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

July 1 – September 30, 2017

PREPARED FOR:
RESOLUTION COPPER,
A MEMBER OF THE RIO TINTO GROUP

PROJECT NO. 262-28-2
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1.0 INTRODUCTION

This report summarizes the meteorological, upper-air (SoDAR[1]), 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 third quarter, July 1 through September 30, 2017. Monitoring was performed in accordance with the *Resolution Copper Mining Monitoring Plan, March 2016* ("Monitoring Plan") (approved by the Pinal County Air Quality Control District [PCAQCD] on July 28, 2016).

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 in support of 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 four 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 Far West station is located 16 miles southwest of Superior, Arizona. The topography ranges from flat to hilly to mountainous.

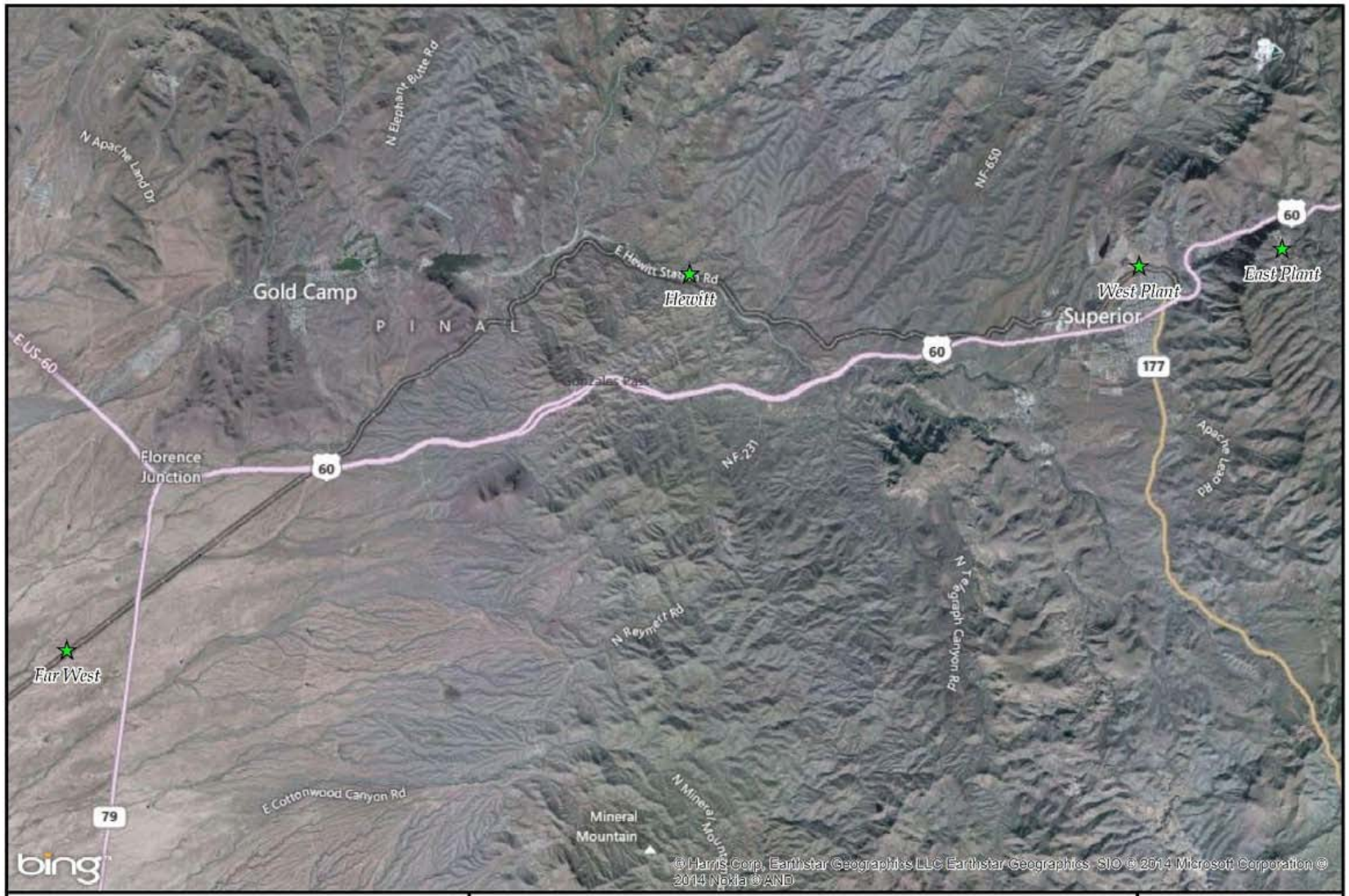
The monitoring station locations are listed by coordinates in Table 1 and are shown in Figure 1.

Table 1. Monitoring Station Locations

Station	Location	Latitude (Deg)	Longitude (Deg)	Elevation (ft)	Method of Determination
East Plant	S32 T1S R13E	33.3037	-111.0674	4,176	GPS
West Plant	S35 T1S R12E	33.2994	-111.1020	2,968	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
Far West	S36 T2S R9E	33.2107	-111.3769	1,754	GPS

[1] Sonic Detection and Ranging (SoDAR) systems use acoustic pulses to measure wind profiles at various sample heights above the ground.

Figure 1. Resolution Monitoring Site Locations



0 1.25 2.5 5 Miles N

Version: 08/2014

Project No. 262-10

Figure 4
Resolution Monitoring Sites
Resolution Copper Mining

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1.2 Monitoring Program Description

Meteorological sensors and air quality instrumentation at the East Plant, West Plant, and Far West 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. Sensors for all four sites are listed by height in meters, from ground level, in Table 2.

Table 2. Sensors and Heights (meters)

		East Plant	West Plant	Hewitt	Far West
AERMOD Meteorological Data	Horizontal wind speed (meters per second [m/s])	10	10	10, 20	10
	Horizontal wind direction (degrees [°])	10	10	10, 20	10
	Horizontal wind direction standard deviation (sigma theta)	10	10	10, 20	10
	Air temperature (degrees Celsius [°C])	2	2	2	2
	Vertical temperature difference (ΔT, Delta T; °C)	2, 10	2, 10	2, 10	2, 10
	Relative humidity (percent [%])	2	2	2	2
	Solar radiation (watts per square meter [W/m^2])	2	2	2	3
	Barometric pressure (millimeters of mercury [mmHg])	1	1	1	1
	Precipitation (inches [in])	Ground	Ground	--	--
Upper-Air Data	Wind speed by vector component (u, v, w; m/s)	--	--	1	--
	Wind direction by sub-hourly scalar mean (direction [°])	--	--	1	--
	Standard deviation of vector component (u, v, w)	--	--	1	--
Ambient Air Data	FEM* Particulate matter less than 10 microns (PM_{10})	3	2	--	--
	FEM* Particulate matter less than 2.5 Microns ($PM_{2.5}$)	3	2	--	--
	Nitrogen dioxide (NO_2)	3	--	--	--
	Sulfur dioxide (SO_2)	3	--	--	--
	Ozone (O_3)	3	--	--	--

*Federal Equivalent Method (FEM)

1.2.1 Meteorological and Upper-Air Data

Meteorological data are recorded by 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 data from July 1 through September 30, 2017. In addition, Section 3.0 provides a summary and discussion of the meteorological and upper-air data during this quarter.

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 Monitoring 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 July 1 through September 30, 2017.

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 Monitoring 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 July 1 through September 30, 2017.

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 Monitoring 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 July 1 through September 30, 2017.

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 Monitoring Plan.

1.2.5 PM Data

PM_{10} and $PM_{2.5}$ are measured at the East Plant and West Plant sites using Met One Instruments' Beta Attenuation Monitors (BAM). At each site, one BAM is configured as a $PM_{2.5}$ 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 July 1 through September 30, 2017.

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 Monitoring Plan.

2.0 DATA RECOVERY RATES

Data recovery rates for all parameters at all the stations are presented in Table 3. Meteorological and upper-air data recoveries are calculated by dividing the amount of valid hourly averages by the available hourly periods in the quarter. Particulate and gaseous data recoveries are calculated by dividing the amount of valid 24-hour averages (for PM_{10} and $PM_{2.5}$), valid 24-hour maximum values (for SO_2 and NO_2), and valid daily rolling 8-hour maximum values (for O_3) by the number of days in the quarter. Particulate and gaseous 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
July 1–September 30, 2017 (percent)

	East Plant		West Plant		Hewitt		Far West		
Parameter*	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Recorded Observations**	**Recovery Rate**	**Minimum Required Recovery Rate**
Meteorological									
Wind speed (10 m)	2,206	99.9	2,075	94.0	268	12.1**	2,201	99.7	90
Wind direction (10 m)	2,206	99.9	2,075	94.0	268	12.1**	2,201	99.7	90
Wind speed (20 m)	--	--	--	--	1,960	88.8**	--	--	90
Wind direction (20 m)	--	--	--	--	1,960	88.8**	--	--	90
Temperature (2 m)	2,206	99.9	2,075	94.0	2,206	99.9	2,001	99.7	90
Delta temperature	2,198	99.5	2,069	93.7	2,206	99.9	2,241	92.4	90
Relative humidity	2,206	99.9	2,075	94.0	2,206	99.9	2,201	99.7	90
Barometric pressure	2,206	99.9	2,075	94.0	2,206	99.9	2,201	99.7	90
Precipitation	2,206	99.9	2,075	94.0	--	--	--	--	90
Solar radiation	2,206	99.9	2,075	94.0	2,206	99.9	2,201	99.7	90
Upper-Air (SoDAR)									
Wind speed (20-190 m)	--	--	--	--	2,037-2,041	92.3 – 92.4	--	--	90
Wind direction (20-190 m)	--	--	--	--	2,037-2,041	92.3 – 92.4	--	--	90
Gaseous									
NO_2	85	92.4	--	--	--	--	--	--	75
O_3	72	78.3	--	--	--	--	--	--	75
SO_2	90	97.8	--	--	--	--	--	--	75
Particulate									
PM_{10}	92	100	78	84.8	--	--	--	--	75
$PM_{2.5}$	92	100	91	98.9	--	--	--	--	75

* Meteorological and upper-air parameters are observed hourly (2,208 hours in this period).
NO_2, O_3, SO_2, and PM parameters are observed every 24 hours (92 days in this period).
** Entries in red indicate recovery rates that do not meet the minimum requirement.

2.1 Data Loss

2.1.1 Meteorological Data Loss

2.1.1.1 East Plant Meteorological Data Loss

East Plant meteorological data were invalidated during the third quarter of 2017 due to facility power outages and semi-annual audit and/or maintenance activities.

2.1.1.2 West Plant Meteorological Data Loss

During the quarterly audit and maintenance activities conducted on July 10, 2017, the West Plant data pending recovery for the third quarter of 2017 were inadvertently deleted by the Field Technician, resulting in data loss of 120 hours.

Additional data were invalidated due to facility power outages and semi-annual audit and/or maintenance activities.

2.1.1.3 Hewitt Station Meteorological and Upper-Air Data Loss

The Hewitt Station 20-meter wind data collected for the third quarter of 2017 were flagged due to the results from audit activities performed on July 11, 2017. The 20-meter wind monitor failed to meet the accuracy and linearity audit requirements for wind direction.

The 10-meter wind monitor was relocated to the 20-meter level to maintain wind data collection at 20 meters after the audit activities. This resulted in the missing 10-meter wind data for the third quarter of 2017.

Additional invalid and/or missing Hewitt Station tower/SoDAR data during the third quarter of 2017 were due to routine inspections, audit activities, or atmospheric disturbances, such as precipitation or surface noise detected and invalidated by the SoDAR system.

2.1.1.4 Far West Meteorological Data Loss

Far West meteorological data were invalidated during the third quarter of 2017 due to power outages and semi-annual audit and/or maintenance activities.

2.1.2 NO_2 Data Loss

NO_2 data were invalidated due to Level 1 and Level 2 zero/span checks and weekly services during the third quarter of 2017. Additional NO_2 data were invalidated due to quarterly audit activities, facility power outages, and data quality assurance and control procedures.

2.1.3 SO_2 Data Loss

SO_2 data were invalidated due to Level 1 and Level 2 zero/span checks and weekly services during the third quarter of 2017. Additional SO_2 data were invalidated due to quarterly audit activities and facility power outages.

2.1.4 O_3 Data Loss

O_3 data were invalidated due to Level 1 and Level 2 zero/span checks and weekly services during the third quarter of 2017. Additional SO_3 data were invalidated due to quarterly audit activities, facility power outages and minor instrumentation errors.

2.1.5 PM Data Loss

2.1.5.1 East Plant PM Data Loss

No 24-hour average PM_{10} and $PM_{2.5}$ data were invalidated at the East Plant station during the third quarter of 2017. Invalid hourly PM_{10} and $PM_{2.5}$ data at the East Plant station were due to monthly flow verifications, regularly scheduled maintenance, audit activates, power outages, and internal instrument errors.

2.1.5.2 West Plant PM Data Loss

The 24-hour average PM_{10} and $PM_{2.5}$ data were invalidated or missing at the West Plant station during the third quarter of 2017 due to instrumentation errors and facility power outages. Invalid hourly PM_{10} and $PM_{2.5}$ data at the West Plant station were due to monthly flow verifications, regularly scheduled maintenance, audit activates, power outages, and internal instrument errors.

2.2 Quality Control

Quality assurance, equipment calibration, and audit procedures were 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-17-001, January 2017)
- 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.

Audits and/or calibrations of the particulate air quality monitors and gaseous analyzers are required every three months.

Site checks on the meteorological sensors, SoDAR, particulate instruments, and gaseous analyzers continue to be conducted on a weekly basis. Copies of the flow verifications and site check forms can be found in Appendix D through Appendix G.

3.0 METEOROLOGICAL AND UPPER-AIR DATA SUMMARY AND DISCUSSION

3.1 Meteorological and Upper-Air Data Summary

Meteorological and upper-air data from July 1 through September 30, 2017, have been compiled and summarized in graphical and tabular form. Meteorological and upper-air data summary sheets (Figure 2 through Figure 5) are comprised of the following:

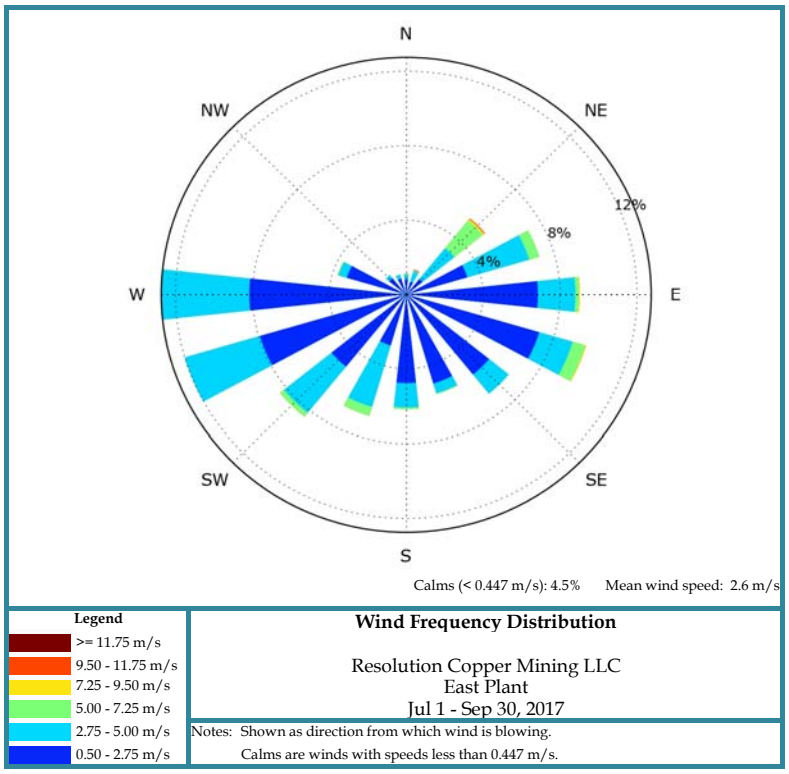
Wind Rose – The Wind Rose graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/s.

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 – The 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 2: East Plant Meteorological Data Summary

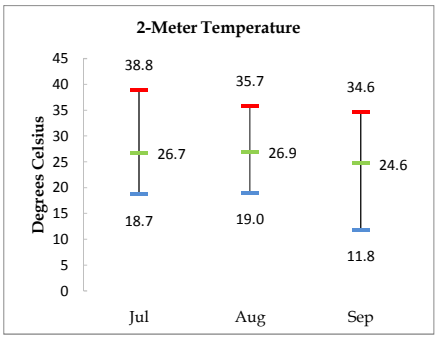
Meteorological Data: Jul 1 - Sep 30, 2017

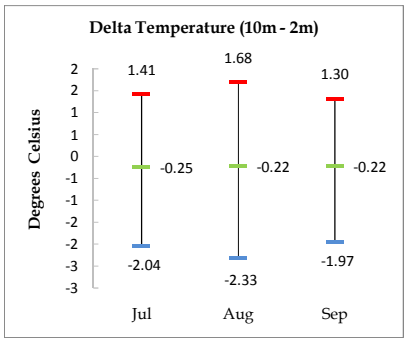


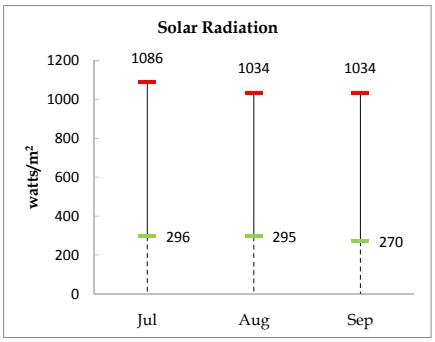
Direction	Speed Class Intervals (m/s) (percent of occurrence) 0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Mean Speed
N	0.1	0.1	0.0	0.0	0.0	0.0	0.2	1.4
NNE	0.2	0.0	0.3	0.0	0.1	0.0	0.6	3.8
NE	0.2	0.5	1.1	1.8	3.0	1.0	7.6	7.0
ENE	0.7	1.8	2.2	1.7	0.4	0.0	6.8	4.0
E	1.2	1.6	0.6	0.4	0.1	0.0	3.9	2.6
ESE	3.1	3.2	0.8	0.6	0.2	0.0	7.9	2.3
SE	4.7	3.3	0.4	0.1	0.0	0.0	8.5	1.6
SSE	6.7	2.3	0.3	0.0	0.0	0.0	9.4	1.3
S	5.3	1.9	0.7	0.1	0.0	0.0	8.0	1.5
SSW	2.0	4.0	4.0	0.9	0.2	0.0	11.1	2.9
SW	1.5	5.1	2.0	0.6	0.0	0.0	9.3	2.7
WSW	1.8	5.4	0.7	0.0	0.0	0.0	7.9	2.1
W	1.5	6.7	1.4	0.0	0.0	0.0	9.6	2.3
WNW	1.2	1.8	0.0	0.0	0.0	0.0	3.1	1.9
NW	0.6	0.3	0.0	0.0	0.0	0.0	1.0	1.7
NNW	0.2	0.3	0.0	0.0	0.0	0.0	0.6	2.0
All	31.0	38.3	14.8	6.4	4.0	1.0	95.5	2.6

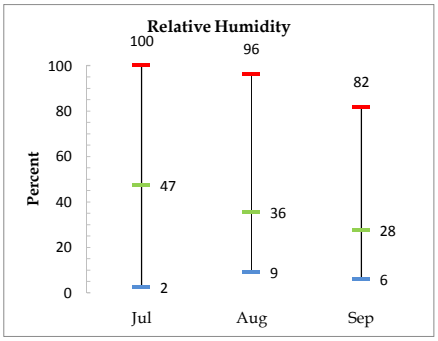
Key

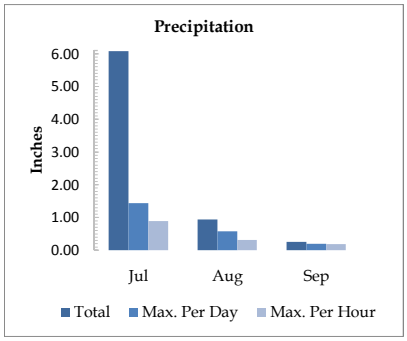
Maximum — Average — Minimum











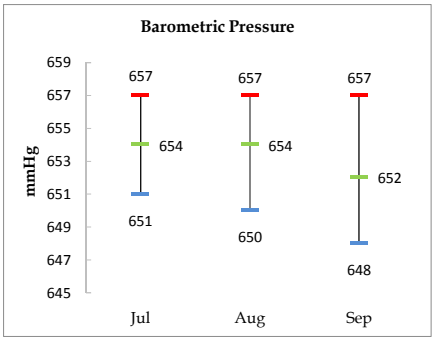
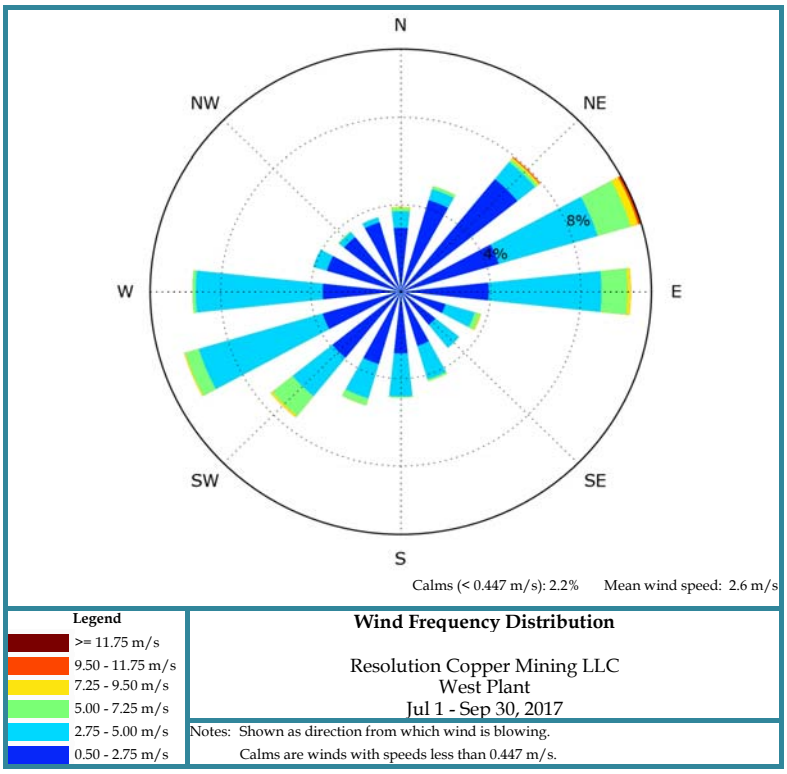


