1.8	0.2
25	1.6	2.8	2.0	0.3	0.4	0.5	0.5	0.6	1.1	1.5	1.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	2.8	0.3
26	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.6	0.6	0.4	0.3	0.3	0.3	0.4	0.3	0.6	0.2
27	0.4	0.2	0.3	0.6	1.6	1.7	0.9	0.6	0.5	0.5	0.6	0.8	0.6	0.7	0.8	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.5	0.6	0.7	1.7	0.2
28	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.7	0.7	1.7	1.1	0.8	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.6	1.7	0.4
29	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	0.4	0.8	1.0	1.3	1.3	0.9	0.9	0.8	0.5	0.4	0.4	0.4	0.4	0.3	0.6	1.3	0.3
Avg	0.6	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	1.9	0.8	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.8	0.6	0.6	0.6	0.8	--	--
Max	1.7	2.8	2.0	3.0	2.7	3.5	1.8	1.9	2.9	3.1	2.5	30.2	1.8	2.6	4.4	3.1	2.9	2.1	2.8	2.7	5.0	3.1	1.7	2.6	--	5.0	--
Min	0.0	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2	--	--	0.0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Mar 2016

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	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.8	1.3	1.5	1.2	1.1	1.1	0.9	1.1	0.9	0.6	0.5	0.4	0.6	1.5	0.3
2	0.4	0.3	0.3	0.3	0.4	0.3	0.5	0.4	0.7	1.8	0.7	1.1	0.8	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.6	1.8	0.3
3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.9	2.7	1.2	1.1	1.5	1.5	1.2	0.9	0.8	0.6	0.6	0.5	0.4	0.4	0.4	0.7	2.7	0.3
4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.5	1.6	2.3	0.7	0.7	0.9	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.5	0.6	0.7	2.3	0.4
5	0.5	0.4	0.5	0.5	1.2	1.3	1.3	0.8	1.4	2.1	1.3	1.5	1.2	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.8	2.1	0.3
6	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.5	0.5	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	0.5	0.4	0.6	0.4
7	0.5	0.4	0.4	0.5	0.4	0.2	0.4	--	--	--	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.2
8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.7	0.7	0.6	0.6	0.7	0.7	0.5
9	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2.5	2.0	1.0	0.8	0.7	0.6	0.6	0.7	0.6	0.5	0.6	0.6	0.8	2.5	0.5
10	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.6	2.6	6.2	1.2	0.9	1.0	1.0	1.0	1.2	1.2	1.0	1.0	0.9	0.9	1.4	1.1	6.2	0.5
11	2.4	1.9	2.2	3.7	5.9	4.3	1.5	1.3	1.0	0.7	--	0.7	1.0	1.1	1.0	0.6	0.6	0.6	0.8	0.8	0.8	0.7	0.6	0.6	1.5	5.9	0.6
12	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.5
13	0.5	--	0.6	0.5	0.5	0.5	0.5	0.7	1.2	1.4	1.0	0.9	0.9	1.0	1.2	1.1	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.4	0.5
14	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.6	0.7	0.8	0.6
15	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.4
16	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.6	1.1	1.0	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	0.5
17	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6
18	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.5
19	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6
20	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5.9	1.7	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	0.7	0.9	5.9	0.5
21	1.0	1.0	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	0.6	0.6	0.7	0.7	0.7	0.6	0.5	0.6	0.7	1.0	0.5
22	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	1.3	0.8	0.8	--	--	--	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.1	1.7	0.6
23	1.7	1.7	1.6	1.7	1.7	1.6	1.6	--	--	--	--	--	--	--	--	--	--	--	1.0	1.0	1.0	1.0	0.9	0.9	1.3	1.7	0.9
24	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.8	0.8	1.0	1.3	1.1	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	1.3	0.4
25	0.9	0.8	0.9	0.9	1.0	1.0	1.0	0.9	0.8	0.9	2.1	1.4	1.2	1.0	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.8	1.0	2.1	0.8
26	0.8	1.0	0.9	0.9	0.9	1.0	1.0	1.2	1.2	3.2	2.2	1.1	0.9	0.8	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	1.1	3.2	0.8
27	0.8	0.8	0.8	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.1	0.9	0.7	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.9	1.1	0.7
28	0.8	0.8	0.8	0.9	0.8	0.8	0.9	1.1	1.0	1.2	2.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	2.1	0.8
29	0.9	0.9	0.9	0.9	1.0	0.9	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.8
30	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	1.0	0.8
31	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	1.2	1.3	0.9	0.8	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	1.3	0.8
Avg	0.7	0.7	0.7	0.8	0.9	0.8	0.7	0.9	0.8	0.9	1.1	1.0	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	--	--
Max	2.4	1.9	2.2	3.7	5.9	4.3	1.6	5.9	1.7	3.2	2.7	6.2	2.5	2.0	1.5	1.2	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.6	--	6.2	--
Min	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, Rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jan 2016

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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, Rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Feb 2016

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	0.043	0.044	0.044	0.044	0.043	0.043	0.043	0.042	0.042	0.042	0.041	0.041	0.041	0.041	0.040	0.039	0.038	0.038	0.037	0.037	0.036	0.035	0.035	0.034	0.040	0.044	0.034
2	0.033	0.033	0.033	0.033	0.034	0.034	0.035	0.037	0.038	0.039	0.040	0.039	0.039	0.039	0.038	0.037	0.036	0.035	0.034	0.032	0.031	0.030	0.030	0.030	0.035	0.040	0.030
3	0.030	0.030	0.031	0.032	0.034	0.035	0.036	0.038	0.039	0.041	0.041	0.042	0.041	0.041	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.042	0.043	0.044	0.039	0.044	0.030
4	0.044	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.044	0.044	0.043	0.042	0.042	0.041	0.041	0.042	0.043	0.044	0.044	0.045	0.044	0.045	0.041
5	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.045	0.046	0.047	0.045
6	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.046	0.046	0.047	0.047	0.047	0.047	0.047	0.046	0.046	0.046	0.045	0.044	0.044	0.044	0.043	0.043	0.043	0.045	0.047	0.043
7	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.044	0.045	0.046	0.047	0.047	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.043	0.044	0.044	0.044	0.044	0.047	0.043
8	0.044	0.045	0.045	0.045	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.044	0.044	0.043	0.043	0.043	0.043	0.042	0.042	0.042	0.042	0.044	0.046	0.042
9	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	0.044	0.043	0.043	0.043	0.043	0.042	0.042	0.043	0.043	0.043	0.043	0.043	0.045	0.041
10	0.042	0.042	0.043	0.043	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.049	0.049	0.049	0.048	0.047	0.047	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.046	0.049	0.042
11	0.042	0.041	0.040	0.040	0.040	0.040	0.041	0.042	0.043	0.044	0.046	0.047	0.048	0.048	0.048	0.048	0.047	0.045	0.044	0.043	0.041	0.041	0.040	0.039	0.043	0.048	0.039
12	0.039	0.038	0.038	0.038	0.039	0.039	0.040	0.041	0.042	0.043	0.044	0.044	0.044	0.045	0.045	0.045	0.045	0.045	0.044	0.045	0.045	0.045	0.044	0.044	0.042	0.045	0.038
13	0.044	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.046	0.047	0.049	0.050	0.050	0.050	0.050	0.050	0.049	0.048	0.048	0.047	0.047	0.047	0.047	0.046	0.050	0.043
14	0.046	0.045	0.044	0.043	0.043	0.043	0.044	0.045	0.047	0.050	0.052	0.054	0.056	0.057	0.057	0.056	0.055	0.053	0.052	0.050	0.048	0.045	0.044	0.043	0.049	0.057	0.043
15	0.042	0.042	0.041	0.041	0.041	0.041	0.041	0.041	0.042	0.043	0.043	0.044	0.044	0.044	0.043	0.043	0.042	0.041	0.040	0.039	0.038	0.038	0.038	0.039	0.041	0.044	0.038
16	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.040	0.041	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.039	0.039	0.039	0.039	0.038	0.038	0.039	0.042	0.038
17	0.038	0.037	0.037	0.037	0.037	0.037	0.037	--	--	--	--	--	--	0.050	0.049	0.049	0.049	0.048	0.048	0.048	0.047	0.047	0.047	0.047	0.044	0.050	0.037
18	0.046	0.045	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.046	0.046	0.046	0.045	0.045	0.044	0.043	0.042	0.040	0.039	0.038	0.038	0.037	0.037	0.037	0.043	0.046	0.037
19	0.037	0.036	0.036	0.036	0.037	0.037	0.038	0.039	0.040	0.041	0.042	0.043	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.041	0.041	0.041	0.041	0.040	0.043	0.036
20	0.041	0.041	0.040	0.039	0.039	0.039	0.040	0.041	0.042	0.043	0.045	0.047	0.048	0.049	0.049	0.048	0.048	0.047	0.045	0.044	0.043	0.042	0.042	0.041	0.043	0.049	0.039
21	0.041	0.040	0.040	0.040	0.040	0.041	0.042	0.044	0.045	0.046	0.049	0.051	0.052	0.054	0.055	0.056	0.057	0.057	0.055	0.054	0.052	0.050	0.049	0.047	0.048	0.057	0.040
22	0.046	0.046	0.046	0.047	0.047	0.048	0.048	0.050	0.051	0.052	0.052	0.052	0.052	0.052	0.051	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.051	0.051	0.050	0.052	0.046
23	0.049	0.049	0.048	0.048	0.048	0.047	0.048	0.049	0.050	0.051	0.051	0.051	0.051	0.051	0.050	0.049	0.048	0.047	0.046	0.045	0.044	0.044	0.043	0.043	0.048	0.051	0.043
24	0.042	0.042	0.042	0.042	0.043	0.043	0.044	0.045	0.047	0.048	0.050	0.051	0.051	0.051	0.051	0.051	0.051	0.050	0.049	0.049	0.048	0.048	0.048	0.048	0.047	0.051	0.042
25	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.050	0.050	0.050	0.050	0.049	0.049	0.049	0.048	0.048	0.048	0.048	0.048	0.049	0.049	0.049	0.050	0.048
26	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.051	0.051	0.052	0.053	0.053	0.053	0.052	0.052	0.051	0.051	0.051	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.053	0.050
27	0.049	0.048	0.048	0.048	0.048	0.048	0.049	0.050	0.052	0.053	0.055	0.057	0.059	0.060	0.060	0.061	0.060	0.060	0.060	0.059	0.058	0.058	0.058	0.058	0.055	0.061	0.048
28	0.059	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.059	0.059	0.060	0.060	0.060	0.060	0.060	0.058	0.058	0.058	0.057	0.056	0.056	0.055	0.055	0.058	0.060	0.055
29	0.056	0.055	--	--	--	--	--	--	0.058	0.058	0.058	0.058	0.058	0.058	0.057	0.056	0.056	0.056	0.055	0.053	0.052	0.050	0.049	0.048	0.055	0.058	0.048
Avg	0.044	0.043	0.043	0.043	0.043	0.043	0.044	0.045	0.046	0.047	0.047	0.048	0.048	0.048	0.048	0.048	0.047	0.046	0.046	0.045	0.045	0.045	0.044	0.044	0.045	--	--
Max	0.059	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.059	0.059	0.060	0.060	0.060	0.060	0.061	0.060	0.060	0.060	0.059	0.058	0.058	0.058	0.058	--	0.061	--
Min	0.030	0.030	0.031	0.032	0.034	0.034	0.035	0.037	0.038	0.039	0.040	0.039	0.039	0.039	0.038	0.037	0.036	0.035	0.034	0.032	0.031	0.030	0.030	0.030	--	--	0.030

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, Rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Mar 2016

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	0.047	0.046	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.053	0.054	0.054	0.054	0.054	0.054	0.053	0.053	0.052	0.052	0.051	0.050	0.049	0.049	0.048	0.050	0.054	0.045
2	0.048	0.047	0.046	0.047	0.048	0.049	0.050	0.052	0.054	0.057	0.059	0.060	0.060	0.060	0.060	0.060	0.059	0.058	0.057	0.055	0.054	0.053	0.052	0.051	0.054	0.060	0.046
3	0.050	0.050	0.049	0.050	0.051	0.051	0.053	0.054	0.055	0.057	0.058	0.059	0.060	0.060	0.060	0.060	0.060	0.059	0.059	0.057	0.057	0.056	0.056	0.055	0.056	0.060	0.049
4	0.054	0.052	0.052	0.052	0.051	0.051	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.061	0.060	0.060	0.059	0.058	0.057	0.057	0.056	0.055	--	--	--
23	0.055	0.055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.053	0.052	0.051	0.050	0.048	0.047	0.046	0.045	--	--	--
24	0.045	0.045	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.053	0.055	0.056	0.057	0.058	0.058	0.058	0.058	0.057	0.057	0.056	0.055	0.054	0.053	0.053	0.053	0.058	0.045
25	0.051	0.050	0.049	0.049	0.050	0.050	0.051	0.052	0.055	0.057	0.059	0.060	0.061	0.061	0.061	0.061	0.061	0.061	0.060	0.059	0.058	0.057	0.056	0.055	0.056	0.061	0.049
26	0.053	0.052	0.052	0.052	0.053	0.054	0.055	0.057	0.059	0.062	0.064	0.066	0.067	0.067	0.068	0.068	0.067	0.065	0.063	0.062	0.061	0.060	0.059	0.058	0.060	0.068	0.052
27	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.058	0.058	0.058	0.058	0.058	0.057	0.056	0.055	0.054	0.053	0.053	0.053	0.052	0.052	0.052	0.052	0.056	0.058	0.052
28	0.052	0.051	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.048	0.047	0.047	0.047	0.047	0.049	0.052	0.047
29	0.047	0.047	0.047	0.048	0.049	0.050	0.051	0.052	0.052	0.052	0.053	0.053	0.054	0.054	0.054	0.054	0.054	0.054	0.054	--	--	--	--	--	0.051	0.054	0.047
30	0.051	0.050	0.051	0.052	0.053	0.054	0.055	0.057	0.059	0.060	0.061	0.062	0.063	0.063	0.063	0.063	0.063	0.062	0.061	0.059	0.057	0.056	0.054	0.052	0.058	0.063	0.050
31	0.051	0.050	0.051	0.052	0.053	0.054	0.055	0.057	0.059	0.060	0.061	0.062	0.063	0.063	0.063	0.063	0.063	0.063	0.062	0.061	0.059	0.058	0.057	0.055	0.058	0.063	0.050
Avg	0.051	0.050	0.049	0.050	0.050	0.051	0.052	0.053	0.054	0.056	0.057	0.058	0.058	0.058	0.058	0.058	0.058	0.057	0.056	0.055	0.054	0.053	0.053	0.052	0.055	--	--
Max	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.059	0.062	0.064	0.066	0.067	0.067	0.068	0.068	0.067	0.065	0.063	0.062	0.061	0.060	0.059	0.058	--	0.068	--
Min	0.045	0.045	0.045	0.046	0.047	0.048	0.049	0.049	0.049	0.049	0.049	0.050	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.048	0.047	0.047	0.046	0.045	--	--	0.045

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jan 2016

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	0.036	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.031	0.031	0.032	0.034	0.035	0.036	0.036	0.036	0.033	0.030	0.028	0.028	0.027	0.027	0.028	0.028	0.032	0.037	0.027
2	0.027	0.028	0.028	0.029	0.029	0.029	0.028	0.028	0.029	0.029	0.029	0.030	0.032	0.033	0.033	0.034	0.034	0.034	0.033	0.032	0.031	0.030	0.029	0.028	0.030	0.034	0.027
3	0.028	0.028	0.028	0.027	0.026	0.025	0.026	0.027	0.027	0.026	0.027	0.029	0.030	0.032	0.034	0.028	0.034	0.035	0.035	0.035	0.034	0.032	0.031	0.031	0.030	0.035	0.025
4	0.031	0.031	0.032	0.031	0.031	0.031	0.031	0.030	0.028	0.027	0.026	0.028	0.026	0.026	0.025	0.025	0.028	0.032	0.028	0.027	0.025	0.025	0.026	0.026	0.028	0.032	0.025
5	0.027	0.026	0.026	0.025	0.023	0.023	0.024	--	--	--	--	0.029	0.029	0.029	0.027	0.027	0.027	0.026	0.027	0.027	0.032	0.038	0.041	0.041	0.029	0.041	0.023
6	0.040	0.040	0.038	0.037	0.038	0.042	0.047	0.046	0.045	0.042	0.041	0.041	0.041	0.041	0.042	0.042	0.041	0.041	0.040	0.040	0.035	0.035	0.035	0.034	0.040	0.047	0.034
7	0.033	0.036	0.041	0.039	0.038	0.038	0.037	0.038	0.038	0.038	0.038	0.040	0.044	0.045	0.042	0.042	0.041	0.042	0.040	0.040	0.039	0.043	0.044	0.044	0.040	0.045	0.033
8	0.043	0.043	0.043	0.041	0.040	0.038	0.039	0.039	0.038	0.039	0.040	0.038	0.038	0.039	0.038	0.039	0.038	0.039	0.040	0.041	0.041	0.040	0.038	0.036	0.039	0.043	0.036
9	0.031	0.039	0.040	0.038	0.039	0.038	0.033	0.029	0.029	0.032	0.034	0.036	0.038	0.039	0.039	0.039	0.039	0.040	0.038	0.036	0.027	0.030	0.028	0.030	0.035	0.040	0.027
10	0.031	0.031	0.030	0.028	0.030	0.028	0.027	0.027	0.028	0.032	0.032	0.030	0.032	0.034	0.032	0.032	0.032	0.033	0.033	0.034	0.033	0.025	0.024	0.025	0.030	0.034	0.024
11	0.026	0.024	0.025	0.034	0.038	0.037	0.036	0.035	0.035	0.034	0.036	0.038	0.039	0.039	0.040	0.040	0.040	0.038	0.037	0.033	0.037	0.035	0.034	0.035	0.035	0.040	0.024
12	0.034	0.034	0.034	0.035	0.036	0.036	0.035	0.034	0.037	0.039	0.037	0.038	0.041	0.042	0.042	0.042	0.042	0.041	0.041	0.039	0.038	0.038	0.038	0.037	0.038	0.042	0.034
13	0.035	0.034	0.036	0.037	0.037	0.038	0.035	0.034	0.035	0.036	0.036	0.034	0.036	0.036	0.035	0.036	0.035	0.034	0.032	0.031	0.030	0.031	0.033	0.034	0.035	0.038	0.030
14	0.035	0.033	0.035	0.033	0.034	0.037	0.036	0.035	0.033	0.029	0.033	0.039	0.038	0.040	0.042	0.044	0.044	0.042	0.040	0.035	0.036	0.034	0.038	0.039	0.037	0.044	0.029
15	0.039	0.038	0.038	0.034	0.034	0.034	0.032	--	--	--	0.042	0.042	0.043	0.044	0.046	0.046	0.045	0.043	0.039	0.038	0.031	0.030	0.035	0.038	0.039	0.046	0.030
16	0.033	0.036	0.035	0.033	0.031	0.031	0.031	0.029	0.031	0.032	0.038	0.039	0.039	0.041	0.041	0.042	0.042	0.041	0.037	0.041	0.040	0.038	0.038	0.040	0.037	0.042	0.029
17	0.039	0.036	0.033	0.035	0.034	0.036	0.036	0.034	0.035	0.036	0.037	0.039	0.038	0.039	0.041	0.042	0.042	0.040	0.039	0.038	0.037	0.038	0.036	0.036	0.037	0.042	0.033
18	0.035	0.034	0.033	0.033	0.032	0.031	0.031	0.030	0.031	0.032	0.034	0.037	0.038	0.038	0.038	0.038	0.039	0.040	0.038	0.036	0.032	0.036	0.033	0.036	0.035	0.040	0.030
19	0.033	0.032	0.032	0.032	0.030	0.031	0.030	0.030	0.029	0.033	0.036	0.036	0.037	0.037	0.040	0.040	0.041	0.040	0.040	0.035	0.036	0.036	0.038	0.036	0.035	0.041	0.029
20	0.037	0.035	0.033	0.035	0.035	0.038	0.038	0.036	0.035	0.037	0.041	0.041	0.040	0.041	0.043	0.043	0.043	0.042	0.040	0.037	0.034	0.032	0.032	0.029	0.037	0.043	0.029
21	0.030	0.028	0.031	0.037	0.039	0.041	0.041	0.041	0.041	0.042	0.041	0.042	0.043	0.043	0.044	0.045	0.044	0.042	0.042	0.042	0.041	0.041	0.042	0.040	0.040	0.045	0.028
22	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	--	--	0.041	0.042	0.042	0.043	0.043	0.043	0.042	0.042	0.042	0.044	0.044	0.044	0.043	0.042	0.042	0.042	0.040
23	0.042	0.042	0.041	0.042	0.041	0.040	0.039	0.039	0.039	0.038	0.037	0.037	0.041	0.043	0.043	0.043	0.042	0.042	0.040	0.035	0.037	0.038	0.040	0.038	0.040	0.043	0.035
24	0.044	0.044	0.045	0.044	0.044	0.040	0.039	0.039	0.038	0.037	0.037	0.039	0.042	0.044	0.044	0.045	0.046	0.046	0.045	0.044	0.042	0.038	0.037	0.042	0.042	0.046	0.037
25	0.039	0.038	0.037	0.039	0.033	0.035	0.028	0.032	0.034	0.038	0.037	0.039	0.041	0.043	0.043	0.044	0.044	0.045	0.044	0.043	0.038	0.041	0.039	0.042	0.039	0.045	0.028
26	0.041	0.041	0.040	0.040	0.041	0.042	0.041	0.040	0.040	0.040	0.039	0.039	0.040	0.040	0.042	0.043	0.044	--	--	--	--	--	--	--	0.041	0.044	0.039
27	--	--	0.046	0.043	0.044	0.044	0.041	0.040	0.042	0.042	0.043	0.044	0.045	0.046	0.047	0.047	0.047	0.046	--	--	--	--	0.042	0.043	0.044	0.047	0.040
28	0.044	0.040	0.039	0.038	0.042	0.042	0.041	0.040	0.041	0.040	0.040	--	--	--	--	--	--	--	0.034	0.037	0.038	0.038	0.043	0.043	0.040	0.044	0.034
29	0.043	0.038	0.038	0.037	0.038	0.037	0.037	0.037	0.036	0.038	0.041	0.044	0.044	0.044	0.045	0.047	0.047	0.045	0.039	0.040	0.041	0.043	0.043	0.045	0.041	0.047	0.036
30	0.044	0.043	0.047	0.045	0.044	0.044	0.044	0.043	0.038	0.038	0.045	0.047	0.050	0.050	0.052	0.051	0.049	0.049	0.049	0.048	0.048	0.048	0.047	0.047	0.046	0.052	0.038
31	0.047	0.047	0.046	0.046	0.046	0.046	0.046	0.045	0.045	0.044	0.045	0.045	0.045	0.045	0.045	0.043	0.042	0.043	0.040	0.038	0.036	0.035	0.034	0.035	0.043	0.047	0.034
Avg	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.035	0.037	0.036	0.037	0.038	0.039	0.040	0.040	0.040	0.040	0.040	0.038	0.037	0.036	0.036	0.036	0.037	0.037	--	--
Max	0.047	0.047	0.047	0.046	0.046	0.046	0.047	0.046	0.088	0.044	0.045	0.047	0.050	0.050	0.052	0.051	0.049	0.049	0.049	0.048	0.048	0.048	0.047	0.047	--	0.052	--
Min	0.026	0.024	0.025	0.025	0.023	0.023	0.024	0.027	0.027	0.026	0.026	0.028	0.026	0.026	0.025	0.025	0.027	0.026	0.027	0.027	0.025	0.025	0.024	0.025	--	--	0.023

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Feb 2016

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	0.040	0.043	0.045	0.045	0.044	0.043	0.044	0.044	0.043	0.044	0.043	0.042	0.042	0.041	0.041	0.041	0.041	0.041	0.041	0.040	0.040	0.037	0.034	0.033	0.041	0.045	0.033
2	0.036	0.036	0.036	0.037	0.034	0.030	0.027	0.031	0.031	0.034	0.041	0.040	0.039	0.040	0.039	0.040	0.039	0.040	0.038	0.039	0.037	0.032	0.032	0.031	0.036	0.041	0.027
3	0.031	0.028	0.028	0.029	0.029	0.032	0.030	0.030	0.033	0.038	0.038	0.040	0.040	0.039	0.042	0.044	0.044	0.043	0.039	0.040	0.041	0.041	0.040	0.041	0.037	0.044	0.028
4	0.043	0.043	0.042	0.044	0.045	0.046	0.046	0.046	0.045	0.044	0.043	0.045	0.045	0.046	0.046	0.046	0.046	0.046	0.041	0.038	0.040	0.042	0.041	0.041	0.044	0.046	0.038
5	0.044	0.045	0.046	0.046	0.046	0.047	0.047	0.047	0.046	0.046	0.046	0.046	0.047	0.047	0.047	0.048	0.047	0.047	0.046	0.046	0.046	0.045	0.046	0.045	0.046	0.048	0.044
6	0.046	0.046	0.046	0.046	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.048	0.048	0.048	0.048	0.048	0.048	0.046	0.046	0.045	0.045	0.045	0.043	0.046	0.048	0.043
7	0.043	0.043	0.042	0.044	0.044	0.044	0.042	0.042	0.043	0.042	0.043	0.043	0.044	0.045	0.047	0.048	0.049	0.049	0.049	0.047	0.038	0.043	0.045	0.044	0.044	0.049	0.038
8	0.042	0.043	0.044	0.045	0.045	0.045	0.045	0.046	0.045	0.045	0.044	0.045	0.047	0.048	0.047	0.046	0.045	0.043	0.043	0.043	0.043	0.043	0.042	0.043	0.045	0.048	0.042
9	0.042	0.041	0.042	0.043	0.042	0.040	0.041	0.041	0.041	0.040	0.041	0.043	0.046	0.046	0.046	0.046	0.046	0.045	0.043	0.039	0.041	0.042	0.045	0.044	0.043	0.046	0.039
10	0.043	0.041	0.042	0.043	0.043	0.043	0.043	0.043	0.042	0.042	0.043	0.045	0.049	0.052	0.052	0.051	0.051	0.050	0.045	0.046	0.046	0.045	0.046	0.048	0.046	0.052	0.041
11	0.046	0.045	0.043	0.043	0.041	0.040	0.038	0.038	0.039	0.040	0.040	0.043	0.044	0.045	0.046	0.049	0.049	0.051	0.050	0.047	0.047	0.046	0.044	0.040	0.044	0.051	0.038
12	0.040	0.040	0.038	0.038	0.040	0.039	0.038	0.037	0.037	0.039	0.039	0.040	0.042	0.045	0.046	0.047	0.047	0.044	0.043	0.043	0.044	0.045	0.046	0.047	0.042	0.047	0.037
13	0.045	0.043	0.044	0.043	0.043	0.044	0.044	0.043	0.042	0.042	0.041	0.042	0.045	0.046	0.047	0.050	0.052	0.054	0.054	0.051	0.047	0.046	0.047	0.046	0.046	0.054	0.041
14	0.049	0.047	0.049	0.047	0.045	0.045	0.044	0.040	0.040	0.039	0.042	0.046	0.049	0.051	0.056	0.058	0.057	0.057	0.059	0.060	0.058	0.054	0.048	0.045	0.049	0.060	0.039
15	0.046	0.044	0.044	0.043	0.040	0.040	0.041	0.040	0.041	0.041	0.041	0.041	0.042	0.042	0.043	0.045	0.047	0.048	0.045	0.044	0.039	0.036	0.038	0.038	0.042	0.048	0.036
16	0.039	0.038	0.039	0.040	0.039	0.038	0.039	0.037	0.037	0.038	0.038	0.038	0.039	0.041	0.042	0.042	0.043	0.044	0.043	0.040	0.039	0.039	0.039	0.037	0.039	0.044	0.037
17	0.038	0.039	0.039	0.040	0.039	0.038	0.036	0.034	0.034	0.036	0.040	0.042	--	--	--	0.051	0.051	0.050	0.048	0.048	0.049	0.048	0.048	0.047	0.043	0.051	0.034
18	0.047	0.047	0.048	0.047	0.047	0.046	0.046	0.045	0.035	0.042	0.045	0.046	0.046	0.046	0.046	0.047	0.047	0.045	0.044	0.042	0.043	0.040	0.037	0.035	0.044	0.048	0.035
19	0.038	0.035	0.037	0.038	0.037	0.037	0.038	0.036	0.031	0.034	0.039	0.041	0.042	0.044	0.043	0.043	0.044	0.044	0.042	0.038	0.040	0.040	0.040	0.041	0.039	0.044	0.031
20	0.040	0.041	0.042	0.042	0.041	0.041	0.041	0.041	0.036	0.036	0.038	0.039	0.043	0.045	0.047	0.048	0.050	0.052	0.052	0.050	0.046	0.045	0.043	0.043	0.043	0.052	0.036
21	0.042	0.042	0.042	0.041	0.041	0.041	0.040	0.039	0.037	0.037	0.042	0.046	0.048	0.050	0.050	0.049	0.050	0.054	0.058	0.061	0.062	0.059	0.058	0.054	0.048	0.062	0.037
22	0.050	0.044	0.047	0.044	0.048	0.048	0.044	0.042	0.049	0.050	0.049	0.049	0.051	0.052	0.053	0.054	0.053	0.052	0.051	0.050	0.047	0.045	0.049	0.053	0.049	0.054	0.042
23	0.053	0.053	0.053	0.051	0.052	0.046	0.045	0.044	0.047	0.048	0.049	0.050	0.050	0.051	0.052	0.052	0.052	0.052	0.051	0.049	0.047	0.045	0.045	0.044	0.049	0.053	0.044
24	0.043	0.042	0.043	0.045	0.043	0.042	0.042	0.041	0.042	0.042	0.044	0.046	0.048	0.049	0.050	0.052	0.054	0.055	0.053	0.052	0.046	0.047	0.050	0.049	0.047	0.055	0.041
25	0.050	0.049	0.049	0.047	0.047	0.048	0.048	0.048	0.047	0.047	0.047	0.048	0.049	0.050	0.051	0.051	0.051	0.051	0.049	0.047	0.048	0.048	0.048	0.048	0.049	0.051	0.047
26	0.048	0.048	0.048	0.049	0.051	0.051	0.051	0.050	0.049	0.049	0.050	0.051	0.053	0.054	0.054	0.053	0.054	0.054	0.052	0.050	0.050	0.049	0.048	0.050	0.051	0.054	0.048
27	0.051	0.050	0.049	0.051	0.050	0.049	0.047	0.047	0.046	0.046	0.047	0.051	0.053	0.057	0.057	0.057	0.059	0.061	0.064	0.065	0.063	0.058	0.057	0.056	0.054	0.065	0.046
28	0.058	0.058	0.059	0.059	0.059	0.059	0.059	0.057	0.050	0.059	0.059	0.059	0.059	0.060	0.060	0.060	0.059	0.060	0.061	0.061	0.060	0.059	0.058	0.050	0.058	0.061	0.050
29	0.056	0.056	0.056	0.056	0.055	0.054	0.056	--	--	--	0.057	0.058	0.059	0.058	0.058	0.057	0.057	0.058	0.058	0.058	0.057	0.054	0.052	0.054	0.056	0.059	0.052
Avg	0.044	0.044	0.044	0.044	0.044	0.044	0.043	0.042	0.041	0.042	0.044	0.045	0.047	0.048	0.048	0.049	0.049	0.050	0.048	0.048	0.047	0.045	0.045	0.044	0.045	--	--
Max	0.058	0.058	0.059	0.059	0.059	0.059	0.059	0.057	0.050	0.059	0.059	0.059	0.059	0.060	0.060	0.060	0.059	0.061	0.064	0.065	0.063	0.059	0.058	0.056	--	0.065	--
Min	0.031	0.028	0.028	0.029	0.029	0.030	0.027	0.030	0.031	0.034	0.038	0.038	0.039	0.039	0.039	0.040	0.039	0.040	0.038	0.038	0.037	0.032	0.032	0.031	--	--	0.027

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Mar 2016

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	0.053	0.050	0.045	0.048	0.047	0.046	0.046	0.043	0.042	0.048	0.051	0.052	0.053	0.055	0.054	0.053	0.055	0.056	0.055	0.055	0.051	0.053	0.051	0.049	0.050	0.056	0.042
2	0.050	0.050	0.046	0.047	0.049	0.048	0.049	0.042	0.043	0.046	0.053	0.056	0.059	0.057	0.058	0.062	0.063	0.062	0.061	0.060	0.061	0.057	0.055	0.056	0.054	0.063	0.042
3	0.052	0.053	0.050	0.051	0.051	0.049	0.050	0.048	0.046	0.050	0.055	0.057	0.057	0.058	0.060	0.059	0.059	0.060	0.064	0.062	0.059	0.059	0.059	0.056	0.055	0.064	0.046
4	0.056	0.055	0.055	0.056	0.053	0.056	0.052	0.048	0.045	0.050	0.055	--	--	--	--	--	--	--	--	--	--	--	--	--	0.053	0.056	0.045
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.061	0.063	0.063	0.059	0.060	0.059	0.059	0.060	0.063	0.059
23	0.057	0.055	0.055	0.054	0.055	0.055	0.054	--	--	--	--	--	--	--	--	--	--	--	0.055	0.056	0.055	0.054	0.052	0.048	0.054	0.057	0.048
24	0.044	0.045	0.045	0.043	0.044	0.045	0.046	0.045	0.047	0.046	0.049	0.051	0.054	0.056	0.055	0.054	0.059	0.061	0.061	0.059	0.058	0.056	0.054	0.055	0.051	0.061	0.043
25	0.055	0.056	0.054	0.051	0.051	0.050	0.049	0.040	0.047	0.052	0.054	0.055	0.056	0.057	0.059	0.061	0.062	0.064	0.064	0.062	0.060	0.058	0.058	0.059	0.056	0.064	0.040
26	0.057	0.056	0.056	0.055	0.052	0.052	0.049	0.047	0.049	0.057	0.057	0.059	0.059	0.062	0.064	0.067	0.073	0.074	0.069	0.067	0.064	0.065	0.064	0.058	0.060	0.074	0.047
27	0.059	0.061	0.058	0.057	0.056	0.055	0.056	0.056	0.057	0.059	0.059	0.058	0.057	0.057	0.058	0.058	0.060	0.058	0.057	0.055	0.052	0.052	0.050	0.049	0.056	0.061	0.049
28	0.054	0.058	0.054	0.051	0.051	0.050	0.048	0.048	0.048	0.048	0.049	0.051	0.051	0.049	0.048	0.048	0.049	0.050	0.050	0.051	0.048	0.047	0.048	0.049	0.050	0.058	0.047
29	0.048	0.047	0.046	0.045	0.044	0.046	0.047	0.049	0.051	0.049	0.052	0.053	0.053	0.053	0.053	0.053	0.054	0.054	0.055	0.055	0.056	0.054	0.053	0.051	0.051	0.056	0.044
30	0.051	0.050	0.051	0.052	0.049	0.048	0.048	0.046	0.048	0.050	0.052	0.054	0.054	0.055	0.057	0.057	0.057	0.057	0.058	0.057	0.057	0.053	0.050	0.053	0.053	0.058	0.046
31	0.053	0.050	0.052	0.052	0.052	0.051	0.047	0.047	0.051	0.057	0.058	0.060	0.061	0.062	0.062	0.060	0.062	0.065	0.065	0.064	0.063	0.064	0.062	0.061	0.058	0.065	0.047
Avg	0.053	0.053	0.051	0.051	0.050	0.050	0.049	0.047	0.048	0.051	0.054	0.055	0.056	0.056	0.057	0.058	0.059	0.060	0.060	0.059	0.057	0.056	0.055	0.054	0.054	--	--
Max	0.059	0.061	0.058	0.057	0.056	0.056	0.056	0.056	0.057	0.059	0.059	0.060	0.061	0.062	0.064	0.067	0.073	0.074	0.069	0.067	0.064	0.065	0.064	0.061	--	0.074	--
Min	0.044	0.045	0.045	0.043	0.044	0.045	0.046	0.040	0.042	0.046	0.049	0.051	0.051	0.049	0.048	0.048	0.049	0.050	0.050	0.051	0.048	0.047	0.048	0.048	--	--	0.040

-- Indicates Invalid Data

Appendix D: West Plant Meteorological Site Check Forms

AIR SCIENCES INC.

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

Date: 1/5/16 ✓ Time: 12:09 ✓ Operator: Jovan Hicks

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)		3.07	3.43 +
Direction* 10m (deg)		87.41	69.6 +
Ambient Temperature (°C)		10.8	10.9 +
Relative Humidity (%)		70.9	71.2 +
Aspirated Temp 2m		10.39	10.5 +
Aspirated Temp 10m		10.40	10.4 +
Delta Temperature (°C)	N/A	0.03	-0.07 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	92.1	146 +
Barometric Pressure (mmHg)	N/A	683.33	683 +
Battery Voltage (V)	N/A	12.4	12.6 +
Time (MST)	N/A	13:11	13:15 ~~to~~ L.T. +
Date	N/A	1/5/16	1/5/2016 +

*Direction wind is from

Comments/Unusual Occurrences or Weather: Partly ✓ 66 -

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: 2016-01-11 Time: 1615 Operator: R. ATTRIDGE

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.
X		8. The data logger is reading the correct time and day.
X		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
X		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	.5	0.81	2.97 +
Direction* 10m (deg)	NE	61.0	51.2 +
Ambient Temperature (°C)	10	11.2	11.5 +
Relative Humidity (%)	20	26.4	26.3 +
Aspirated Temp 2m	10	10.7	11 +
Aspirated Temp 10m	10	10.6	10.8 +
Delta Temperature (°C)	N/A	-0.14	-0.23 +
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	204.7	233 +
Barometric Pressure (mmHg)	N/A	688.8	689 +
Battery Voltage (V)	N/A	12.9	13 +
Time (MST)	N/A	1616	16:15 L.T. +
Date	N/A	2016-01-11	01/11/2016 +

* 0.012" of precip. invalidated @ 16:30 hrs! CG.

*Direction wind is from

Comments/Unusual Occurrences or Weather: TRIPPED RAIN GAUGE @ 1616 hrs ~~RAA~~

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

Site Operator Signature: R Attridge

AIR SCIENCES INC.

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

Date: 1-22-2016 Time: 10:47 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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5m/s	4.28	4.55 +
Direction* 10m (deg)	E	70.26	57.9 +
Ambient Temperature (°C)	19°	17.21	16.5 +
Relative Humidity (%)	15%	11.59	12.1 +
Aspirated Temp 2m	19°	16.56	15.8 +
Aspirated Temp 10m	18°	16.12	15.5 +
Delta Temperature (°C)	N/A	-0.59	0.4 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	628.20	539 +
Barometric Pressure (mmHg)	N/A	689.80	690 +
Battery Voltage (V)	N/A	12.90	12.9 +
Time (MST)	N/A	?	10:45 LTI
Date	N/A		01/22/2016 +

*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.

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

Date: 02-24-2016 ✓ Time: 3:00 ✓ 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)		3.17	2.42 ✓
Direction* 10m (deg)		255.49	93.5 ✗
Ambient Temperature (°C)	?	25.74 ?	20.1 ✗
Relative Humidity (%)		14.60	12.5 +
Aspirated Temp 2m		23.70 ?	19.3 ✗
Aspirated Temp 10m		24.4 ?	18.6 ✗
Delta Temperature (°C)	N/A	0.57	-0.675 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	211.50 ?	641 ✗
Barometric Pressure (mmHg)	N/A	683.80	687 +
Battery Voltage (V)	N/A	12.80	12.9 +
Time (MST)	N/A	3:02	15:00 - L.T. +
Date	N/A	02/24/2016	2/24/16 +

WD
53.4 - 14:30
44.8 - 14:45
47.7 - 15:15
91 - 15:30

AmbT
19.7 - 14:30
19.6 - 14:45
20.1 - 15:15
20.2 - 15:30

AspT 2m
18.5 - 14:30
18.6 - 14:45
19 - 15:15
18.2 - 15:30

AspT 10m
18 - 14:30
18.2 - 14:45
18.6 - 15:15
18.7 - 15:30

SR
699 - 14:30
679 - 14:45
600 - 15:15
556 - 15:30

*Direction wind is from

Comments/Unusual Occurrences or Weather: GG.

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: 2-29-16 Time: 07:14 Operator: Jovan Hicks

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)		0.92	1.06 +
Direction* 10m (deg)		298.67	282 +
Ambient Temperature (°C)	?	14.03	14.3 +
Relative Humidity (%)	-	25.2%	24.8 +
Aspirated Temp 2m		13.21°	13.2 +
Aspirated Temp 10m		15.23°	15.4 +
Delta Temperature (°C)	N/A	2.03°	2.17 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	?	9 +
Barometric Pressure (mmHg)	N/A	685.95	686 +
Battery Voltage (V)	N/A	11.90	11.9 +
Time (MST)	N/A	07:17	07:15 L.T. +
Date	N/A	2-29-16	2/29/16 +

66

*Direction wind is from

Comments/Unusual Occurrences or Weather: filled evap tank

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

Date: 03.03.2016 Time: 10:20 Operator: K. Bollard

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)	3m/s	3.07	2.43 +
Direction* 10m (deg)	SE	159.13	143 +
Ambient Temperature (°C)	25°	24.16	23.7 +
Relative Humidity (%)	15%	13.67	14.7 +
Aspirated Temp 2m	25°	23.11	22.1 +
Aspirated Temp 10m	24°	23.23	22 +
Delta Temperature (°C)	N/A	-0.74	-0.138 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	715.61	667 +
Barometric Pressure (mmHg)	N/A	687.43	687 +
Battery Voltage (V)	N/A	12.81	12.8 +
Time (MST)	N/A	10:22	10:15 LT +
Date	N/A	03/03/2016	3/3/16 +

*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 B. Ollard

AIR SCIENCES INC.

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

Date: 3-18-16 ✓ Time: 7:23 ✓ Operator: Jovan Hicks

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)		0.20	0.69 +
Direction* 10m (deg)		24.7	79.9 +
Ambient Temperature (°C)		15.5°C	15.9 +
Relative Humidity (%)		16%	15.4 +
Aspirated Temp 2m		14.1°C	14.9 +
Aspirated Temp 10m		16.1°C	16.3 +
Delta Temperature (°C)	N/A	2.0	1.4 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	682.74	83.27 65 +
Barometric Pressure (mmHg)	N/A	↓	683 +
Battery Voltage (V)	N/A	12.2	12.2 +
Time (MST)	N/A	7:26	07:30 L.T. +
Date	N/A	3-18	03/18/16 +

66.6 - 7:00
66.6 - 7:15
312 - 7:45
313 - 8:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap ✓

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

Site Operator Signature: [signature]

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC

Date: 3-21-2016 ✓ Time: 1335 ✓ Operator: R. ARRIDGE

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.
X		8. The datalogger is reading the correct time and day.
X		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
X		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2	2.4	4.34 +
Direction* 10m (deg)	South	170.7	205 *
Ambient Temperature (°C)		29.8	30.2 +
Relative Humidity (%)		7.8	7.61 +
Aspirated Temperature 2m		28.5	28.9 +
Aspirated Temperature 10m		27.1	27.5 +
Delta Temperature (°C)	N/A	-0.97	-1.36 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	896.4	886 +
Barometric Pressure (mmHg)	N/A	685.5	686 +
Battery Voltage (V)	N/A	12.8	12.8 +
Time (MST)	N/A	1338	13:45 L.T. +
Date	N/A	2016-03-21	1335 03/21/16 +

220 - 13:15
220 - 13:30
240 - 14:00
257 - 14:15

*Direction wind is from

Comments/Unusual Occurrences or Weather: TRIGGERED RAIN GAUGE *
* 0.028" of precip. invalidated @ 13:45 hrs!
GG

Site Operator Signature: [signature]

AIR SCIENCES INC.

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

Date: 03-31-16 ✓ Time: 11:50 am ✓ Operator: Paul Maduena

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)	2 m/s	2.25	5.72 +
Direction* 10m (deg)	SW	182.96	234 ✱
Ambient Temperature (°C)	15°	15.25°	15.2 +
Relative Humidity (%)	25 %	21.01%	22.6 +
Aspirated Temp 2m	15°	14.29°	14.2 +
Aspirated Temp 10m	14°	13.76°	13.7 +
Delta Temperature (°C)	N/A	-0.22	-0.46 +
Solar Radiation (w/m²)	Sunny Partly cloudy (Cloudy)	485.17	595 +
Barometric Pressure (mmHg)	N/A	682.70	683 +
Battery Voltage (V)	N/A	12.95	13 +
Time (MST)	N/A	11:53	12:00 L.T. +
Date	N/A	03-31-16	03/31/16 +

268 - 11:30
250 - 11:45
225 - 12:15
234 - 12:30

*Direction wind is from ✱ 0.059" of precip. invalidated @ 12:15 hrs! GG

Comments/Unusual Occurrences or Weather: filled evap. pan + tipped precip gauge ✱

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

Site Operator Signature: Paul Maduena

Appendix E: West Plant PM10 and $PM_{2.5}$ Site Check Forms and Flow Audits

WEST PLANT

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

AIR SCIENCES INC.

Date: 1/5/16 Time: 13:43 Operator: Jovm Hilks

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). 1/5 Bam cal 5% mem
✓		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: changed tape

PM10 data invalidated from 14:00 hrs on 1/5/16 through 17:00 hrs on 1/11/16 due to operator error

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: 1/5/16 Time: 13:52 Operator: Jovan Pirly

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). 1/5 tape ~~breaking~~ 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.*

GG

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.*

GG

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: Tape changed *

* PM 2.5 data invalidated from 10:00 hrs on 1/2/16 through 14:00 hrs on 1/5/16 due to broken tape! GG

Signature:

**Fax completed form 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.
DENVER • PORTLAND

Date: 2016-01-11 Time: 1618 Operator: R. ATTRIDGE

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
X		1. The sampler is intact and the inlet head is unobstructed.
	X	2. The vacuum pump is running and sounds normal.
X		3. The temperature shield is intact, and the sensor is inside of it.
X		4. The BAM is reading the correct time and day.
X		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
X		6. Error log was checked (F3), and errors followed up on (see manual).
X		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	
	X	1. Inlet Flow check Performed
X		2. Visual inspection and dust removal
	X	3. Leak check performed
X		4. PM10 particle trap cleaned
	X	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	
	X	1. Filter tape replaced
	X	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	
	X	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	
	X	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	X	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: BAM REPORTING "PUMP ERRORS" AS FOUND. DISCOVERED FLOW LINE DISCONNECTED FROM PUMP. RECONNECTED AND PERFORMED SELF TEST. NO OTHER ISSUES FOUND - RPA

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.
DENVER • PORTLAND

Date: 2016-01-11 Time: ~~1024~~ 1624 Operator: R. ATTREAGE

I. BAM SAMPLER – Weekly Checks.

YES	NO	
X		1. The sampler is intact and the inlet head is unobstructed.
X		2. The vacuum pump is running and sounds normal.
X		3. The temperature shield is intact, and the sensor is inside of it.
X		4. The BAM is reading the correct time and day.
X		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
X		6. Error log was checked (F3), and errors followed up on (see manual).
X		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	
	X	1. Inlet Flow check Performed
X		2. Visual inspection and dust removal
	X	3. Leak check performed
X		4. PM10 and 2.5 cyclone particle trap cleaned
	X	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	
	X	1. Filter tape replaced
	X	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	
	X	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	X	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	
	X	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	X	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: NONE NOTED

* PM2.5 conc. + flow invalidated @ 17:00 hrs! 66-

Signature: [signature]

**Fax completed form 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: 01/22/2016 Time: 10 : 51 Operator: K BaCl

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.*

GG.

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.*

GG.

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.*

GG.

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.*

GG.

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: Kam BaCl

**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: 01/22/2014 Time: 10:52 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.*

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	
	✓	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: _____

Signature: Kim B. C

**Fax completed form 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: 02/24/2016 Time: 2:56 Operator: Kane Balled

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). 2/18 ⇒ BAM Cal
✓		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.*

66 -

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.*

66 -

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.*

66 -

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.*

66 -

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: _____

**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: 02/24/2016 Time: 2:57 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). 2/18 Bam Cal
✓		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.*

66

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.*

66

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.*

66

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.*

66

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

WEST PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 2-29-16 Time: 07:14 Operator: Joan Hinkes

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). 2/29 Bam Cal mem 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.*

66.

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.*

66.

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.*

66.

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.*

66.

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: Changed tape ✓

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: 2-29-16 Time: 07:28 Operator: Jovan Hinley

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). 2/29 Bam Cal mon 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.*

66 -

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.*

66 -

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.*

66 -

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.*

66 -

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: Changed tape

Signature: [signature]

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

~~EAST~~ West PLANT

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

AIR SCIENCES INC.
DENVER • PORTLAND

Date: 03-03-2016 Time: 10:21 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). 3/03 → BAM Cal
✓		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.*

GG.

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.*

GG.

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: PM10 conc. + flow invalidated @ 11:00 hrs!

GG.

Signature: Karen Ballard

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

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: S/N:

Date of Flow Audit: 03/03/2014

Time of Flow Audit: 10:25

	BAM	STD
Ambient Temperature (AT) °c	25.1	24.7
Berometric Pressure mmHg	688	685

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.02	0.1
Acceptable Differential		***14.700 - 15.300***	***+/- 2%***	***14.250 - 15.750***	***+/- 5%***
(2) Actual Flow	18.4	18.4	0	18.53	0.7
Acceptable Differential		***18.032 - 18.768***	***+/- 2%***	***17.480 - 19.320***	***+/- 5%***
(3) Actual Flow	16.7	16.7	0	16.81	0.6
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:

Signature: Kami Ballard

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

West
~~EAST~~ PLANT
BAM PM 2.5 WEEKLY SITE CHECK FORM
RESOLUTION MONITORING PROJECT
PROJECT NO. 262-1

AIR SCIENCES INC.

Date: 03/03/2014 Time: 10:12 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). 3/03 → BAM Cal
✓		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	
	✓	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: PM 2.5 conc. + flow invalidated @ 11:00 hrs!