Figure 3: West Plant Meteorological Data Summary

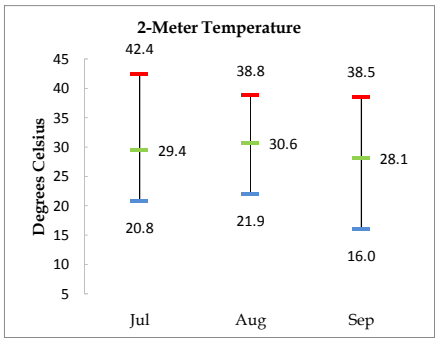
Meteorological Data: Jul 1 - Sep 30, 2017

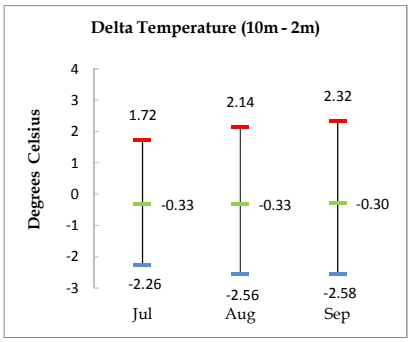


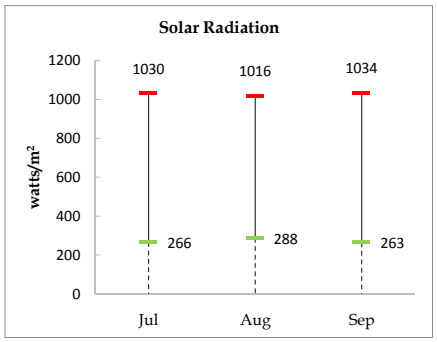
	Speed Class Intervals (m/s) (percent of occurrence)							Mean
Direction	0.5 <1.5	1.5 <3	3 <5	5 <7	7 <10	>=10	All	Speed
N	2.3	0.9	0.6	0.1	0.1	0.0	3.9	1.9
NNE	3.1	1.4	0.4	0.1	0.0	0.0	5.1	1.6
NE	3.4	3.4	0.9	0.1	0.1	0.0	8.0	2.0
ENE	2.0	2.9	4.2	1.5	0.4	0.1	11.1	3.5
E	1.5	2.9	4.5	1.2	0.1	0.0	10.2	3.3
ESE	1.1	1.3	1.1	0.2	0.1	0.0	3.7	2.6
SE	1.2	0.9	1.3	0.0	0.0	0.0	3.3	2.3
SSE	1.1	1.7	1.4	0.1	0.0	0.0	4.3	2.5
S	1.8	1.7	1.3	0.0	0.0	0.0	4.9	2.2
SSW	1.5	2.2	1.3	0.3	0.0	0.0	5.4	2.5
SW	1.6	2.6	1.9	1.2	0.1	0.0	7.4	3.1
WSW	1.0	3.0	5.3	0.6	0.0	0.0	10.0	3.1
W	1.5	2.7	4.9	0.1	0.0	0.0	9.3	2.9
WNW	1.2	2.4	0.5	0.0	0.0	0.0	4.0	1.9
NW	2.2	1.1	0.2	0.0	0.0	0.0	3.6	1.6
NNW	2.6	0.9	0.1	0.0	0.0	0.0	3.6	1.3
All	29.0	32.0	30.0	5.7	1.0	0.1	97.8	2.6

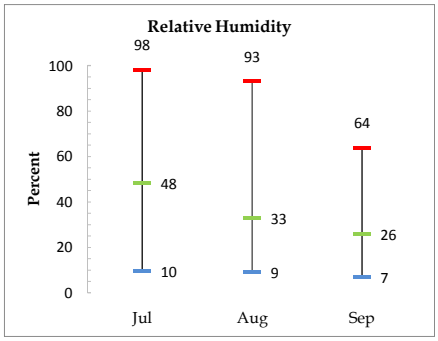
Key

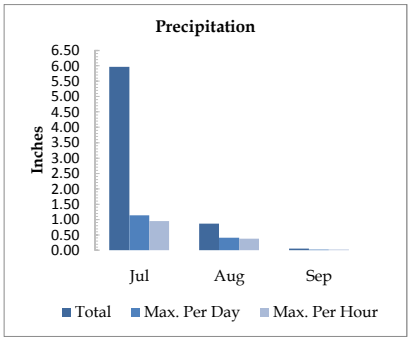
Maximum — Average — Minimum











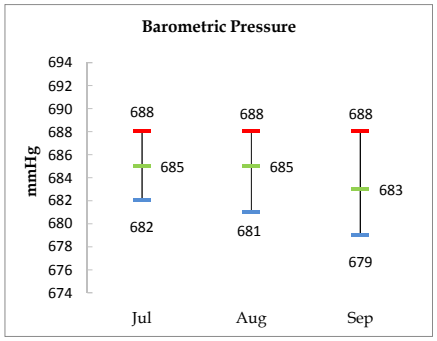
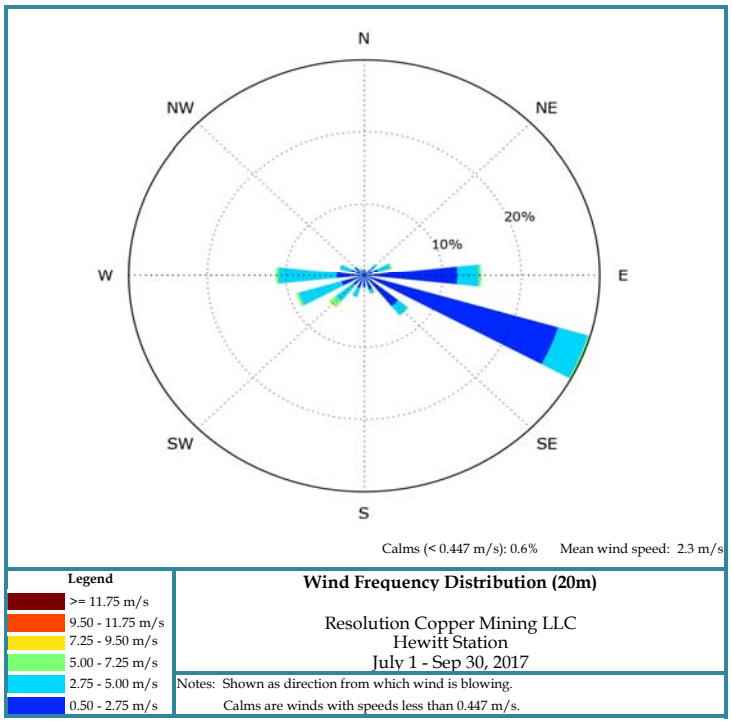


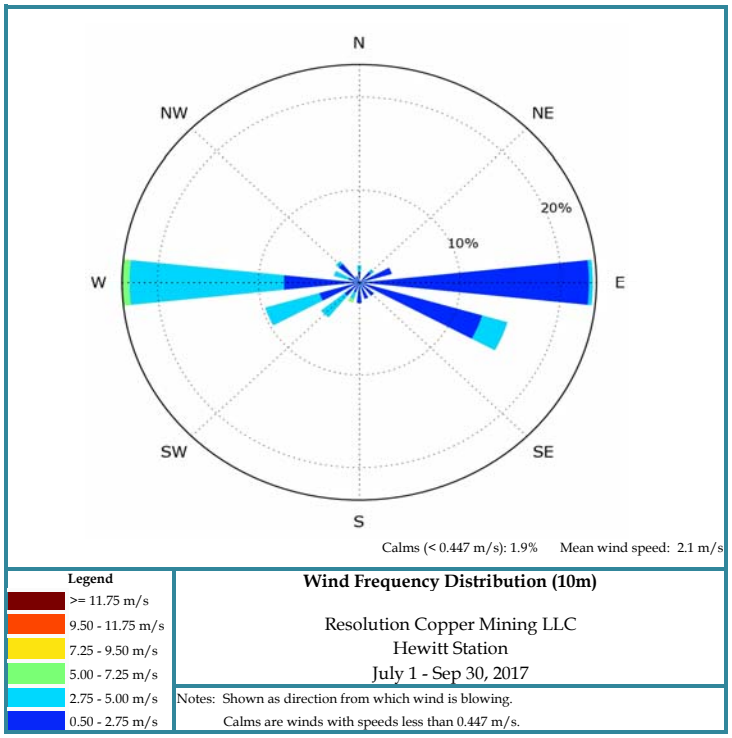
Figure 4: Hewitt Station Meteorological Data Summary

Meteorological Data: July 1 - Sep 30, 2017



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	0.4	0.5	0.1	0.0	0.1	0.0	1.0	2.0
NNE	0.4	0.3	0.1	0.1	0.0	0.0	0.8	1.7
NE	0.7	0.5	0.8	0.1	0.0	0.0	2.0	2.5
ENE	1.0	1.1	1.4	0.2	0.1	0.0	3.7	2.7
E	7.0	5.2	2.4	0.3	0.0	0.0	14.9	1.9
ESE	12.0	14.8	2.8	0.3	0.1	0.0	30.0	1.9
SE	2.9	3.2	1.0	0.2	0.0	0.0	7.2	2.0
SSE	1.0	1.1	0.6	0.1	0.0	0.0	2.8	2.1
S	0.8	0.8	0.3	0.0	0.0	0.0	1.8	1.9
SSW	0.6	1.4	1.2	0.0	0.0	0.0	3.2	2.6
SW	0.6	1.5	2.6	1.0	0.1	0.0	5.7	3.5
WSW	0.8	3.1	4.8	0.4	0.0	0.0	9.0	3.2
W	1.0	3.7	6.2	0.3	0.1	0.0	11.2	3.1
WNW	0.6	1.4	1.2	0.1	0.0	0.0	3.3	2.6
NW	0.6	0.8	0.3	0.0	0.0	0.0	1.7	1.9
NNW	0.5	0.4	0.1	0.2	0.0	0.0	1.1	2.3
All	30.9	39.6	25.7	2.9	0.3	0.0	99.4	2.3



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	0.7	0.7	0.4	0.0	0.0	0.0	1.9	2.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.4	1.1	0.4	0.0	0.0	0.0	1.9	2.0
ENE	2.2	1.1	0.0	0.0	0.0	0.0	3.4	1.4
E	20.1	2.6	0.4	0.0	0.0	0.0	23.1	1.1
ESE	10.4	2.6	2.2	0.0	0.0	0.0	15.3	1.6
SE	1.5	0.4	0.0	0.0	0.0	0.0	1.9	1.2
SSE	1.5	0.4	0.0	0.0	0.0	0.0	1.9	1.3
S	0.0	2.2	0.0	0.0	0.0	0.0	2.2	2.2
SSW	0.4	0.7	0.7	0.4	0.0	0.0	2.2	3.3
SW	0.0	3.0	1.9	0.0	0.0	0.0	4.9	2.9
WSW	1.5	3.4	4.9	0.0	0.0	0.0	9.7	2.7
W	1.9	6.7	14.2	0.7	0.0	0.0	23.5	3.3
WNW	0.7	0.4	1.5	0.0	0.0	0.0	2.6	2.8
NW	2.2	0.4	0.4	0.0	0.0	0.0	3.0	1.4
NNW	0.0	0.7	0.0	0.0	0.0	0.0	0.7	2.2
All	43.7	26.5	26.9	1.1	0.0	0.0	98.1	2.1

Figure 4: Hewitt Station Meteorological Data Summary (Continued)

Meteorological Data: July 1 - Sep 30, 2017

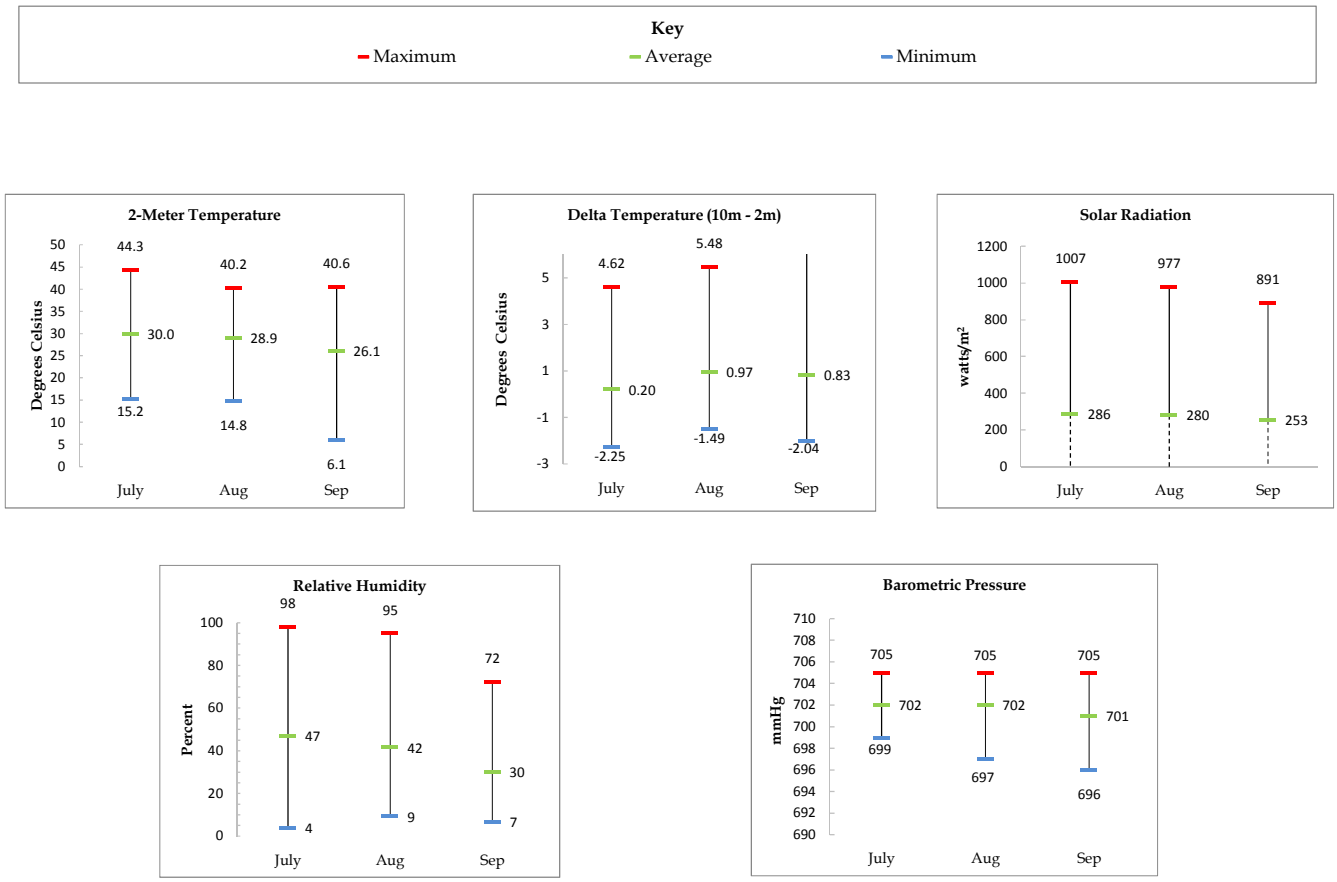
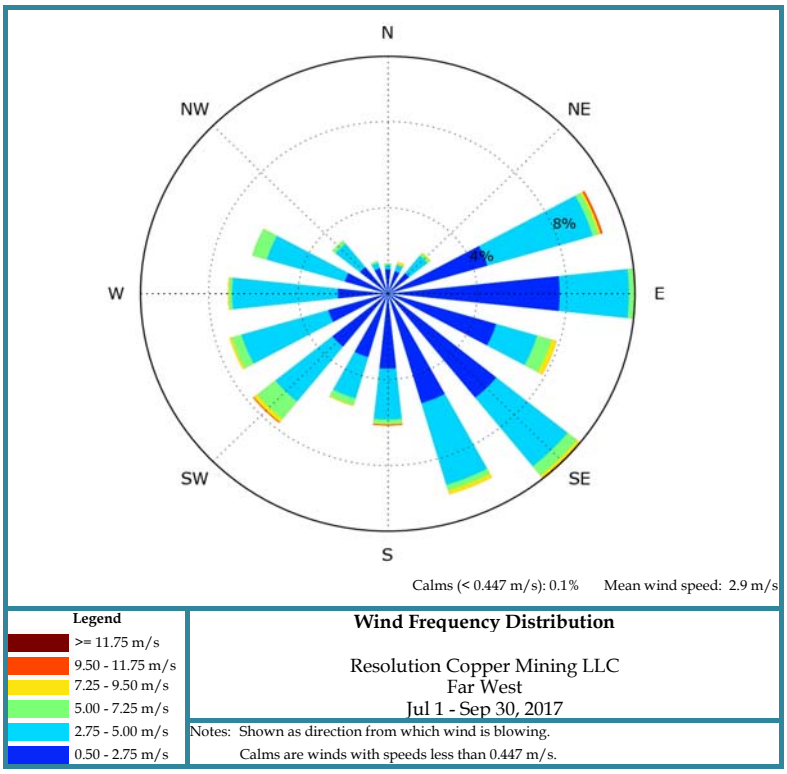
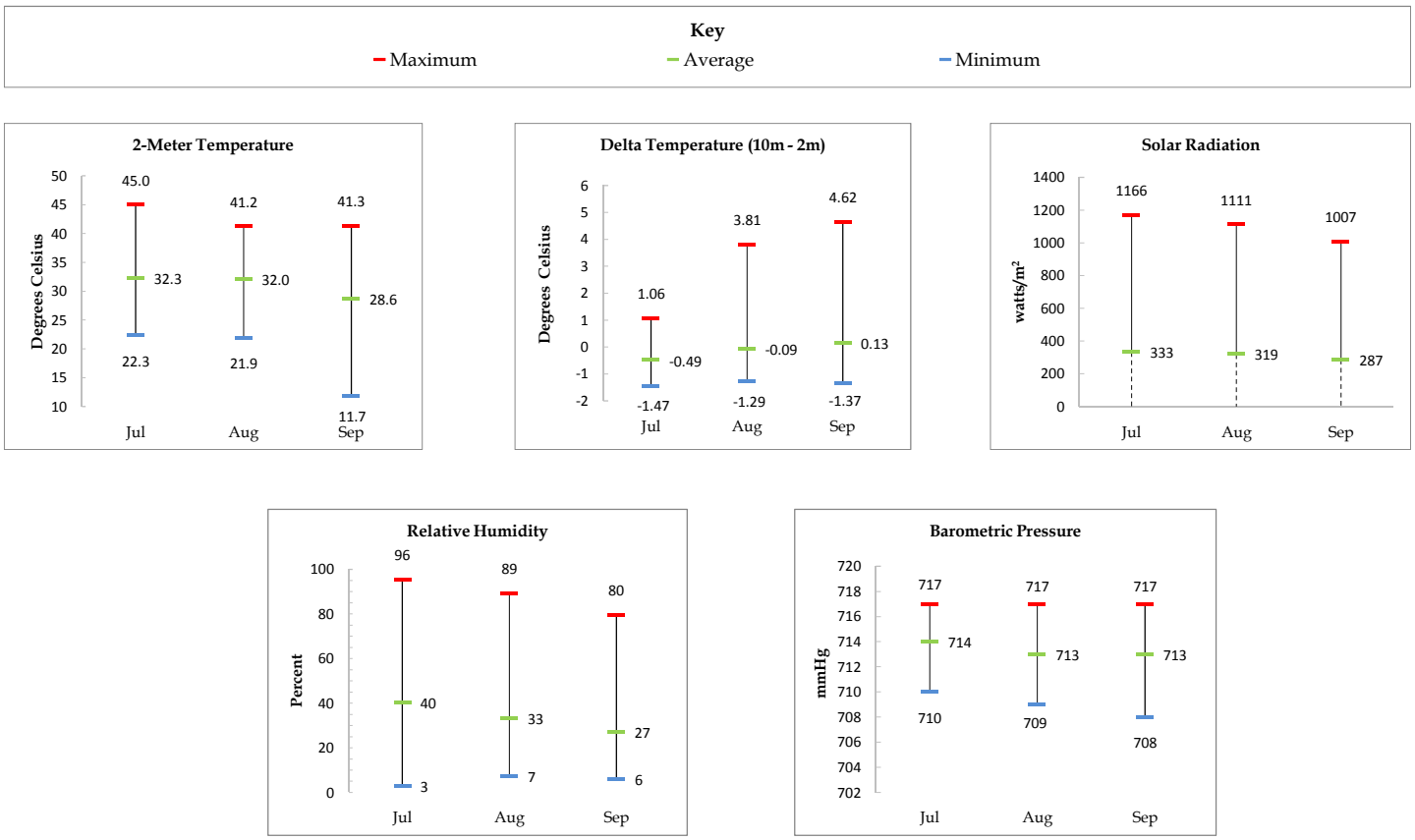


Figure 5: Far West Meteorological Data Summary

Meteorological Data: Jul 1 - Sep 30, 2017



	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	0.4	0.9	0.1	0.1	0.0	0.0	1.4	2.1
NNE	0.4	0.8	0.2	0.0	0.1	0.0	1.5	2.7
NE	0.5	1.1	0.7	0.1	0.1	0.0	2.5	2.9
ENE	0.7	4.8	4.0	0.3	0.1	0.0	10.0	3.0
E	1.4	7.3	2.1	0.2	0.0	0.0	11.0	2.5
ESE	1.2	4.5	1.3	0.7	0.2	0.0	7.9	2.8
SE	1.1	6.0	3.2	0.5	0.1	0.0	11.0	2.9
SSE	1.3	5.4	2.6	0.2	0.2	0.0	9.7	2.7
S	0.9	3.2	1.7	0.2	0.1	0.0	6.1	2.7
SSW	0.6	2.9	1.6	0.3	0.0	0.0	5.5	2.8
SW	0.5	3.2	2.8	1.0	0.3	0.0	7.7	3.5
WSW	0.6	3.1	3.0	0.4	0.1	0.0	7.4	3.1
W	0.1	2.9	4.0	0.1	0.0	0.0	7.1	3.2
WNW	0.3	2.2	3.2	0.7	0.0	0.0	6.3	3.4
NW	0.1	1.7	1.2	0.1	0.1	0.0	3.2	3.0
NNW	0.5	0.9	0.2	0.1	0.0	0.0	1.6	2.3
All	10.4	50.8	31.9	5.0	1.7	0.1	99.9	2.9



3.2 Meteorological and Upper-Air Data Discussion

The meteorological data collected at the Resolution Copper Project met all data recovery objectives for the third quarter of 2017 except for the Hewitt Station monitoring site.