Signature: Kam B

**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: S/N:

Date of Flow Audit: 03/03/2016

Time of Flow Audit: 10:24

	BAM	STD
Ambient Temperature (AT) °c	25.5	24.7
Berometric Pressure mmHg	1086	685

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.22	1.4
Acceptable Differential		***14.700 - 15.300***	***+/- 2%***	***14.250 - 15.750***	***+/- 5%***
(2) Actual Flow	18.4	18.4	0	18.59	1
Acceptable Differential		***18.032 - 18.768***	***+/- 2%***	***17.480 - 19.320***	***+/- 5%***
(3) Actual Flow	16.7	16.7	0	16.91	1.2
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	0.0	**Should be < 1.0 LPM**

Comments/Abnormalities: 66.

Signature: Kami Ballard

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: 3-18-16 Time: 7:20 Operator: Jovan Hinty

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). 3/18 Bam cal mem 3½
✓		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.*

66

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.*

66

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.*

66

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.*

66

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: [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: 3-18-15 Time: 7:00 Operator: Jason Hicks

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). 3/15 Bam Cal Mem 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	
	✓	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	
	✓	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: _____

Signature: _____

**Fax completed form 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: 03-31-16 Time: 11:55 am Operator: Paul Madueno

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). 03/31 → 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.*

66.

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.*

66.

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.*

66.

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.*

66.

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: * PM10 cons. flow invalidated for 13:00 hrs! 66.

Signature: Paul Madu

**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: 03-31-16 Time: 12:00 pm Operator: Paul Maduena

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 3/31
✓		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.*

66.

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.*

66.

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.*

66.

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.*

66.

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: Paul Maduena

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

Appendix F: East Plant Meteorological Site Check Forms

AIR SCIENCES INC.

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

Date: 2016-01-11 Time: 1652 Operator: R. ATTRIDGE

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.
X		8. The data logger is reading the correct time and day.
X		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
X		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4	3.27	3.22 +
Direction* 10m (deg)	NE	49.0	48.8 +
Ambient Temperature (°C)	10	6.7	6.7 +
Relative Humidity (%)	25	35.7	35.1 +
Aspirated Temp 2m	10	6.5	6.5 +
Aspirated Temp 10m	10	6.7	6.7 +
Delta Temperature (°C)	N/A	0.22	0.2 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	23.95	53.7 +
Barometric Pressure (mmHg)	N/A	656.0	656 +
Battery Voltage (V)	N/A	12.35	12.5 +
Time (MST)	N/A	16:54	17:00 L.T. +
Date	N/A	2016-01-11	1/11/2016 +

* 0.15" of precip. in solidated @ 17:00 hrs! GG

*Direction wind is from

Comments/Unusual Occurrences or Weather: NEAR SUNSET CONDITIONS, TRIGGERED RAIN GAUGE @ * 1656 hrs -

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

Site Operator Signature:

AIR SCIENCES INC.

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

Date: 01.22.2016 ✓ Time: 11:13 ✓ 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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	7 m/s	8.36	8.36 +
Direction* 10m (deg)	E	49.68	49.7 +
Amblent Temperature (°C)	13°	11.93	11.9 +
Relative Humidity (%)	15°	18.33	18.3 +
Aspirated Temp 2m	13°	11.84	11.8 +
Aspirated Temp 10m	12°	11.07	11.0 +
Delta Temperature (°C)	N/A	-0.84	-0.84 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	667.70	668 +
Barometric Pressure (mmHg)	N/A	657.50	658 +
Battery Voltage (V)	N/A	12.94	12.9 +
Time (MST)	N/A	?	11:15 L.T. +
Date	N/A	?	01/22/2016 +

*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: Kami Ball

AIR SCIENCES INC.

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

Date: 02-17-2016 Time: 11:42 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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2 m/s	2.45	3.25 +
Direction* 10m (deg)	S	173.90	127 ✱
Ambient Temperature (°C)	24°	22.84	22.3 +
Relative Humidity (%)	15%	13.97	13.9 +
Aspirated Temp 2m	24°	22.24	21.9 +
Aspirated Temp 10m	23°	21.15	20.7 +
Delta Temperature (°C)	N/A	-1.27	-1.19 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	804.93	799 +
Barometric Pressure (mmHg)	N/A	653.47	654 +
Battery Voltage (V)	N/A	12.72	12.8 +
Time (MST)	N/A	11:44	11:45 L.T. +
Date	N/A	?	2/17/16 +

129 - 11:15
117 - 11:30
133 - 12:00
143 - 12:15

66 -

*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: 02-24-2016 ✓ Time: 2:51 ✓ 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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4m/s	5.83	6.11 +
Direction* 10m (deg)	NE	28.62	43.5 +
Ambient Temperature (°C)	17°	15.41	15.6 +
Relative Humidity (%)	15%	15.60	16 +
Aspirated Temp 2m	17°	15.36	15.7 +
Aspirated Temp 10m	16°	14.39	14.6 +
Delta Temperature (°C)	N/A	-0.96	-1.17 +
Solar Radiation (w/m²)	Sunny - Partly cloudy Cloudy	656.54	649 +
Barometric Pressure (mmHg)	N/A	654.56	655 +
Battery Voltage (V)	N/A	12.88	12.9 +
Time (MST)	N/A	2:53	15:00 L.T. +
Date	N/A	02-24-2016	2/24/16 +

Direction wind is from

Comments/Unusual Occurrences or Weather: Filled evap pan ✓ 66

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

Site Operator Signature: Karen Ballard

827-0448

AIR SCIENCES INC.

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

Date: 03.03.2016 Time: 2:14 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.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	2m/s	1.33	1.48 +
Direction* 10m (deg)	NW	310.58	282 +
Ambient Temperature (°C)	25°	23.43	24.1 +
Relative Humidity (%)	15°	12.10	12 +
Aspirated Temp 2m	25°	22.38	22.8 +
Aspirated Temp 10m	24°	21.71	21.9 +
Delta Temperature (°C)	N/A	-0.72	-0.88 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	486.15	658 +
Barometric Pressure (mmHg)	N/A	654.51	655 +
Battery Voltage (V)	N/A	12.73	12.7 +
Time (MST)	N/A	2:14	14:15 L.T. +
Date	N/A	3/03/2016	3/3/16 +

52 - 13:45
319 - 14:00
293 - 14:30
288 - 14:45

680 - 13:45
642 - 14:00
550 - 14:30
791 - 14:45

66 -

*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: 03-17-2016 Time: 8:45 Operator: K. BaCl C

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)	2ms	1.53	1.58 +
Direction* 10m (deg)	E	103.24	104 +
Ambient Temperature (°C)	20°	18.21	17.7 +
Relative Humidity (%)	15%	14.07	13.7 +
Aspirated Temp 2m	20°	16.98	16.4 +
Aspirated Temp 10m	19°	16.54	15.9 +
Delta Temperature (°C)	N/A	-0.58	-0.57 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	515.06	472 +
Barometric Pressure (mmHg)	N/A	652.17	652 +
Battery Voltage (V)	N/A	12.87	12.9 +
Time (MST)	N/A	8:48	08:45 L.T. +
Date	N/A	03-17/2016	03/17/16 +

*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: Kam

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC

Date: 3-22-2016 Time: 0908 Operator: R. ARRIESAE

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.
X		8. The datalogger is reading the correct time and day.
X		9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
X		10. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	5	3.3	4.78 +
Direction* 10m (deg.)	S-SW	226.5	224 +
Ambient Temperature (°C)	20	17.5	17.3 +
Relative Humidity (%)	15	18.9	19.2 +
Aspirated Temp 2m	20	16.9	16.9 +
Aspirated Temp 10m	20	16.4	16.2 +
Delta Temperature (°C)	N/A	-0.54	-0.67 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	629.4	614 +
Barometric Pressure (mmHg)	N/A	651.0	651 +
Battery Voltage (V)	N/A	12.3	12.8 +
Time (MST)	N/A	0910	09:15 L.T. +
Date	N/A	2016-22-03	03/22/16 +

*Direction wind is from

* 0.071" of precip. invalidated @ 09:15 hrs! GG

Comments/Unusual Occurrences or Weather: Triggered rain gauge, change logger lithium battery — RRA

Site Operator Signature: [signature]

AIR SCIENCES INC.

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

Date: 03-31-16 Time: 2:15 pm Operator: Paul Maduena

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)	3 m/s	3.07	5.51 +
Direction* 10m (deg)	NE	312.345	535 ★
Ambient Temperature (°C)	16.11°	12.25°	11.8 +
Relative Humidity (%)	20%	31%	32 +
Aspirated Temp 2m	14°	11.52°	10.8 +
Aspirated Temp 10m	13°	9.96°	9.82 +
Delta Temperature (°C)	N/A	-1.13°	-1 +
Solar Radiation (w/m²)	Sunny (Partly cloudy) Cloudy	765.18	633 ★
Barometric Pressure (mmHg)	N/A	649.807	650 +
Battery Voltage (V)	N/A	12.92	12.8 +
Time (MST)	N/A	2:27pm	14:30 L.T. +
Date	N/A	03-31-16	03/31/16 +

285 - 14:00
335 - 14:15
301 - 14:45
284 - 15:00

451 - 14:00
329 - 14:15
830 - 14:45
781 - 15:00

*Direction wind is from ★ No precip. recorded! EG.

Comments/Unusual Occurrences or Weather: filled evap. pan. ✓ tipped precip gauge. ★ evap. pan overflowed. ✓

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

Site Operator Signature: Paul Maduena

Appendix G: East Plant PM_{10} and $PM2_{.5}$ 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: 2016-01-11 Time: 1654 Operator: R. ATTRIDGE

I. BAM SAMPLER – Weekly Checks.

YES	NO	
X		1. The sampler is intact and the inlet head is unobstructed.
X		2. The vacuum pump is running and sounds normal.
X		3. The temperature shield is intact, and the sensor is inside of it.
X		4. The BAM is reading the correct time and day.
X		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
X		6. Error log was checked (F3), and errors followed up on (see manual).
X		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	
	X	1. Inlet Flow check Performed
X		2. Visual inspection and dust removal
	X	3. Leak check performed
X		4. PM10 particle trap cleaned
	X	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	
	X	1. Filter tape replaced
	X	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	
	X	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	X	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	
	X	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	X	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: LAST REPORTED ERROR WAS ON 12/30 - DENSITY ERROR

* PM10 conc + flow invalidated @ 17:00 hrs! G.O.

Signature:

**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: 2016-01-11 Time: 1702 Operator: R. ATTRIDGE

I. **BAM SAMPLER** – Weekly Checks.

YES	NO	
X		1. The sampler is intact and the inlet head is unobstructed.
	X	2. The vacuum pump is running and sounds normal.
X		3. The temperature shield is intact, and the sensor is inside of it.
	X	4. The BAM is reading the correct time and day.
	X	5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
X		6. Error log was checked (F3), and errors followed up on (see manual).
X		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	
	X	1. Inlet Flow check Performed
X		2. Visual inspection and dust removal
	X	3. Leak check performed
X		4. PM10 and 2.5 cyclone particle trap cleaned
	X	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	
X		1. Filter tape replaced
X		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	
	X	1. Replaced muffler on the pump (*Work performed by Air Sciences)
	X	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	
	X	1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences)
	X	2. Inlet system cleaned (*Work performed by Air Sciences)

**Comments/Unusual Occurrences: BAM WAS REPORTING TAPE ERRORS AS FOUND. Replaced sample tape - RPA

Signature:

**Fax completed form 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: 01·22·2016 Time: 11:16 Operator: K. BaCCand

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.*

6.6.

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.*

6.6.

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.*

6.6.

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.*

6.6.

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 BaCCand

**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: 01·22·2014 Time: 11:14 Operator: K 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).
✓		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.*

66

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.*

66

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.*

66

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.*

66

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: Kami Bellard

**Fax completed form 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: 02.17.2016 Time: 11:11 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). 01/26 → 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.*

66-

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.*

66-

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.*

66-

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.*

66-

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.
DENVER · PORTLAND

Date: 02-17-2016 Time: 11:09 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). 1/26 → BAM Cal
✓		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.*

66

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.*

66

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.*

66

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.*

66

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

AIR SCIENCES INC.

Date: 2/24/16 Time: 2:54 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). 01/26 → 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.*

66 -

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.*

66 -

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.*

66 -

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.*

66 -

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: 02/28/2014 Time: 2:55 Operator: K. Bolend

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). 1/24 → BAM Cal
✓		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.*

66

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.*

66

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.*

66

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.*

66

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: K. Bolend

**Fax completed form 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.
DENVER • PORTLAND

Date: 03·03·2016 ✓ Time: 2:15 ✓ Operator: Kam Bold

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). 1/26 → Maint. ✓
✓		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.* G.G.

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.* G.G.

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: PM10 conc + flow invalidated for 15:00 hrs! G.G.

Signature: Kam Bold

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

AIR SCIENCES INC.

DENVER • PORTLAND

Monthly Flow Verification $PM_{\cancel{2.5}}$ 10

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One $PM_{2.5}$: S/N: M8714

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 3/03/2016

Time of Flow Audit: 2:20

	BAM	STD
Ambient Temperature (AT) °c	23.6	24.7
Berometric Pressure mmHg	655	654

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.1	0.7	15.10	0
Acceptable Differential		***14.700 - 15.300***	***+/- 2%***	***14.250 - 15.750***	***+/- 5%***
(2) Actual Flow	18.4	18.4	0	18.48	-0.4
Acceptable Differential		***18.032 - 18.768***	***+/- 2%***	***17.480 - 19.320***	***+/- 5%***
(3) Actual Flow	16.7	16.7	0	16.80	-0.6
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	0.5	**Should be < 1.0 LPM**

Comments/Abnormalities: Passed GG.

Signature: Kam Ballard

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.
DENVER • PORTLAND

Date: 3/03/2014 Time: 2:18 Operator: K. 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). 1/26 → BAM Cal
✓		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.*

GG -

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.*

GG -

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: PM 2.5 cont + flow invalidated for 15:00 hrs!
GG -

Signature: Kathy Bell

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

AIR SCIENCES INC.

Monthly Flow Verification PM~~10~~ 2.5

East Plant

PARTICULATE MONITORING PROJECT

PROJECT NO. 262-1

Met One PM_{10}: S/N: 4466

Firmware:

Calibrator: Delta Cal S/N:

Date of Flow Audit: 03-03-2016

Time of Flow Audit: 2:21

	BAM	STD
Ambient Temperature (AT) °c	23.1	23.6
Berometric Pressure mmHg	653	654

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	14.96	0.3
Acceptable Differential		***14.700 - 15.300***	***+/- 2%***	***14.250 - 15.750***	***+/- 5%***
(2) Actual Flow	18.4	18.3	0.5	18.32	0
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.6	0.6	16.60	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	0.4	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed

Signature: Karen BaCard

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.
DENVER • PORTLAND

Date: 3·17·16 Time: 8:50 Operator: K Ball

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). 3/17 -> 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.*

GG

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.*

GG

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.*

GG

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: Self Test "Passed"

Signature: Karen Ball

**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: 3/17/16 Time: 8:53 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). 3/11 → Power Fail
✓		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	
	✓	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: _____

Signature: Karus Ballard

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

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 3-22-2016 Time: 0929 Operator: R. ATTRESCHE

I. BAM SAMPLER – Weekly Checks.

YES	NO	
X		1. The sampler is intact and the inlet head is unobstructed.
X		2. The vacuum pump is running and sounds normal.
X		3. The temperature shield is intact, and the sensor is inside of it.
X		4. The BAM is reading the correct time and day.
X		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
X		6. Error log was checked (F3), and errors followed up on (see manual).
X		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 BAM manual.*

YES	NO	
X		1. Inlet Flow check performed
X		2. Visual inspection and dust removal
X		3. Leak check performed
X		4. PM_{10} particle trap cleaned
X		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 BAM manual.*

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

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

YES	NO	
	X	1. Replaced muffler on the pump (*Work performed by Air Sciences)
X		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 BAM manual.*

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

Comments/Unusual Occurrences: ~~Replaced Sump~~ Monitor BP valve "as found" well below the Standard. RPA

Signature: [signature]

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC

Date: 3-22-2016 Time: 0935 Operator: R. ARRIAGE

I. BAM SAMPLER – Weekly Checks.

YES	NO	
X		1. The sampler is intact and the inlet head is unobstructed.
X		2. The vacuum pump is running and sounds normal.
X		3. The temperature shield is intact, and the sensor is inside of it.
X		4. The BAM is reading the correct time and day.
X		5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
X		6. Error log was checked (F3), and errors followed up on (see manual).
X		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 BAM manual.*

YES	NO	
X		1. Inlet Flow check performed
X		2. Visual inspection and dust removal
X		3. Leak check performed
X		4. PM_{10} particle trap cleaned
X		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 BAM manual.*

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

III. BAM SAMPLER – Routine Maintenance (semi-annual). Check YES if maintenance was performed during this visit. *See BAM manual.*

YES	NO	
	X	1. Replaced muffler on the pump (*Work performed by Air Sciences)
X		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 BAM manual.*

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

Comments/Unusual Occurrences: Replaced Sample Tape

Signature: [signature]

EAST PLANT

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

AIR SCIENCES INC.
DENVER • FORT LAMAR

Date: 03-31-16 Time: 2:30 pm Operator: Paul Madrano

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). Maintenance 03-21-16
✓		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.*

6.6

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.*

6.6

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.*

6.6

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.*

6.6

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: Paul Madrano

**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: 03-31-16 Time: 2:37 pm Operator: Paul Madueno

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). - Maintenance 03-21-16
✓		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.*

66.

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.*

66.

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.*

66.

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.*

66.

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: Paul Madueno

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

Appendix H: East Plant SO_2, NO_x, and O_3 Site Check and Audit Forms

East Plant

SO_2 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	0730
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Calibration Stop Time	1015
Date: 1-5-16			T100 Analyzer Range	500ppb
	NIST-Traceable Gas Conc.	40ppm	Shelter Temperature (5-40°C)	26.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	0.046	0.05	Zero Drift ≤ ± 1.5 %	0.05
400 ppb	400	398.6	0.6	Span Drift ≤ ± 10 %	400.06

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.05	0.15	± 2 ppb	NO
400 ppb	400.06	400.80	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	588	Sample Press. (Ambient ± 2 in-Hg)	27.1
UV Lamp (1000 - 4800 mV)	3543.7	Lamp Ratio (30 - 120%)	110.8
Slope (1 ± 0.3)	0.787	BOX Temp. (Ambient ± 5°C)	34.6
Offset (< 250 mV)	33.9	HVPS (400 - 900 V)	614

Operator Comments:

Sample Flow is low - check for leaks

Operator Signature:

East Plant

O_3 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. Attreiker	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	0730
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Calibration Stop Time	0955
Date: 1-5-16			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40°C)	26.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	-0.5	0.3	Zero Drift ≤ ± 1.5 %	0.3
400 ppb	400	394.4	0.3	Span Drift ≤ ± 7 %	398.7

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.3	0.5	± 2 ppb	NO
400 ppb	398.7	397.4	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	746	Sample Temp. (10 - 50°C)	43.6
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (10 to 50°C)	30.5
Slope (1 ± 0.15)	1.137	O_3 Measure (2500 - 4800 mV)	2715.9
Offset (0.0 ± 5 ppb)	-1.4	O_3 Reference (2500 - 4800 mV)	2716.4

Operator Comments:

Operator Signature:

R Attreiker

East Plant

NO_X Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: K. Armenage	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	0730
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Calibration Stop Time	1035
Date: 1-5-16			T200 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	26.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Final NO_X / Zero Response
Zero Air	0.0	0.0	-0.9	0.2	0.2	Zero Drift ≤ ± 1.5 %	-0.1
400 ppb	400	390.1	1.7	391.7	0.2	Span Drift ≤ ± 10 %	399.2

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.0	NO	-0.2	± 2 ppb	NO
	NO_2	-0.1	NO_2	-0.4		
	NO_x	-0.1	NO_x	-0.2		
400 ppb	NO	398.6	NO	398.5	± 2 ppb	NO
	NO_2	0.4	NO_2	0.4		
	NO_x	399.2	NO_x	399.1		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	473	Moly Temp. (315 ± 5°C)	315.3
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.054	NO Slope (1 ± 0.3)	1.063
NO_X Offset (-50 to 150)	1.8	NO Offset (-50 to 150)	0.4

Operator Comments:

Adjust time drift by 2 min

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Armindez	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	0700
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Verification Stop Time	0900
Date: 1-15-16			T100 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	26.6

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.081	0.03	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	402.3	0.3	Span Drift ≤ ±10 %	NO

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.081	0.071	± 2 ppb	NO
400 ppb	402.3	403.3	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	599	Sample Press. (Ambient ± 2 in-Hg)	27.1
UV Lamp (1000 - 4800 mV)	3557.8	Lamp Ratio (30 - 120%)	111.3
Slope (1 ± 0.3)	6.787	BOX Temp. (Ambient ± 5°C)	34.2
Offset (< 250 mV)	33.9	HVPS (400 - 900 V)	614

Operator Comments:

Operator Signature:

East Plant

O_3 Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRINGE	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	0700
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Verification Stop Time	0954
Date: 1-15-16			T400 Analyzer Range	500ppb
			Shelter Temperature (5-40°C)	26.6

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.1	0.5	Zero Drift ≤ ±1.5 %	NO
400 ppb	400	393.7	0.4	Span Drift ≤ ±7 %	NO

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	0.3	± 2 ppb	NO
400 ppb	393.7	394.3	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	740	Sample Temp. (10 - 50°C)	43.1
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	30.3
Slope (1 ± 0.15)	1.137	O_3 Measure (2500 - 4800 mV)	2710.2
Offset (0.0 ± 5 ppb)	-1.4	O_3 Reference (2500 - 4800 mV)	2711.1

Operator Comments:

Steady drop in Sample flow
- Pump may require refurbishment during next maint. service

Operator Signature:

RA

East Plant

NO_X Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	0700
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Verification Stop Time	0813
Date: 1-15-16			T200 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	26.6

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.1	0.2	0.3	0.0	Zero Drift ≤ ± 1.5 %	No
400 ppb	400	391.6	-1.5	390.2	0.5	Span Drift ≤ ± 10 %	No

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.1	NO	0.06	± 2 ppb	No
	NO_2	0.2	NO_2	0.01		
	NO_x	0.3	NO_x	0.08		
400 ppb	NO	391.6	NO	391.7	± 2 ppb	No
	NO_2	-1.5	NO_2	-1.9		
	NO_x	390.2	NO_x	390.0		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	481	Moly Temp. (315 ± 5°C)	314.6
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.054	NO Slope (1 ± 0.3)	1.063
NO_X Offset (-50 to 150)	1.8	NO Offset (-50 to 150)	0.4

Operator Comments:

Operator Signature:

East Plant

O_3 Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	0815
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Verification Stop Time	0857
Date: 1-22-16			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40°C)	26.3

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	-0.1	0.3	Zero Drift ≤ ±1.5 %	0.3
400 ppb	400	391.1	0.4	Span Drift ≤ ±7 %	390.8

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.3	0.8	± 2 ppb	NO
400 ppb	390.8	390.6	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	733	Sample Temp. (10 - 50°C)	42.3
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	29.5
Slope (1 ± 0.15)	1.137	O_3 Measure (2500 - 4800 mV)	2710.0
Offset (0.0 ± 5 ppb)	-1.2	O_3 Reference (2500 - 4800 mV)	2711.4

Operator Comments:

Sample Flow is getting low

PARTICLE FILTER SWAP IS DUE

Operator Signature:

East Plant

NO_X Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTREJOE	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	0815
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Calibration Stop Time	1013
Date: 1-22-16			T200 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	26.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Final NO_X / Zero Response
Zero Air	0.0	-0.3	-0.8	-1.2	0.1	Zero Drift ≤ ±1.5 %	-0.0
400 ppb	400	376.2	-1.8	374.8	0.5	Span Drift ≤ ±10 %	405.4

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.0	NO	-0.2	± 2 ppb	NO
	NO_2	-0.0	NO_2	-0.2		
	NO_x	-0.0	NO_x	-0.8		
400 ppb	NO	406.0	NO	406.1	± 2 ppb	NO
	NO_2	-0.5	NO_2	-1.0		
	NO_x	405.4	NO_x	405.3		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	486	Moly Temp. (315 ± 5°C)	315.3
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.127	NO Slope (1 ± 0.3)	1.128
NO_X Offset (-50 to 150)	3.3	NO Offset (-50 to 150)	0.1

Operator Comments:

NON TYPICAL STB VALUES NOTED DURING SPAN ACTIVITIES, SAMPLE LINE MAY REQUIRE INSPECTION AND PARTICLE FILTER CHANGE REQUIRED

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	0815
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	816	Calibration Stop Time	0923
Date: 1-22-16			T100 Analyzer Range	500ppb
	NIST-Traceable Gas Conc.	40ppm	Shelter Temperature (5-40°C)	26.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	0.008	0.018	Zero Drift ≤ ± 1.5 %	0.033
400 ppb	399	399.9	0.4	Span Drift ≤ ± 10 %	400.1

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.033	0.397	± 2 ppb	NO
400 ppb	400.1	401.1	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	591	Sample Press. (Ambient ± 2 in-Hg)	27.4
UV Lamp (1000 - 4800 mV)	3557.0	Lamp Ratio (30 - 120%)	111.3
Slope (1 ± 0.3)	0.787	BOX Temp. (Ambient ± 5°C)	33.8
Offset (< 250 mV)	33.8	HVPS (400 - 900 V)	614

Operator Comments:

PARTICLE FILTER CHANGE DUE

Operator Signature:

R Attr

East Plant

O_3 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	1230
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1415
Date: 2-17-16			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40°C)	24.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0	-0.4	0.4	Zero Drift ≤ ± 1.5 %	0.0
400 ppb	400	400.6	0.6	Span Drift ≤ ± 7 %	399.2

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.3	± 2 ppb	NO
400 ppb	399.2	400.2	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	739	Sample Temp. (10 - 50°C)	39.0
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (10 to 50°C)	26.8
Slope (1 ± 0.15)	1.024	O_3 Measure (2500 - 4800 mV)	2700.3
Offset (0.0 ± 5 ppb)	-4.1	O_3 Reference (2500 - 4800 mV)	2702.0

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	1230
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1415
Date: 2-17-16			T100 Analyzer Range	500ppb
	NIST-Traceable Gas Conc.	40 PPM	Shelter Temperature (5-40°C)	24.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0	0.2	0.02	Zero Drift ≤ ± 1.5 %	-0.1
400 ppb	400	400.7	0.6	Span Drift ≤ ± 10 %	400.2

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.1	0.2	± 2 ppb	NO
400 ppb	400.2	400.8	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	621	Sample Press. (Ambient ± 2 in-Hg)	27.3
UV Lamp (1000 - 4800 mV)	3725.5	Lamp Ratio (30 - 120%)	116.6
Slope (1 ± 0.3)	0.839	BOX Temp. (Ambient ± 5°C)	32.1
Offset (< 250 mV)	34.9	HVPS (400 - 900 V)	614

Operator Comments:

Operator Signature:

East Plant

NO_X Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	1230
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1415
Date: 2-17-16			T200 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40% ppm	Shelter Temperature (5-40°C)	24.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Final NO_X / Zero Response
Zero Air	0.0	0.2	-1.6	-1.5	0.1	Zero Drift ≤ ± 1.5 %	-0.2
400 ppb	400	404.6	-2.5	402.2	0.9	Span Drift ≤ ± 10 %	399.4

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.2	NO	0.1	± 2 ppb	NO
	NO_2	0.0	NO_2	0.0		
	NO_x	-0.2	NO_x	0.1		
400 ppb	NO	389.3	NO	399.4	± 2 ppb	NO
	NO_2	-0.0	NO_2	-0.3		
	NO_x	399.4	NO_x	399.1		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	496	Moly Temp. (315 ± 5°C)	315.8
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.330	NO Slope (1 ± 0.3)	1.336
NO_X Offset (-50 to 150)	1.2	NO Offset (-50 to 150)	0.2

Operator Comments:

Operator Signature:

East Plant

NO_X Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Arrendale	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	0800
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0835
Date: 2-29-16			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	25.7

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	-0.0	0.1	0.1	1.2	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	389.0	1.2	390.8	1.0	Span Drift ≤ ± 10 %	NO

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.0	NO	-0.2	± 2 ppb	NO
	NO_2	0.1	NO_2	-0.2		
	NO_x	0.1	NO_x	-0.02		
400 ppb	NO	389.0	NO	389.9	± 2 ppb	NO
	NO_2	1.2	NO_2	1.2		
	NO_x	390.8	NO_x	390.9		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	489	Moly Temp. (315 ± 5°C)	315.9
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)		NO Slope (1 ± 0.3)	
NO_X Offset (-50 to 150)		NO Offset (-50 to 150)	

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTREDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	0800
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0916
Date: 2-29-2016			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40ppm	Shelter Temperature (5-40°C)	24.4

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	-0.3	0.09	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	400.0	0.57	Span Drift ≤ ± 10 %	NO

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.3	-0.2	± 2 ppb	NO
400 ppb	400.0	401.1	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	615	Sample Press. (Ambient ± 2 in-Hg)	27.5
UV Lamp (1000 - 4800 mV)	3760.6	Lamp Ratio (30 - 120%)	117.6
Slope (1 ± 0.3)	0.739	BOX Temp. (Ambient ± 5°C)	32.3
Offset (< 250 mV)	34.9	HVPS (400 - 900 V)	614

Operator Comments:

Operator Signature:

East Plant

O_3 Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Armesse	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	0800
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0851
Date: 2-29-16			T400 Analyzer Range	500
			Shelter Temperature (5-40°C)	22.7

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	-0.5	0.3	Zero Drift ≤ ±1.5 %	no
400 ppb	401	401.4	0.6	Span Drift ≤ ±7 %	NO

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	-0.5	0.5	± 2 ppb	no
400 ppb	401.4	401.6	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	735/737	Sample Temp. (10 - 50°C)	41.1
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	28.8
Slope (1 ± 0.15)	1.024	O_3 Measure (2500 - 4800 mV)	2629.2
Offset (0.0 ± 5 ppb)	4.1	O_3 Reference (2500 - 4800 mV)	2629.9

Operator Comments:

Operator Signature:

East Plant

O_3 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. ATTRINGE	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	0700
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0715
Date: 3-7-16			T400 Analyzer Range	500 ppb
			Shelter Temperature (5-40°C)	26.2

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air				Zero Drift ≤ ±1.5 %	
400 ppb				Span Drift ≤ ±7 %	

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air			± 2 ppb	
400 ppb			± 2 ppb	

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	2.0	Sample Temp. (10 - 50°C)	
Photo Lamp (58 ± 1 °C)		BOX Temp. (10 to 50°C)	
Slope (1 ± 0.15)		O_3 Measure (2500 - 4800 mV)	
Offset (0.0 ± 5 ppb)		O_3 Reference (2500 - 4800 mV)	

Operator Comments:

Sample Flow WARNING current flow @ 2.0 cc/min. DATA COLLECTED SUGGEST THAT THE FLOW ERROR STARTED ON 3-4-16 @ 1300 HRS. UNABLE TO SPAN/ZERO

Operator Signature:

R Attringe

East Plant

NO_X Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	0700
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0810
Date: 3-7-16			T200 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	24.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Final NO_X / Zero Response
Zero Air	0.0	0.1	-0.5	-0.4	0.1	Zero Drift ≤ ± 1.5 %	-0.0
400 ppb	400	406.7	-0.4	406.5	1.0	Span Drift ≤ ± 10 %	401.0

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.1	NO	-0.18	± 2 ppb	NO
	NO_2	-0.1	NO_2	-0.31		
	NO_x	-0.1	NO_x	-0.18		
400 ppb	NO	401.1	NO	401.3	± 2 ppb	NO
	NO_2	0.3	NO_2	-0.19		
	NO_x	401.3	NO_x	401.4		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	315.3
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.333	NO Slope (1 ± 0.3)	~~1.321~~ 1.321
NO_X Offset (-50 to 150)	7.6	NO Offset (-50 to 150)	0.2

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	0700
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	0840
Date: 3-7-16			T100 Analyzer Range	500ppb
	NIST-Traceable Gas Conc.	40ppm	Shelter Temperature (5-40°C)	25.3

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	-0.09	0.04	Zero Drift ≤ ± 1.5 %	0.02
400 ppb	400	397.4	0.6	Span Drift ≤ ± 10 %	400.2

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.02	0.13	± 2 ppb	NO
400 ppb	400.2	400.9	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	601	Sample Press. (Ambient ± 2 in-Hg)	27.2
UV Lamp (1000 - 4800 mV)	3776.3	Lamp Ratio (30 - 120%)	118.1
Slope (1 ± 0.3)	0.843	BOX Temp. (Ambient ± 5°C)	32.9
Offset (< 250 mV)	34.4	HVPS (400 - 900 V)	614

Operator Comments:

Operator Signature:

East Plant

NO_X Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Aitridge	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	0709
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0750
Date: 3-15-16			T200 Analyzer Range	500 ppb
	NIST-Traceable Gas Conc.	40 ppm	Shelter Temperature (5-40°C)	25.2

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.1	0.4	0.6	1.0	Zero Drift ≤ ± 1.5 %	No
400 ppb	400	379.6	4.0	483.6	0.7	Span Drift ≤ ± 10 %	No

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.1	NO	0.1	± 2 ppb	No
	NO_2	0.4	NO_2	0.2		
	NO_x	0.6	NO_x	0.4		
400 ppb	NO	379.6	NO	378.6	± 2 ppb	No
	NO_2	4.0	NO_2	3.4		
	NO_x	483.6	NO_x	482.2		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	488	Moly Temp. (315 ± 5°C)	315.9
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.333	NO Slope (1 ± 0.3)	1.321
NO_X Offset (-50 to 150)	7.6	NO Offset (-50 to 150)	0.2

Operator Comments:

Particle Filter change due –

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Verification
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	0709
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	0814
Date: 3-15-16			T100 Analyzer Range	500ppb
	NIST-Traceable Gas Conc.	40ppm	Shelter Temperature (5-40°C)	25.1

Biweekly Manual Level 2 Zero and Span Verification

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.132	0.015	Zero Drift ≤ ± 1.5 %	NO
400 ppb	400	401.8	0.227	Span Drift ≤ ± 10 %	NO

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.132	0.163	± 2 ppb	NO
400 ppb	401.8	402.7	± 2 ppb	NO

Analyzer Parameters

Sample Flow (650 ± 10%)	600	Sample Press. (Ambient ± 2 in-Hg)	27.5
UV Lamp (1000 - 4800 mV)	3797.8	Lamp Ratio (30 - 120%)	118.8
Slope (1 ± 0.3)	0.843	BOX Temp. (Ambient ± 5°C)	32.9
Offset (< 250 mV)	344	HVPS (400 - 900 V)	614

Operator Comments:

Particle Filter Change due -

Operator Signature:

East Plant

NO_X Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. ATTINGER	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	1400
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1600
Date: 3-22-2016			T200 Analyzer Range	0-500ppb
	NIST-Traceable Gas Conc. EXP DATE 15 MAR 2017	40.2	Shelter Temperature (20 - 30°C)	22.4

Biweekly Manual Level 1 Zero and Span Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Final NO_X / Zero Response
Zero Air	0.0	0.2	-0.2	0.2	0.2	Zero Drift ≤ ± 5 ppb	0.0
100 ppb	101	99.1	-0.4	98.8	0.5	Span Drift ≤ ± 10 %	99.8

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.0	NO	-0.2	± 2 ppb	NO
	NO_2	-0.0	NO_2	-0.3		
	NO_x	0.0	NO_x	-0.3		
100 ppb	NO	99.9	NO	99.7	± 2 ppb	NO
	NO_2	0.0	NO_2	-0.5		
	NO_x	99.8	NO_x	99.6		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	315.6	Span Gas Tank Pressure (psi)	1000
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	600	Span Gas Regulator Flow (psi)	19.8
NO_X Slope (1 ± 0.3)	1.026	NO Slope (1 ± 0.3)	1.037	Zero Air Generator Pressure (psi)	28.8
NO_X Offset (-20 to 150)	2.0	NO Offset (-20 to 150)	0.7	*Dilution Calibrator Flow (lpm)	3.996

* Document actual value during span activities.

Operator Comments:
Changed Particle filter
leak check good to go

Operator Signature:

East Plant

O_3 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. ARMIDAE	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	1145
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1215
Date: 3-22-2016			T400 Analyzer Range	0-500ppb
			Shelter Temperature (20 - 30°C)	21.6

Biweekly Manual Level 1 Zero and Span Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	0.2	0.4	Zero Drift ≤ ± 5 ppb	0.1
100 ppb	100	89.5	1.0	Span Drift ≤ ± 7 %	100.3

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	0.6	± 2 ppb	NO
100 ppb	100.3	100.9	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	744	Sample Temp. (10 - 50°C)	37.7
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (10 to 50°C)	27.3
Slope (1 ± 0.15)	1.087	O_3 Measure (2500 - 4800 mV)	2681.9
Offset (0.0 ± 5 ppb)	-4.1	O_3 Reference (2500 - 4800 mV)	2684.0

Operator Comments:

Pump failure as found, installed new pump
Replaced particle filter
Initial flow of analyzer = 742
STD sample flow measurement = 743.01
Calibrated analyzer sample flow to 743.
Leak check good to go

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. Attridge	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	1400
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1610
Date: 3-22-2016			T100 Analyzer Range	0-500 ppb
	NIST-Traceable Gas Conc. EXP DATE 15 MAR 2017	40.4	Shelter Temperature (20 - 30°C)	21.8

Biweekly Manual Level 1 Zero and Span Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	0.27	0.02	Zero Drift ≤ ± 5 ppb	0.04
100 ppb	101	96.6	0.6	Span Drift ≤ ± 10 %	100.1

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.04	0.24	± 2 ppb	NO
100 ppb	100.1	100.7	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 10%)	590	Sample Press. (Ambient ± 2 in-Hg)	25.5
UV Lamp (1000 - 4800 mV)	3811.7	Lamp Ratio (30 - 120%)	119.1
Slope (1 ± 0.3)	0.767	BOX Temp. (Ambient ± 5°C)	27.4
Offset (< 250 mV)	35.1	HVPS (400 - 900 V)	614

Operator Comments:

Changed particle filter

Slope almost out of range
- Inspected pump
- leak check Good to go

Operator Signature:

Appendix I: Audits and Calibrations

AIR SCIENCES INC.

DENVER • PORTLAND

Air Quality Audit Report Resolution Copper East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-13-1
FEBRUARY 2016

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Appendix A – Audit and Calibration Forms

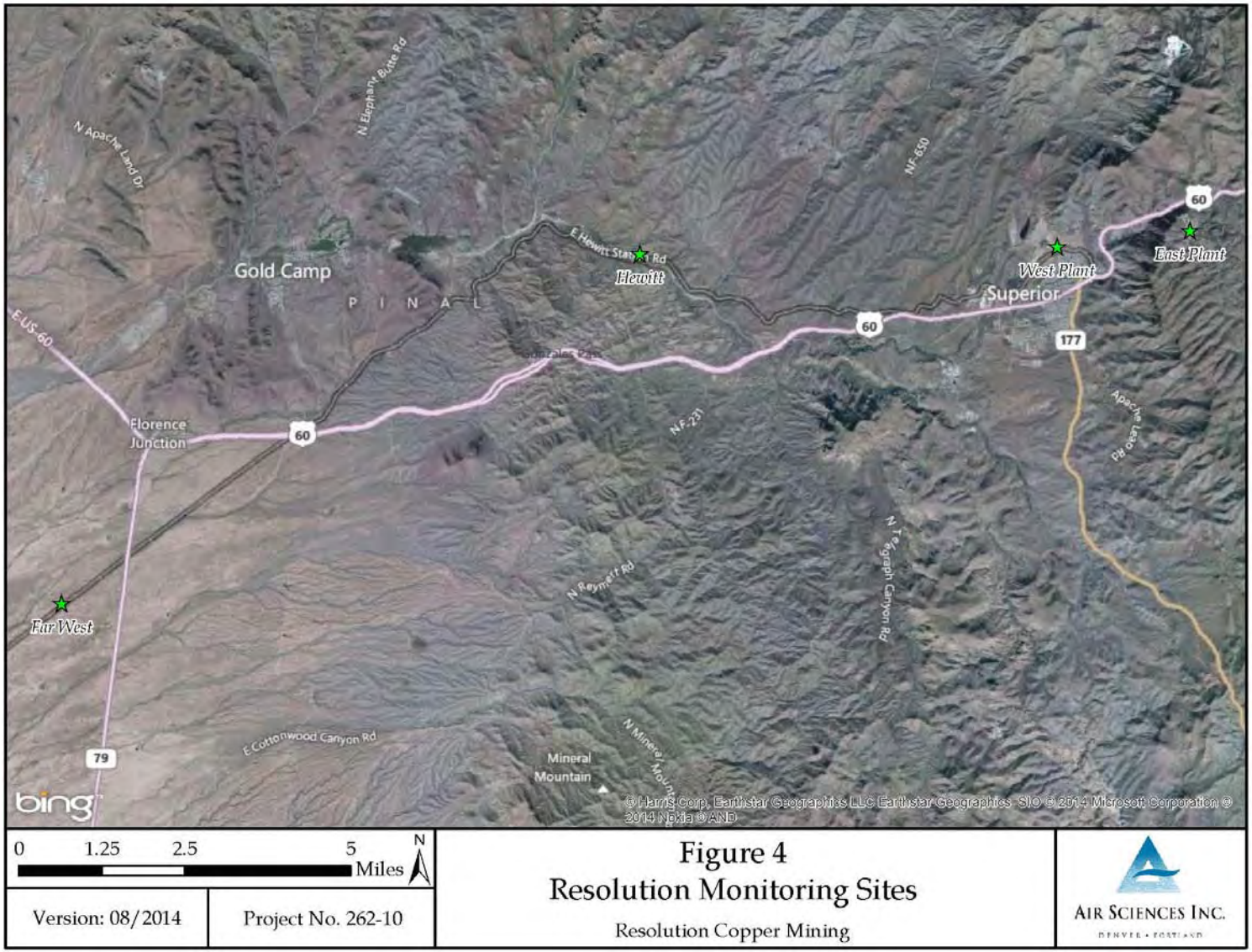
1.0 INTRODUCTION

On January 26-28, 2016 the meteorological and air quality instrumentation was audited and/or 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 Plant (see Figure 1).

The purpose of this document is to provide a brief synopsis of the air quality monitoring system and of the audit and/or calibration procedures for the meteorological, particulate, and ambient gas instrumentation at the East Plant monitoring station. The audit was conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- EPA-454/B-13-004, Transfer Standards for the Audit of Ambient Air Monitoring Analyzers for Ozone
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1. Project Location Map – Resolution Copper Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation calibrated and/or audited at the East Plant monitoring site measures wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, precipitation, barometric pressure, 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 meteorological sensors are mounted to a 35-foot, open-lattice, aluminum drop tower, and the particulate and gaseous analyzers are housed in a 60-square-foot climate-controlled trailer. The sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensors and Sample Inlet Heights (meters above the ground)

Parameter	Approximate Height(meters)
Wind Speed	10
Wind Direction	10
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Precipitation	1
Barometric Pressure	1.5
PM_{10}	3
$PM_{2.5}$	3
NO_2	3
SO_2	3
O_3	3

The meteorological and ambient gas data 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. All meteorological sensors are programmed on a two-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a 15-minute interval. The raw 15-minute data averages are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition and Storage System

(DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit procedures for the meteorological, particulate, and ambient gas instrumentation at the Resolution Copper East Plant monitoring site. Copies of the completed audit forms are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system. Data were recorded on a standardized form.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

---

[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

The precipitation gauge was audited by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate was measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 Meteorological Sensor Calibration Procedures

The wind speed sensor calibration was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The calibration of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A BPMC mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method. With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system. Data were recorded on a standardized form.

3.3 Particulate Matter Audit Procedures

The BAM-1020 PM_{10} and $PM_{2.5}$ monitors were audited 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 instruments to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the BAM-1020 monitor were recorded on a standardized form.

3.4 Ambient Gas Audit Procedures

The audit of the Teledyne T100 SO_2 and T200 NO_X analyzers involved a Multi-Point Audit (MPA). The MPA was performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to dilute certified multi-component EPA-protocol audit gas with a clean zero-air source. The T100 SO_2 and T200 NO_X analyzer was challenged at zero, and at five points within the instruments range—typically a point from 100 to 500 parts per billion (ppb) of SO_2 or NOx.

The audit of the Teledyne T400 O_3 analyzer involved an MPA. The MPA was performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to generate O_3 gas to audit 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.

4.0 RESULTS AND RECOMMENDATIONS

All instruments, sensors, and operating systems were found to be clean, serviceable, and within their recommended tolerance parameters.

Meteorological, particulate, and gaseous data collected during the on-site audit and calibration activities described in this report will be invalidated.

Placed the Teledyne API T700 Primary Standard Dilution Calibrator into service after its return from manufacturer calibration certification.

Appendix A – Audit Forms

METEOROLOGICAL STATION AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

Client : Resolution Copper Company
Project No. : 262-13
Site : East Plant
Date : 1/26/2016
Time: 14:45 - 16:00
Personnel: R. Attridge
G. Gylys

SITE MONITORING PARAMETERS AND SENSORS				
Parameter	**Sensors**	**Model #**	**Serial Number**	**Instrument Location on Site**
Datalogger	Campbell Sci. Micrologger	CR3000	6591	1 meter
Wind Speed	R. M. Young Wind Monitor	5305	112953	10 meters
Wind Direction	R. M. Young Wind Monitor	5305	112953	10 meters
Ambient Temperature	Campbell Sci. Probe	HC2S3-L	60749863	2 meters
Relative Humidity	Campbell Sci. Probe	HC2S3-L	60749863	2 meters
Barometric Pressure	Vaisala PTB110 Barometer	PTB110	G0077095	1 meter
Delta Temperature (2m)	R. M. Young 1K RTD Temp. Sensor	41342	20208	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	020213	10 meters
Solar Radiation	Campbell Sci. Pyranometer	CMP3	115422	2 meters
Precipitation	R. M. Young Heated Rain Gauge	52202	8721	Ground

QUALITY ASSURANCE AUDIT EQUIPMENT				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Sci. Micrologger	CR 850	22877	10/1/2017
System Accuracy & Linearity	Compass	N/A	5060706165	9/1/2015
Wind Speed	R. M. Young Anemometer Drive	18802	CA03376	9/1/2015
Torque	Disk 2	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61045255	9/1/2015
Relative Humidity	HygroClip 2	HC2S3	61045255	9/1/2015
Barometric Pressure	Vaisala PTB110 Barometer	CS106	G0770076	8/1/2015
Delta Temperature	Campbell Sci. RTD Probe	41342	TS22521	9/1/2015
Solar Radiation	Campbell Sci. Pyranometer	CMP6	138453	11/1/2016
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS, AS FOUND
Audit Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: 5305
Serial No: 77645

Calibration Motor No.: CA03376
Calibration Disk No.: Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.04	-0.01	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise 0.4 g-cm
Counterclockwise 0.4 g-cm

Audited By: G. Gylys

WIND SPEED, 10 METERS, AS LEFT
Calibration Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: 5305
Serial No: 77645

Calibration Motor No.: CA03376
Calibration Disk No.: Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.04	-0.01	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise 0.2 g-cm
Counterclockwise 0.3 g-cm

Audited By: G. Gylys

WIND DIRECTION, 10 METERS
Audit Summary

AIR SCIENCES INC.