The Hewitt Station's 20-meter wind monitor failed to meet the audit requirements conducted on July 11, 2017, due to a faulty potentiometer. After analysis of the Hewitt Station's 10- and 20-meter wind data, the 20-meter wind direction values deviated from the 10-meter wind direction values when the winds were recorded between 225 and 355 degrees. The 20-meter wind data from the beginning of the third quarter of 2017 did not meet the data quality requirements because of the audit and data analysis results.

On July 12, 2017, the Hewitt Station's 10-meter wind monitor was relocated to the 20-meter height to ensure wind data collection at 20 meters. The relocation of the 10-meter wind monitor temporarily halts the collection of wind data at 10 meters until a replacement can be installed. A repaired Hewitt Station wind monitor will be redeployed on the tower at the 10-meter level in January 2018.

3.2.1 Upper-Air and Anemometer Data Comparison

To quantify the reasonableness of the measured upper-air data, the SoDAR 20-meter wind data were compared to the adjacent tower's 20-meter wind data. The adjacent tower's 20-meter wind data were flagged for a portion of the third quarter of 2017. The SoDAR's 20-meter wind data and the tower's 20-meter wind data have been compared as a quality control check and general gauge of the SoDAR's accuracy.

Bivariate scatter plots with linear regressions compare the wind speed, zonal components (u), and meridional components (v). Figure 6 through Figure 8 show a linear relation between the SoDAR's 20-meter upper-air data and the tower's 20-meter anemometer data, with a few outliers.

Further data analysis and/or approval for acceptance of the upper-air SoDAR data collected for the third quarter of 2017 may be required.

Figure 6. Wind Speed Comparison
July 1–September 30, 2017

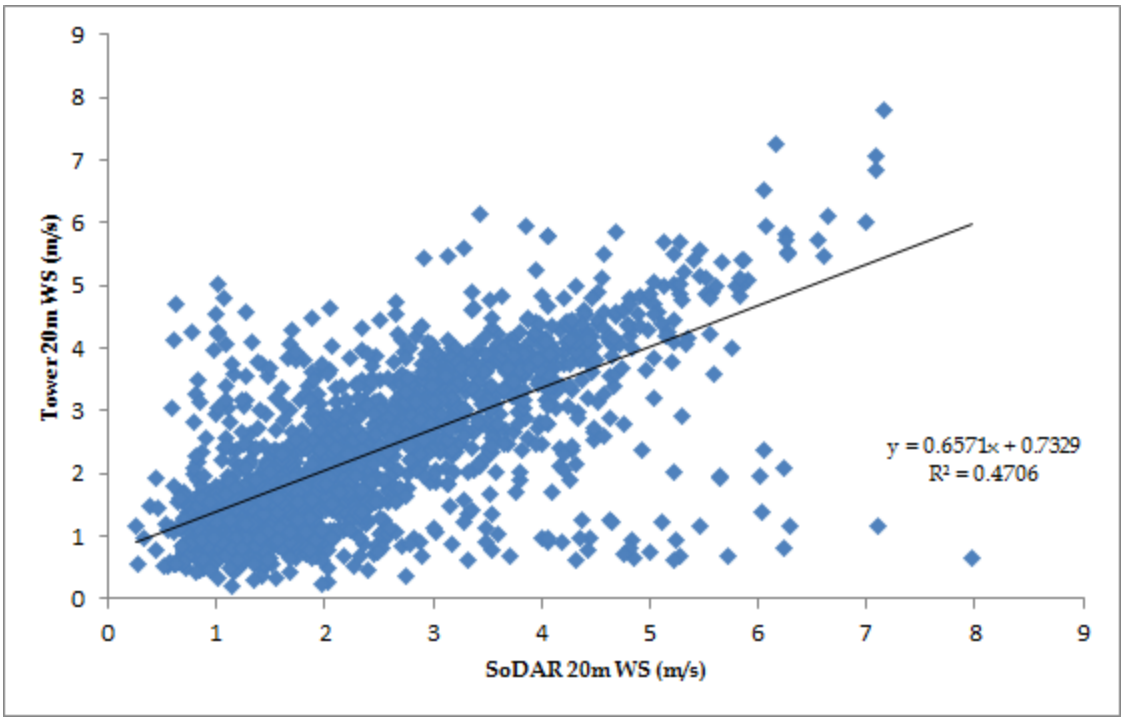


Figure 7. Zonal Component (u) Comparison
July 1–September 30, 2017

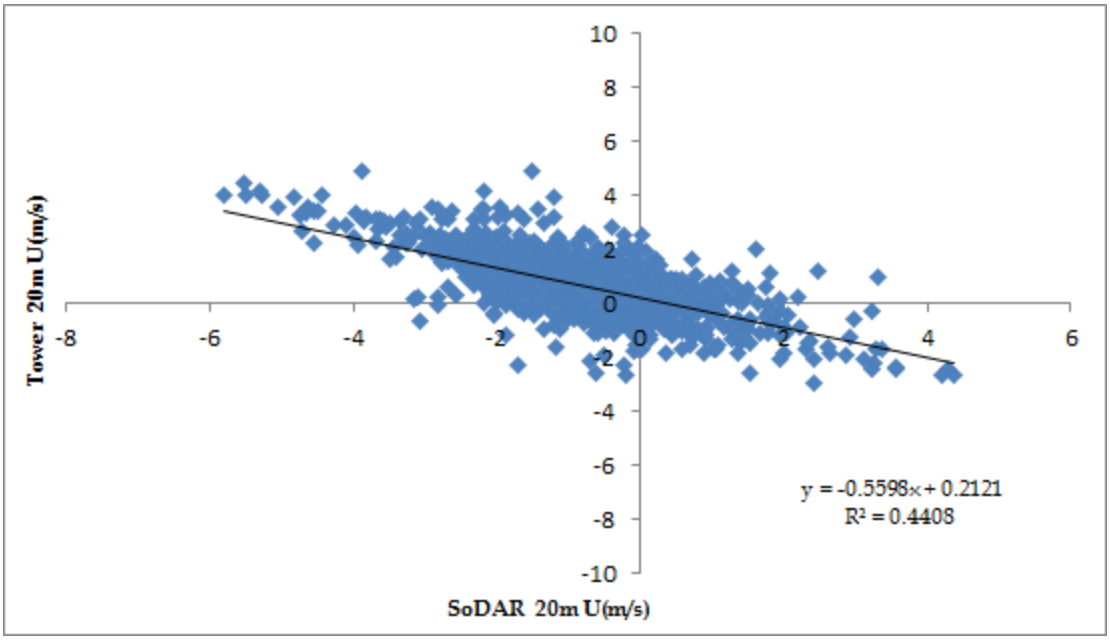
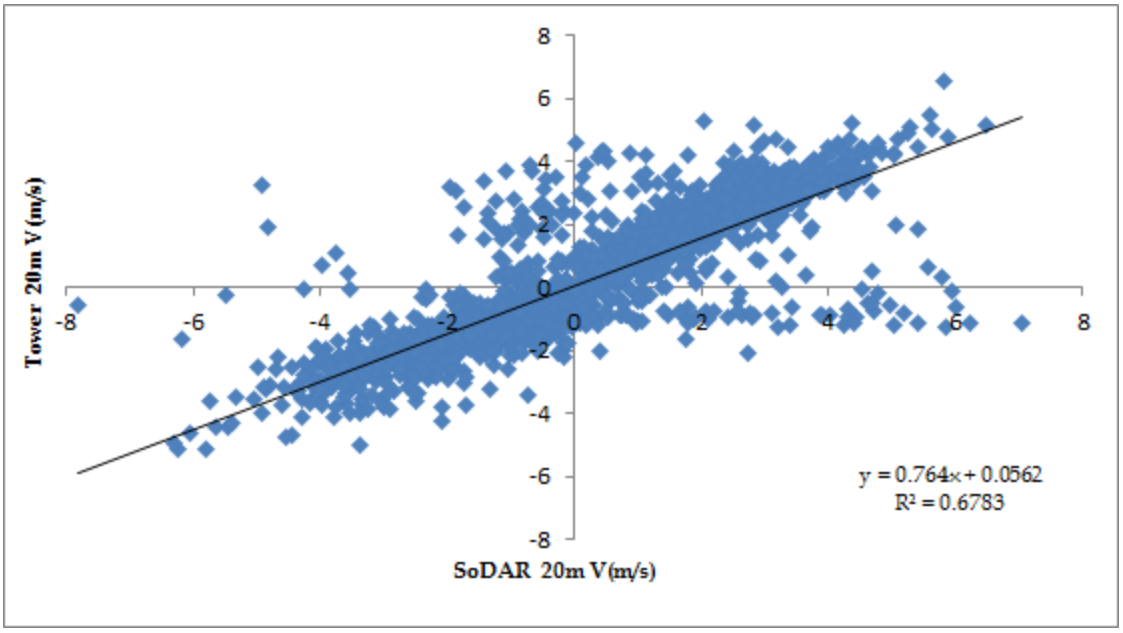


Figure 8. Meridional Component (v) Comparison
July 1–September 30, 2017

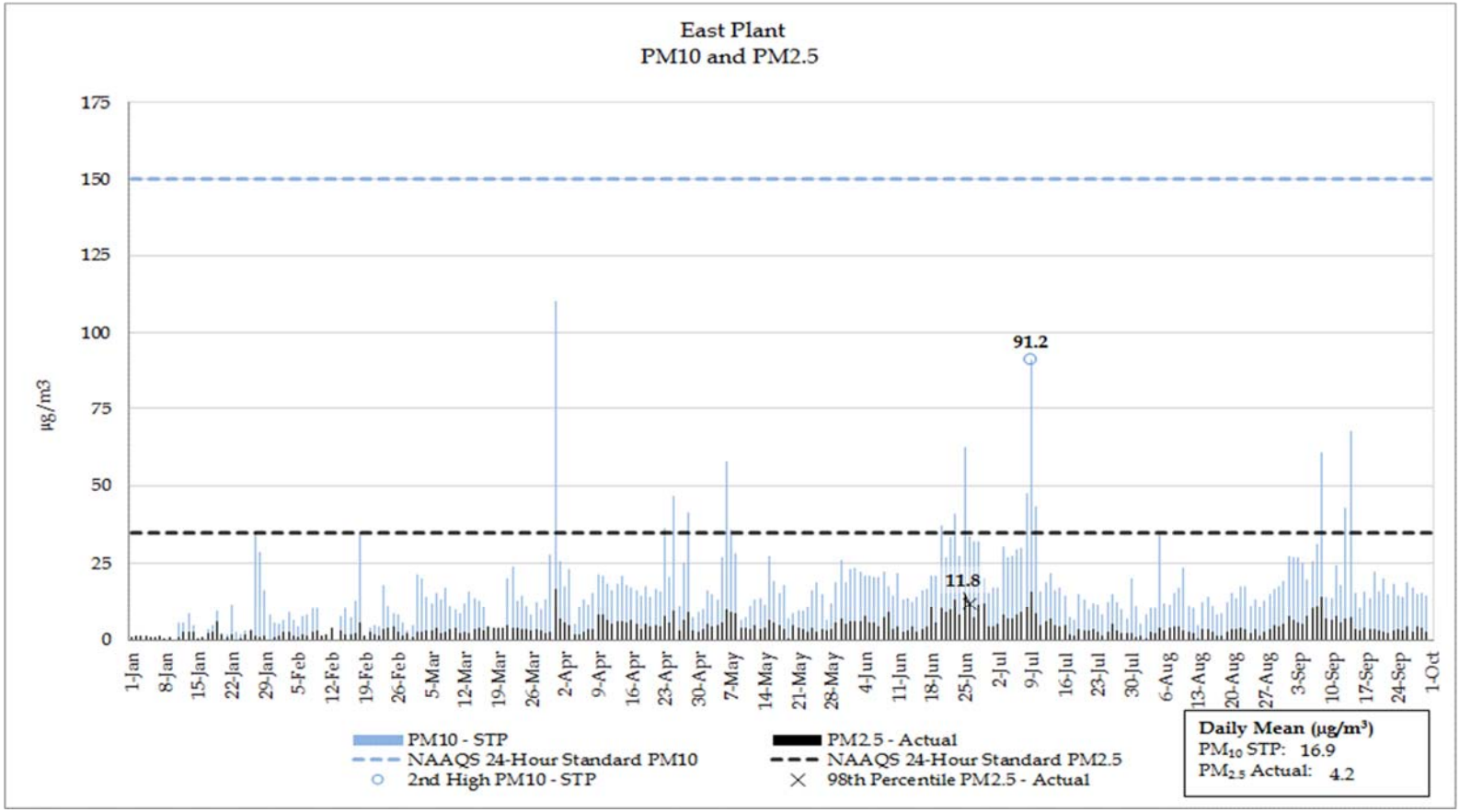


4.0 PM DATA SUMMARY AND DISCUSSION

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 the first three quarters of 2017, and compares the data to the PM_{10} and $PM_{2.5}$ National Ambient Air Quality Standards (NAAQS[2]). The second-high 24-hour average for PM_{10} (91.2 µg/m³) and the 98th percentile for $PM_{2.5}$ (11.8 µg/m³) are labeled. The daily mean value for PM_{10} Standard Temperature Pressure (STP) was 16.9 micrograms per cubic meter (µg/m³), and the daily mean value for $PM_{2.5}$ Actual was 4.2 µg/m³.

Figure 9. East Plant Particulate Data: First Three Quarters of 2017

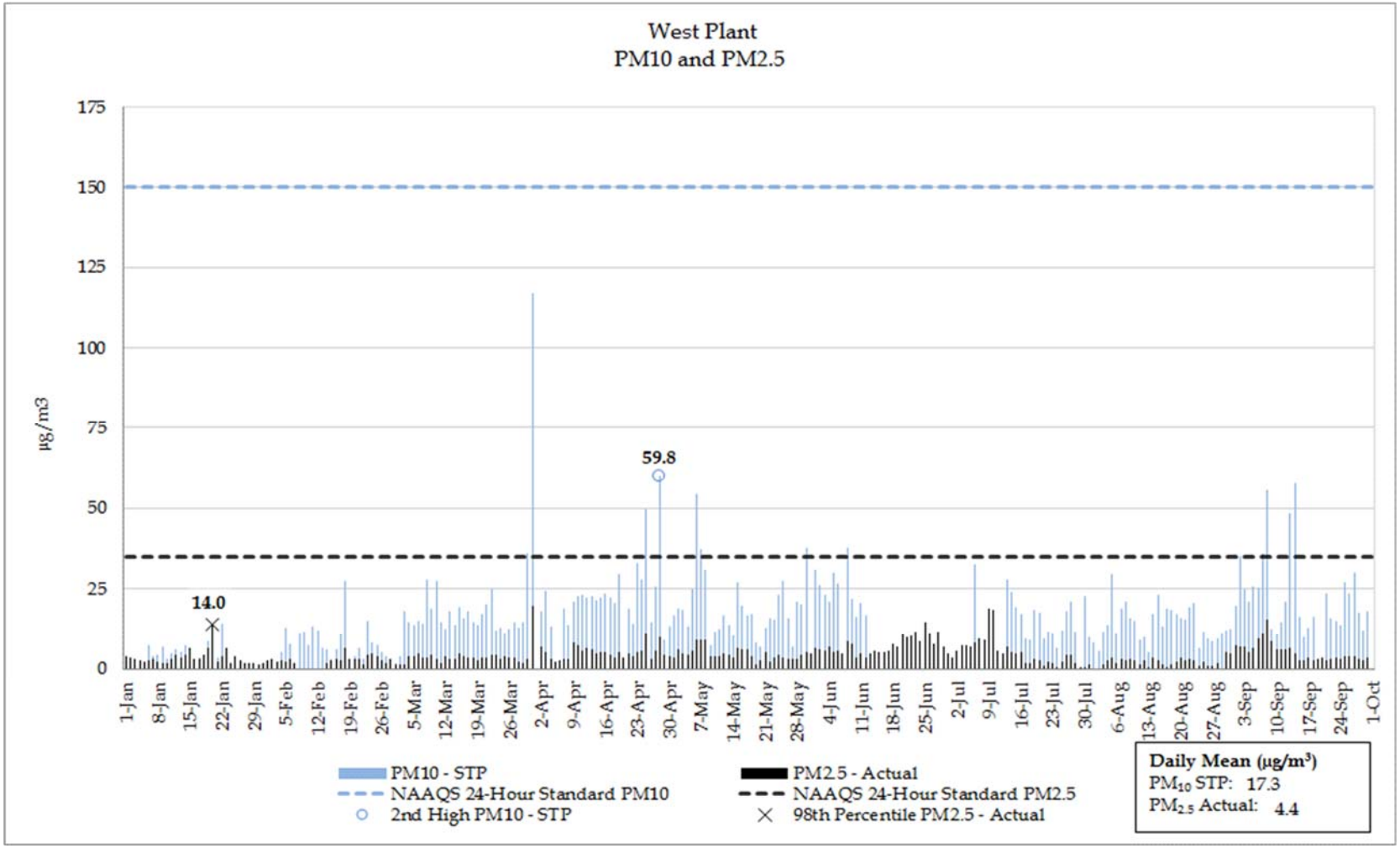


[2] See Section 4.3 for specific details about PM_{10} and $PM_{2.5}$ NAAQS.

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 the first three quarters of 2017, and compares the data to the PM_{10} and $PM_{2.5}$ NAAQS. The second-high 24-hour average for PM_{10} (59.8 µg/m³) and the 98th percentile for $PM_{2.5}$ (14.0 µg/m³) are labeled. The daily mean value for PM_{10} STP was 17.3 µg/m³, and the daily mean value for $PM_{2.5}$ Actual was 4.4 µg/m³.

Figure 10. West Plant Particulate Data: First Three Quarters of 2017



4.3 PM Data Discussion

4.3.1 PM_{10}

The 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 Plant and West Plant sites are 91.2 µg/m^3 and 59.8 µg/m^3, respectively. The second-high PM_{10} values at the East Plant and West Plant sites are both below the NAAQS of 150 µg/m^3.

The Far West site's PM_{10} monitoring activities were discontinued at the end of the second quarter of 2017.

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.

The $PM_{2.5}$ arithmetic mean concentrations for the East Plant and West Plant sites are 4.2 µg/m^3 and 4.4 µg/m^3, respectively. The $PM_{2.5}$ arithmetic mean values at the East Plant and West Plant sites are below the NAAQS of 12 µg/m^3.

Figure 9 and Figure 10 also show the 98th percentile $PM_{2.5}$ concentrations at the East Plant and West Plant sites, which were 11.8 µg/m^3, and 14.0 µg/m^3, respectively. The 98th percentiles of the East Plant and West Plant sites' 24-hour $PM_{2.5}$ concentrations are also below the NAAQS of 35 µg/m^3.

The Far West site's $PM_{2.5}$ monitoring activities were discontinued at the end of the second quarter of 2017.

5.0 NO_2 DATA SUMMARY AND DISCUSSION

5.1 NO_2 Data Summary

Figure 11 and Figure 12 present the NO_2 hourly concentrations for each calendar day at the East Plant site for the first three quarters of 2017. Figure 11 shows the daily maximum hourly NO_2 concentrations compared to the one-hour NO_2 NAAQS (100 ppb). Figure 12 shows the mean hourly NO_2 concentrations compared with the annual NO_2 NAAQS (53 ppb).