DENVER | PORTLAND

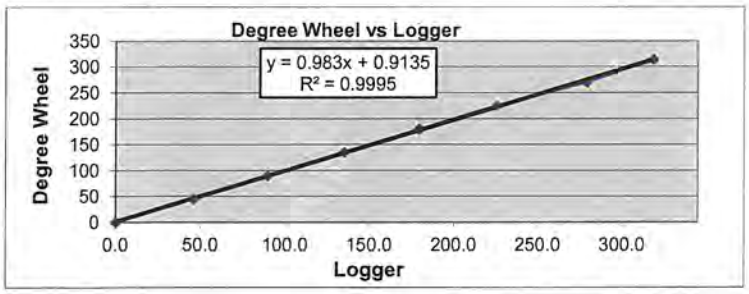
Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: 5305 Serial No: 77645 Compass No.: 5060706165

System Accuracy and Linearity Check Declination[1] = 10 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	167.0	177.0	177.0	179.4	2.4	±5
Tail	348.0	358.0	358.0	2.0	4.0	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.1	0.1	-1.7	-1.7	±3
45	46.4	1.4	44.6	-0.4	±3
90	89.9	-0.1	88.1	-1.9	±3
135	135.2	0.2	133.4	-1.6	±3
180	179.7	-0.3	177.9	-2.1	±3
225	225.6	0.6	223.8	-1.2	±3
270	279.0	9.0	277.2	7.2	±3
315	318.5	3.5	316.7	1.7	±3
Avg		1.8			
CCW					
0	0.7	0.7	0.2	0.2	±3
45	46.0	1.0	45.5	0.5	±3
90	90.4	0.4	89.9	-0.1	±3
135	133.2	-1.8	132.7	-2.3	±3
180	180.4	0.4	179.9	-0.1	±3
225	223.6	-1.4	223.1	-1.9	±3
270	272.9	2.9	272.4	2.4	±3
315	317.0	2.0	316.5	1.5	±3
Avg		0.5			



Audited By: G. Gylys

[1] Declination added to compass
[2] May reference wider acceptance criteria in *QA Handbook for Air Pollution Measurement Systems, Volume IV - Meteorological Measurements, August 1989*

AMBIENT TEMPERATURE, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: HC2S3-L
Std Model: HC2S3

Serial No: 60749863
Ref Serial No: 61045255

System Linearity Check

	Standard (°C)	Logger Reading (°C)	Difference (°C)	Acceptance Criteria
1.	14.2	13.5	0.7	±2
2.	13.3	13.9	-0.6	±2
3.	13.2	13.9	-0.7	±2
4.	13.1	13.7	-0.6	±2
5.	13.1	13.5	-0.4	±2
6.	12.6	13.2	-0.6	±2
7.	12.7	13.2	-0.5	±2
8.	12.6	13.1	-0.5	±2
9.	12.5	12.9	-0.4	±2
10.	12.2	12.8	-0.6	±2

Audited By: R. Attridge

RELATIVE HUMIDITY, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: HC2S3-L
Std Model: HC2S3

Serial No: 60749863
Std Serial No: 61045255

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	15.8	14.2	1.6	±7
2.	15.8	14.1	1.7	±7
3.	15.9	14.1	1.8	±7
4.	15.8	13.9	1.9	±7
5.	15.6	13.6	2.0	±7
6.	15.6	13.4	2.2	±7
7.	15.4	13.3	2.1	±7
8.	15.7	13.4	2.3	±7
9.	15.6	13.2	2.4	±7
10.	15.5	13.1	2.4	±7

Audited By: R. Attridge

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: 41342
Serial No (2m): 20208
Serial No (10m): 020213
Std Model: 41342
Std Serial No: TS22521

Aspirator Fans Working Properly? Y

	Standard (°C)	2 Meter (°C)	10 Meter (°C)	Difference 2 Meter [1] (°C)	Difference 10 Meter [1] (°C)
Bath 1	1.25	1.29	1.31	0.04	0.06
Bath 2	20.39	28.29	28.26	7.90	7.87
Bath 3	43.92	43.88	43.87	0.04	0.05

Delta T [2] (°C)	Difference 10M vs. 2M
	0.02
	0.03
	0.01

1. The acceptance criteria for deviation from the standard for both upper and lower temperatures is ± 0.5
2. The acceptance criteria for deviation from the standard for delta temperatures is ± 0.1

Audited By: R. Attridge

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: PTB110
Std Model: CS106

Serial No: G0077095
Std Serial No: G0770076

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	657.2	655.7	1.5	±2.3
2.	657.2	655.7	1.5	±2.3
3.	657.2	655.7	1.5	±2.3
4.	657.2	655.7	1.5	±2.3
5.	657.2	655.7	1.5	±2.3

Audited By: R. Attridge

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: CMP3 Serial No: 115422
Std Model: CMP6 Std Serial No: 138453

System Linearity Check

	Standard (w/m^2)	Logger Reading (w/m^2)	Difference (w/m^2)	Difference (%)	Acceptance Criteria
Covered Reading	0.0	1.0	-1.0		± 25 W/m^2 or 5%
1.	512.1	503.3	8.8	-1.7	± 25 W/m^2 or 5%
2.	512.0	502.7	9.3	-1.9	± 25 W/m^2 or 5%
3.	512.2	502.0	10.2	-2.0	± 25 W/m^2 or 5%
4.	511.9	501.5	10.4	-2.1	± 25 W/m^2 or 5%
5.	511.6	501.3	10.3	-2.1	± 25 W/m^2 or 5%
6.	511.3	501.4	9.9	-2.0	± 25 W/m^2 or 5%
7.	511.3	501.9	9.4	-1.9	± 25 W/m^2 or 5%
8.	511.1	500.2	10.9	-2.2	± 25 W/m^2 or 5%
9.	511.1	499.7	11.4	-2.3	± 25 W/m^2 or 5%
10.	510.9	499.1	11.8	-2.4	± 25 W/m^2 or 5%
		Average	10.2		

Audited By: R. Attridge

PRECIPITATION, GROUND LEVEL
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: East Plant
Project: 262-13
Date: 1/26/2016

Model: 52202 Serial No: 8721

System Linearity Check

	Water (cc)	Calculated Target* (inches)	Logger Reading (inches)	Difference (inches)
1.	2.00	0.0040	0.004	0.000
2.	2.00	0.0040	0.004	0.000
3.	2.00	0.0040	0.004	0.000
4.	2.10	0.0042	0.004	0.000
5.	2.10	0.0042	0.004	0.000
6.	2.10	0.0042	0.004	0.000
7.	2.10	0.0042	0.004	0.000
8.	2.10	0.0042	0.004	0.000
9.	2.10	0.0042	0.004	0.000
10.	2.10	0.0042	0.004	0.000
Total	20.70	0.0412	0.040	0.001

Reading taken from final storage for period averaged data = 0.193 inches

Target (Campbell Scientific gauge) = water (cc)/2.01.004(inches)

Audited By: G. Gylys

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.

Operator:	Air Sciences
Site Name:	East Plant
Project:	262-13
Date:	1/26/2016

COMMENTS:

Data shall be invalidated from 14:45 to 16:00hrs resulting from audit activities.

Replaced wind monitor nose cone bearings.

Signatures:

East Plant BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC.

Model:	**BAM-1020**	**Serial Number:**	M8714
Audit Date:	1/26/2016	**Audited By:**	G. Gylys
Audit Time:	1700hrs		

Firmware:

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9-10-15
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9-10-15
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9-10-15

Leak Check Value: as found: 0.5 Should Be: <1.0 as left: 0.3 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	12.3	11.3	as left:	10.3	10.3	Adjusted	x
Barometric Pressure (mmHg):	as found:	655	656.0	as left:	656	656.0	Adjusted	x
Flow Rate (15.0 LPM):	as found:	15.0	15.13	as left:	15.1	15.06	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.47	as left:	18.4	18.38	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.80	as left:	16.7	16.72	Adjusted	

Audit Notes: **Monitor found a clean serviceable condition.**

Mechanical Audits

Pump muffler unclogged:	As found	x	As left		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		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			
Grounded	As found	X	As left		Inlet tube perpendicular to BAM:	As found	x	As left			

Signature:

East Plant BAM-1020 $PM_{2.5}$ Audit Sheet

AIR SCIENCES INC.

Model:	**BAM-1020**	**Serial Number:**	M6466
Audit Date:	1/26/2016	**Audited By:**	G. Gylys
Audit Time:	1700hrs		

Firmware:

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9-10-15
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9-10-15
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9-10-15

Leak Check Value: as found: 0.5 Should Be: <1.0 as left: 0.2 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	11.9	11.1	as left:	10.7	10.8	Adjusted	X
Barometric Pressure (mmHg):	as found:	657	656.0	as left:	656	656.0	Adjusted	X
Flow Rate (15.0 LPM):	as found:	14.9	14.95	as left:	15.0	15.98	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.3	18.35	as left:	18.3	18.25	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.6	16.63	as left:	16.7	16.59	Adjusted	

Audit Notes: **Monitor found in a clean serviceable condition.**

Mechanical Audits

Pump muffler unclogged:	As found	x	As left	x	PM10 particle trap clean:	As found	x	As left		N/A	
Sample nozzle clean:	As found		As left	x	PM10 drip jar empty:	As found	x	As left		N/A	
Tape support vane clean:	As found		As left	x	PM10 bug screen clear:	As found	x	As left		N/A	
Capstan shaft clean:	As found		As left	x	PM2.5 particle trap clean:	As found	x	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		
Chassis ground wire installed:	As found	x	As left		Inlet tube perpendicular to BAM:	As found	x	As left			

Signature:

East Plant

NO_X Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC.

Operator: G. Gylys	Teledyne API T200 NO_X Analyzer S/N	197	Multipoint Start Time	18:00
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	02:00
Date: 26-27 January 2016			T200 Analyzer Range	0-500
	NIST-Traceable Gas Conc.	40.1 ppm	Shelter Temperature (5-40°C)	26.8

Multipoint Audit (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range using the Transfer Standard Dilution Calibrator.

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	0.1	-0.2	-0.1	1.0	0 ± 5 PPB
100	100	102.6	0.8	103.6	102.8	PASS; 0.8%
200	200	201.1	0.6	206.2	204.6	PASS; 0.8%
300	300	307.8	-0.4	307.4	306.4	PASS; 0.3%
400	400	402.4	1.6	403.9	408.2	PASS; 1.1%
500	499	512.0	-0.9	511.1	509.0	PASS; 0.4%

Best Fit Line = $Y=1.018x + 1.0091$

$R^2 = 0.99984$

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	498	Moly Temp. (315 ± 5°C)	315.3
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.054	NO Slope (1 ± 0.3)	1.063
NO_X Offset (0 ± 100)	31.8	NO Offset (0 ± 100)	0.4

Operator Comments: Replaced particle filter.

Operator Signature:

East Plant

SO_2 Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC.

Operator: G. Gylys	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	18:00
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	02:00
Date: 26-27 Jan 2016			T100 Analyzer Range	0-500
	NIST-Traceable Gas Conc.	40.4ppm	Shelter Temperature (5-40°C)	26.6

Multipoint Calibration (Quarterly, or as needed):

Check analyzer response between 0 – 500 ppb range using the Transfer Standard Dilution Calibrator.

Transfer Standard:

Target (ppb)	Actual Generated SO_2 (ppb)	SO_2 Response (ppb)	Best Fit Line (ppb)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.0	0.235	0.023	PASS; < 2% FS
100	100	102.3	101.3	PASS; 1%
200	200	203.8	202.5	PASS; 0.7%
300	300	303.5	303.7	PASS; 0.1%
400	400	404.3	404.9	PASS; 0.2%
500	499	505.8	505.2	PASS; 0.1%

Best Fit Line (BFL)
$Y = 1.0123x + 0.0233$
$R^2 = 0.99999$

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	642	Sample Press. (Ambient ± 2 in-Hg)	27.5
UV Lamp (1000 - 4800 mV)	3539.3	Lamp Ratio (30 - 120%)	110.7
Slope (1 ± 0.3)	0.787	BOX Temp. (Ambient ± 5°C)	34.4
Offset (< 250 mV)	33.9	HVPS (400 - 900 V)	614

Operator Comments: Changed particle filter.

Operator Signature:

East Plant

O_3 Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC

Operator: G. Gylys	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	18:00
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	02:00
Date: 26-27 January 2016			T400 Analyzer Range	0-500
			Shelter Temperature (5-40°C)	26.8

Multipoint Audit (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range using the Transfer Standard Dilution Calibrator.

Transfer 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	0.2	0.9	PASS; < 2% Full Scale
100	101	103.3	103.1	PASS; 0.2%
200	200	204.3	203.3	PASS; 0.5%
300	299	304.3	303.3	PASS; 0.3%
400	401	408.4	406.8	PASS; 0.4%
500	500	505.1	507.0	PASS; 0.4%

Best Fit Line (BFL)
$Y = 1.0121x + 0.8579$
$R^2 = 0.99995$

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	741	Sample Temp. (10 - 50°C)	44.3
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (30 ± 20°C)	30.5
Slope (1 ± 0.15)	1.137	O_3 Measure (2500 - 4800 mV)	2707.1
Offset (0.0 ± 5 ppb)	-1.4	O_3 Reference (2500 - 4800 mV)	2708.0

Operator Comments: Replaced the particle filter and serviced pump.

Operator Signature:

East Plant

NO_X Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: G. Gylys	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	19:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	19:20
Date: 01-27-2016			T200 Analyzer Range	0-500
	NIST-Traceable Gas Conc.	40.9 ppm	Shelter Temperature (5-40°C)	25.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Final NO_X / Zero Response
Zero Air	0.0	-0.3	2.5	2.2	0.3	Zero Drift ≤ ±1.5 %	0.2
400 ppb	401	390.1	0.4	390.6	0.9	Span Drift ≤ ±10 %	405.4

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	0.100	NO	-0.2	± 2 ppb	No
	NO_2	0.200	NO_2	-0.6		
	NO_x	0.200	NO_x	0.5		
400 ppb	NO	405.000	NO	404.3	± 2 ppb	No
	NO_2	0.400	NO_2	0.03		
	NO_x	405.400	NO_x	405.4		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	500	Moly Temp. (315 ± 5°C)	*315.1*
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	*573*
NO_X Slope (1 ± 0.3)	1.143	NO Slope (1 ± 0.3)	*1.145*
NO_X Offset (0 ± 100)	2.2	NO Offset (0 ± 100)	*0.2*

Operator Comments: Placed T700 S/N 191 into service.

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: G. Gylys	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	19:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	19:58
Date: 27 Jan 2016			T100 Analyzer Range	0-500
	NIST-Traceable Gas Conc.	40.0 PPM	Shelter Temperature (5-40°C)	25.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	0.333	0.147	Zero Drift ≤ ±1.5 %	0.002
400 ppb	401.0	426.12	0.9	Span Drift ≤ ±10 %	401.13

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.002	0.313	± 2 ppb	No
400 ppb	401.130	401.800	± 2 ppb	No

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	647	Sample Press. (Ambient ± 2 in-Hg)	27.5
UV Lamp (1000 - 4800 mV)	3560.0	Lamp Ratio (30 - 120%)	111.3
Slope (1 ± 0.3)	0.739	BOX Temp. (Ambient ± 5°C)	31.4
Offset (< 250 mV)	34.4	HVPS (400 - 900 V)	614

Operator Comments: Placed T700 s/n 191 into service.

Operator Signature:

East Plant

O_3 Level 1 Zero and Span Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: G. Gylys	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	19:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	19:43
Date: 27 Jan 2016			T400 Analyzer Range	0-500
			Shelter Temperature (5-40°C)	25.9

Biweekly Manual Level 1 Zero and Span Calibration

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Final Response
Zero Air	0.0	-0.2	0.4	Zero Drift ≤ ±1.5 %	0.0
400 ppb	400	409.7	0.8	Span Drift ≤ ±7 %	401.0

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.000	0.700	± 2 ppb	No
400 ppb	401.000	402.000	± 2 ppb	No

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	744	Sample Temp. (10 - 50°C)	40.9
Photo Lamp (58 ± 1 °C)	58.0	BOX Temp. (30 ± 20°C)	27.8
Slope (1 ± 0.15)	1.026	O_3 Measure (2500 - 4800 mV)	2701.6
Offset (0.0 ± 5 ppb)	3.7	O_3 Reference (2500 - 4800 mV)	2702.5

Operator Comments: Placed T700 s/n 191 into service.

Operator Signature:

Resolution East
Simplified GPT Data Sheet
T200
Project No. 262-5

AIR SCIENCES INC.

14.7.11.1. Simplified GPT Data Sheet

Key: Enter Value / Auto Calculated

Line #	TEST		RESULT	
1	LEAK-CHECK	(WHEN HOT)	NO	(Yes or no?)
2	NO_x RESPONSE	(MOLY BYPASSED)	443.9	
3	NO_x RESPONSE	(MOLY IN-LINE)	443.6	
4	**OUT-GASSING**		1.7	(>-5 ppb, <5 ppb)
5	($NO_{x\ ORIG}$)	(NO_x mode, O_3 off)	443.6	ppb
6	($NO_{x\ REM}$)	(NO_x mode, O_3 on)	441	ppb
7	NO_x **LOSS**	(Line #5 - #6) = **A**	2.6	(**A**) (<4% of $NO_{x\ ORIG}$: for 450PP 4% is 18 ppb)
8	(NO_{ORIG})	(NO mode, O_3 off)	441.8	ppb
9	(NO_{REM})	(NO mode, O_3 on)	60	ppb
10	NO_2	(Line #8 - #9) = **B**	381.8	(**B**) (>300 ppb)
11	Efficiency LOSS	[(**A**/**B**)x100]=**C**%	0.681	(**C**) %
12	Total Conv Eff	[100%-**C**] = **D**%	99.31902	(**D**) (102%>D>96%)

R. Attridge

T200 S/N 197

T700 S/N 191

[signature] 1-27-2016

East Plant
NO_X Multipoint Calibration
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. Attridge	Teledyne API T200 NOx Analyzer S/N	197	Multipoint Start Time	12:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	18:00
Date: 7-28-2016			T200 Analyzer Range	500PPB
	NIST-Traceable Gas Conc.	40.9	Shelter Temperature (5-40°C)	23.5

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range using the Primary Standard 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	-0.1	0.2	0.1	-0.8	PASS; 0 ± 5 PPB
100	101	99.3	-1.1	98.1	96.2	PASS; 2%
200	200	188.7	-1.6	187.5	191.3	PASS; 2%
300	300	289.3	-0.4	288.6	287.4	PASS; 0.4%
400	400	380.8	-0.5	380.3	383.4	PASS; 0.8%
500	500	482.4	0.1	482.4	479.5	PASS; 0.6%

Best Fit Line (BFL)

$Y = 0.9606x + -0.8115$

$R^2 = 0.99976$

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	498	Moly Temp. (315 ± 5°C)	315.1
Ozone Flow (80 ± 15 cc/min)	81	HVPS (400 - 900 V)	573
NO_X Slope (1 ± 0.3)	1.143	NO Slope (1 ± 0.3)	1.145
NO_X Offset (0 ± 100)	2.2	NO Offset (0 ± 100)	0.2

Operator Comments:

Operator Signature:

East Plant

SO_2 Multipoint Calibration
Resolution Copper Mining

AIR SCIENCES INC.

Operator: R. Attridge	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	12:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	18:00
Date: /-28/2016			T100 Analyzer Range	500 PPB
	NIST-Traceable Gas Conc.	40.0	Shelter Temperature (5-40°C)	24.6

Multipoint Calibration (Quarterly, or as needed):

Check analyzer response between 0 – 500 ppb range using the Primary Standard 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	0.0	0.340	1.593	PASS; < 2% FS
100	101	97.760	98.498	PASS; 0.7%
200	200	192.790	193.484	PASS; 0.4%
300	300	292.350	289.430	PASS; 1%
400	400	385.780	385.376	PASS; 0.1%
500	501	480.210	482.281	PASS; 0.4%

Best Fit Line (BFL)

$Y = 0.9595x + 1.5929$

$R^2 = 0.99989$

Analyzer Parameters

Sample Flow (650 ± 65 cc/min)	645	Sample Press. (Ambient ± 2 in-Hg)	27.4
UV Lamp (1000 - 4800 mV)	3550.9	Lamp Ratio (30 - 120%)	110
Slope (1 ± 0.3)	0.739	BOX Temp. (Ambient ± 5°C)	30.6
Offset (< 250 mV)	34.4	HVPS (400 - 900 V)	614

Operator Comments:

Operator Signature:

East Plant

O_3 Multipoint Calibration
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. Attridge	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	12:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	13:00
Date: 1/28/2016			T400 Analyzer Range	500 PPB
			Shelter Temperature (5-40°C)	24.6

Multipoint Calibration (Quarterly, or as needed):

Check the analyzer response over 0 – 500 ppb range using the Primary Standard 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	0.30	0.25	PASS; <2% FS
100	99.00	99.40	99.71	PASS; 0.3%
200	200.00	201.00	201.17	PASS; 0.1%
300	299.00	301.30	300.62	PASS; 0.2%
400	399.00	399.50	401.10	PASS; 0.4%
500	500.00	503.40	502.54	PASS; 0.2%

Best Fit Line (BFL)

$Y = 1.0046x + 0.2529$

$R^2 = 0.99997$

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	737	Sample Temp. (10 - 50°C)	40.8
Photo Lamp (58 ± 1°C)	58	BOX Temp. (30 ± 20°C)	29.4
Slope (1 ± 0.15)	1.026	O_3 Measure (2500 - 4800 mV)	2710.6
Offset (0.0 ± 5 ppb)	-3.7	O_3 Reference (2500 - 4800 mV)	2711.5

Operator Comments:

Operator Signature:

AIR SCIENCES INC.

DENVER • PORTLAND

Air Quality Audit Report Resolution Copper East Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-20-1
MARCH 2016

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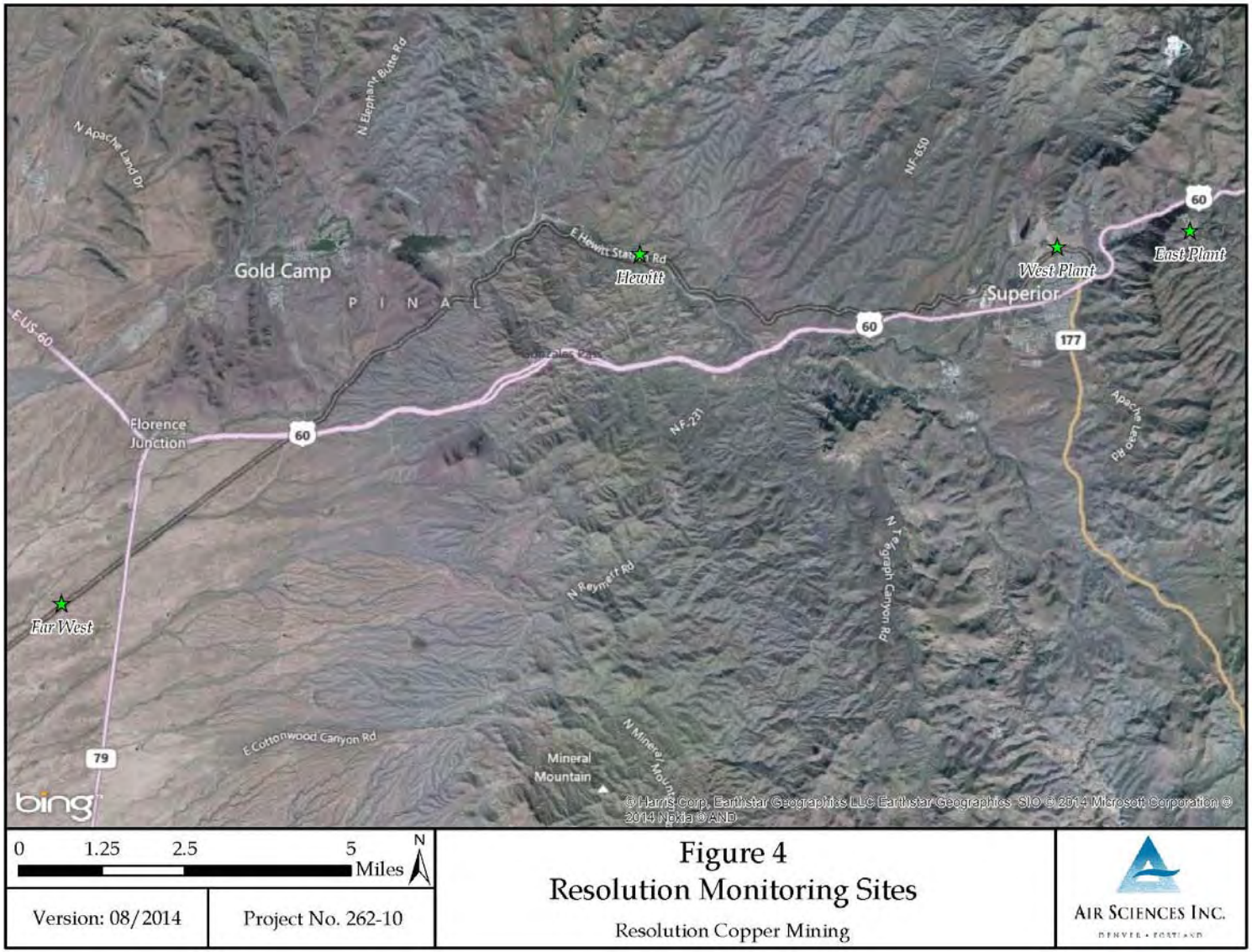
1.0 INTRODUCTION

On March 22-23, 2016 the air quality instrumentation was audited and/or 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 Plant (see Figure 1).

The purpose of this document is to provide a brief synopsis of the air quality monitoring system and of the audit and/or calibration procedures for the meteorological, particulate, and ambient gas instrumentation at the East Plant monitoring station. The audit was conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- EPA-454/B-13-004, Transfer Standards for the Audit of Ambient Air Monitoring Analyzers for Ozone
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1. Project Location Map – Resolution Copper Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation calibrated and/or audited at the East Plant monitoring site measures wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, precipitation, barometric pressure, 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 meteorological sensors are mounted to a 35-foot, open-lattice, aluminum drop tower, and the particulate and gaseous analyzers are housed in a 60-square-foot climate-controlled trailer. The sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensors and Sample Inlet Heights (meters above the ground)

Parameter	Approximate Height(meters)
Wind Speed	10
Wind Direction	10
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Precipitation	1
Barometric Pressure	1.5
PM_{10}	3
$PM_{2.5}$	3
NO_2	3
SO_2	3
O_3	3

The meteorological and ambient gas data 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. All meteorological sensors are programmed on a two-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a 15-minute interval. The raw 15-minute data averages are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition and Storage System

(DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit procedures for the meteorological, particulate, and ambient gas instrumentation at the Resolution Copper East Plant monitoring site. Copies of the completed audit forms are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system. Data were recorded on a standardized form.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

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[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

The precipitation gauge was audited by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate was measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 Meteorological Sensor Calibration Procedures

The wind speed sensor calibration was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The calibration of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A BPMC mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method. With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system. Data were recorded on a standardized form.

3.3 Particulate Matter Audit Procedures

The BAM-1020 PM_{10} and $PM_{2.5}$ monitors were audited 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 instruments to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the BAM-1020 monitor were recorded on a standardized form.

3.4 Ambient Gas Audit Procedures

The audit of the Teledyne T100 SO_2 and T200 NO_X analyzers involved a Multi-Point Audit (MPA). The MPA was performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to dilute certified multi-component EPA-protocol audit gas with a clean zero-air source. The T100 SO_2 and T200 NO_X analyzer was challenged at zero, and at five points within the instruments range—typically a point from 100 to 500 parts per billion (ppb) of SO_2 or NOx.

The audit of the Teledyne T400 O_3 analyzer involved an MPA. The MPA was performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to generate O_3 gas to audit 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.

4.0 RESULTS AND RECOMMENDATIONS

The Teledyne T400 O_3 analyzer's sample flow dropped below the expectable range starting on March 4, 2016 due to pump failure. The analyzer's pump assembly was replaced and the sample flow calibrated on March 22, 2016.

All other instruments and operating systems were found to be clean, serviceable, and within their recommended tolerance parameters.

The particulate and gaseous data collected during the on-site audit and calibration activities described in this report will be invalidated. The Teledyne T400 O_3 analyzer data shall be invalidated from March 4, 2016 through March 22, 2016 due to a mechanical failure of the pump.

Appendix A – Audit Forms

East Plant BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC

Model:	BAM-1020	**Serial Number:**	M ~~6466~~ 8714
Audit Date:	3-22-16	**Audited By:**	RORY ATTRIDGE
Audit Time:	0929		

Firmware:

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	1103	Calibration Date:	3-12-16
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	1103	Calibration Date:	3-12-16
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	1103	Calibration Date:	3-12-16

Leak Check Value: as found: 0.3 Should Be: <1.0 as left: 0.2 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	18.2	18.1	as left:	18.3	18.2	Adjusted	
Barometric Pressure (mmHg):	as found:	627	651	as left:	651	651	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	15.05	as left:	15.0	14.99	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.4	18.47	as left:	18.4	18.34	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.7	16.75	as left:	16.7	16.64	Adjusted	

Audit Notes: Monitor BP value "as found" 24 mmHg below the standard. This discovery warrants investigation of last monthly flow verification and audit results. — RPA

Mechanical Audits

Pump muffler unclogged:	As found	X	As left		PM_{10} particle trap clean:	As found		As left	X	N/A
Sample nozzle clean:	As found		As left	X	PM_{10} drip jar empty:	As found	X	As left	X	N/A
Tape support vane clean:	As found		As left	X	PM_{10} bug screen clear:	As found	X	As left	X	N/A
Capstan shaft clean:	As found		As left	X	$PM_{2.5}$ 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		
Chassis ground wire installed:	As found	X	As left		Inlet tube perpendicular to BAM:	As found	X	As left		

Signature: R Attr

East Plant BAM-1020 $PM_{2.5}$ Audit Sheet

AIR SCIENCES INC

Model: BAM-1020

Serial Number: M6466

Audit Date: 3-22-16

Audited By: Rory Arnidge

Audit Time: 0935

Firmware:

Flow Audits			
Flow Reference Standard Used:	Model: Delta Cal	Serial No.: 1103	Calibration Date: 3-12-16
Temperature Standard Used:	Model: Delta Cal	Serial No.: 1103	Calibration Date: 3-12-16
Barometric Pressure Standard Used:	Model: Delta Cal	Serial No.: 1103	Calibration Date: 3-12-16

Leak Check Value: as found: 0.7 Should Be: <1.0 as left: 0.4 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	20.2	19.7	as left:	19.9	19.7	Adjusted	X
Barometric Pressure (mmHg):	as found:	653	650.5	as left:	651	651.5	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.0	14.82	as left:	15.0	14.91	Adjusted	
Flow Rate (18.4 LPM):	as found:	18.3	18.22	as left:	18.3	18.25	Adjusted	
Flow Rate (16.7 LPM):	as found:	16.6	16.51	as left:	16.6	16.62	Adjusted	

Audit Notes: None - RPA

Mechanical Audits

Pump muffler unclogged:	As found: X	As left:		
Sample nozzle clean:	As found:	As left: X		
Tape support vane clean:	As found:	As left: X		
Capstan shaft clean:	As found:	As left: X		
Rubber pinch rollers clean:	As found:	As left: X		
Chassis ground wire installed:	As found: X	As left:		
PM_{10} particle trap clean:	As found:	As left: X	N/A:	
PM_{10} drip jar empty:	As found: X	As left: X	N/A:	
PM_{10} bug screen clear:	As found: X	As left: X	N/A:	
$PM_{2.5}$ particle trap clean:	As found:	As left: X	N/A:	
Inlet tube water-tight seal OK:	As found: X	As left:		
Inlet tube perpendicular to BAM:	As found: X	As left:		

Signature:

East Plant

O_3 Multipoint Calibration
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. Armfield	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	1215
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	1350
Date: 3-22-2016			T400 Analyzer Range	0-500,000
			Shelter Temperature (20-30°C)	21.6

Multipoint Calibration (Biannually, or as needed):

Assess the analyzer response using consecutive concentrations representative of the ambient concentrations measured by the analyzer using the Primary Standard Dilution Calibrator.

Shelter Temperature Standard Measurement (°C): 21.5 **(± 2 °C of the STD)**

Temp. STD Model: Delta Cal **S/N:** 1103 **Cal Date:** 3-12-2016

Sample Flow Standard Measurement (cc/min): 743 **(800 ± 80 cc/min)**

Flow STD Model: 520-M **S/N:** 115242 **Cal Date:** 8-30-2015

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	0.1	1.1	PASS, 0 ± 5 ppb
30	31	32.8	33.1	PASS, 0.9%
60	60	63.9	63.0	PASS, 1.3%
110	110	114.8	114.7	PASS, 0.1%
210	210	219.5	217.9	PASS, 0.7%
310	310	319.9	321.2	PASS, 0.4%

Best Fit Line (BFL)

$y = 1.0324x + 1.1038$

$R^2 = 0.99992$

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	742	Sample Temp. (10 - 50°C)	38.3	Zero Air Generator Pressure (psi)	29.1
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	36.5	*Dilution Calibrator Flow (lpm)	3.892
Slope (1 ± 0.15)	1.026	O_3 Measure (2500 - 4800 mV)	2683.8		
Offset (0.0 ± 5 ppb)	2.0	O_3 Reference (2500 - 4800 mV)	2684.7		

* Document actual value during span activities.

Operator Comments:
pump replacement and flow calibration performed prior to Multi-Cal procedures

Operator Signature:

East Plant

SO_2 Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC

Operator: R. ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	1650
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	1720
Date: 3-23-2016			T100 Analyzer Range	0-500ppb
	NIST-Traceable Gas Conc. EXP DATE 18 MAY 2017	40 ppm	Shelter Temperature (20-30°C)	21.9

Multipoint Audit (Quarterly, or as needed):

Assess the accuracy of data generated by the analyzer using consecutive concentrations representative of the ambient concentrations measured using the Transfer Standard Dilution Calibrator.

Shelter Temperature Standard Measurement (°C): 21.4 **(± 2 °C of the Standard)**

Temp. STD Model: DeltaCal **S/N:** 1103 **Cal Date:** 3-12-2016

Analyzer Sample Flow Standard Measurement (cc/min): 600 **(550 ± 10% cc/min)**

Flow STD Model: 520-M **S/N:** 115242 **Cal Date:** 8-30-2015

Transfer Standard:

Target (ppb)	Actual Generated SO_2 (ppb)	SO_2 Response (ppb)	Best Fit Line (ppb)	Acceptable Criteria (± 2% from BFL)
Zero Air	0.0	0.03	0.5	PASS, 0 ± 5ppb
20	21	21.1	21.1	PASS, 0.1%
40	41	41.3	40.7	PASS, 1.6%
60	61	60.5	60.2	PASS, 0.4%
80	81	79.9	79.8	PASS, 0.1%
100	101	98.9	99.4	PASS, 0.5%

Best Fit Line (BFL)

$y = 0.9788x + 0.5346$

$R^2 = 0.99986$

Analyzer Parameters

Sample Flow (550 ± 10%)	605	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1600
UV Lamp (1000 - 4800 mV)	3792.6	Lamp Ratio (30 - 120%)	100.4	Span Gas Regulator Flow (psi)	19.9
Slope (1 ± 0.3)	1.025	BOX Temp. (Ambient ± 5°C)	31.0	Zero Air Generator Pressure (psi)	28.3
Offset (< 250 mV)	24.6	HVPS (400 - 900 V)	571	*Dilution Calibrator Flow (lpm)	3.992

*** Document actual value during span activities.**

Operator Comments:
Changes to the audit levels will take effect April 2016 AS PER 40 CFR 58.

Operator Signature:

East Plant

NO_X Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC

Operator:	Teledyne API T200 NO_X Analyzer S/N	197	Multipoint Start Time	0700
R. ATTRIDGE	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	1000
Date:			T200 Analyzer Range	0-500ppb
3-23-2016	NIST-Traceable Audit Gas Conc. Exp Date 18 Mar 2017	41.ppm	Shelter Temperature (20-30°C)	22.8

Multipoint Audit (Quarterly, or as needed):

Assess the accuracy of data generated by the analyzer using consecutive concentrations representative of the ambient concentrations measured using the Transfer Standard Dilution Calibrator.

Shelter Temperature Standard Measurement (°C): 22.6 **(± 2 °C of the Standard)**

Temp. STD Model: DeltaCal **S/N:** 1103 **Cal Date:** 3-12-2016

Analyzer Sample Flow Standard Measurement (cc/min): 499 **(500 ± 50 cc/min)**

Flow STD Model: 520-M **S/N:** 115242 **Cal Date:** 8-30-2015

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	-0.1	-0.1	-0.2	-0.5	PASS; 0±5ppb
40	41	41.0	0.0	41.0	40.9	PASS; 0.2%
80	81	82.0	-1.0	81.1	81.3	PASS, 0.2%
120	121	123.8	-2.5	121.1	121.7	PASS, 0.5%
160	161	164.0	-2.2	161.9	162.1	PASS, 0.1%
200	200	203.8	-1.7	202.0	201.5	PASS, 0.3%

Best Fit Line (BFL) $Y = 1.0098_x + -0.4987$

$R^2 = 0.99997$

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	501	Moly Temp. (315 ± 5°C)	315.6	Span Gas Tank Pressure (psi)	1600
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	604	Span Gas Regulator ~~Flow~~ (psi)	19.8
NO_X Slope (1 ± 0.3)	1.026	NO Slope (1 ± 0.3)	1.037	Zero Air Generator Pressure (psi)	28.9
NO_X Offset (-20 to 150)	2.0	NO Offset (-20 to 150)	0.7	*Dilution Calibrator Flow (lpm)	3.995

* Document actual value during span activities.

Operator Comments:

Changes to the gaseous audit levels will take effect April 2016 AS PER REVISIONS of 40 CFR Apx A & B.

Operator Signature:

East Plant

O_3 Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC

Operator:	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	1720
R. Arrendue	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	1806
Date:			T400 Analyzer Range	0-500 ppb
3-23-2016			Shelter Temperature (20-30°C)	21.5

Multipoint Audit (Quarterly, or as needed):

Assess the accuracy of data generated by the analyzer using consecutive concentrations representative of the ambient concentrations measured using the Transfer Standard Dilution Calibrator.

Shelter Temperature Standard Measurement (°C): 21.2 **(± 2 °C of the STD)**

Temp. STD Model: Delta Cal **S/N:** 1103 **Cal Date:** 3-12-2016

Sample Flow Standard Measurement (cc/min): 745 **(800 ± 80 cc/min)**

Flow STD Model: 520-M **S/N:** 115242 **Cal Date:** 8-30-2015

Transfer Standard:

Target (ppb)	Actual Generated O_3 (ppb)	O_3 Response (ppb)	Best Fit Line (ppb)	Acceptable Criteria (± 2% from BFL)
Zero Air	0	0.1	0.8	PASS, 0 ± 5 ppb
30	31	32.9	33.7	PASS, 0.5%
60	61	66.7	65.6	PASS, 1.7%
110	111	118.2	118.6	PASS, 0.4%
210	210	223.6	223.7	PASS, 0%
310	311	330.8	330.8	PASS, 0%

Best Fit Line (BFL)

$y = 1.0611x + 0.8498$

$R^2 = 0.99997$

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	743	Sample Temp. (10 - 50°C)	39.5	Zero Air Generator Pressure (psi)	28.9
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	27.6	*Dilution Calibrator Flow (lpm)	3.996
Slope (1 ± 0.15)	1.083	O_3 Measure (2500 - 4800 mV)	2682.7		
Offset (0.0 ± 5 ppb)	-4.4	O_3 Reference (2500 - 4800 mV)	2683.9		

* Document actual value during span activities.

Operator Comments: – Replaced pump
Changes to audit levels start April 2016
PER Revised 40 CFR 58

Operator Signature:

AIR SCIENCES INC.

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Air Quality Audit and Calibration Report Resolution Copper West Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-13
FEBRUARY 2016

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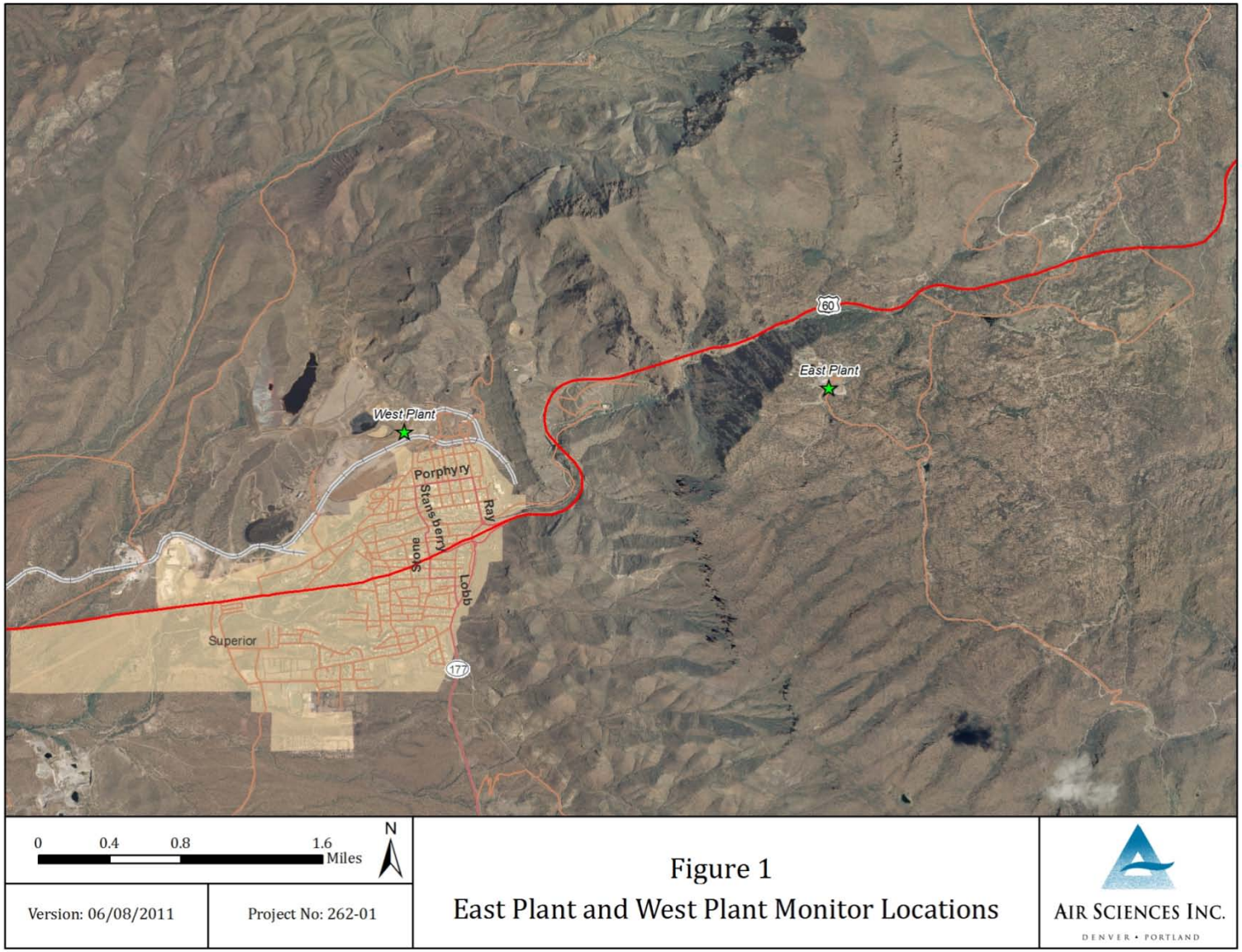
Appendix A – Audit Forms

1.0 INTRODUCTION

On January 25, 2016, the meteorological and air quality instrumentation was audited and/or 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 audit/calibration activities described in this report were conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1. Project Location Map – Resolution Copper East Plant and West Plant Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation audited at the West Plant monitoring site measures wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, precipitation, barometric pressure, and particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$).

The meteorological sensors are mounted to a 35-foot, open-lattice, aluminum drop tower. The particulate monitors are housed in a climate-controlled enclosure. The sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensor and Particulate Inlet Heights (meters above the ground)

Parameter	Approximate Height (meters)
Wind Speed	10
Wind Direction	10
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Precipitation	1
Barometric Pressure	1.5
PM_{10}	2
$PM_{2.5}$	2

Monitored data are recorded via analog inputs on two Campbell Scientific CR3000 datalogger powered independently by either DC solar power. All meteorological sensors are programmed on a one-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a 15-minute interval. The raw 15-minute data averages are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition and Storage System (DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and

a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit and/or calibration procedures for the meteorological and particulate instrumentation at the Resolution Copper West Plant monitoring site. Copies of the completed audit and/or calibration forms for each parameter are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

---

[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

The precipitation gauge was audited by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate was measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 Particulate Matter Audit Procedures

The BAM-1020 PM_{10} and $PM_{2.5}$ monitors were audited 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 instruments to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the instrument were recorded on a standardized form.

4.0 RESULTS AND RECOMMENDATIONS

It was noted that the BAM 1020 PM2.5 monitor was experiencing intermittent flow errors that coincided with temperature errors. These flow errors are indicative of the monitor not being able to detect the ambient temperature sensor. The associated signal wiring and sensor housing appeared serviceable and installed correctly during inspection. Consultation with Met One Instruments to identify further corrective action is forthcoming.

All instruments, sensors, and operating systems were found to be clean, serviceable, and within their recommended tolerance parameters.

All affected meteorological and particulate data will be invalidated due to the on-site audit and calibration activities.

Appendix A – Audit Forms

METEOROLOGICAL STATION AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

Client : Resolution Copper Company
Project No. : 262-13
Site : West Plant
Date : 1/25/2016
Time: 13:30 - 15:30
Personnel: R. Attridge
G. Gylys

SITE MONITORING PARAMETERS AND SENSORS				
Parameter	**Sensors**	**Model #**	**Serial Number**	**Instrument Location on Site**
Datalogger	Campbell Sci. Micrologger	CR3000	6590	1 meter
Wind Speed	R. M. Young Wind Monitor	5305	112952	10 meters
Wind Direction	R. M. Young Wind Monitor	5305	112952	10 meters
Ambient Temperature	Campbell Sci. Probe	HC2S3-L	60749962	2 meters
Relative Humidity	Campbell Sci. Probe	HC2S3-L	60749962	2 meters
Barometric Pressure	Vaisala PTB110 Barometer	PTB110	J3610003	1 meter
Delta Temperature (2m)	R. M. Young 1K RTD Temp. Sensor	41342	020205	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	020211	10 meters
Solar Radiation	Campbell Sci. Pyranometer	CMP3	115433	2 meters
Precipitation	R. M. Young Heated Rain Gauge	52202	08738	Ground

QUALITY ASSURANCE AUDIT EQUIPMENT				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Sci. Micrologger	CR 850	22877	9/27/2017
System Accuracy & Linearity	Compass	N/A	5060706165	9/4/2016
Wind Speed	R. M. Young Anemometer Drive	18802	CA03376	9/3/2016
Torque	Disk 2	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61045255	9/10/2016
Relative Humidity	HygroClip 2	HC2S3	61045255	9/10/2016
Barometric Pressure	Vaisala PTB110 Barometer	CS106	G0770076	9/8/2016
Delta Temperature	Campbell Sci. RTD Probe	41342	TS22521	9/8/2016
Solar Radiation	Campbell Sci. Pyranometer	CMP3	138453	9/15/2016
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS, AS FOUND
Audit Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: 5305
Serial No: 98304

Calibration Motor No.: CA03376
Calibration Disk No.: Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.05	0.00	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise 0.4 g-cm
Counterclockwise 0.4 g-cm

Audited By: R. Attridge

WIND SPEED, 10 METERS, AS LEFT
Calibration Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model:	5305	Calibration Motor No.:	CA03376
Serial No:	98304	Calibration Disk No.:	Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.05	0.00	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise	0.2	g-cm
Counterclockwise	0.3	g-cm

Audited By: G. Gylys

WIND DIRECTION, 10 METERS
Audit Summary

AIR SCIENCES INC.

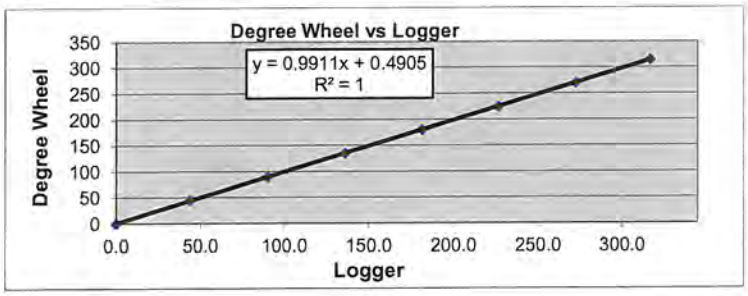
Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: 5305 Serial No: 98304 Compass No.: 5060706165

System Accuracy and Linearity Check Declination[1] = 10 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	182.0	172.0	173.0	171.7	-1.3	±5
Tail	0.2	352.0	351.0	352.6	1.6	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.1	0.1	-0.8	-0.8	±3
45	44.0	-1.0	43.1	-1.9	±3
90	90.1	0.1	89.2	-0.8	±3
135	136.0	1.0	135.1	0.1	±3
180	181.5	1.5	180.6	0.6	±3
225	226.5	1.5	225.6	0.6	±3
270	272.3	2.3	271.4	1.4	±3
315	316.9	1.9	316.0	1.0	±3
	Avg	0.9			
CCW					
0	0.1	0.1	-0.2	-0.2	±3
45	43.7	-1.3	43.4	-1.6	±3
90	89.8	-0.2	89.5	-0.5	±3
135	134.8	-0.2	134.5	-0.5	±3
180	180.7	0.7	180.4	0.4	±3
225	226.6	1.6	226.3	1.3	±3
270	269.9	-0.1	269.6	-0.4	±3
315	316.6	1.6	316.3	1.3	±3
	Avg	0.3			



Audited By: R. Attridge

[1] Declination added to compass
[2] May reference wider acceptance criteria in *QA Handbook for Air Pollution Measurement Systems, Volume IV - Meteorological Measurements, August 1989*

AMBIENT TEMPERATURE, 2 METERS
Audit Summary

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: HC2S3-L
Std Model: HC2S3

Serial No: 61247378
Ref Serial No: 61045255

System Linearity Check

	Standard (°C)	Logger Reading (°C)	Difference (°C)	Acceptance Criteria
1.	16.9	17.2	-0.3	±2
2.	16.5	16.9	-0.4	±2
3.	16.2	16.5	-0.3	±2
4.	15.9	16.2	-0.3	±2
5.	15.7	16.1	-0.4	±2
6.	15.6	15.8	-0.2	±2
7.	15.5	15.7	-0.2	±2
8.	15.4	15.7	-0.3	±2
9.	15.4	15.6	-0.2	±2
10.	15.4	15.7	-0.3	±2

Audited By: R. Attridge

RELATIVE HUMIDITY, 2 METERS
Audit Summary

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: HC2S3-L
Std Model: HC2S3

Serial No: 61247378
Std Serial No: 61045255

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	28.5	27.7	0.8	±7
2.	28.6	27.8	0.8	±7
3.	28.7	28.1	0.6	±7
4.	28.9	28.3	0.6	±7
5.	29.6	29.4	0.2	±7
6.	30.0	29.6	0.4	±7
7.	30.0	29.7	0.3	±7
8.	30.5	30.5	0.0	±7
9.	30.3	29.7	0.6	±7
10.	29.7	28.7	1.0	±7

Audited By: R. Attridge

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: 41342 Serial No (2m): 22517
Serial No (10m): 22516
Std Model: 41342 Std Serial No: TS22521

Aspirator Fans Working Properly? Y

	Standard (°C)	2 Meter (°C)	10 Meter (°C)	Difference 2 Meter [1] (°C)	Difference 10 Meter [1] (°C)
Bath 1	2.28	2.24	2.27	0.04	0.01
Bath 2	27.95	27.88	27.93	0.07	0.02
Bath 3	42.77	42.96	42.87	0.19	0.10

Delta T [2] (°C)	Difference 10M vs. 2M
	0.03
	0.05
	0.09

1. The acceptance criteria for deviation from the standard for both upper and lower temperatures is ± 0.5
2. The acceptance criteria for deviation from the standard for delta temperatures is ± 0.1

Audited By: R. Attridge

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: PTB110 Serial No: J0560099
Std Model: CS106 Std Serial No: G0770076

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	684.9	684.9	0.0	±2.3
2.	684.9	684.9	0.0	±2.3
3.	684.9	684.9	0.0	±2.3
4.	684.9	684.9	0.0	±2.3
5.	684.9	684.9	0.0	±2.3

Audited By: R. Attridge

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: CMP3
Std Model: CMP3

Serial No: 115433
Std Serial No: 138453

System Linearity Check

	Standard (w/m^2)	Logger Reading (w/m^2)	Difference (w/m^2)	Difference (%)	Acceptance Criteria
Covered Reading	0.0	0.0	0.0	0.0	± 25 W/m^2 or 5%
1.	640.8	630.9	9.9	-1.6	± 25 W/m^2 or 5%
2.	640.9	630.3	10.6	-1.7	± 25 W/m^2 or 5%
3.	641.2	631.6	9.6	-1.5	± 25 W/m^2 or 5%
4.	641.8	629.3	12.5	-2.0	± 25 W/m^2 or 5%
5.	641.8	628.7	13.1	-2.1	± 25 W/m^2 or 5%
6.	640.1	629.9	10.2	-1.6	± 25 W/m^2 or 5%
7.	641.0	630.8	10.2	-1.6	± 25 W/m^2 or 5%
8.	624.8	628.9	-4.1	0.7	± 25 W/m^2 or 5%
9.	637.9	627.9	10.0	-1.6	± 25 W/m^2 or 5%
10.	615.9	625.8	-9.9	1.6	± 25 W/m^2 or 5%
		Average	7.2		

Audited By: R. Attridge

PRECIPITATION, GROUND LEVEL
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

Model: 52202 Serial No: 08738

System Linearity Check

	Water (cc)	Calculated Target* (inches)	Logger Reading (inches)	Difference (inches)
1.	2.00	0.0040	0.004	0.000
2.	2.10	0.0042	0.004	0.000
3.	2.10	0.0042	0.004	0.000
4.	2.00	0.0040	0.004	0.000
5.	2.10	0.0042	0.004	0.000
6.	2.10	0.0042	0.004	0.000
7.	2.10	0.0042	0.004	0.000
8.	2.10	0.0042	0.004	0.000
9.	2.00	0.0040	0.004	0.000
10.	2.00	0.0040	0.004	0.000
Total	20.60	0.0410	0.040	0.001

Reading taken from final storage for period averaged data = 0.213 inches

Target (Campbell Scientific gauge) = water (cc)/2.01.004(inches)

Audited By: R. Attridge

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: West Plant
Project: 262-13
Date: 1/25/2016

COMMENTS:

Refurbished the RMY 05305 wind monitor.