Figure 11. NO_2 Maximum Hourly Concentration for Each Calendar Day: First Three Quarters of 2017

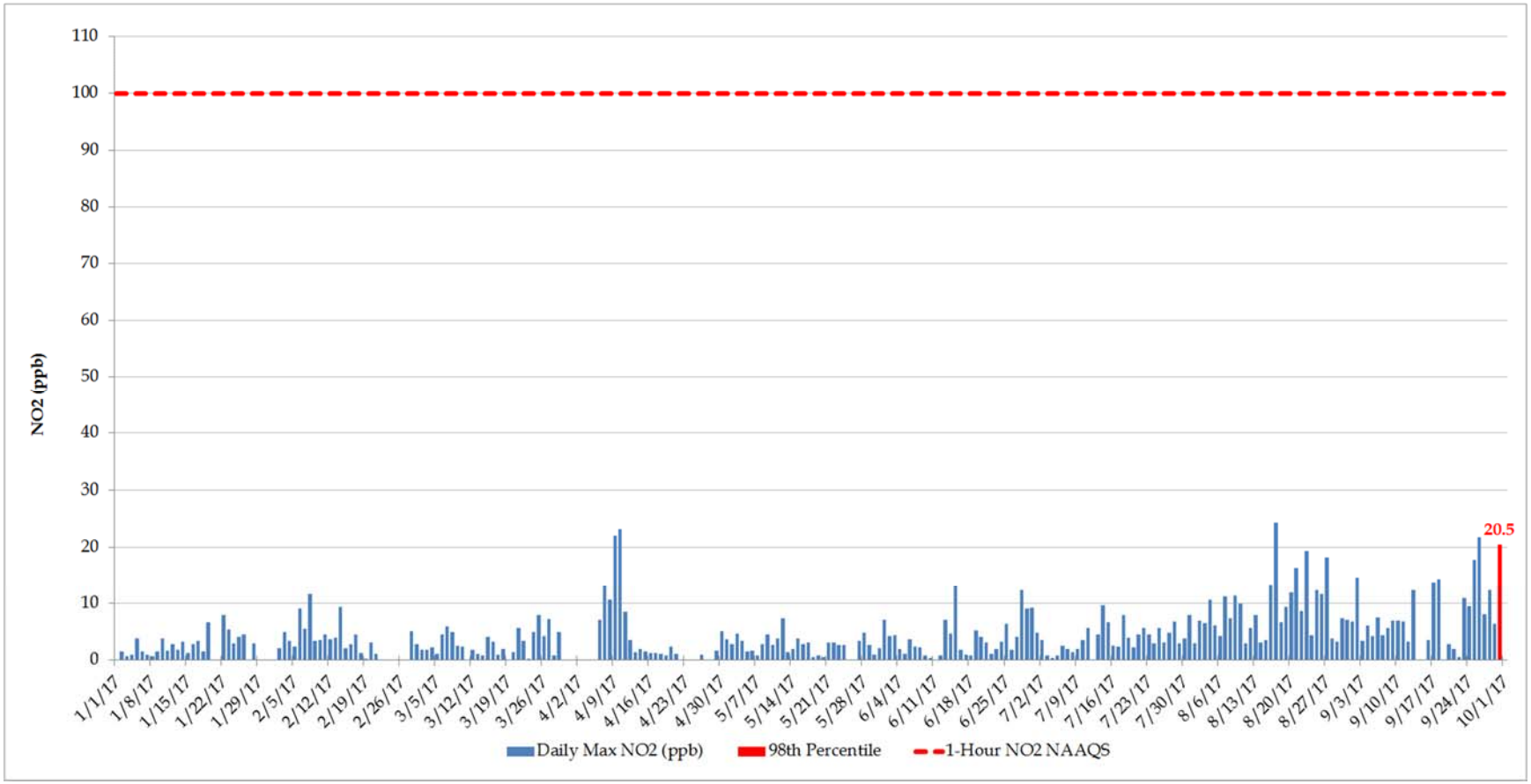
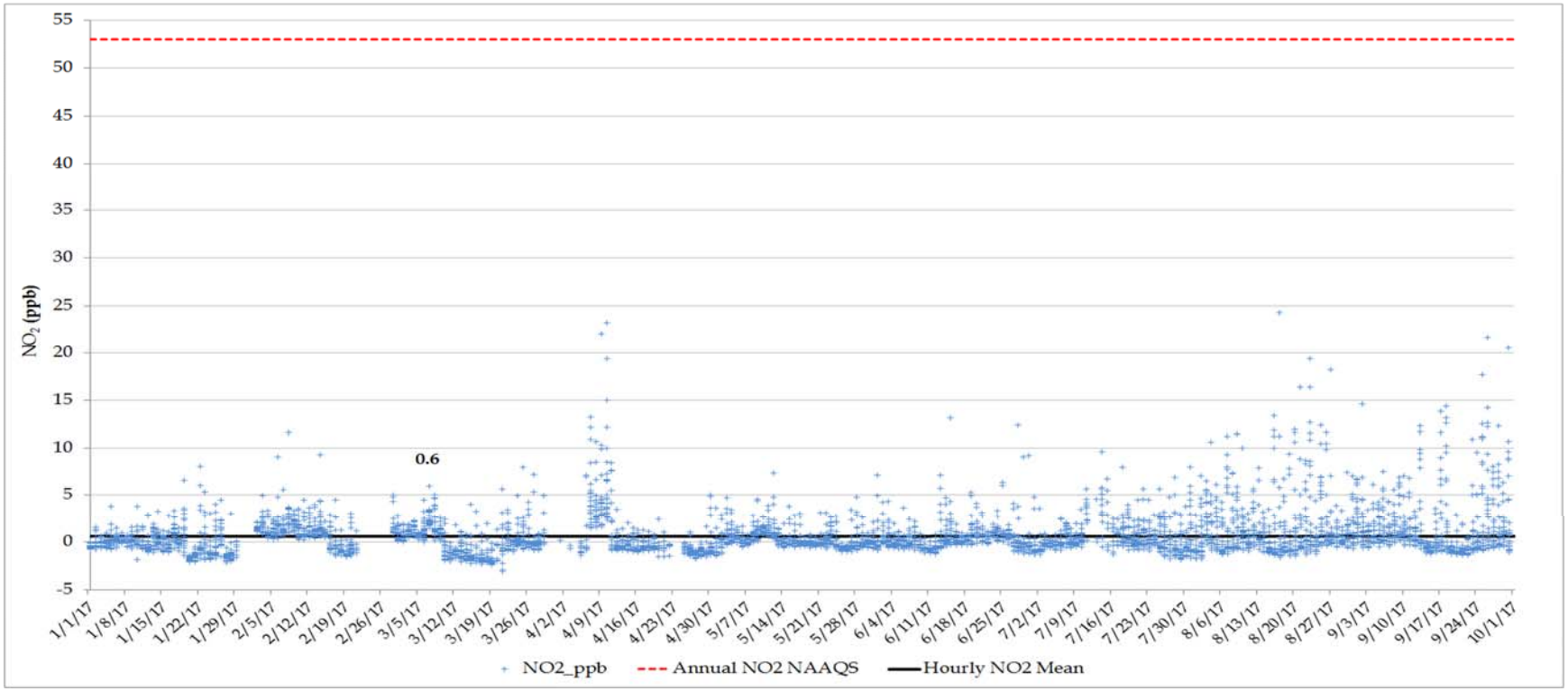


Figure 12. NO_2 Mean Hourly Concentrations: First Three Quarters of 2017



5.2 NO_2 Data Discussion

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.

The level of the annual NAAQS for oxides of nitrogen is 53 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.

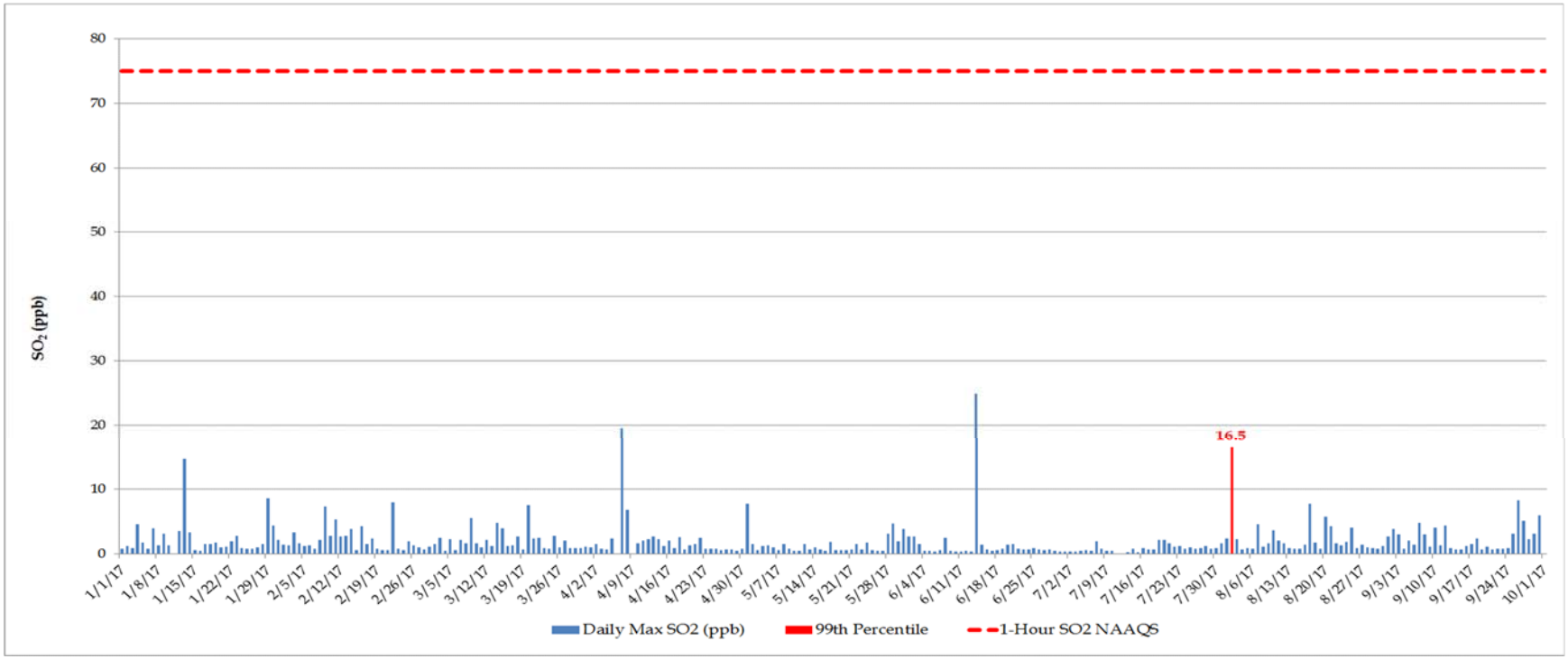
As shown in Figure 11, the 1-hour average NO_2 concentrations for the first three quarters of 2017 is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 12, the hourly NO_2 average is 0.6 ppb for the first three quarters of 2017, which is below the annual NO_2 NAAQS of 53 ppb. Slightly negative concentrations are typical 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 the first three quarters of 2017, and it shows the 99th percentile (16.5 ppb) compared to the one-hour SO_2 NAAQS (75 ppb).

Figure 13. SO_2 Maximum Hourly Concentration for Each Calendar Day: First Three Quarters of 2017



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 concentration is less than or equal to 75 ppb.

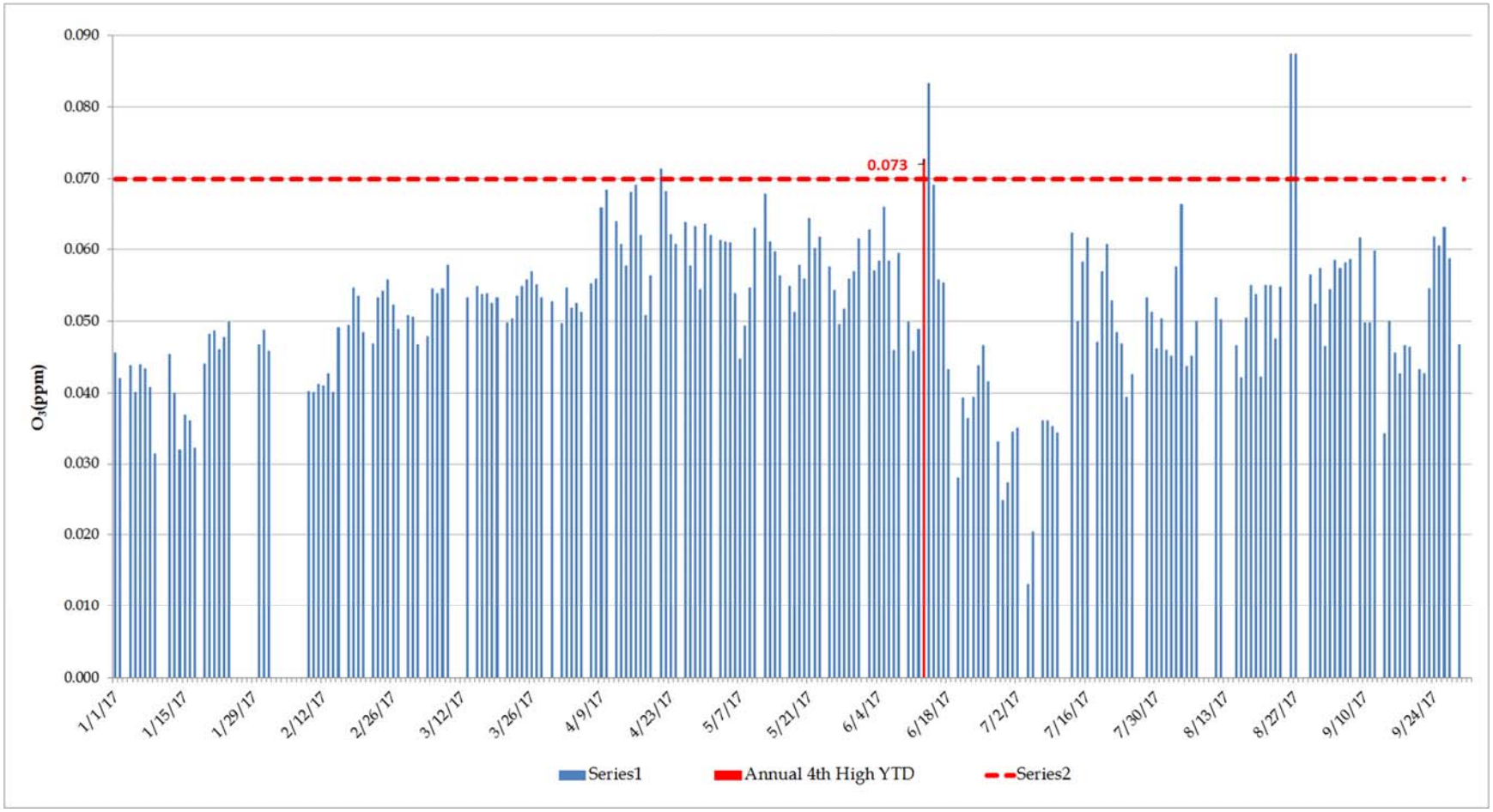
As shown in Figure 13, the 99th percentile 1-hour maximum concentration for the first three quarters of 2017 is 16.5 ppb, which is below the 1-hour SO_2 NAAQS of 75 ppb.

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 the first three quarters of 2017, and it shows the fourth-highest rolling 8-hour average (0.073 parts per million [ppm]) compared to the eight-hour O_3 NAAQS (0.070 ppm).

Figure 14. O_3 Daily Rolling 8-Hour Maximum: First Three Quarters of 2017



7.2 O_3 Data Discussion

The level of the primary and secondary 8-hour NAAQS for O_3 was changed from 0.075 ppm to 0.07 ppm in the EPA's final ruling signed on October 1, 2015. The updated NAAQS of 0.070 ppm was effective 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 0.070 ppm.

Figure 14 shows that the averaged fourth-high maximum recorded at the East Plant is 0.073 ppm. This concentration is above the NAAQS 8-hour O_3 standard of 0.070 ppm. Parts of Pinal County and the adjacent Maricopa County have been designated as non-attainment areas for 8-hour O_3 by the Arizona Department of Environmental Quality (ADEQ).

Appendix A – Meteorological Data: Hourly

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jul 2017

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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Aug 2017

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

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Sep 2017

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

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jul 2017

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	1.14	1.29	1.41	1.11	0.66	0.43	-0.67	-1.09	-1.22	-1.25	-1.77	-1.70	-1.31	-1.26	-1.28	-0.95	-0.75	-0.27	0.18	0.25	0.20	0.27	0.43	-0.20	1.41	-1.77
2	0.41	0.55	0.69	0.96	0.74	0.86	0.30	-0.36	-0.71	-0.90	-1.33	-1.22	-1.23	-1.40	-1.34	-1.28	-1.07	-0.73	-0.37	0.05	0.05	0.25	0.46	0.13	-0.27	0.96	-1.40
3	0.12	0.07	0.08	0.03	0.07	0.12	-0.24	-0.38	-0.68	-0.85	-1.04	-1.32	-1.51	-1.39	-1.34	-1.05	-0.92	-0.70	-0.37	-0.03	0.01	0.05	0.11	0.14	-0.46	0.14	-1.51
4	0.16	0.17	0.16	0.17	0.32	0.15	-0.04	-0.38	-0.67	-0.83	-1.03	-1.20	-1.39	-1.38	-1.10	-1.16	-1.00	-0.73	-0.32	-0.01	0.03	0.08	0.13	0.14	-0.41	0.32	-1.39
5	0.12	0.18	0.26	0.24	0.22	0.26	-0.04	-0.53	-0.69	-0.97	-1.02	-1.43	-1.39	-1.39	-1.32	-1.02	-0.96	-0.65	-0.31	0.01	0.17	0.21	0.43	0.29	-0.39	0.43	-1.43
6	0.37	0.74	0.69	0.82	0.50	0.30	-0.04	-0.39	-0.71	-0.96	-0.93	-1.23	-1.48	-1.41	-1.39	-1.25	-0.99	-0.21	-0.10	-0.01	0.41	0.35	0.18	0.26	-0.27	0.82	-1.48
7	0.96	0.57	0.42	1.08	0.78	0.49	-0.11	-0.56	-0.87	-1.26	-1.47	-1.75	-2.04	-1.88	-1.90	-1.25	-0.16	-0.26	0.01	0.01	0.13	0.15	0.10	0.22	-0.36	1.08	-2.04
8	0.28	0.31	0.24	0.26	0.23	0.17	-0.15	-0.65	-1.02	-1.38	-1.61	-1.97	-2.02	-1.46	-1.29	-0.84	-0.21	-0.81	-0.43	0.21	0.23	0.20	-0.02	0.06	-0.49	0.31	-2.02
9	0.11	0.22	0.19	0.07	0.01	-0.01	-0.08	-0.32	-0.43	-0.87	-0.84	-1.34	-1.39	-1.39	-1.31	-1.04	-0.36	-0.17	-0.10	0.02	-0.06	-0.03	0.08	0.09	-0.37	0.22	-1.39
10	0.19	0.10	0.13	0.05	0.13	-0.04	-0.15	-0.40	-1.03	-0.83	-1.10	-1.30	-1.26	-1.20	-1.33	-1.17	-1.02	-0.74	-0.35	-0.07	-0.03	-0.14	-0.17	-0.12	-0.49	0.19	-1.33
11	-0.23	0.01	-0.06	-0.13	0.13	0.00	-0.22	-0.19	0.02	-0.08	-0.52	--	--	-0.61	-0.92	-0.62	-0.77	-0.55	-0.23	-0.12	0.12	0.12	0.11	0.23	-0.21	0.23	-0.92
12	0.32	0.68	0.44	0.47	0.41	0.50	-0.04	-0.85	-0.81	-0.75	-0.83	-1.39	-1.48	-1.40	-1.16	-1.18	-0.92	-0.49	-0.29	0.00	0.06	0.11	0.05	-0.05	-0.36	0.68	-1.48
13	0.02	0.18	0.29	0.40	0.12	0.07	-0.03	-0.16	-0.48	-0.66	-0.93	-1.02	-1.38	-1.30	-1.26	-1.21	-1.00	0.50	0.14	0.26	0.38	0.30	0.10	0.25	-0.27	0.50	-1.38
14	0.27	0.28	0.25	0.64	0.35	0.56	-0.12	-0.63	-0.60	-0.97	-1.16	-1.41	-1.54	-1.86	-1.51	-1.29	-0.62	1.00	0.20	0.62	0.38	0.54	0.49	0.68	-0.23	1.00	-1.86
15	0.74	0.97	0.80	0.78	0.51	0.33	-0.10	-0.64	-1.17	-1.53	-1.46	-1.61	-1.40	-1.62	-1.40	-0.53	-0.01	0.30	0.52	0.64	0.42	0.20	0.04	0.10	-0.21	0.97	-1.62
16	0.08	0.27	0.42	0.26	0.25	0.21	-0.37	-0.78	-0.71	-0.73	-0.77	-1.07	-1.13	-1.50	-1.33	-1.28	-0.95	0.27	0.82	0.69	0.53	0.45	0.26	0.12	-0.25	0.82	-1.50
17	0.02	0.11	0.11	0.36	0.34	0.38	-0.05	-0.68	-0.67	-0.39	-0.42	-0.70	-0.92	-1.00	-1.08	-0.93	-0.87	-0.38	0.42	0.27	0.11	0.20	0.17	0.05	-0.23	0.42	-1.08
18	0.39	0.38	0.41	0.49	0.39	0.50	0.36	-0.22	-0.67	-0.98	-0.70	-0.54	-0.48	-0.86	-0.12	0.03	0.26	0.03	0.15	0.50	0.38	0.25	0.28	0.45	0.03	0.50	-0.98
19	0.55	0.55	0.65	0.64	0.41	0.35	-0.22	-0.59	-0.42	-0.55	-0.82	-0.99	-1.43	-0.98	-0.70	-0.16	-0.22	-0.25	-0.13	0.02	0.19	0.33	0.21	-0.10	-0.15	0.65	-1.43
20	-0.02	0.12	0.05	0.03	0.05	0.11	0.03	-0.19	-0.39	-0.66	-1.16	-1.38	-1.21	-1.29	-1.19	-1.11	-1.07	-0.79	-0.30	0.04	0.59	0.05	0.08	0.23	-0.39	0.59	-1.38
21	0.32	0.16	0.18	0.26	0.23	0.45	0.32	-0.11	-0.15	-0.62	-0.79	-0.84	-1.25	-1.05	-1.06	-0.96	-0.33	0.00	0.14	0.28	0.32	0.38	0.36	0.49	-0.14	0.49	-1.25
22	0.35	0.57	0.58	0.62	0.45	0.47	0.28	-0.48	-0.55	-0.57	-0.59	-0.73	-0.85	-0.99	-0.93	-0.79	-0.03	0.09	0.20	0.34	0.24	0.07	-0.02	0.06	-0.09	0.62	-0.99
23	0.11	0.14	0.15	0.33	0.22	0.32	-0.12	-0.40	-0.69	-0.79	-0.43	-0.39	-1.20	-1.00	-1.06	-1.00	-0.68	-0.10	0.22	0.32	0.19	0.12	0.09	0.03	-0.23	0.33	-1.20
24	0.05	0.16	0.08	0.18	0.20	0.02	-0.07	-0.25	-0.12	-0.05	-0.20	-0.53	-0.49	-0.54	-0.97	-0.26	-0.06	-0.22	-0.05	0.16	0.26	0.21	0.26	0.31	-0.08	0.31	-0.97
25	0.32	0.39	0.24	0.48	0.57	0.38	0.32	-0.45	-0.62	-0.81	-0.30	-0.73	-0.84	-0.70	-0.95	-0.90	-0.69	-0.42	-0.19	0.09	0.30	0.39	0.65	0.59	-0.12	0.65	-0.95
26	0.64	0.61	0.66	0.75	0.84	0.82	0.28	-0.43	-0.61	-0.61	-0.68	-1.02	-0.93	-0.91	-0.93	-0.87	-0.69	-0.37	-0.12	0.05	0.04	0.06	0.10	0.10	-0.13	0.84	-1.02
27	0.09	0.14	0.22	0.49	0.33	0.54	0.20	-0.24	-0.36	-0.57	-0.62	-0.65	-0.81	-0.88	-0.84	--	--	--	-0.25	-0.11	-0.05	0.23	0.40	0.53	-0.11	0.54	-0.88
28	0.55	0.23	0.16	0.26	0.31	0.45	0.24	0.02	-0.40	-0.68	-0.40	-0.75	-0.74	-0.72	-0.81	-0.71	-0.60	-0.49	-0.18	0.11	0.09	0.10	0.00	-0.08	-0.17	0.55	-0.81
29	0.10	0.08	0.12	0.18	0.28	0.39	0.17	-0.11	-0.41	-0.57	-0.59	-0.57	-0.92	-0.40	-0.50	-0.72	-0.75	-0.23	-0.13	-0.08	-0.07	-0.05	-0.08	-0.01	-0.20	0.39	-0.92
30	-0.06	-0.04	0.00	-0.05	-0.04	-0.04	-0.09	-0.14	-0.22	-0.59	-0.60	-0.73	-0.87	-1.31	-0.91	0.21	-0.33	-0.65	0.07	0.18	0.17	0.21	0.30	0.17	-0.22	0.30	-1.31
31	0.29	0.26	0.24	0.21	0.36	0.39	0.26	-0.32	-0.59	-0.95	-0.88	-1.02	-0.64	-0.63	-1.20	-1.17	-1.12	-0.74	-0.21	0.11	0.08	0.03	0.07	-0.02	-0.30	0.39	-1.20
Avg	0.29	0.33	0.33	0.41	0.35	0.33	0.03	-0.40	-0.60	-0.78	-0.85	-1.09	-1.20	-1.15	-1.11	-0.89	-0.64	-0.31	-0.06	0.15	0.19	0.18	0.18	0.19	-0.25	--	--
Max	1.37	1.14	1.29	1.41	1.11	0.86	0.43	0.02	0.02	-0.05	-0.20	-0.39	-0.48	-0.40	-0.12	0.21	0.26	1.00	0.82	0.69	0.59	0.54	0.65	0.68	--	1.41	--
Min	-0.23	-0.04	-0.06	-0.13	-0.04	-0.04	-0.37	-0.85	-1.17	-1.53	-1.61	-1.97	-2.04	-1.88	-1.90	-1.29	-1.12	-0.81	-0.43	-0.12	-0.07	-0.14	-0.17	-0.12	--	--	-2.04