Signatures:

West Plant BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC.

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	1/25/2016	**Audited By:**	G. Gylys
Audit Time:	15:30hrs		

Firmware: 3236-06v3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9/10/2015
Temperature Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9/10/2015
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No:	0723	Calibration Date:	9/10/2015

Leak Check Value: as found: 0.2 Should Be: <1.0 as left: 0.2 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	16.1	15.1	as left:	15.8	15.6	Adjusted	X
Barometric Pressure (mmHg):	as found:	681	683	as left:	683	683	Adjusted	X
Flow Rate (15.0 LPM):	as found:	15.1	15.22	as left:	15.0	15.01	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.66	as left:	18.4	18.42	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	16.92	as left:	16.7	16.70	Adjusted	X

Audit Notes: **Monitor found in a good serviceable condition.**

Mechanical Audits

Pump muffler unclogged:	As found	X	As left		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		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			
Chassis ground wire installed:	As found	X	As left		Inlet tube perpendicular to BAM:	As found	X	As left			

Signature: _____

West Plant BAM-1020 $PM_{2.5}$ Audit Sheet

AIR SCIENCES INC.

Model:	**BAM-1020**	**Serial Number:**	M8193
Audit Date:	1/26/2016	**Audited By:**	G. Gylys
Audit Time:	1540 hrs		

Firmware: 3236-06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	DeltaCal	Serial No:	0723	Calibration Date:	9/10/15
Temperature Standard Used:	Model:	DeltaCal	Serial No:	0723	Calibration Date:	9/10/15
Barometric Pressure Standard Used:	Model:	DeltaCal	Serial No:	0723	Calibration Date:	9/10/15

Leak Check Value:	as found:	0.3	Should Be: <1.0	as left: 0.3	Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	17.8	15.6	as left:	15.5	15.6	Adjusted	Y
Barometric Pressure (mmHg):	as found:	682	683	as left:	683	683	Adjusted	Y
Flow Rate (15.0 LPM):	as found:	15.0	15.21	as left:	15.1	14.22	Adjusted	N
Flow Rate (18.4 LPM):	as found:	18.3	18.50	as left:	18.4	18.54	Adjusted	N
Flow Rate (16.7 LPM):	as found:	16.7	16.83	as left:	16.7	16.87	Adjusted	N

Audit Notes: **Calibration and cleaning completed. Corrected clock drift.**

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		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		
Chassis ground wire installed:	As found	x	As left	x	Inlet tube perpendicular to BAM:	As found	x	As left	x		

Signature:

AIR SCIENCES INC.

DENVER • PORTLAND

Air Quality Audit Report Resolution Copper West Plant Monitoring Station

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-20-1
MARCH 2016

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Appendices

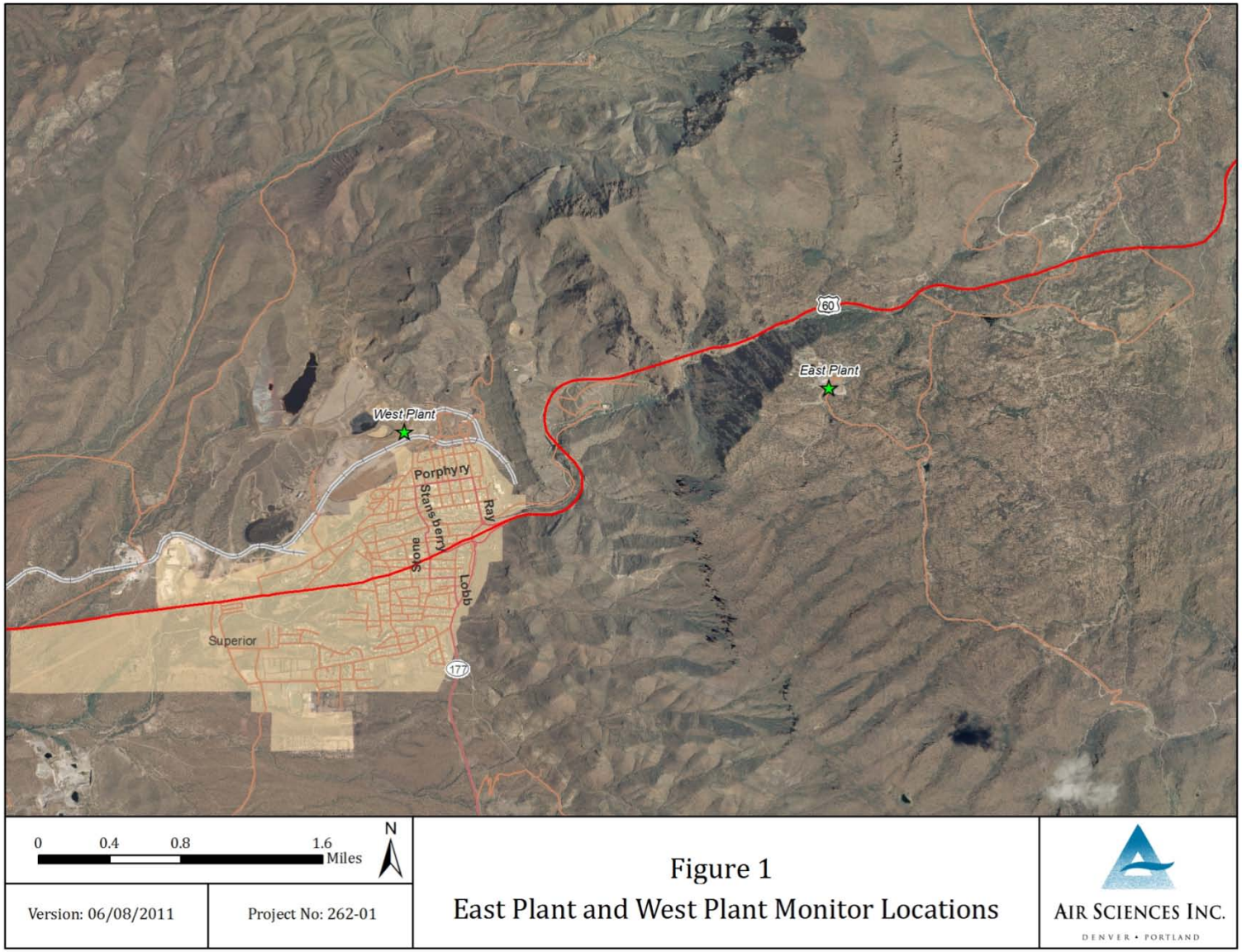
Appendix A – Audit Forms

1.0 INTRODUCTION

On March 22, 2016, the air quality instrumentation was audited 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 audit/calibration activities described in this report were conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-13-003, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Quality Monitoring Program, May 2013
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008
- Code of Federal Regulations (40 CFR Parts 50 and 58)

Figure 1. Project Location Map – Resolution Copper East Plant and West Plant Monitoring Station Locations



2.0 SYSTEM DESCRIPTION

The instrumentation audited at the West Plant monitoring site measures wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, precipitation, barometric pressure, and particulate matter less than 10 and 2.5 microns in diameter (PM_{10} & $PM_{2.5}$).

The meteorological sensors are mounted to a 35-foot, open-lattice, aluminum drop tower. The particulate monitors are housed in a climate-controlled enclosure. The sensor and particulate inlet heights are listed in Table 1 (as measured from ground-level).

Table 1. Sensor and Particulate Inlet Heights (meters above the ground)

Parameter	Approximate Height (meters)
Wind Speed	10
Wind Direction	10
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Precipitation	1
Barometric Pressure	1.5
PM_{10}	2
$PM_{2.5}$	2

Monitored data are recorded via analog inputs on two Campbell Scientific CR3000 datalogger powered independently by either DC solar power. All meteorological sensors are programmed on a one-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory, and a local computer is automatically configured to permanently back up datalogger files on a 15-minute interval. The raw 15-minute data averages are securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. server and processed into the Data Acquisition and Storage System (DASS) for quality assurance checks. These raw 15-minute averages are used as input for the calculation of one-hour averages.

PM_{10} and $PM_{2.5}$ are measured by two Met One Instruments model BAM-1020 particulate monitors. The BAM-1020 is a continuous monitoring device that produces 1-hour averages and

a 24-hour average concentration for the period of 12:00 a.m. (midnight) through 11:59 p.m. for each calendar day. Particulate data are downloaded every hour onto the on-site datalogger via serial communications and are transported via wireless broadband modem directly to the DASS.

3.0 AUDIT AND CALIBRATION METHODOLOGY

This section provides the audit and/or calibration procedures for the meteorological and particulate instrumentation at the Resolution Copper West Plant monitoring site. Copies of the completed audit and/or calibration forms for each parameter are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

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[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

The precipitation gauge was audited by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate was measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 Particulate Matter Audit Procedures

The BAM-1020 PM_{10} and $PM_{2.5}$ monitors were audited 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 instruments to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the instrument were recorded on a standardized form.

4.0 RESULTS AND RECOMMENDATIONS

It was noted during Q4 of 2015 that the BAM 1020 PM2.5 monitor was experiencing intermittent flow errors that coincided with temperature errors. These flow errors are indicative of the monitor not being able to detect the ambient temperature sensor.

After consultation with Met One Instruments, it was suggested that we swap the ambient sensors between the BAM 1020 PM2.5 and the BAM 1020 PM10 monitor to assist with identifying the the root cause of the error. After the sensor swap, the BAM 1020 PM10 monitor replicated the errors originally discovered with the BAM 1020 PM2.5.

On March 21, 2016, the BAM 1020 PM10 monitors ambient temperature sensor probe was replaced per manufacture recommendations. Met One Instruments stated that the entire ambient sensor assembly must be replaced if the errors continue.

All other instruments and operating systems were found to be clean, serviceable, and within their recommended tolerance parameters.

All affected particulate data will be invalidated due to the on-site audit and calibration activities.

Appendix A – Audit Forms

West Plant BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC

Model: BAM-1020

Serial Number: M 8712

Audit Date: 3-21-2016

Audited By: Rory Attridge

Audit Time: 1230 HRS

Firmware: 3236-06 V3.6.3

Flow Audits			
Flow Reference Standard Used:	Model: DELTA CAL	Serial No.: 1103	Calibration Date: 3/12/16
Temperature Standard Used:	Model: DELTA CAL	Serial No.: 1103	Calibration Date: 3/12/16
Barometric Pressure Standard Used:	Model: DELTA CAL	Serial No.: 1103	Calibration Date: 3/12/16

Leak Check Value: As found: 0.1 Should Be: <1.0 As left: 0.2 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	As found:	29.0	28.5	As left:	27.8	27.7	Adjusted	X
Barometric Pressure (mmHg):	As found:	685	684.0	As left:	684	684.0	Adjusted	X
Flow Rate (15.0 LPM):	As found:	15.0	14.90	As left:	15.0	14.99	Adjusted	
Flow Rate (18.4 LPM):	As found:	18.4	18.31	As left:	18.4	18.39	Adjusted	
Flow Rate (16.7 LPM):	As found:	16.7	16.63	As left:	16.7	16.70	Adjusted	

Audit Notes: Monitor found in a good clean serviceable state. Replaced ambient temp probe prior to audit — RPA
Selftest & Tape test OK

Mechanical Audits

	As found	As left		As found	As left		
Pump muffler unclogged:	X		PM_{10} particle trap clean:		X	N/A	
Sample nozzle clean:	X	X	PM_{10} drip jar empty:	X		N/A	
Tape support vane clean:		X	PM_{10} bug screen clear:	X		N/A	
Capstan shaft clean:		X	$PM_{2.5}$ particle trap clean:			N/A	X
Rubber pinch rollers clean:		X	Inlet tube water-tight seal OK:	X	X		
Chassis ground wire installed:	X	X	Inlet tube perpendicular to BAM:	X	X		

Signature: R Attr

West Plant BAM-1020 $PM_{2.5}$ Audit Sheet

AIR SCIENCES INC

Model: BAM-1020

Serial Number: M 8193

Audit Date: 3-21-2016

Audit Time: 1315

Audited By: Rory Attridge

Firmware: 3236-06 V3.6.3

Flow Audits			
Flow Reference Standard Used:	Model: Delta Cal	Serial No.: 1103	Calibration Date: 3/12/16
Temperature Standard Used:	Model: Delta Cal	Serial No.: 1103	Calibration Date: 3/12/16
Barometric Pressure Standard Used:	Model: Delta Cal	Serial No.: 1103	Calibration Date: 3/12/16

Leak Check Value: As found: 0.2 Should Be: <1.0 As left: 0.1 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	As found:	29.1	28.2	As left:	29.2	29.2	Adjusted	X
Barometric Pressure (mmHg):	As found:	684	683.5	As left:	684	683.5	Adjusted	
Flow Rate (15.0 LPM):	As found:	15.0	15.20	As left:	15.0	14.98	Adjusted	X
Flow Rate (18.4 LPM):	As found:	18.4	18.52	As left:	18.4	18.35	Adjusted	X
Flow Rate (16.7 LPM):	As found:	16.7	16.89	As left:	16.7	16.64	Adjusted	X

Audit Notes: Monitor found in a clean serviceable condition - RPA

Mechanical Audits

Pump muffler unclogged:	As found:	X	As left:		PM_{10} particle trap clean:	As found:		As left:	X	N/A
Sample nozzle clean:	As found:		As left:	X	PM_{10} drip jar empty:	As found:	X	As left:	X	N/A
Tape support vane clean:	As found:	X	As left:	X	PM_{10} bug screen clear:	As found:	X	As left:	X	N/A
Capstan shaft clean:	As found:	X	As left:	X	$PM_{2.5}$ particle trap clean:	As found:		As left:	X	N/A
Rubber pinch rollers clean:	As found:	X	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: [signature]

AIR SCIENCES INC.

DENVER • PORTLAND

Audit Report Resolution Copper Hewitt Station Monitoring Site

PREPARED FOR:
RESOLUTION COPPER MINING

Resolution Copper Mining

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-13
FEBRUARY 2016

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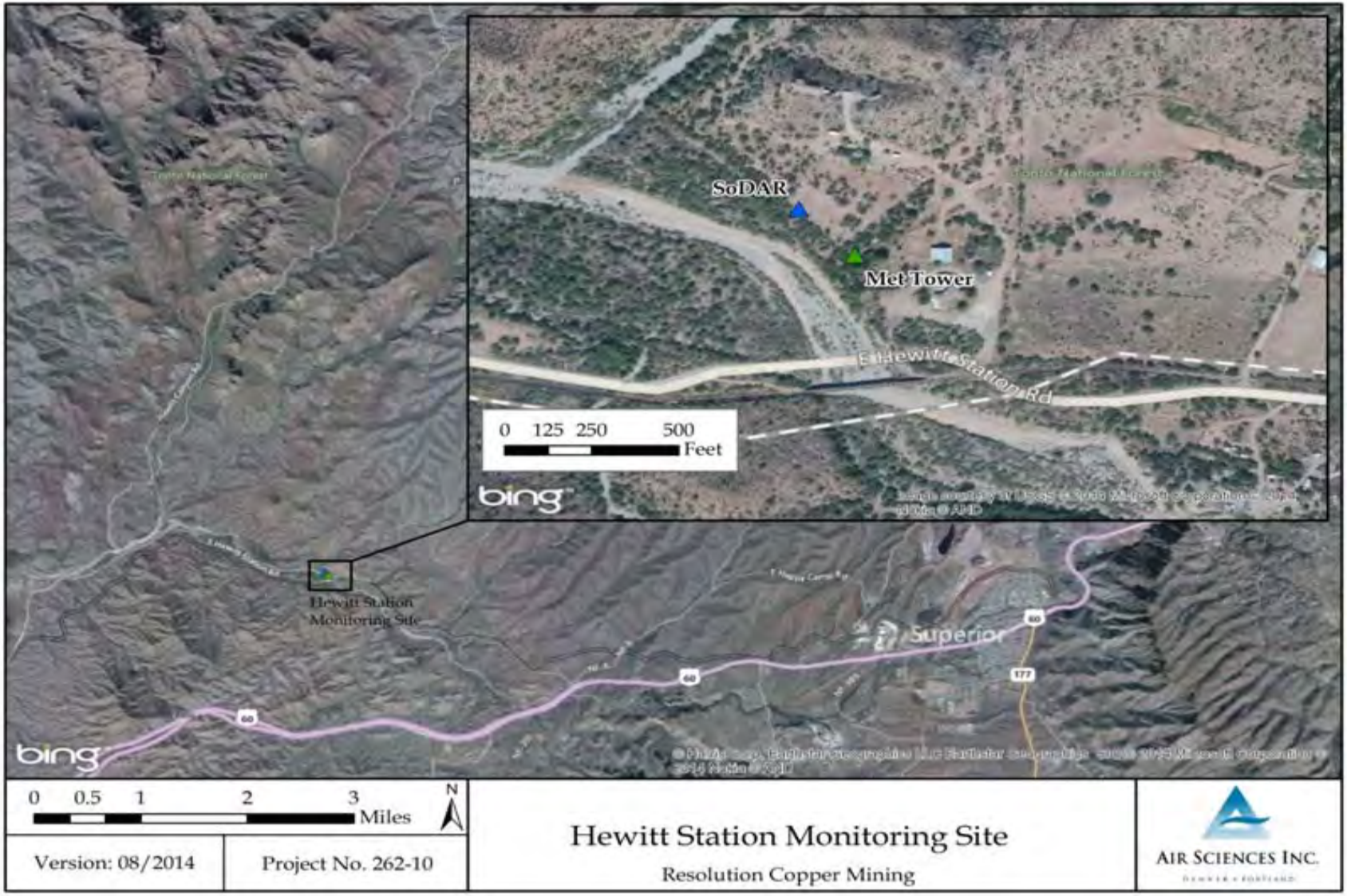
Appendix A – Audit Forms

1.0 INTRODUCTION

On January 26, 2016, an audit of the meteorological and upper air instrumentation was performed at the Resolution Copper Hewitt Station monitoring site near Superior, AZ. The Hewitt Station monitoring site is operated by the Resolution Copper Mining Company and is located approximately six miles west of the Superior (see Figure 1-1). The audit activities described in this report were conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008

Figure 1-1. Project Location Map – Resolution Copper Hewitt Station Monitoring Site



2.0 SYSTEM DESCRIPTION

The meteorological and upper-air instrumentation audited at the Hewitt Station monitoring site measures wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, and barometric pressure. The Sonic Detection and Ranging (SoDAR) system collects upper-air measurements at ten meter intervals from 20 to 190 meters (65-623ft).

The meteorological sensors are mounted to a 65-foot, open-lattice, fixed steel tower. The SoDAR is located 200ft west of the meteorological within a weather proof enclosure. The sensor and SoDAR heights are listed in Table 2-1 (as measured from ground-level).

Table 2-1. Sensor Heights (meters above the ground)

Parameter	Approximate Height (meters)
Wind Speed	10, 20
Wind Direction	10, 20
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Barometric Pressure	1.5
SoDAR	1

Meteorological data are recorded by a Campbell Scientific CR3000 datalogger, powered independently by a DC solar power system. All meteorological sensors are measured on a one-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory and securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. (Air Sciences) server. The raw 15-minute data are processed into the Data Acquisition and Storage System (DASS) for quality assurance checks.

The upper-air data are computed and recorded as raw 15-minute averages using the SoDAR computer and internally programmed algorithms. These averages are temporarily stored on the SoDAR computer and securely transmitted every 24 hours via cellular broadband Internet, to the Air Sciences server. The SoDAR is powered independently by a DC solar power system.

The Hewitt Station meteorological and upper-air raw 15-minute data averages are used as input for the calculation of one-hour averages.

3.0 AUDIT METHODOLOGY

This section provides the audit and/or comparison procedures for the meteorological and upper-air instrumentation at the Resolution Copper Hewitt Station monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by the aligning the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

---

[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 SoDAR System Audit and Comparison Procedures

The SoDAR system audit was performed by initially checking the proper mode of operation and peripheral operating systems such as the on-board generator, solar power, and communication systems in accordance to the manufacture recommendations.

The separate and distinct pulse pattern of the SoDAR was evaluated by generalized audibility.

The SoDAR rotation angle was obtained by siting along the y - axis of the antenna using a Brunton Precision Magnetic Compass (BPMC) mounted on a tripod and compared to the systems software settings.

To ensure a proper system level, a digital level was used to measure the pitch and roll of the SoDAR horizontally.

The SoDAR computer was accessed through the systems LCD interface to obtain the reported date, time, speaker array and antenna status.

The SoDAR monitoring site was inspected for physical obstructions and unusual ambient noise sources or echoes.

The SoDAR system audit results were recorded on a standardized form.

The comparison method was performed to quantify the reasonableness of the SoDAR data. The SoDAR data was compared to the data collected from an adjacent tower. Using the comparison approach, at least 24 hours of data between the tower and SoDAR was compared at the 20-meter level. This comparison method provided an overall evaluation of the SoDAR performance and a means for detecting potential active and passive noise sources.

During periods of calm winds, the adjacent tower's mechanical wind monitor floats within its measurement range, which results in a significant difference between the compared values of the two systems. The vector wind speed and direction comparisons between the SoDAR and the adjacent tower was applied using hourly averaged wind speeds equal to or greater than four meters per second.

4.0 RESULTS AND RECOMMENDATIONS

All instruments, sensors, and operating systems were determined as serviceable, and within their recommended tolerance parameters.

Due to the absence of cellular communications at the site, both the SoDAR and tower data was manually collected. A comparison study to quantify the reasonableness of the SoDAR data will be performed monthly and reported quarterly.

A courtesy inspection of the land owner's rain gauge was completed during site activities.

All affected meteorological data will be invalidated due to the on-site audit activities.

Appendix A – Audit Forms

METEOROLOGICAL STATION AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

Client : Resolution Copper Company
Project No. : 262-13-1
Site : Hewitt Station
Date : 1/26/2016
Time: 09:45 - 11:45
Personnel: R. Attridge
G. Gylys

SITE MONITORING PARAMETERS AND SENSORS				
Parameter	**Sensors**	**Model #**	**Serial Number**	**Instrument Location on Site**
Datalogger	Campbell Sci. Micrologger	CR3000	9459	1 meter
Wind Speed	R. M. Young Wind Monitor	5305	129212	10 meters
Wind Direction	R. M. Young Wind Monitor	5305	129212	10 meters
Wind Speed	R. M. Young Wind Monitor	5305	129214	20 meters
Wind Direction	R. M. Young Wind Monitor	5305	129214	20 meters
Ambient Temperature	Campbell Sci. Probe	HC2S3-L	61222062	2 meters
Relative Humidity	Campbell Sci. Probe	HC2S3-L	61222062	2 meters
Barometric Pressure	Vaisala PTB110 Barometer	PTB110B	K1640005	1.5 meters
Delta Temperature (2m)	R. M. Young 1K RTD Temp. Sensor	41342	24466	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	24382	10 meters
Solar Radiation	Campbell Sci. Pyranometer	CMP3	140693	2 meters

QUALITY ASSURANCE AUDIT EQUIPMENT				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Sci. Micrologger	CR 850	22877	9/27/2017
System Accuracy & Linearity	Compass	N/A	5060706165	9/4/2016
Wind Speed	R. M. Young Anemometer Drive	18802	CA03376	9/3/2016
Torque	Disk 2	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61045255	9/1/2015
Relative Humidity	HygroClip 2	HC2S3	61045255	9/1/2015
Barometric Pressure	Vaisala PTB110 Barometer	CS106	G0770076	8/1/2015
Delta Temperature	Campbell Sci. RTD Probe	41342	TS22521	9/1/2015
Solar Radiation	Campbell Sci. Pyranometer	CMP3	138453	11/1/2016
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS AS FOUND
Audit Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: 5305
Serial No: 129212

Calibration Motor No.: CA03376
Calibration Disk No.: Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.05	0.00	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise 0.4 g-cm
Counterclockwise 0.4 g-cm

Audited By: R. Attridge G. Gylys

WIND SPEED, 10 METERS AS LEFT
Calibration Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: 5305
Serial No: 129212

Calibration Motor No.: CA03376
Calibration Disk No.: Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.05	0.00	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise 0.3 g-cm
Counterclockwise 0.2 g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND

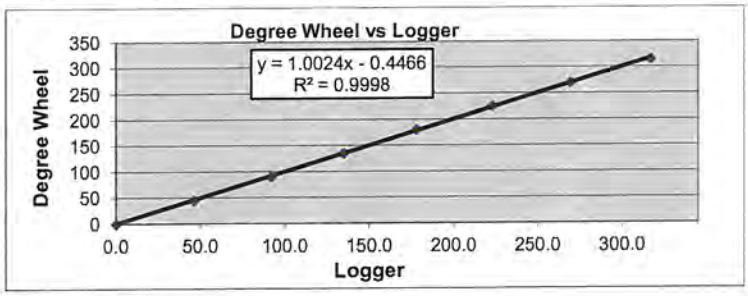
Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: 5305 Serial No: 129212 Compass No.: 5060706165

System Accuracy and Linearity Check Declination[1] = 10 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	114.0	104.0	102.0	102.7	0.7	±5
Tail	295.0	285.0	284.0	282.2	-1.8	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.2	0.2	0.1	0.1	±3
45	46.2	1.2	46.1	1.1	±3
90	91.9	1.9	91.8	1.8	±3
135	134.8	-0.2	134.7	-0.3	±3
180	177.9	-2.1	177.8	-2.2	±3
225	223.1	-1.9	223.0	-2.0	±3
270	269.7	-0.3	269.6	-0.4	±3
315	316.8	1.8	316.7	1.7	±3
Avg		0.1			
CCW					
0	0.3	0.3	0.1	0.1	±3
45	46.7	1.7	46.5	1.5	±3
90	90.2	0.2	90.0	0.0	±3
135	134.6	-0.4	134.4	-0.6	±3
180	179.3	-0.7	179.1	-0.9	±3
225	224.1	-0.9	223.9	-1.1	±3
270	269.8	-0.2	269.6	-0.4	±3
315	316.9	1.9	316.7	1.7	±3
Avg		0.2			



Audited By: R. Attridge G. Gylys

[1] Declination added to compass
[2] May reference wider acceptance criteria in *QA Handbook for Air Pollution Measurement Systems, Volume IV - Meteorological Measurements, August 1989*

WIND SPEED, 20 METERS AS FOUND
Audit Summary

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model:	5305	Calibration Motor No.:	CA03376
Serial No:	129214	Calibration Disk No.:	Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.05	0.00	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise	0.4	g-cm
Counterclockwise	0.4	g-cm

Audited By: R. Attridge G. Gylys

WIND SPEED, 20 METERS AS LEFT
Calibration Summary

AIR SCIENCES INC.

DENVER • PORTLAND

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: 5305
Serial No: 129214

Calibration Motor No.: CA03376
Calibration Disk No.: Disk 2

System Linearity Check

	Standard RPM	Target* m/s	Logger Reading m/s	Difference m/s	Acceptance Criteria
CW	0.0	0.00	0.00	0.00	0.0
CW	200.0	1.02	1.02	0.00	0.3
CW	400.0	2.05	2.05	0.00	0.3
CW	600.0	3.07	3.07	0.00	0.4
CW	800.0	4.10	4.10	0.00	0.4
CW	1000.0	5.12	5.12	0.00	0.5
CW	2000.0	10.24	10.24	0.00	0.7
CW	3000.0	15.36	15.36	0.00	1.0
CW	4000.0	20.48	20.48	0.00	1.2
CW	5000.0	25.60	25.60	0.00	1.5

RM Young
*Target (m/s) = rpm x 0.00512

Bearing Torque Test (Passing 0.4 m/s = 0.6 g-cm)

Clockwise 0.3 g-cm
Counterclockwise 0.3 g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 20 METERS
Audit Summary

AIR SCIENCES INC.
DENVER • PORTLAND

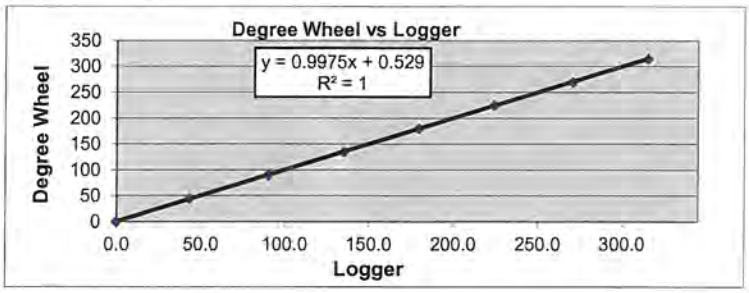
Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: 5305 Serial No: 129214 Compass No.: 5060706165

System Accuracy and Linearity Check Declination[1] = 10 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	114.0	104.0	102.0	102.8	0.8	±5
Tail	295.0	285.0	284.0	285.5	1.5	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.0	0.0	0.2	0.2	±3
45	43.6	-1.4	43.7	-1.3	±3
90	90.2	0.2	90.3	0.3	±3
135	135.2	0.2	135.3	0.3	±3
180	179.6	-0.4	179.7	-0.3	±3
225	224.2	-0.8	224.3	-0.7	±3
270	270.8	0.8	270.9	0.9	±3
315	315.3	0.3	315.4	0.4	±3
	Avg	-0.1			
CCW					
0	0.1	0.1	1.0	1.0	±3
45	43.6	-1.4	44.5	-0.5	±3
90	87.7	-2.3	88.6	-1.4	±3
135	133.3	-1.7	134.2	-0.8	±3
180	179.0	-1.0	179.9	-0.1	±3
225	224.9	-0.1	225.8	0.8	±3
270	268.7	-1.3	269.6	-0.4	±3
315	315.4	0.4	316.3	1.3	±3
	Avg	-0.9			



Audited By: R. Attridge G. Gylys

[1] Declination added to compass
[2] May reference wider acceptance criteria in *QA Handbook for Air Pollution Measurement Systems, Volume IV - Meteorological Measurements, August 1989*

AMBIENT TEMPERATURE, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: HC2S3-L
Std Model: HC2S3

Serial No: 61222062
Ref Serial No: 61045255

System Linearity Check

	Standard (°C)	Logger Reading (°C)	Difference (°C)	Acceptance Criteria
1.	12.7	12.6	0.1	±2
2.	12.6	12.6	0.0	±2
3.	12.5	12.6	-0.1	±2
4.	12.5	12.5	0.0	±2
5.	12.5	12.5	0.0	±2
6.	12.5	12.4	0.1	±2
7.	12.4	12.4	0.0	±2
8.	12.4	12.4	0.0	±2
9.	12.4	12.3	0.1	±2
10.	12.4	12.3	0.1	±2

Audited By: R. Attridge

RELATIVE HUMIDITY, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: HC2S3-L
Serial No: 61222062
Std Model: HC2S3
Std Serial No: 61045255

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	21.5	21.1	0.4	±7
2.	21.9	21.6	0.3	±7
3.	22.1	21.9	0.2	±7
4.	22.3	21.9	0.4	±7
5.	22.4	22.1	0.3	±7
6.	22.5	22.2	0.3	±7
7.	22.6	22.2	0.4	±7
8.	22.7	22.4	0.3	±7
9.	22.6	22.1	0.5	±7
10.	21.8	21.1	0.7	±7

Audited By: R. Attridge

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: 41342 Serial No (2m): 24466
Serial No (10m): 24382
Std Model: 41342 Std Serial No: TS22521

Aspirator Fans Working Properly? Y

	Standard (°C)	2 Meter (°C)	10 Meter (°C)	Difference 2 Meter [1] (°C)	Difference 10 Meter [1] (°C)
Bath 1	0.10	0.04	0.05	0.06	0.05
Bath 2	13.08	13.06	13.07	0.02	0.01
Bath 3	43.27	43.11	43.15	0.16	0.12

Delta T [2] (°C)	Difference 10M vs. 2M
	0.01
	0.01
	0.04

1. The acceptance criteria for deviation from the standard for both upper and lower temperatures is ± 0.5
2. The acceptance criteria for deviation from the standard for delta temperatures is ± 0.1

Audited By: R. Attridge

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: PTB110B
Serial No: K1640005
Std Model: CS106
Std Serial No: G0770076

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	707.9	706.6	1.3	±2.3
2.	707.9	706.6	1.3	±2.3
3.	707.9	706.6	1.3	±2.3
4.	707.9	706.6	1.3	±2.3
5.	707.9	706.6	1.3	±2.3

Audited By: R. Attridge

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-13-1
Date: 1/26/2016

Model: CMP3
Std Model: CMP3

Serial No: 140693
Std Serial No: 138453

System Linearity Check

	Standard (w/m^2)	Logger Reading (w/m^2)	Difference (w/m^2)	Difference (%)	Acceptance Criteria
Covered Reading	0.0	0.0	0.0	0.0	± 25 W/m^2 or 5%
1.	746.5	747.2	-0.7	0.1	± 25 W/m^2 or 5%
2.	752.0	748.0	4.0	-0.5	± 25 W/m^2 or 5%
3.	752.4	748.4	4.0	-0.5	± 25 W/m^2 or 5%
4.	753.3	747.5	5.8	-0.8	± 25 W/m^2 or 5%
5.	754.6	747.7	6.9	-0.9	± 25 W/m^2 or 5%
6.	756.4	747.4	9.0	-1.2	± 25 W/m^2 or 5%
7.	754.4	747.4	7.0	-0.9	± 25 W/m^2 or 5%
8.	756.2	747.7	8.5	-1.1	± 25 W/m^2 or 5%
9.	764	748.2	15.8	-2.1	± 25 W/m^2 or 5%
10.	770.2	748.3	21.9	-2.9	± 25 W/m^2 or 5%
		Average	8.2		

Audited By: R. Attridge

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.

Operator:	Air Sciences
Site Name:	Hewitt Station
Project:	262-13-1
Date:	1/26/2016

COMMENTS:

The 10:00 to 12:00hrs data shall be invalidated resulting from the audit activities.

The land owners precipitation gauge was inspected and triggered to verify operation and.

10M and 20m Wind Monitor Nose cone bearing replacement.

Data downloaded.

Signatures:

AIR SCIENCES INC.

Hewitt Station
SoDAR System Audit
Resolution Copper Company

Date: 1-26-2016 Time: 0930 Auditor: R. ATTRINGE

SoDAR System

Instrument	ACS SoDAR
Instrument Model	WE 4000
Instrument Serial Number	3002
Rotation Angle Measured	105°
Declination	10° East
Latitude/Longitude (Deg)	Lat 33.2978 / Long -111.2114
Elevation (ft)	2,236

SoDAR System Status

SoDAR System	System Status As Found	System Status As Left
Battery Voltage (V)	14.33	14.21
Ambient Temp° C	10.2	12.36
Heater ON or OFF as Found	OFF	OFF
Generator ON or OFF as Found	OFF	OFF
Rain Detection YES or NO	NO	NO
Snow Detection YES or NO	NO	NO
Antenna Status	OK	OK
Speaker Array	OK	OK
Rotation Angle	**105°**	**105°**
System Level (< 0.5°)	**P=0.1 R=0.1**	**P=0.1 R=0.1**
Fuel Level	**¼ Full**	**¼ Full**
Date / Time	1-26-16 / 0928	1-26-16 / 1030

SoDAR Siting and Exposure

Azimuth Angle (Deg.)			
Magnetic	True	Terrain Elevation (ft)	Features / Distance (meters)
—	0	2,268	House on Hilltop / ~ 117m
—	30	2,246	Horse Corral / ~ 2m Loafing Shed / ~ 50m
—	60	2,245	Cluster of Small Outbuildings / ~ 60m
—	90	2,242	Surface Vegetation, Scrub Brush / ~ 70m
—	120	2,243	Barn / 102m
—	150	2,235	Meteorological Tower / ~ 60m
—	180	2,225	Rural Dirt Road / ~ 150m
—	240	2,252	Hilltop / ~ 211m
—	270	2,227	Surface Vegetation, Scrub Brush / ~ 135m
—	300	2,218	Creek Bottom / ~ 187m
—	330	2,278	Hilltop / ~ 227m

Comments/Unusual Occurrences: No new surface obstruction noted; ran SoDAR generator for 30min; downloaded data.

Auditor Signature: _____

AIR SCIENCES INC.

DENVER • PORTLAND

Audit Report Resolution Copper Hewitt Station Monitoring Site

PREPARED FOR:
RESOLUTION COPPER MINING

Resolution Copper Mining

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-20-1
MARCH 2016

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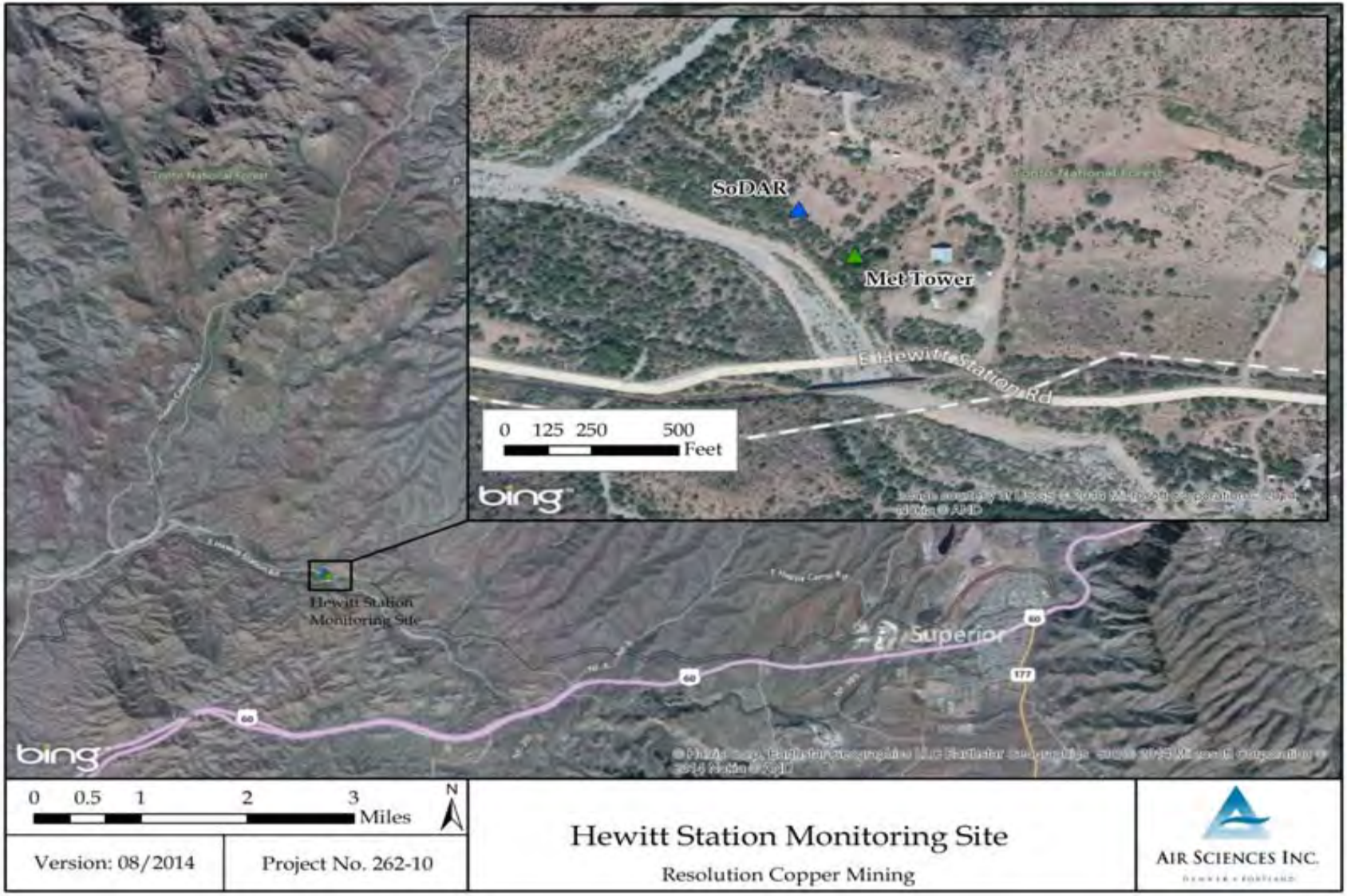
Appendix A – Audit Forms

1.0 INTRODUCTION

On March 24, 2016, an audit of upper air instrumentation was performed at the Resolution Copper Hewitt Station monitoring site near Superior, AZ. The Hewitt Station monitoring site is operated by the Resolution Copper Mining Company and is located approximately six miles west of the Superior (see Figure 1-1). The audit activities described in this report were conducted in accordance with the following guideline documents:

- EPA-450/4-87-007, Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), May 1987
- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8.4, February 2000
- EPA-454/B-08-002, Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008

Figure 1-1. Project Location Map – Resolution Copper Hewitt Station Monitoring Site



2.0 SYSTEM DESCRIPTION

The meteorological and upper-air instrumentation audited at the Hewitt Station monitoring site measures wind speed, wind direction, ambient temperature, vertical height temperature difference (delta temperature), solar radiation, relative humidity, and barometric pressure. The Sonic Detection and Ranging (SoDAR) system collects upper-air measurements at ten meter intervals from 20 to 190 meters (65-623ft).

The meteorological sensors are mounted to a 65-foot, open-lattice, fixed steel tower. The SoDAR is located 200ft west of the meteorological within a weather proof enclosure. The sensor and SoDAR heights are listed in Table 2-1 (as measured from ground-level).

Table 2-1. Sensor Heights (meters above the ground)

Parameter	Approximate Height (meters)
Wind Speed	10, 20
Wind Direction	10, 20
Ambient Temperature	2
Delta Temperature	2, 10
Solar Radiation	2
Relative Humidity	2
Barometric Pressure	1.5
SoDAR	1

Meteorological data are recorded by a Campbell Scientific CR3000 datalogger, powered independently by a DC solar power system. All meteorological sensors are measured on a one-second scan interval, and the output is digitally processed and recorded into 15-minute averages. The raw 15-minute averages are temporarily stored on the datalogger memory and securely transmitted, via cellular broadband Internet services, to the Air Sciences Inc. (Air Sciences) server. The raw 15-minute data are processed into the Data Acquisition and Storage System (DASS) for quality assurance checks.

The upper-air data are computed and recorded as raw 15-minute averages using the SoDAR computer and internally programmed algorithms. These averages are temporarily stored on the SoDAR computer and securely transmitted every 24 hours via cellular broadband Internet, to the Air Sciences server. The SoDAR is powered independently by a DC solar power system.

The Hewitt Station meteorological and upper-air raw 15-minute data averages are used as input for the calculation of one-hour averages.

3.0 AUDIT METHODOLOGY

This section provides the audit and/or comparison procedures for the meteorological and upper-air instrumentation at the Resolution Copper Hewitt Station monitoring site. Copies of the completed audit forms for each parameter are included in Appendix A.

3.1 Meteorological Sensor Audit Procedures

The wind speed sensor audit was performed by rotating the sensor shaft using a DC-powered variable-speed motor equipped with an optical encoder output referenced to a crystal oscillator. A target sensor speed was calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc was used to measure the anemometer starting torque. All data were recorded on a standardized form.

The audit of the wind direction system was performed by the aligning the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a tripod was used to establish the orientation of the cross-arm using the Magnetic Declination Method.[1] With the wind direction sensor oriented along the axis of the cross-arm, the sensor response was compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity was checked by recording the system response at 45-degree intervals over the operating range of the system.

The ambient temperature sensor audit was performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings were recorded on a standardized form.

The differential temperature sensor audit was performed by immersing both temperature sensors in a series of three water baths within the range of the temperature sensors. Positive and negative temperature differentials were checked by immersing the sensors in separate water baths. All cabling and associated wiring remained intact for the audit of both sensors. A Precision Temperature Sensor was used to measure the bath temperatures. All audit data were recorded on standardized forms.

The solar radiation sensor audit was performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings were recorded on a standardized form.

---

[1] Refer to section 2.5.2.2 of the Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements Version 2.0, March 2008, for more details.

[2] National Institute of Standards and Technology

The relative humidity sensor audit was performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings were recorded on a standardized form.

The barometric pressure sensor audit was performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings were recorded on a standardized form.

3.2 SoDAR System Audit and Comparison Procedures

The SoDAR system audit was performed by initially checking the proper mode of operation and peripheral operating systems such as the on-board generator, solar power, and communication systems in accordance to the manufacture recommendations.

The separate and distinct pulse pattern of the SoDAR was evaluated by generalized audibility.

The SoDAR rotation angle was obtained by siting along the y - axis of the antenna using a Brunton Precision Magnetic Compass (BPMC) mounted on a tripod and compared to the systems software settings.

To ensure a proper system level, a digital level was used to measure the pitch and roll of the SoDAR horizontally.

The SoDAR computer was accessed through the systems LCD interface to obtain the reported date, time, speaker array and antenna status.

The SoDAR monitoring site was inspected for physical obstructions and unusual ambient noise sources or echoes.

The SoDAR system audit results were recorded on a standardized form.

The comparison method was performed to quantify the reasonableness of the SoDAR data. The SoDAR data was compared to the data collected from an adjacent tower. Using the comparison approach, at least 24 hours of data between the tower and SoDAR was compared at the 20-meter level. This comparison method provided an overall evaluation of the SoDAR performance and a means for detecting potential active and passive noise sources.

During periods of calm winds, the adjacent tower's mechanical wind monitor floats within its measurement range, which results in a significant difference between the compared values of the two systems. The vector wind speed and direction comparisons between the SoDAR and the adjacent tower was applied using hourly averaged wind speeds equal to or greater than four meters per second.

4.0 RESULTS AND RECOMMENDATIONS

The SoDAR and its operating systems were determined as serviceable, and within the manufacturers recommended tolerances. The SoDAR generator was operated for approximately 10 minutes. No new surface obstruction were noted within and or around the SoDAR.

Due to the absence of cellular communications at the site, both the SoDAR and tower data comparison study to quantify the reasonableness of the SoDAR data will be performed monthly and reported quarterly.

A courtesy inspection of the land owner's rain gauge was completed during site activities.

All affected SoDAR data will be invalidated due to the on-site audit activities.

Appendix A – Audit Forms

AIR SCIENCES INC.

Hewitt Station
SoDAR System Audit
Resolution Copper Company

Date: 3-24-2016 Time: 1452 Auditor: R. Arteaque

SoDAR System

Instrument	ACS SoDAR
Instrument Model	WE 4000
Instrument Serial Number	3002
Rotation Angle Measured	105°
Declination	10° East
Latitude/Longitude (Deg)	Lat 33.2978 / Long -111.2114
Elevation (ft)	2,236

SoDAR System Status

SoDAR System	System Status As Found	System Status As Left
Battery Voltage (V)	12.74	12.78
Ambient Temp° C	22.6	22.9
Heater ON or OFF as Found	OFF	OFF
Generator ON or OFF as Found	OFF	OFF
Rain Detection YES or NO	NO	NO
Snow Detection YES or NO	NO	NO
Antenna Status	OK	OK
Speaker Array	OK	OK
Rotation Angle	105°	105°
System Level (< 0.5°)	P=0.1 R=0.1	P=0.1 R=0.1
Fuel Level	Empty (¼) ½ ¾ Full	Empty (¼) ½ ¾ Full
Date / Time	3-24-2016 / 1453	3-24-2016 / 1510

SoDAR Siting and Exposure

Azimuth Angle (Deg.)			
Magnetic	True	Terrain Elevation (ft)	Features / Distance (meters)
—	0	2,268	House on Hilltop / ~ 117m
—	30	2,246	Loafing Shed / ~ 50m
—	60	2,245	Cluster of Small Outbuildings / ~ 60m
—	90	2,242	Surface Vegetation, Scrub Brush / ~ 70m
—	120	2,243	Barn / 102m
—	150	2,235	Meteorological Tower / ~ 60m
—	180	2,225	Rural Dirt Road / ~ 150m
—	240	2,252	Hilltop / ~ 211m
—	270	2,227	Surface Vegetation, Scrub Brush / ~ 135m
—	300	2,218	Creek Bottom / ~ 187m
—	330	2,278	Hilltop / ~ 227m

Comments/Unusual Occurrences: NONE

Auditor Signature: _____

Appendix J: CD