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Aug 2017

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	0.00	0.15	0.10	0.10	0.09	0.05	0.09	0.11	0.22	0.07	-0.68	-1.28	-1.00	-0.77	-0.42	-0.34	-0.03	0.00	0.07	0.12	0.14	0.08	0.08	0.16	-0.12	0.22	-1.28
2	0.17	0.11	0.13	0.09	0.07	0.06	0.14	0.03	-0.08	-0.22	-0.49	-1.45	-1.09	-0.57	-0.33	-0.17	-0.09	0.06	0.06	0.12	0.05	0.22	0.23	0.31	-0.11	0.31	-1.45
3	0.63	0.58	0.61	0.40	0.27	0.40	0.36	0.15	-0.26	-0.76	-0.76	-0.83	-0.98	-1.20	-1.18	-0.35	-0.73	-0.14	0.09	-0.15	0.28	0.20	0.12	0.24	-0.13	0.63	-1.20
4	0.26	0.42	0.33	0.39	0.20	0.42	0.02	-0.54	-0.39	-0.50	-0.56	-0.71	-1.00	-1.10	-0.94	-0.85	-0.78	-0.51	-0.14	0.19	0.44	0.49	0.59	0.65	-0.15	0.65	-1.10
5	0.11	0.09	0.16	0.29	0.31	0.62	0.28	-0.58	-0.61	-0.64	-0.86	-1.04	-1.14	-1.05	-1.01	-0.91	-0.71	-0.47	-0.05	0.18	0.33	0.46	0.77	0.65	-0.20	0.77	-1.14
6	0.31	0.46	0.72	0.87	0.66	0.57	0.51	-0.34	-0.38	-0.61	-0.78	-0.83	-1.04	-1.05	-1.10	-0.94	-0.71	-0.51	-0.06	0.13	0.54	0.59	0.53	0.69	-0.07	0.87	-1.10
7	0.79	1.47	0.66	0.93	1.12	0.94	0.29	-0.27	-0.32	-0.56	-0.62	-0.90	-1.13	-1.28	-1.19	-1.03	-0.74	-0.43	-0.01	0.29	0.61	0.86	0.70	0.70	0.04	1.47	-1.28
8	0.98	0.52	0.50	0.61	0.95	1.07	1.36	0.10	-0.66	-0.89	-1.57	-1.54	-1.13	-0.96	-1.09	-1.07	-0.85	-0.49	-0.08	0.17	0.27	0.69	0.96	1.04	-0.05	1.36	-1.57
9	0.70	0.87	1.03	1.24	1.02	1.06	0.32	-0.19	-0.50	-1.19	-1.58	-1.21	-1.15	-1.11	-1.21	-0.99	-0.85	-0.53	-0.05	0.12	0.23	0.63	0.73	0.72	-0.08	1.24	-1.58
10	0.92	1.04	0.74	0.66	0.71	0.43	0.11	0.60	0.25	-0.27	-1.02	-0.49	-1.69	-1.77	-1.69	-1.27	-1.06	-0.46	-0.02	0.14	-0.27	-0.20	-0.16	0.02	-0.20	1.04	-1.77
11	0.24	0.15	0.03	-0.02	-0.01	0.09	0.04	-0.43	-0.83	-1.29	-1.28	-1.61	-1.66	-1.76	-1.52	-1.46	-1.17	-0.66	-0.15	0.02	0.10	0.28	0.51	0.44	-0.50	0.51	-1.76
12	0.46	0.36	0.23	0.12	0.04	0.05	-0.20	-0.53	-0.56	-0.09	-0.11	-0.43	-0.88	-1.29	-1.07	-0.84	-0.78	-0.53	-0.01	0.16	0.40	0.40	0.28	0.21	-0.19	0.46	-1.29
13	-0.13	0.07	0.06	-0.05	-0.08	-0.04	-0.04	-0.03	-0.46	-0.93	-0.71	-0.75	-0.98	-1.07	-1.04	--	--	-0.47	-0.11	0.06	0.10	0.17	0.27	0.61	-0.25	0.61	-1.07
14	0.58	0.59	0.35	0.27	0.18	0.21	0.16	-0.22	-0.54	-0.49	-0.76	-1.04	-1.08	-1.18	-1.28	-0.90	-0.86	-0.52	-0.05	0.11	0.40	0.58	0.73	1.01	-0.16	1.01	-1.28
15	0.64	0.40	0.37	0.38	0.40	0.43	0.41	-0.15	-0.53	-0.77	-0.78	-1.24	-1.34	-1.29	-1.17	-1.06	-0.89	-0.49	-0.06	0.12	0.25	0.43	0.69	0.88	-0.18	0.88	-1.34
16	0.75	0.79	1.14	0.80	0.75	0.79	0.47	-0.36	-0.75	-1.02	-1.15	-1.48	-1.18	-1.53	-1.43	-1.25	-0.91	-0.60	-0.07	0.31	0.54	0.75	0.78	0.73	-0.13	1.14	-1.53
17	0.61	0.70	1.12	0.98	1.32	0.92	0.70	-0.36	-0.74	-0.92	-0.85	-1.29	-1.49	-1.45	-1.34	-1.14	-0.90	-0.55	0.02	0.56	0.83	0.79	1.33	0.99	-0.01	1.33	-1.49
18	1.44	1.68	1.00	0.73	0.63	1.10	0.99	-0.05	-0.81	-1.25	-0.97	-0.84	-1.22	-1.33	-1.26	-1.05	-0.87	-0.54	-0.07	0.33	0.35	0.47	0.33	0.36	-0.04	1.68	-1.33
19	0.52	0.32	0.97	0.35	0.73	0.66	0.33	-0.03	-0.40	-0.77	-0.81	-0.84	-0.97	-0.97	-0.85	-0.93	-0.46	-0.53	-0.12	0.11	0.19	0.53	0.64	0.56	-0.07	0.97	-0.97
20	0.42	0.63	0.30	0.12	0.12	0.22	0.33	0.05	-0.66	-1.06	-1.01	-1.23	-1.16	-1.42	-1.40	-0.88	-0.63	-0.42	-0.19	-0.41	-0.06	0.00	0.17	0.42	-0.32	0.63	-1.42
21	0.12	-0.04	-0.02	0.07	0.19	0.37	-0.04	-0.66	-1.06	-0.78	-0.47	-0.57	-1.29	-1.38	-1.51	-1.24	-1.10	-0.55	-0.13	0.03	0.07	0.14	0.59	0.74	-0.36	0.74	-1.51
22	0.63	0.76	1.06	0.84	0.95	0.56	0.27	-0.45	-0.90	-1.12	-0.92	-1.30	-1.30	-1.49	-1.40	-1.38	-1.09	-0.65	-0.12	0.04	0.07	0.03	1.11	1.13	-0.20	1.13	-1.49
23	0.92	1.05	0.94	0.90	0.94	0.62	0.59	0.41	-0.66	-0.72	-0.60	-0.89	-1.00	-0.96	-1.08	-0.56	-0.23	-0.34	-0.23	-0.12	-0.15	-0.14	-0.12	-0.05	-0.06	1.05	-1.08
24	0.10	-0.06	0.02	0.19	0.13	0.20	-0.08	-0.63	-0.97	-1.47	-2.00	-1.99	-2.21	-1.83	-1.58	-1.56	-1.18	-0.90	-0.34	0.00	0.15	0.23	0.43	0.44	-0.62	0.44	-2.21
25	0.56	0.49	0.72	0.33	0.39	0.34	0.08	-0.41	-1.03	-1.54	-1.94	-2.07	-1.74	-1.44	-0.98	-0.83	-0.94	-0.57	-0.06	0.14	0.42	0.48	0.55	0.59	-0.35	0.72	-2.07
26	0.56	0.51	0.64	0.64	0.50	0.42	0.14	-0.54	-1.02	-1.70	-1.77	-2.01	-1.85	-1.22	-1.08	-0.32	0.40	0.29	0.21	0.35	0.19	0.22	0.27	0.44	-0.24	0.64	-2.01
27	0.23	0.20	0.18	0.22	0.15	0.18	0.23	-0.05	-0.25	-0.84	-1.87	-2.17	-2.33	-1.81	-1.61	-1.47	-0.60	0.30	0.15	0.03	0.25	0.50	0.44	0.31	-0.40	0.50	-2.33
28	0.40	0.43	0.37	0.32	0.28	0.31	0.21	-0.44	-0.93	--	--	--	-1.99	-1.75	-1.61	-1.87	-0.73	-0.86	-0.21	-0.01	0.03	0.11	0.10	0.20	-0.36	0.43	-1.99
29	0.16	0.13	0.17	0.19	0.23	0.25	0.11	-0.38	-1.11	-1.60	-2.03	-1.93	-1.98	-1.89	-1.54	-1.73	-1.33	-0.48	0.01	0.12	0.18	0.20	0.18	0.10	-0.58	0.25	-2.03
30	0.16	0.22	0.15	0.22	0.23	0.25	0.03	-0.46	-1.02	-1.29	-1.46	-1.63	-2.16	-2.01	-1.64	-1.09	-0.75	-0.33	0.14	0.35	0.78	0.68	0.63	0.39	-0.40	0.78	-2.16
31	0.72	0.58	0.53	0.46	0.50	0.57	0.33	-0.31	-0.74	-1.06	-1.20	-1.42	-1.80	-1.78	-1.76	-1.43	-1.15	-0.55	0.24	0.72	0.57	0.75	1.10	1.13	-0.21	1.13	-1.80
Avg	0.48	0.50	0.49	0.44	0.45	0.46	0.28	-0.22	-0.60	-0.88	-1.05	-1.23	-1.39	-1.35	-1.24	-1.03	-0.76	-0.43	-0.04	0.14	0.27	0.37	0.50	0.54	-0.22	--	--
Max	1.44	1.68	1.14	1.24	1.32	1.10	1.36	0.60	0.25	0.07	-0.11	-0.43	-0.88	-0.57	-0.33	-0.17	0.40	0.30	0.24	0.72	0.83	0.86	1.33	1.13	--	1.68	--
Min	-0.13	-0.06	-0.02	-0.05	-0.08	-0.04	-0.20	-0.66	-1.11	-1.70	-2.03	-2.17	-2.33	-2.01	-1.76	-1.87	-1.33	-0.90	-0.34	-0.41	-0.27	-0.20	-0.16	-0.05	--	--	-2.33

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Sep 2017

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	1.10	0.89	0.66	0.63	0.46	0.35	0.17	-0.31	-0.80	-1.22	-1.86	-1.72	-1.81	-1.89	-1.61	-1.26	-0.77	-0.30	0.12	0.46	0.75	0.57	0.79	0.77	-0.24	1.10	-1.89
2	0.75	0.83	0.77	0.81	0.22	0.53	0.62	-0.18	-0.95	-1.25	-1.41	-1.16	-1.33	-0.71	-0.82	-0.78	-0.51	-0.17	0.17	0.38	0.05	0.02	0.03	0.29	-0.16	0.83	-1.41
3	0.50	0.16	0.16	0.09	0.00	0.06	0.12	-0.21	-0.66	-1.50	-1.50	-1.69	-1.97	-1.84	-1.59	-1.01	-0.80	-0.38	-0.08	-0.04	0.00	0.02	0.04	0.17	-0.50	0.50	-1.97
4	0.05	0.00	0.36	0.94	0.61	0.60	0.52	-0.23	-0.84	-0.62	-0.53	-0.83	-0.99	-1.05	-1.06	-0.99	-0.41	0.04	-0.06	0.23	0.16	0.04	0.24	0.76	-0.13	0.94	-1.06
5	0.59	0.60	0.44	0.68	0.78	0.53	0.45	-0.30	-0.99	-1.33	-1.40	-1.61	-1.73	-1.64	-1.33	-1.30	-0.90	-0.49	0.06	0.33	0.16	0.28	0.42	0.46	-0.30	0.78	-1.73
6	0.47	0.76	0.56	0.71	0.50	0.41	0.25	-0.30	-0.86	-1.24	-1.39	-1.65	-1.66	-1.70	-1.57	-1.39	-0.90	-0.42	0.31	0.63	0.51	0.71	0.64	0.86	-0.24	0.86	-1.70
7	0.89	0.69	0.58	0.67	0.73	0.79	0.91	-0.29	-0.89	-1.25	-1.42	-1.64	-1.65	-1.65	-1.56	-1.46	-0.88	-0.36	-0.04	-0.08	0.02	-0.03	0.09	0.35	-0.31	0.91	-1.65
8	0.50	0.27	0.39	0.47	0.68	0.39	0.62	-0.10	-0.45	-0.85	-0.97	-1.01	-0.93	-1.19	-0.89	-0.85	-0.77	0.05	0.85	0.34	0.06	0.15	0.08	0.14	-0.13	0.85	-1.19
9	0.14	0.08	0.34	0.21	0.28	0.23	0.13	0.06	-0.42	-0.68	-1.03	-1.47	-1.57	-1.32	-0.65	-0.99	-0.81	-0.21	-0.02	0.04	0.17	0.53	0.61	0.47	-0.24	0.61	-1.57
10	0.26	0.27	0.25	0.33	0.27	0.31	0.18	-0.47	-0.69	-1.24	-1.60	-1.86	-1.66	-1.82	-1.43	-1.07	-0.52	-0.13	0.33	0.55	0.54	0.72	0.45	0.62	-0.31	0.72	-1.86
11	0.86	0.86	0.77	0.54	0.38	0.34	0.24	-0.33	-0.85	-1.23	-1.48	-1.65	-1.60	-1.71	-1.51	-1.17	-0.80	-0.54	0.36	0.79	0.88	1.14	0.79	0.78	-0.17	1.14	-1.71
12	0.73	0.51	0.63	0.64	0.73	0.55	0.38	-0.30	-0.99	-1.55	-1.61	-1.49	-1.63	-1.64	-1.25	-1.17	-0.82	-0.40	0.05	0.12	0.13	0.21	0.18	0.16	-0.33	0.73	-1.64
13	0.18	0.52	0.86	0.63	0.64	0.53	0.63	-0.49	-0.84	-0.56	-0.69	-0.99	-1.34	-1.22	-1.24	-0.97	-0.73	-0.37	0.02	0.16	0.09	0.12	0.58	0.98	-0.15	0.98	-1.34
14	0.51	0.51	0.52	0.45	0.28	0.27	0.32	-0.17	-0.69	-0.91	-1.23	-1.10	-0.85	-0.94	-0.81	-0.56	-0.39	-0.21	-0.04	0.00	0.02	0.04	0.05	0.07	-0.20	0.52	-1.23
15	0.10	0.14	0.13	0.18	0.24	0.27	0.22	-0.28	-0.73	-1.06	-1.07	-0.97	-1.13	-1.20	-1.09	-0.93	-0.70	-0.33	0.01	0.10	0.18	0.11	0.15	0.19	-0.31	0.27	-1.20
16	0.03	0.05	0.16	0.45	0.72	0.68	0.16	-0.62	-0.75	-0.89	-1.23	-1.58	-1.74	-1.67	-1.42	-1.28	-0.94	-0.38	0.05	0.26	0.50	0.61	0.47	0.79	-0.32	0.79	-1.74
17	0.42	0.39	0.14	0.27	0.65	0.57	0.39	-0.46	-0.99	-1.13	-1.41	-1.53	-1.24	-1.14	-1.17	-1.13	-0.66	-0.33	0.14	0.27	0.40	0.74	0.76	0.73	-0.22	0.76	-1.53
18	1.16	0.93	0.90	0.71	1.18	1.05	0.68	-0.26	-0.85	-1.21	-1.41	-1.34	-1.39	-1.28	-1.08	-1.05	-0.73	-0.27	0.22	0.29	0.88	1.23	1.23	0.61	0.01	1.23	-1.41
19	0.47	0.38	0.44	0.40	0.52	0.80	0.61	-0.13	-0.55	-0.76	-1.00	-1.05	-1.14	-1.22	-1.06	-0.82	-0.55	-0.22	0.06	0.16	0.20	0.29	0.47	0.38	-0.14	0.80	-1.22
20	0.52	0.46	0.48	0.55	0.49	0.83	0.26	-0.50	-0.82	-1.14	-1.50	-1.29	-1.47	-1.49	-1.10	-0.90	-0.61	-0.22	0.12	0.24	0.27	0.27	0.31	0.41	-0.24	0.83	-1.50
21	0.46	0.32	0.62	0.82	1.09	1.14	0.67	-0.26	-0.64	-0.99	-1.11	-1.22	-1.36	-1.34	-1.07	-0.86	-0.62	-0.24	0.04	0.12	0.14	0.12	0.21	0.16	-0.16	1.14	-1.36
22	0.19	0.32	0.22	0.06	0.00	0.09	0.14	-0.17	-0.38	-0.96	-1.04	-1.15	-1.11	-1.33	-1.18	-1.14	-0.77	-0.43	0.00	0.26	0.05	0.14	0.11	0.17	-0.33	0.32	-1.33
23	0.15	0.11	0.06	0.09	0.30	0.56	0.43	-0.06	-0.61	-0.88	-1.04	-1.00	-1.24	-1.12	-1.38	-0.97	-0.78	-0.27	0.11	0.11	0.17	0.20	0.37	0.83	-0.24	0.83	-1.38
24	0.63	0.50	0.70	0.76	0.96	0.72	0.89	-0.41	-0.95	-0.69	-0.97	-1.33	-1.52	-1.40	-1.35	-1.00	-0.82	-0.31	0.05	0.06	0.11	0.22	0.25	0.67	-0.18	0.96	-1.52
25	1.14	1.29	0.77	0.55	0.60	0.56	0.31	-0.46	-0.98	-1.61	-1.36	-1.04	-1.12	-1.23	-1.24	-1.09	-0.83	-0.23	0.13	0.12	0.69	0.88	1.09	1.18	-0.08	1.29	-1.61
26	0.89	1.02	0.80	1.30	0.66	0.73	0.31	-0.44	-0.74	-1.11	-1.23	-0.81	-1.40	-1.02	-1.10	-0.88	-0.48	-0.17	0.06	0.26	0.57	0.60	0.48	0.61	-0.05	1.30	-1.40
27	0.63	0.54	0.62	0.48	0.66	0.65	0.68	-0.53	-1.01	-1.34	-1.54	-1.65	-1.70	-1.58	-1.20	-1.15	-0.72	-0.26	0.09	0.16	0.54	0.84	0.88	0.41	-0.23	0.88	-1.70
28	0.34	0.44	0.40	0.30	0.57	0.43	0.30	-0.42	-0.97	-1.48	-1.49	-1.64	-1.35	-1.00	-1.34	-1.09	-0.72	-0.23	0.01	0.05	0.45	0.83	0.74	0.77	-0.26	0.83	-1.64
29	0.41	0.25	0.22	0.25	0.23	0.21	0.09	-0.45	-0.70	-1.09	-1.38	-1.68	-1.44	-1.43	-1.14	-1.01	-0.78	-0.19	0.09	0.33	0.68	0.72	0.69	1.02	-0.26	1.02	-1.68
30	0.73	0.84	0.66	0.57	0.62	0.38	0.13	-0.46	-0.92	-1.14	-1.49	-1.66	-1.40	-1.23	-1.11	-0.94	-0.64	-0.16	0.15	0.19	0.39	0.89	0.80	0.82	-0.17	0.89	-1.66
Avg	0.53	0.50	0.49	0.52	0.54	0.52	0.39	-0.32	-0.78	-1.10	-1.28	-1.36	-1.42	-1.37	-1.21	-1.04	-0.71	-0.27	0.11	0.23	0.32	0.44	0.47	0.55	-0.22	--	--
Max	1.16	1.29	0.90	1.30	1.18	1.14	0.91	0.06	-0.38	-0.56	-0.53	-0.81	-0.85	-0.71	-0.65	-0.56	-0.39	0.05	0.85	0.79	0.88	1.23	1.23	1.18	--	1.30	--
Min	0.03	0.00	0.06	0.06	0.00	0.06	0.09	-0.62	-1.01	-1.61	-1.86	-1.86	-1.97	-1.89	-1.61	-1.46	-0.94	-0.54	-0.08	-0.08	0.00	-0.03	0.03	0.07	--	--	-1.97

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jul 2017

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	0.004	0	0	0	0	0	0	0	0.004	0.004	0
8	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	0.004	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	0.004	0	0	0.004	0.016	0.004	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0.028	0.016	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	0.083	0	0	0	0	0	0	0.083	0.083	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.024	0.056	0.008	0	0	0	0	0	0.088	0.056	0
15	0.016	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13	0	0	0	0	0	0	0	0.154	0.13	0
16	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.891	0.319	0	0	0	0.02	0.028	1.26	0.891	0
17	0.241	0.088	0.032	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0.059	0.008	0	0	0	0	0.351	0.787	0.351	0
18	0.02	0.024	0.004	0	0	0	0	0	0	0	0	0	0	0	0.02	0.028	0.008	0	0	0	0	0	0	0	0.104	0.028	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	0.186	0.06	0.004	0	0	0.25	0.186	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.039	0.151	0.008	0	0	0	0	0	0.198	0.151	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.185	0.619	0.004	0	0	0	0	0	0	0.808	0.619	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.142	0.004	0	0	0	0.004	0.004	0.154	0.142	0
24	0	0	0	0	0	0	0	0	0.536	0.851	0.028	0	0	0	0	0.012	0.004	0	0	0	0	0	0	0	1.43	0.851	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	0.008	0.091	0.02	0.119	0.091	0
28	0	0	0	0.008	0.028	0.358	0.032	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.43	0.358	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	0.158	0.004	0	0	0	0	0	0	0	0.162	0.158	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	0.277	0.124	0.036	0.016	0.032	0.358	0.032	0.004	0.552	0.859	0.028	0	0	0	0.02	0.387	0.832	1.39	0.347	0.186	0.06	0.012	0.115	0.403	6.07	--	--
Max	0.241	0.088	0.032	0.008	0.028	0.358	0.032	0.004	0.536	0.851	0.028	0	0	0	0.02	0.185	0.619	0.891	0.319	0.186	0.06	0.008	0.091	0.351	--	0.891	--
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: Aug 2017

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	0.315	0.221	0.004	0.016	0	0.004	0	0	0	0.008	0	0	0	0	0.004	0	0	0	0.572	0.315	0
2	0	0	0	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.004	0
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	0.154	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0.158	0.154	0
13	0	0.044	0.024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.068	0.044	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	0.094	0	0.094	0.094	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	0.004	0.004	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
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	0.016	0	0	0	0	0	0	0	0.016	0.016	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.016	0	0	0	0	0	0	0.016	0.016	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0.044	0.028	0.008	0	0	0.315	0.221	0.004	0.17	0.004	0.004	0	0	0	0.008	0.016	0.016	0	0	0.004	0	0.094	0	0.936	--	--
Max	0	0.044	0.024	0.004	0	0	0.315	0.221	0.004	0.154	0.004	0.004	0	0	0	0.008	0.016	0.016	0	0	0.004	0	0.094	0	--	0.315	--
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: Sep 2017

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	0.185	0	0.004	0	0	0	0	0.189	0.185	0
9	0.004	0.02	0.012	0.008	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.048	0.02	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	0.012	0	0.012	0.012	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.004	0.02	0.012	0.008	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0.185	0	0.004	0	0	0.012	0	0.249	--	--
Max	0.004	0.02	0.012	0.008	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0.185	0	0.004	0	0	0.012	0	--	0.185	--
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, RH_Percent"
Month: Jul 2017

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

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Aug 2017

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

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, RH_Percent"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	22	25	25	25	25	26	26	25	21	18	17	15	14	14	13	13	13	14	15	16	19	18	16	16	19	26	13
2	17	16	17	20	46	44	36	22	18	19	16	17	17	18	18	18	18	19	20	25	35	38	40	42	25	46	16
3	43	44	54	56	56	57	58	56	37	24	19	16	14	13	17	22	23	26	29	33	33	35	38	40	35	58	13
4	51	55	58	58	52	47	44	40	36	39	47	41	38	34	31	26	25	21	26	26	27	32	34	39	39	58	21
5	42	40	36	38	40	41	38	30	27	23	20	17	15	15	15	16	17	17	18	20	21	23	23	24	26	42	15
6	26	22	21	24	26	27	29	30	28	25	21	18	17	15	13	13	13	14	16	18	21	22	24	24	21	30	13
7	24	25	25	25	26	29	29	28	27	24	20	18	17	15	12	15	20	23	26	32	29	28	32	37	24	37	12
8	37	37	40	40	43	44	43	37	36	33	30	29	28	28	32	31	30	56	64	57	58	60	66	64	43	66	28
9	72	82	82	79	80	78	77	73	63	59	54	49	42	40	39	35	36	39	42	43	46	54	52	52	57	82	35
10	53	54	56	55	54	54	51	46	45	39	35	31	27	24	22	21	23	23	22	26	27	27	28	29	36	56	21
11	29	32	35	36	34	34	33	31	28	27	23	22	20	19	19	19	18	18	22	23	25	29	31	29	27	36	18
12	30	32	33	31	31	31	30	27	23	21	18	17	16	16	16	17	17	17	19	20	21	22	23	24	23	33	16
13	26	28	32	32	35	36	36	34	27	24	23	21	20	20	19	19	20	21	23	24	25	30	41	47	28	47	19
14	38	38	41	41	41	41	41	39	36	34	30	28	28	26	24	24	27	30	30	32	35	39	41	41	34	41	24
15	42	43	45	48	50	51	50	47	47	44	37	36	35	31	28	27	27	26	26	26	27	26	26	29	36	51	26
16	29	29	28	32	37	40	41	43	46	48	41	36	33	28	24	21	21	25	27	28	30	32	33	35	33	48	21
17	36	34	34	32	37	39	37	31	31	33	32	28	27	28	25	22	19	19	20	21	23	24	26	27	29	39	19
18	29	31	30	30	33	34	32	27	22	19	16	14	15	11	11	12	11	11	11	12	14	15	15	13	20	34	11
19	14	16	19	26	28	24	23	32	36	40	42	38	33	30	24	21	16	18	18	14	8	6	7	11	23	42	6
20	22	26	25	26	29	37	37	32	45	40	34	28	24	25	20	15	13	13	14	9	9	10	12	14	23	45	9
21	17	15	15	15	20	25	23	30	41	30	18	18	21	21	17	16	17	17	17	18	19	20	18	22	21	41	15
22	19	19	24	29	33	37	40	37	36	36	33	28	27	28	27	27	29	33	37	39	39	37	33	31	32	40	19
23	28	28	21	21	24	26	21	17	16	15	16	18	16	14	12	12	12	13	15	16	18	20	21	22	18	28	12
24	25	25	27	27	29	30	31	26	20	18	17	16	15	13	12	12	13	13	14	13	13	14	14	15	19	31	12
25	17	16	17	16	15	14	13	11	9	9	8	8	8	8	8	8	7	7	9	9	11	14	13	14	11	17	7
26	14	15	15	15	17	16	16	14	12	10	8	8	8	8	8	8	9	10	11	12	13	14	14	15	12	17	8
27	13	14	16	16	17	16	17	16	12	12	12	16	17	15	14	13	12	12	12	12	13	15	17	23	15	23	12
28	31	37	40	42	42	44	43	40	40	40	36	29	24	19	17	20	23	25	27	28	31	32	33	33	33	44	17
29	41	49	57	61	64	66	67	59	52	47	42	34	29	26	25	20	19	21	24	25	28	28	29	28	39	67	19
30	30	34	37	40	48	56	60	55	49	43	39	33	28	23	20	16	14	15	16	17	18	19	21	21	31	60	14
Avg	31	32	33	35	37	38	37	35	32	30	27	24	22	21	19	19	19	21	22	23	25	26	27	29	28	--	--
Max	72	82	82	79	80	78	77	73	63	59	54	49	42	40	39	35	36	56	64	57	58	60	66	64	--	82	--
Min	13	14	15	15	15	14	13	11	9	9	8	8	8	8	8	8	7	7	9	9	8	6	7	11	--	--	6

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jul 2017

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	27.8	212	445	663	845	977	1,054	1,067	1,020	922	774	567	347	131	4.21	0	0	0	0	377	1,067	0
2	0	0	0	0	0	23.7	192	420	632	812	946	1,020	1,036	988	894	749	548	332	124	6.02	0	0	0	0	363	1,036	0
3	0	0	0	0	0	19.3	180	402	616	798	928	1,002	1,019	975	884	744	545	331	126	5.95	0	0	0	0	357	1,019	0
4	0	0	0	0	0	18.9	186	407	621	808	944	1,020	1,039	991	899	756	549	337	129	6.51	0	0	0	0	363	1,039	0
5	0	0	0	0	0	14.8	191	444	623	807	943	1,018	1,035	991	895	751	548	321	135	12.9	0	0	0	0	364	1,035	0
6	0	0	0	0	0	17.1	168	378	603	790	930	1,005	1,026	980	881	733	464	74.8	63.7	16.5	0	0	0	0	339	1,026	0
7	0	0	0	0	0	17.5	141	385	610	790	922	995	1,010	978	923	375	163	134	54.4	5.52	0	0	0	0	313	1,010	0
8	0	0	0	0	0	17	164	384	601	782	928	1,010	888	663	472	412	160	338	103	7.32	0	0	0	0	289	1,010	0
9	0	0	0	0	0	6.75	56.8	159	217	724	725	1,086	1,005	970	887	550	85.6	32.4	49.1	10.1	0	0	0	0	274	1,086	0
10	0	0	0	0	0	5.43	71.2	226	564	592	765	998	1,010	972	914	749	584	371	135	16.4	0	0	0	0	332	1,010	0
11	0	0	0	0	0	10.6	68.9	73.8	73.1	126	221	--	--	715	902	473	376	223	83	13.2	0	0	0	0	153	902	0
12	0	0	0	0	0	8.97	136	378	604	622	750	1,036	939	938	880	750	553	114	91.6	6.83	0	0	0	0	325	1,036	0
13	0	0	0	0	0	9.89	97.5	187	492	637	910	800	1,022	970	875	743	552	173	167	11.3	0	0	0	0	319	1,022	0
14	0	0	0	0	0	11.9	171	349	588	771	906	993	1,048	1,011	909	781	234	6.54	0.465	0.74	0	0	0	0	324	1,048	0
15	0	0	0.0175	0	0	16.2	167	375	590	770	907	1,003	1,018	1,016	774	331	59	5.2	7.08	2.94	0	0	0	0	293	1,018	0
16	0	0	0	0	0	13.9	218	405	595	786	769	989	812	1,023	820	803	571	72.4	29.5	11.7	0	0	0	0	330	1,023	0
17	0.0238	0	0	0.701	1.44	11.5	126	484	714	564	680	977	878	1,011	790	749	665	269	53.9	5.31	0	0	0	0.181	332	1,011	0
18	0.477	0.195	0.157	0.425	0.0005	16.6	68.2	305	522	782	876	465	486	888	85.8	66.4	52.8	120	76.1	6.45	0	0	0	0	201	888	0
19	0	0	0	0	0	14.4	194	388	585	813	973	1,029	1,058	716	499	95.1	168	174	68.9	4.53	0	0	0	0	282	1,058	0
20	0	0	0	0	0	1.51	37.9	162	200	436	830	999	1,018	1,016	909	734	576	291	64.8	3.33	0.0018	0	0	0	303	1,018	0
21	0	0	0	0	0	4.33	97.6	246	289	771	924	1,000	1,051	967	846	526	131	11.1	9.63	2.39	0.0518	0.0205	0	0	286	1,051	0
22	0	0	0	0	0	5.73	77.8	336	403	806	915	938	941	895	884	471	11.1	43.8	71.6	9.28	0.0013	0	0	0	284	941	0
23	0	0	0	0	0	6.41	150	240	570	640	380	261	954	1,034	917	787	380	17.6	10.9	1.35	0.001	0	0	0	265	1,034	0
24	0	0	0	0	0	3.34	59.8	119	47.2	39.6	212	558	493	240	424	114	85.1	133	87	9.4	0	0	0	0	109	558	0
25	0	0	0	0	0.0228	3.43	85.3	355	546	702	344	777	714	624	903	705	476	287	110	7.44	0	0	0	0	277	903	0
26	0	0	0	0	0	5.64	145	361	576	764	906	992	1,018	897	876	714	533	300	141	8.84	0	0	0	0	343	1,018	0
27	0	0	0	0	0	2.5	131	362	581	766	901	899	966	871	770	343	150	99.6	16.2	0.765	0	0.0195	0	1.28	286	966	0
28	0.964	0	0	0	0	1.12	64.2	184	433	703	697	929	1,006	971	866	739	558	381	124	9.99	0	0	0	0	319	1,006	0
29	0	0	0	0	0	5.86	70	171	531	659	634	459	900	392	557	634	465	183	73.4	0.526	0	0	0	0	239	900	0
30	0	0	0	0	0	1.3	22.7	62.2	136	369	689	846	1,027	850	665	110	401	320	55.1	5.85	0	0	0	0	232	1,027	0
31	0	0	0	0	0	1.18	81.1	311	494	611	626	954	651	805	933	794	580	333	105	3.73	0	0	0	0	303	954	0
Avg	0.0472	0.0063	0.00562	0.0363	0.0474	10.5	124	307	494	674	776	904	938	883	795	582	380	199	80.5	7.01	0.0018	0.00129	0	0.047	296	--	--
Max	0.964	0.195	0.157	0.701	1.44	27.8	218	484	714	845	977	1,086	1,067	1,034	933	803	665	381	167	16.5	0.0518	0.0205	0	1.28	--	1,086	--
Min	0	0	0	0	0	1.12	22.7	62.2	47.2	39.6	212	261	486	240	85.8	66.4	11.1	5.2	0.465	0.526	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Aug 2017

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	0.405	3.62	34.9	89.8	217	672	1,004	871	680	315	327	106	37.3	33.6	1.43	0	0	0	0	183	1,004	0
2	0	0	0	0	0	1.32	28.7	74.3	127	197	370	1,029	704	416	280	190	194	107	38	2.69	0	0	0	0	157	1,029	0
3	0	0	0	0	0	2.13	25.2	106	289	599	720	679	900	984	811	220	492	134	15.1	0.0093	0	0	0	0	249	984	0
4	0	0	0	0	0	1.37	117	355	567	764	903	986	1,004	963	863	722	518	299	80.5	1.31	0	0	0	0	339	1,004	0
5	0	0	0	0	0	1.19	103	356	576	771	912	997	1,018	980	879	733	521	297	77.7	1.68	0	0	0	0	343	1,018	0
6	0	0	0	0	0	1.19	121	364	590	785	929	1,017	1,034	989	886	744	531	301	74.7	1.08	0	0	0	0	349	1,034	0
7	0	0	0	0	0	1.53	135	359	581	775	924	1,007	1,024	983	879	735	528	303	73.5	0.846	0	0	0	0	346	1,024	0
8	0	0	0	0	0	1.35	135	362	589	783	918	948	880	892	846	710	510	287	71	0.927	0	0	0	0	331	948	0
9	0	0	0	0	0	1.15	124	352	496	748	908	980	997	980	872	702	511	282	68.3	0.727	0	0	0	0	334	997	0
10	0	0	0	0	0.006	0.0213	14.2	35.7	78	329	723	455	825	909	830	696	509	191	40.2	0.519	0	0	0	0	235	909	0
11	0	0	0	0	0	0.641	86	337	564	753	891	974	997	922	821	648	549	286	66.2	0.906	0	0	0	0	329	997	0
12	0	0	0	0	0	1.77	118	320	233	53.7	236	361	605	964	865	615	457	273	60.5	0.714	0	0	0	0	215	964	0
13	0.009	0	0.00025	0	0.0512	0.19	22.9	133	468	761	897	924	993	951	843	697	494	272	59.9	0.507	0	0	0	0	313	993	0
14	0	0	0	0	0	0.836	112	335	498	580	871	978	992	955	840	657	506	275	58.7	0.382	0	0	0	0	319	992	0
15	0	0	0	0	0	0.545	118	343	571	779	683	953	1,017	980	881	710	496	266	55.8	0.153	0	0	0	0	327	1,017	0
16	0	0	0	0	0	0.451	119	343	575	770	912	997	1,012	968	858	702	492	266	52.8	0.126	0	0	0	0	336	1,012	0
17	0	0	0	0	0	0.298	119	346	574	776	918	1,005	1,030	984	873	719	506	275	51.4	0	0	0	0	0	341	1,030	0
18	0	0	0	0	0	0.362	113	351	581	775	919	1,003	1,015	968	858	702	483	258	48.7	0.0308	0	0	0	0	336	1,015	0
19	0	0	0	0	0	0.033	128	322	596	767	906	894	824	816	678	639	334	311	70.6	1.25	0	0	0	0	304	906	0
20	0	0	0	0	0	0	26.8	132	389	599	615	985	740	852	844	445	358	208	18	0	0	0	0	0	259	985	0
21	0	0	0	0	0	0.189	102	323	548	653	369	728	980	942	855	708	477	240	43.7	0.0168	0	0	0	0	290	980	0
22	0	0	0	0	0	0.512	80.4	324	505	750	875	958	990	951	832	702	475	243	41.4	0	0	0	4.19	0.04	322	990	0
23	0	0	0	0	0	0.0463	40.8	172	437	731	846	998	861	725	871	271	153	102	18.2	0	0	0	0	0	260	998	0
24	0	0	0	0	0	0.108	94.2	325	553	748	889	973	989	948	847	615	507	303	51.7	0	0	0	0	0	327	989	0
25	0	0	0	0	0	0.0683	97.7	324	549	742	881	965	965	728	493	427	432	240	35.3	0	0	0	0	0	287	965	0
26	0	0	0	0	0	0.0505	90.9	321	531	748	880	959	973	828	404	87.5	47.3	48.5	4.65	0	0	0	0	0	247	973	0
27	0	0	0	0	0	0	27.7	155	222	481	898	972	969	917	731	670	144	19.8	7.96	0	0	0	0	0	259	972	0
28	0	0	0	0	0	0	83.3	320	535	727	865	945	969	849	789	690	214	259	34.2	0	0	0	0	0	303	969	0
29	0	0	0	0	0	0.0235	64.4	269	553	726	863	943	958	907	792	637	426	149	33.6	0	0	0	0	0	305	958	0
30	0	0	0	0	0	0.0005	78.6	298	525	719	861	941	953	907	750	570	429	206	26.5	0	0	0	0	0	303	953	0
31	0	0	0	0	0	0	74.3	290	525	723	873	963	976	922	798	635	423	198	23	0	0	0	0	0	309	976	0
Avg	0.00029	0	0.000008	0	0.00185	0.573	84	274	468	656	804	920	937	895	774	591	414	224	46.3	0.494	0	0	0.135	0.00129	295	--	--
Max	0.009	0	0.00025	0	0.0512	2.13	135	364	596	785	929	1,029	1,034	989	886	744	549	311	80.5	2.69	0	0	4.19	0.04	--	1,034	--
Min	0	0	0	0	0	0	3.62	34.9	78	53.7	236	361	605	416	280	87.5	47.3	19.8	4.65	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Sep 2017

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	73.3	294	521	720	856	940	956	905	788	614	406	193	23.6	0	0	0	0	0	304	956	0
2	0	0	0	0	0	0	48.1	304	462	659	854	563	628	333	366	331	220	89.7	21.2	0	0	0	0	0	203	854	0
3	0	0	0	0	0	0	37	170	431	716	846	988	1,034	910	793	619	412	152	16.1	0	0	0	0	0	297	1,034	0
4	0	0	0	0	0	0	62.9	271	442	687	652	882	939	890	664	609	156	27.5	22.4	0	0	0	0	0	263	939	0
5	0	0	0	0	0	0	61.4	270	496	692	838	916	925	874	598	622	419	179	18.1	0	0	0	0	0	288	925	0
6	0	0	0	0	0	0	54.3	246	467	669	823	897	906	852	732	560	360	146	14.4	0	0	0	0	0	280	906	0
7	0	0	0	0	0	0	55.6	250	470	667	815	890	902	859	720	591	359	136	3.86	0	0	0	0	0	280	902	0
8	0	0	0	0	0	0	48.1	249	464	659	745	668	706	854	750	579	324	54.2	17.3	0	0	0	0	0	255	854	0
9	0	0	0	0.00125	0	0.006	10.7	101	290	394	473	716	904	667	312	561	370	86.8	13.2	0	0	0	0	0	204	904	0
10	0	0	0	0	0	0	58.5	320	396	707	838	915	936	928	679	424	231	115	8.97	0	0	0	0	0	273	936	0
11	0	0	0	0	0	0	58.9	274	502	695	838	916	930	897	658	402	207	144	8.59	0	0	0	0	0	272	930	0
12	0	0	0	0	0	0	58.6	276	503	696	835	913	938	920	818	586	350	145	6.95	0	0	0	0	0	294	938	0
13	0	0	0	0	0	0	57.8	272	494	685	830	914	924	868	745	573	355	140	3.46	0	0	0	0.0262	0	286	924	0
14	0	0	0	0	0	0	32.3	281	499	631	850	768	650	717	558	406	238	80.8	13.1	0	0	0	0	0	238	850	0
15	0	0	0	0	0	0	58.9	284	512	714	764	827	864	855	671	558	362	138	5.23	0	0	0	0	0	276	864	0
16	0	0	0	0	0	0	58.7	281	497	483	675	888	838	862	695	565	361	132	4.07	0	0	0	0	0	264	888	0
17	0	0	0	0	0	0	52.7	268	502	699	845	920	719	781	767	575	355	128	3.55	0	0	0	0	0	276	920	0
18	0	0	0	0	0	0	57.3	281	515	714	861	941	942	886	759	580	360	127	2.57	0	0	0	0	0	293	942	0
19	0	0	0	0	0	0	55.3	279	510	674	799	886	941	823	745	546	338	119	4.17	0	0	0	0	0	280	941	0
20	0	0	0	0	0	0	52.9	273	504	707	847	911	909	858	737	564	345	115	2.68	0	0	0	0	0	284	911	0
21	0	0	0	0	0	0	51.7	275	509	710	852	919	922	858	729	552	340	110	2.17	0	0	0	0	0	285	922	0
22	0	0	0	0	0	0	21.9	263	473	686	835	912	916	854	726	552	337	113	2.63	0	0	0	0	0	279	916	0
23	0	0	0	0	0	0	34.9	271	507	705	851	935	942	879	749	563	337	102	1.6	0	0	0	0	0	287	942	0
24	0	0	0	0	0	0	46.8	269	500	702	850	920	927	869	739	556	332	95.7	1.13	0	0	0	0	0	284	927	0
25	0	0	0	0	0	0	47.6	278	515	715	856	933	936	872	741	555	330	91.9	0.461	0	0	0	0	0	286	936	0
26	0	0	0	0	0	0	42.9	248	395	624	630	761	815	810	693	506	217	87.4	1.71	0	0	0	0	0	243	815	0
27	0	0	0	0	0	0	17.2	304	487	682	819	896	901	838	706	526	306	81.3	0.62	0	0	0	0	0	274	901	0
28	0	0	0	0	0	0	37.1	250	476	669	812	836	674	404	713	543	299	75.8	0.701	0	0	0	0	0	241	836	0
29	0	0	0	0	0	0	35.7	242	468	661	800	856	825	775	565	514	293	72.2	0.504	0	0	0	0	0	254	856	0
30	0	0	0	0	0	0	33.1	227	461	652	791	860	732	814	684	511	294	70.5	0.299	0	0	0	0	0	255	860	0
Avg	0	0	0	0.000042	0	0.0002	47.4	262	476	669	799	869	869	817	687	541	320	112	7.51	0	0	0	0.00088	0	270	--	--
Max	0	0	0	0.00125	0	0.006	73.3	320	521	720	861	988	1,034	928	818	622	419	193	23.6	0	0	0	0.0262	0	--	1,034	--
Min	0	0	0	0	0	0	10.7	101	290	394	473	563	628	333	312	331	156	27.5	0.299	0	0	0	0	0	--	--	0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.1	25.0	25.0	24.7	23.0	23.2	24.1	27.5	30.0	31.5	32.8	34.3	35.0	34.9	34.9	35.0	34.6	34.6	33.8	32.7	31.9	30.9	29.4	28.6	30.1	35.0	23.0
2	28.2	28.0	27.5	26.3	25.2	25.2	26.0	27.8	28.8	29.9	31.1	31.6	32.2	33.0	33.4	33.9	33.8	33.3	32.6	31.6	31.0	30.2	29.0	29.4	30.0	33.9	25.2
3	28.6	28.0	26.7	24.3	23.6	23.5	24.4	24.6	26.4	27.6	28.9	30.3	31.3	31.9	32.7	32.6	32.9	32.6	31.9	30.7	30.1	29.5	29.0	28.9	28.8	32.9	23.5
4	28.6	28.1	27.9	27.5	26.9	26.7	26.7	27.0	27.7	29.0	30.4	31.9	33.3	34.0	34.2	34.8	34.9	34.6	33.9	32.8	31.9	31.3	31.3	30.9	30.7	34.9	26.7
5	30.3	29.6	29.1	27.9	26.9	26.0	26.2	26.9	27.6	28.9	30.2	31.9	32.9	33.6	34.3	34.6	35.0	34.6	34.0	33.2	32.5	32.3	31.7	30.9	30.9	35.0	26.0
6	30.1	28.6	27.5	26.8	27.1	26.6	26.3	26.3	27.6	29.6	30.9	33.0	34.4	35.3	35.9	36.2	36.1	34.8	34.5	34.1	32.9	32.4	31.6	30.6	31.2	36.2	26.3
7	29.7	28.7	28.8	28.7	27.8	28.1	28.9	30.7	32.0	33.6	34.8	36.2	37.5	37.8	38.8	38.1	36.2	36.2	35.4	34.3	32.9	32.4	31.3	30.9	32.9	38.8	27.8
8	30.0	29.3	29.4	29.2	28.3	27.7	28.6	29.9	30.8	32.3	33.7	35.1	36.0	35.4	35.7	34.8	32.4	34.1	33.4	32.1	31.5	31.4	29.1	27.3	31.6	36.0	27.3
9	26.4	25.6	25.2	24.9	24.6	24.2	23.9	24.5	25.4	26.5	27.5	30.1	31.2	31.9	32.6	32.7	31.7	31.5	31.4	31.2	29.7	27.5	27.0	26.3	28.1	32.7	23.9
10	26.3	25.9	25.4	24.6	24.3	25.1	25.0	25.4	27.5	28.1	29.6	31.2	32.0	32.7	33.5	33.6	33.8	33.3	32.4	31.7	31.3	29.0	26.1	25.7	28.9	33.8	24.3
11	24.9	22.3	22.3	21.6	22.1	22.3	22.0	21.7	20.9	21.0	22.4	--	--	24.6	27.0	27.0	27.7	27.6	27.3	26.8	26.7	26.6	23.8	23.6	24.2	27.7	20.9
12	24.1	23.6	23.5	23.4	23.2	22.8	24.0	26.1	27.3	28.0	28.9	30.9	31.7	32.0	32.4	33.0	33.0	30.7	30.8	30.9	30.5	30.0	27.3	25.7	28.1	33.0	22.8
13	23.8	23.8	24.4	24.2	24.6	24.7	25.1	25.1	25.9	26.9	28.5	29.8	31.5	32.4	32.9	33.5	33.8	29.3	31.1	31.1	29.8	27.3	25.6	24.8	27.9	33.8	23.8
14	24.4	23.8	23.9	23.7	23.3	22.9	24.2	26.7	27.3	28.5	29.8	31.2	32.3	33.4	33.5	33.6	29.8	22.8	22.9	23.3	23.8	24.9	25.1	25.4	26.7	33.6	22.8
15	24.5	23.1	23.4	23.1	23.4	23.8	24.6	26.5	28.0	29.3	30.3	31.7	32.3	33.6	33.7	32.0	26.2	22.5	23.1	24.9	25.4	24.7	23.4	22.5	26.5	33.7	22.5
16	22.0	22.3	22.0	21.8	21.9	21.8	22.8	25.1	25.6	25.8	26.7	28.1	29.0	30.3	30.7	31.3	31.3	26.4	23.2	22.7	23.0	23.5	22.1	21.0	25.0	31.3	21.0
17	19.6	19.2	19.0	19.0	19.0	19.4	19.5	21.9	22.9	23.1	23.7	25.6	27.1	28.0	28.7	29.2	29.4	28.4	25.9	26.0	24.0	23.4	23.3	19.6	23.5	29.4	19.0
18	18.7	19.3	19.4	19.7	19.9	20.4	21.2	22.4	23.6	24.9	25.4	25.9	26.5	28.0	25.6	24.3	22.9	22.2	22.8	22.8	22.7	22.4	22.2	22.3	22.7	28.0	18.7
19	21.9	22.0	22.0	21.7	21.7	22.1	22.5	24.6	24.4	25.3	26.7	27.9	29.1	29.0	29.2	27.7	27.4	27.0	25.9	24.9	24.5	24.2	23.1	22.3	24.9	29.2	21.7
20	21.8	21.7	21.2	20.2	20.7	21.4	21.4	22.5	23.0	24.3	25.8	27.5	28.4	29.3	29.9	30.6	30.3	27.4	26.7	24.7	21.5	20.8	21.3	21.2	24.3	30.6	20.2
21	21.2	21.0	21.1	20.7	20.7	20.5	21.1	22.9	22.9	24.2	25.4	26.3	28.0	28.4	28.8	29.3	25.1	21.2	20.5	21.5	21.9	22.2	23.0	23.2	23.4	29.3	20.5
22	22.8	22.5	22.7	21.5	21.2	21.0	21.4	23.3	24.2	25.4	25.9	27.0	28.2	29.2	29.9	28.6	20.7	21.5	22.9	23.1	22.6	21.6	21.2	21.6	23.8	29.9	20.7
23	21.6	21.5	21.0	21.0	20.4	20.3	21.2	22.3	23.3	24.6	24.6	23.8	26.3	28.0	28.9	29.6	29.5	24.7	21.7	22.0	21.8	21.1	21.0	20.7	23.4	29.6	20.3
24	20.6	20.7	20.5	20.9	21.2	20.7	21.2	21.6	20.4	20.1	20.1	21.9	23.2	22.9	23.5	23.2	22.4	22.6	22.6	22.1	21.6	21.3	21.2	20.8	21.6	23.5	20.1
25	20.6	20.6	20.3	20.6	20.2	20.1	20.8	22.9	24.4	25.6	25.7	27.1	27.0	27.1	28.1	28.6	28.6	28.5	28.3	27.5	26.6	24.6	24.1	23.8	24.6	28.6	20.1
26	24.2	23.6	23.0	22.6	22.1	22.2	22.4	24.9	27.2	27.9	28.5	29.4	30.1	30.6	31.3	31.6	31.5	30.9	30.5	29.7	29.1	28.6	28.3	28.2	27.4	31.6	22.1
27	28.2	28.1	27.6	27.3	27.1	25.3	24.5	26.4	27.0	27.8	29.0	29.8	30.7	31.6	31.9	31.8	31.4	29.7	24.8	24.8	25.1	22.9	21.1	20.1	27.3	31.9	20.1
28	20.7	20.6	20.8	20.6	20.3	19.5	19.6	20.5	22.3	24.9	25.0	25.9	26.8	27.5	28.4	28.9	29.0	29.0	28.2	27.5	26.9	25.5	24.5	22.8	24.4	29.0	19.5
29	22.5	22.0	21.7	21.8	22.1	21.8	22.6	22.5	23.8	24.9	25.6	26.2	27.0	25.9	26.8	28.0	28.7	27.8	26.2	24.4	23.8	23.6	23.0	22.1	24.4	28.7	21.7
30	21.8	21.7	21.7	21.4	21.2	21.1	20.7	20.8	21.5	22.6	23.7	24.7	26.1	26.7	27.8	23.5	25.0	26.9	26.3	25.7	24.7	23.9	24.3	24.2	23.7	27.8	20.7
31	24.0	23.5	23.5	22.9	22.2	21.8	21.9	24.1	26.1	27.5	28.5	29.4	29.6	30.3	31.6	32.3	32.6	31.2	29.0	28.3	27.7	26.2	25.7	25.0	26.9	32.6	21.8
Avg	24.5	24.0	23.8	23.4	23.1	23.0	23.4	24.7	25.7	26.8	27.8	29.2	30.2	30.6	31.2	31.1	30.3	29.0	28.2	27.7	27.1	26.3	25.5	24.9	26.7	--	--
Max	30.3	29.6	29.4	29.2	28.3	28.1	28.9	30.7	32.0	33.6	34.8	36.2	37.5	37.8	38.8	38.1	36.2	36.2	35.4	34.3	32.9	32.4	31.7	30.9	--	38.8	--
Min	18.7	19.2	19.0	19.0	19.0	19.4	19.5	20.5	20.4	20.1	20.1	21.9	23.2	22.9	23.5	23.2	20.7	21.2	20.5	21.5	21.5	20.8	21.0	19.6	--	--	18.7

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Aug 2017

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	23.4	22.7	22.4	22.5	22.5	22.4	20.8	19.4	20.6	20.9	23.6	26.5	27.5	27.7	27.1	25.8	23.8	22.7	22.8	23.3	21.8	21.5	21.6	21.7	23.1	27.7	19.4
2	22.0	22.1	22.1	22.0	21.7	21.4	22.2	22.2	22.1	23.1	23.8	26.7	27.2	27.1	26.8	26.3	26.6	26.3	25.5	24.8	24.2	23.7	23.5	23.3	24.0	27.2	21.4
3	23.1	23.2	23.6	22.9	22.9	22.3	22.9	23.2	24.5	26.5	27.4	28.4	29.0	30.1	30.6	28.9	29.3	27.7	27.1	23.1	24.2	24.1	23.7	23.2	25.5	30.6	22.3
4	22.6	22.4	22.9	22.4	22.2	21.8	21.9	23.5	25.5	25.8	26.5	27.7	29.0	29.5	29.8	30.1	30.2	29.8	29.1	28.2	26.5	25.3	25.0	24.4	25.9	30.2	21.8
5	24.4	23.5	22.9	23.8	23.9	23.5	22.5	24.2	25.4	25.8	26.7	27.8	28.9	29.6	30.1	30.3	30.1	29.8	29.2	28.4	27.8	25.6	25.5	25.0	26.4	30.3	22.5
6	25.5	25.0	24.0	23.3	23.5	23.0	22.7	23.9	25.0	26.0	26.7	27.7	29.0	29.8	30.4	30.5	30.3	29.9	29.0	28.3	27.1	25.5	24.8	24.9	26.5	30.5	22.7
7	25.6	24.0	24.0	22.8	22.6	22.3	22.1	24.4	26.3	28.2	28.5	29.6	30.3	31.1	31.5	31.7	31.4	31.1	30.2	29.2	27.0	26.1	25.2	25.3	27.1	31.7	22.1
8	24.7	24.3	24.4	23.8	23.6	24.4	23.1	26.2	28.2	29.6	31.8	32.0	32.2	32.3	32.8	33.0	32.8	32.2	31.3	30.4	29.7	27.9	26.9	26.0	28.5	33.0	23.1
9	26.3	25.6	25.2	24.8	23.5	23.8	23.7	26.2	29.1	30.4	31.9	32.7	33.2	33.7	34.4	34.3	34.4	33.9	32.9	31.9	31.2	30.1	28.1	27.2	29.5	34.4	23.5
10	27.5	26.2	26.0	25.9	25.7	25.6	24.3	25.0	26.1	26.9	29.8	29.1	31.7	32.7	33.6	33.9	33.8	32.7	31.1	29.8	25.1	23.2	22.2	22.8	27.9	33.9	22.2
11	23.6	24.2	24.5	23.8	23.5	24.0	24.3	25.5	27.4	29.1	30.6	31.6	32.4	32.9	33.3	33.7	33.7	33.0	31.6	30.8	30.4	29.4	27.4	26.6	28.6	33.7	23.5
12	26.0	25.5	25.1	25.3	24.2	23.8	24.0	25.3	25.0	22.2	21.7	22.7	25.2	27.9	29.3	29.7	30.2	30.1	29.2	28.4	27.0	25.8	25.5	25.3	26.0	30.2	21.7
13	20.8	20.9	20.4	19.9	19.3	19.1	19.0	20.1	22.3	25.3	25.8	26.2	26.9	27.6	27.9	29.6	29.5	28.6	27.7	26.9	26.1	25.7	25.3	24.1	24.4	29.6	19.0
14	23.5	23.3	23.6	23.9	23.4	22.6	22.7	23.5	24.6	24.6	25.9	27.3	28.3	29.0	29.6	29.1	29.5	29.4	28.5	27.9	27.0	25.1	24.4	23.8	25.8	29.6	22.6
15	24.7	24.9	24.3	23.8	23.4	22.8	22.6	23.6	24.6	25.7	26.3	27.9	28.9	29.4	29.5	29.6	29.8	29.4	28.6	27.7	27.0	26.4	25.1	24.3	26.3	29.8	22.6
16	22.3	21.7	20.7	20.4	20.4	19.9	20.5	22.7	24.9	26.0	27.0	28.2	28.7	29.9	30.1	30.2	29.9	29.4	28.7	27.9	27.3	25.5	24.5	26.1	25.5	30.2	19.9
17	25.4	24.7	23.6	24.1	21.2	21.3	21.3	23.0	26.2	27.4	27.8	29.2	30.4	31.1	31.2	30.9	30.8	30.2	29.1	27.9	26.4	26.0	24.1	24.5	26.6	31.2	21.2
18	23.9	23.8	23.4	22.5	22.4	22.0	21.9	24.2	27.0	29.5	30.1	30.4	31.4	32.0	32.3	32.3	32.0	31.2	30.2	29.0	28.4	28.1	28.1	27.6	27.7	32.3	21.9
19	27.4	27.9	26.0	27.1	24.9	23.3	23.1	25.4	26.3	26.9	27.5	28.2	29.6	30.3	30.6	31.1	30.4	30.6	29.8	28.9	28.4	27.0	27.0	25.3	27.6	31.1	23.1
20	25.4	24.3	24.1	23.7	23.6	23.4	23.1	23.9	24.9	25.8	26.3	27.7	28.2	29.4	30.1	29.5	29.1	28.7	27.5	22.5	23.9	24.2	23.1	22.5	25.6	30.1	22.5
21	21.9	22.0	22.3	22.1	21.0	20.0	20.6	23.3	25.3	26.7	26.6	27.0	28.9	29.9	30.8	31.0	30.9	29.9	28.9	28.2	27.9	27.6	26.8	25.7	26.1	31.0	20.0
22	25.2	24.0	23.7	23.9	23.0	22.9	23.2	25.2	28.0	29.3	30.0	31.0	32.1	33.0	33.4	33.7	33.7	32.9	31.7	30.7	30.3	30.4	26.1	23.9	28.4	33.7	22.9
23	23.9	24.2	23.6	23.9	23.9	23.5	22.8	23.2	25.3	27.0	28.1	29.8	30.7	31.1	31.9	30.9	30.4	28.3	25.4	25.2	24.3	23.4	21.8	21.0	26.0	31.9	21.0
24	23.2	22.2	20.7	19.7	19.8	19.3	19.7	21.1	22.7	24.8	27.2	28.8	30.1	30.8	31.5	32.1	31.6	31.1	30.0	28.9	28.1	26.8	25.8	24.8	25.9	32.1	19.3
25	24.6	24.4	23.3	23.0	22.8	23.0	22.9	24.5	26.6	28.5	30.4	31.9	32.6	33.2	32.6	32.5	33.3	32.8	31.5	30.6	29.6	29.1	28.2	27.4	28.3	33.3	22.8
26	26.2	26.1	25.1	24.6	24.4	23.7	24.6	26.6	28.6	30.6	31.8	33.1	33.9	33.8	34.1	30.5	27.2	27.7	28.4	27.3	26.5	25.4	24.7	24.4	27.9	34.1	23.7
27	24.3	25.3	24.9	24.8	24.7	23.8	23.7	24.3	25.3	27.1	30.8	32.3	33.6	34.2	35.0	35.7	33.9	27.8	29.6	28.2	27.5	27.0	25.9	25.9	28.1	35.7	23.7
28	25.5	25.1	25.1	25.2	24.5	24.2	24.6	26.3	27.5	30.8	33.5	34.7	34.3	34.6	35.1	35.7	33.8	32.6	29.5	28.1	28.0	27.3	26.6	25.8	29.1	35.7	24.2
29	25.6	24.9	24.2	23.7	23.5	23.5	23.7	24.8	26.7	28.8	30.9	31.9	32.9	33.5	33.8	34.8	34.8	33.4	31.6	29.5	28.4	28.3	28.1	26.7	28.7	34.8	23.5
30	25.8	25.6	24.8	24.8	24.6	24.3	23.9	25.2	27.0	29.1	30.3	31.3	32.8	33.8	33.6	33.8	33.6	32.8	31.5	29.3	28.3	27.8	27.0	27.2	28.7	33.8	23.9
31	26.7	26.3	25.6	24.1	23.7	22.9	22.8	24.8	27.4	29.1	29.9	30.9	32.2	32.9	33.4	33.6	33.1	32.4	31.1	29.6	28.2	27.3	26.6	26.4	28.4	33.6	22.8
Avg	24.5	24.2	23.8	23.5	23.0	22.7	22.6	24.0	25.7	27.0	28.2	29.4	30.4	31.1	31.5	31.4	31.1	30.3	29.3	28.1	27.2	26.3	25.4	24.9	26.9	--	--
Max	27.5	27.9	26.0	27.1	25.7	25.6	24.6	26.6	29.1	30.8	33.5	34.7	34.3	34.6	35.1	35.7	34.8	33.9	32.9	31.9	31.2	30.4	28.2	27.6	--	35.7	--
Min	20.8	20.9	20.4	19.7	19.3	19.1	19.0	19.4	20.6	20.9	21.7	22.7	25.2	27.1	26.8	25.8	23.8	22.7	22.8	22.5	21.8	21.5	21.6	21.0	--	--	19.0

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Sep 2017

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	25.4	23.9	23.7	23.4	23.7	23.4	23.2	25.5	28.0	30.1	31.5	32.3	33.7	34.0	34.5	34.4	34.0	33.3	32.2	30.6	28.8	27.7	27.7	27.0	28.8	34.5	23.2
2	26.0	26.9	25.6	25.0	23.5	22.3	22.2	24.7	27.9	28.8	30.7	30.9	31.3	30.4	30.6	30.8	30.6	30.2	29.5	28.5	27.6	26.9	26.3	25.7	27.6	31.3	22.2
3	25.6	25.1	23.5	22.8	22.4	21.9	21.5	21.6	25.8	29.9	31.6	32.9	33.9	34.2	33.9	32.7	32.1	30.9	29.7	28.3	27.8	27.5	26.8	26.5	27.9	34.2	21.5
4	24.9	24.0	23.6	23.1	23.2	23.4	23.4	24.8	26.8	26.9	26.4	27.8	29.4	30.7	31.4	31.9	31.2	31.4	30.7	29.9	29.7	29.0	28.0	26.4	27.4	31.9	23.1
5	25.0	24.9	25.0	23.8	23.8	23.4	23.2	25.7	27.8	30.2	31.6	32.8	33.8	34.0	34.5	34.4	33.7	33.1	31.4	29.4	28.3	27.6	27.3	26.4	28.8	34.5	23.2
6	25.3	25.9	26.1	25.0	24.3	23.9	24.1	25.3	27.2	29.2	30.7	32.0	32.7	33.7	34.1	33.9	33.4	32.7	31.3	29.9	29.1	28.4	26.8	26.4	28.8	34.1	23.9
7	26.4	26.0	25.8	25.6	25.1	23.7	23.7	24.6	26.8	28.5	30.0	31.6	32.3	33.4	33.8	33.6	32.4	30.9	29.7	26.7	26.8	26.5	26.0	25.2	28.1	33.8	23.7
8	24.6	24.5	23.7	23.0	22.6	22.2	22.5	23.6	23.9	25.1	26.7	27.6	28.4	29.1	28.3	28.7	28.8	22.3	21.6	21.7	21.5	21.3	20.7	21.0	24.3	29.1	20.7
9	19.5	18.1	17.9	17.8	17.7	18.0	18.2	18.9	21.1	22.3	23.5	24.6	26.0	26.9	26.5	27.7	27.8	26.7	25.8	25.1	24.4	22.7	22.9	22.7	22.6	27.8	17.7
10	22.5	22.3	21.6	21.6	21.7	21.4	22.0	23.6	24.5	26.6	28.4	30.0	30.9	31.9	32.3	32.0	31.5	30.9	29.8	27.9	26.9	26.8	26.0	25.6	26.6	32.3	21.4
11	25.6	24.3	23.2	23.0	23.6	23.6	23.8	25.4	27.2	29.0	30.8	31.8	32.7	33.4	33.7	33.3	33.0	32.8	30.9	30.2	29.3	27.5	26.4	26.7	28.4	33.7	23.0
12	26.2	25.5	25.0	25.4	24.8	24.6	24.6	26.6	28.9	31.1	32.6	33.2	34.2	34.6	34.5	34.5	33.9	33.1	31.9	31.1	30.6	30.5	30.2	29.8	29.9	34.6	24.6
13	28.7	27.8	26.1	25.8	24.6	23.9	23.6	24.7	27.9	28.5	29.6	31.2	32.4	32.6	33.0	32.9	32.3	31.5	30.5	29.8	29.2	27.9	26.4	25.1	28.6	33.0	23.6
14	26.3	25.6	24.8	24.6	24.4	23.8	23.6	24.6	25.9	27.0	28.5	28.8	29.0	29.9	30.2	29.9	29.0	28.1	27.6	26.7	25.4	24.3	23.5	22.7	26.4	30.2	22.7
15	22.0	21.5	21.2	20.8	20.4	20.4	20.4	21.4	22.2	23.6	24.5	24.8	25.7	26.6	27.0	27.2	27.0	26.4	25.5	24.9	24.4	24.3	23.7	22.7	23.7	27.2	20.4
16	22.5	21.8	20.8	20.3	19.7	19.3	19.2	20.5	21.8	22.7	24.2	25.6	26.6	27.7	28.2	28.7	28.2	27.0	25.9	25.3	24.1	23.0	22.4	22.0	23.6	28.7	19.2
17	21.6	22.1	22.2	21.4	19.9	19.1	19.2	21.6	24.1	25.4	26.3	27.3	27.5	27.8	28.3	28.6	28.2	27.5	26.2	25.5	24.9	23.8	22.3	21.7	24.3	28.6	19.1
18	21.1	19.9	19.7	19.4	18.3	18.0	18.4	20.3	23.1	25.3	26.7	27.2	28.2	28.8	28.6	28.7	28.4	27.6	26.5	26.1	24.1	23.3	23.2	24.2	24.0	28.8	18.0
19	24.0	23.4	22.2	21.5	20.7	20.6	21.0	21.8	22.7	23.6	24.4	25.3	26.5	27.4	28.3	28.6	28.6	27.8	26.9	26.1	25.2	24.1	22.8	22.3	24.4	28.6	20.6
20	21.1	20.9	20.6	20.4	20.2	18.8	18.4	20.2	22.3	23.7	25.2	26.5	27.9	28.5	28.6	28.9	28.6	27.9	26.8	26.0	25.3	24.4	23.5	22.7	24.1	28.9	18.4
21	21.8	21.0	20.2	20.0	19.8	19.5	18.8	20.8	22.4	23.9	25.3	26.4	27.4	28.0	28.3	28.2	28.0	27.1	25.8	24.9	24.0	23.0	22.1	21.4	23.7	28.3	18.8
22	20.5	19.9	19.5	19.1	18.8	18.3	17.9	18.3	19.2	21.1	21.7	22.8	23.3	24.2	24.5	24.8	24.2	23.1	22.0	21.2	20.2	19.2	18.6	18.1	20.8	24.8	17.9
23	17.9	17.6	17.1	16.7	16.0	14.9	15.1	15.9	17.3	18.4	19.7	20.2	20.9	21.1	21.9	21.4	21.1	20.0	18.9	18.4	17.9	17.4	16.8	16.0	18.3	21.9	14.9
24	14.3	14.0	13.1	13.2	12.9	12.6	11.8	14.2	17.8	18.7	19.3	20.6	21.4	21.7	21.9	21.7	21.6	20.6	19.3	18.7	18.2	17.6	17.4	16.8	17.5	21.9	11.8
25	15.4	15.0	14.4	13.8	13.1	13.1	12.9	15.9	19.0	20.6	21.4	21.8	22.6	23.3	23.5	23.7	23.4	22.4	21.1	20.5	19.0	17.4	18.2	17.6	18.7	23.7	12.9
26	17.5	15.9	15.8	15.5	14.8	15.0	14.5	16.8	19.3	21.3	22.7	22.7	24.7	24.3	24.7	24.4	23.5	22.8	21.8	21.2	19.8	19.2	19.2	18.6	19.8	24.7	14.5
27	19.3	18.9	17.8	17.3	17.3	17.9	17.1	18.1	21.0	22.7	23.7	24.3	24.7	24.7	24.7	24.8	24.0	23.3	22.3	21.5	20.5	18.9	18.1	18.4	20.9	24.8	17.1
28	17.4	16.5	16.0	15.7	15.6	15.5	15.8	18.2	20.2	22.5	24.2	25.4	25.9	26.1	27.3	27.3	26.5	25.4	24.4	23.6	22.7	21.6	20.9	21.1	21.5	27.3	15.5
29	20.8	20.3	19.8	19.6	19.4	19.1	19.0	20.8	22.7	24.3	25.6	27.2	27.8	28.5	28.5	28.8	28.2	26.9	25.9	24.9	23.3	23.1	21.8	21.5	23.6	28.8	19.0
30	21.8	21.2	20.1	19.5	18.8	19.0	19.1	20.9	23.0	24.8	26.0	27.6	28.2	28.5	28.7	28.5	28.0	26.9	25.8	25.2	24.4	22.8	21.2	20.9	23.8	28.7	18.8
Avg	22.4	21.8	21.2	20.8	20.4	20.0	19.9	21.5	23.6	25.2	26.5	27.4	28.3	28.9	29.1	29.2	28.7	27.7	26.6	25.7	24.8	23.9	23.2	22.8	24.6	--	--
Max	28.7	27.8	26.1	25.8	25.1	24.6	24.6	26.6	28.9	31.1	32.6	33.2	34.2	34.6	34.5	34.5	34.0	33.3	32.2	31.1	30.6	30.5	30.2	29.8	--	34.6	--
Min	14.3	14.0	13.1	13.2	12.9	12.6	11.8	14.2	17.3	18.4	19.3	20.2	20.9	21.1	21.9	21.4	21.1	20.0	18.9	18.4	17.9	17.4	16.8	16.0	--	--	11.8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Jul 2017

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	189	150	140	155	157	144	147	127	122	346	251	158	190	250	216	226	217	199	152	193	213	196	259	295	187	346	122
2	290	245	250	254	279	225	210	209	229	239	213	264	255	249	269	299	279	290	303	287	295	335	4	280	266	335	4
3	288	252	201	217	75	340	20	261	280	261	252	248	265	256	249	253	270	252	261	276	280	266	271	299	266	340	20
4	230	269	283	277	290	270	267	270	270	259	260	263	241	253	259	249	259	252	253	271	274	277	293	268	265	293	230
5	274	275	258	239	225	231	231	220	241	279	263	303	239	255	255	260	250	246	243	257	261	260	251	262	253	303	220
6	256	193	95	121	224	238	232	246	250	292	270	271	268	259	269	266	286	264	267	254	211	272	258	319	255	319	95
7	236	123	120	351	116	60	56	89	107	108	112	126	116	131	159	90	195	279	14	89	68	54	82	63	97	351	14
8	73	81	75	88	64	72	112	111	111	108	126	155	99	127	152	11	285	325	2	12	29	22	266	262	76	325	2
9	239	219	232	217	233	230	231	272	248	259	274	259	248	265	243	245	249	227	197	215	222	232	183	85	235	274	85
10	54	58	97	140	226	273	173	116	298	269	231	248	249	246	256	262	244	237	242	237	316	218	178	205	233	316	54
11	111	132	83	99	259	334	198	160	108	40	76	--	--	270	270	274	255	277	313	10	353	26	173	189	272	353	10
12	193	187	186	188	167	110	102	87	272	262	260	250	279	239	274	272	256	339	312	308	325	244	94	121	240	339	87
13	70	322	149	353	265	285	281	267	266	276	261	255	251	247	266	245	246	285	339	272	53	118	96	135	271	353	53
14	149	123	148	155	125	125	136	65	247	244	260	241	282	229	245	255	300	241	167	145	148	117	100	148	179	300	65
15	143	78	268	108	86	79	83	60	58	36	354	330	280	234	271	276	337	256	141	167	57	230	116	111	77	354	36
16	102	209	283	93	75	104	96	113	262	259	259	268	251	258	269	251	260	182	298	142	62	255	105	74	215	298	62
17	95	282	97	95	90	90	138	136	298	271	272	269	277	262	241	265	253	252	211	203	118	66	126	105	198	298	66
18	103	131	92	102	117	191	259	286	106	148	260	267	276	264	185	278	337	97	112	177	159	122	173	179	168	337	92
19	127	93	113	147	185	268	88	42	270	272	270	260	264	244	227	221	202	207	226	269	109	207	91	81	204	272	42
20	107	98	88	114	81	88	73	64	54	90	129	138	243	250	258	245	198	113	82	335	197	84	237	125	115	335	54
21	105	89	142	116	150	156	159	260	274	245	259	256	246	273	273	339	55	245	165	170	122	108	139	141	180	339	55
22	154	91	228	287	183	136	108	86	74	256	274	261	257	252	267	263	143	146	163	135	121	86	98	139	166	287	74
23	118	148	112	136	106	121	129	125	114	214	250	109	2	292	281	262	253	106	302	36	108	168	108	127	134	302	2
24	96	85	100	156	235	114	141	349	260	342	65	112	247	80	57	60	130	113	100	104	103	97	111	130	103	349	57
25	134	141	129	143	129	125	134	117	111	115	250	229	155	231	297	260	294	268	291	304	3	166	177	173	176	304	3
26	168	182	184	183	170	172	166	112	26	278	271	243	273	264	236	275	268	223	168	264	278	269	272	277	232	278	26
27	303	303	291	352	275	286	149	172	248	254	265	262	257	255	267	260	276	14	41	37	78	73	86	62	292	352	14
28	95	78	80	86	86	28	210	107	89	38	272	250	256	262	273	257	276	272	298	283	303	216	158	119	253	303	28
29	95	112	93	108	156	176	91	241	291	261	256	257	304	273	268	247	257	230	212	254	268	256	268	226	238	304	91
30	268	276	158	86	82	195	263	270	273	305	273	268	269	14	274	173	98	56	101	88	101	115	135	64	181	305	14
31	114	123	87	120	127	117	136	118	65	55	84	78	222	288	295	313	352	47	38	83	106	90	95	109	89	352	38
Avg	138	142	137	132	152	152	150	137	258	273	257	247	255	254	256	263	260	247	243	242	95	173	148	140	217	--	--
Max	303	322	291	353	290	340	281	349	298	346	354	330	304	292	297	339	352	339	339	335	353	335	293	319	--	354	--
Min	54	58	75	86	64	28	20	42	26	36	65	78	2	14	57	11	55	14	2	10	3	22	4	62	--	--	2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Aug 2017

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	92	98	95	97	69	89	111	106	73	66	52	75	217	232	327	187	71	121	80	92	86	77	77	45	88	327	45
2	50	54	54	58	62	73	102	104	89	58	51	48	63	128	130	123	134	118	239	263	259	82	205	174	93	263	48
3	178	151	221	152	111	112	97	106	68	92	122	115	128	135	178	146	156	135	192	252	184	252	9	187	145	252	9
4	106	168	249	311	317	146	130	84	212	264	272	264	258	252	259	255	252	213	270	61	156	171	176	198	223	317	61
5	241	254	76	232	232	237	141	87	184	261	262	241	269	248	229	217	248	289	313	211	165	175	196	181	225	313	76
6	274	84	192	212	243	234	220	102	216	241	240	264	252	266	181	264	250	263	205	297	32	190	172	177	228	297	32
7	165	163	208	177	170	151	147	119	212	241	261	252	241	233	277	244	281	220	208	95	177	178	178	182	200	281	95
8	163	188	191	192	200	187	165	152	83	69	47	88	202	248	222	312	292	292	296	307	250	189	202	163	202	312	47
9	190	178	176	164	183	155	136	127	77	56	26	242	297	295	261	291	206	274	240	267	279	310	157	9	222	310	9
10	201	119	161	140	284	156	91	233	309	115	349	280	40	52	39	58	56	29	41	83	120	109	98	93	85	349	29
11	90	62	49	56	89	56	70	58	51	48	117	147	144	120	139	97	86	210	238	261	283	343	182	187	97	343	48
12	186	148	125	62	63	98	85	103	134	103	124	87	84	83	221	254	248	281	144	339	146	137	117	146	122	339	62
13	243	146	146	165	125	88	77	180	82	52	253	252	249	258	251	234	244	263	248	244	253	243	275	143	217	275	52
14	192	190	262	235	212	191	237	215	215	263	265	269	268	239	204	248	237	280	146	236	23	177	169	166	224	280	23
15	179	209	226	227	224	229	216	195	194	227	233	215	208	226	220	210	222	200	212	178	64	39	72	228	209	233	39
16	147	173	154	144	128	150	131	123	117	175	223	192	235	173	197	207	226	235	212	216	221	182	170	220	182	235	117
17	230	234	221	247	168	170	173	135	113	119	264	229	208	219	228	270	278	255	224	232	163	210	151	179	208	278	113
18	180	191	169	161	154	197	181	156	90	36	296	274	258	244	233	235	227	215	246	198	298	278	289	322	224	322	36
19	348	335	30	305	195	41	182	270	252	239	274	261	256	254	257	258	255	232	199	200	253	54	216	97	255	348	30
20	137	112	122	112	114	43	185	233	83	118	125	227	229	241	256	256	213	261	310	44	94	65	114	144	148	310	43
21	111	122	118	121	109	116	133	107	80	236	239	269	255	227	214	257	225	242	242	255	277	267	275	139	202	277	80
22	12	194	152	136	171	150	155	118	78	109	265	300	304	245	275	293	252	262	274	263	263	279	354	162	235	354	12
23	144	175	164	203	190	100	153	148	75	337	272	274	279	253	264	264	221	159	122	115	119	98	91	57	166	337	57
24	105	62	54	60	59	50	56	49	48	50	50	44	42	8	21	44	255	225	337	286	256	13	94	77	42	337	8
25	96	114	142	100	132	124	142	101	57	54	56	43	29	23	237	165	269	276	262	258	341	174	178	178	119	341	23
26	97	89	109	136	109	105	68	52	60	46	56	60	121	302	143	222	9	39	257	69	45	57	94	106	79	302	9
27	99	84	95	82	83	94	81	68	50	49	34	42	33	349	326	191	137	32	50	50	62	103	106	75	68	349	32
28	73	82	75	69	79	74	73	55	51	43	42	32	36	42	13	21	34	48	62	65	91	63	73	67	57	91	13
29	53	49	50	63	71	55	61	50	51	46	48	25	51	13	25	28	353	87	46	45	49	66	91	60	49	353	13
30	49	65	90	46	49	49	64	58	50	75	111	89	39	96	139	126	115	114	95	93	115	100	106	101	85	139	39
31	137	146	117	81	66	62	78	74	80	113	110	117	137	149	111	125	99	138	158	127	98	90	96	80	108	158	62
Avg	137	134	136	132	130	117	124	111	88	75	340	263	248	242	230	231	234	232	229	231	155	127	139	138	149	--	--
Max	348	335	262	311	317	237	237	270	309	337	349	300	304	349	327	312	353	292	337	339	341	343	354	322	--	354	--
Min	12	49	30	46	49	41	56	49	48	36	26	25	29	8	13	21	9	29	41	44	23	13	9	9	--	--	8

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WD_10m"
Month: Sep 2017

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	81	100	91	62	80	80	73	71	75	43	77	85	72	74	131	123	114	109	77	97	73	78	75	84	131	43
2	88	218	143	2	258	252	173	115	77	136	108	127	144	123	113	118	106	122	141	236	265	271	271	301	150	301	2
3	290	268	269	268	278	280	215	113	81	51	135	123	138	148	191	268	260	278	269	263	271	274	267	273	250	290	51
4	253	267	301	273	151	178	184	147	56	286	271	268	264	269	263	260	244	359	258	315	284	276	253	127	259	359	56
5	172	137	108	103	124	135	99	77	53	89	114	128	171	198	158	257	248	260	35	79	77	81	84	87	115	260	35
6	92	103	94	67	71	71	61	57	56	71	112	123	124	120	155	191	178	127	159	151	101	113	115	92	107	191	56
7	105	95	109	93	72	77	153	112	112	122	123	133	125	124	137	189	248	282	221	255	323	286	292	80	128	323	72
8	149	102	99	137	150	91	171	246	251	258	257	249	254	257	260	266	247	38	133	224	283	44	92	99	201	283	38
9	109	96	63	57	63	106	117	133	113	60	53	42	72	84	251	243	275	266	271	267	326	155	124	130	94	326	42
10	110	79	79	58	62	68	53	66	50	49	50	61	123	122	135	112	110	111	99	62	88	107	87	93	84	135	49
11	84	76	82	83	75	65	52	48	50	50	78	97	120	138	113	53	42	18	56	248	254	54	161	114	77	254	18
12	108	121	94	92	91	97	87	72	49	44	102	225	296	317	253	239	247	278	222	271	279	306	302	296	309	317	44
13	267	265	258	228	177	123	151	121	84	279	273	274	237	250	240	236	235	252	246	57	288	287	213	127	236	288	57
14	239	234	234	243	229	226	208	190	189	197	189	217	218	196	193	208	185	111	189	200	191	214	211	213	207	243	111
15	210	209	216	220	225	224	209	195	193	198	202	216	200	208	193	188	217	185	187	245	101	218	218	88	203	245	88
16	223	229	260	203	198	195	131	101	192	190	174	163	181	204	192	183	252	246	217	177	219	177	178	147	194	260	101
17	118	72	233	247	157	147	143	95	92	187	207	187	190	239	248	220	209	170	158	165	117	106	159	161	168	248	72
18	166	138	172	182	133	167	169	142	104	116	163	207	212	206	219	205	231	187	160	253	142	81	73	259	171	259	73
19	276	229	226	199	210	200	210	221	226	228	214	215	230	202	215	220	202	206	217	214	213	212	227	230	218	276	199
20	225	206	194	197	191	153	108	90	178	204	190	210	197	202	228	198	204	201	195	213	213	213	241	236	199	241	90
21	227	227	235	259	201	198	148	161	200	197	212	217	207	205	187	199	189	205	200	207	215	167	191	217	203	259	148
22	215	221	225	226	228	224	243	250	246	215	236	215	240	208	226	216	185	266	228	191	234	233	244	237	227	266	185
23	242	248	254	266	186	110	228	262	232	238	237	239	231	221	201	228	230	197	249	286	298	334	330	296	245	334	110
24	149	174	154	140	153	162	156	133	98	274	271	253	220	243	262	270	237	252	258	267	270	267	280	309	226	309	98
25	358	101	149	130	135	134	131	106	57	60	353	268	261	248	244	241	228	235	256	272	276	256	293	316	239	358	57
26	306	158	184	153	123	135	103	82	96	115	123	263	181	273	279	247	254	232	275	247	171	200	214	175	191	306	82
27	232	349	190	135	138	211	265	105	83	131	145	182	185	190	282	256	272	239	255	268	261	210	138	77	201	349	77
28	113	133	127	114	124	114	93	58	50	49	92	147	134	140	60	257	246	249	275	276	342	268	128	115	117	342	49
29	67	58	62	52	52	64	72	75	98	110	117	141	166	218	238	255	257	241	223	272	188	267	168	150	138	272	52
30	115	151	129	113	100	75	66	55	58	103	129	162	210	205	219	218	212	197	192	271	295	25	155	196	151	295	25
Avg	166	158	165	152	144	139	140	110	98	131	154	188	190	198	211	222	224	222	212	241	247	229	194	155	182	--	--
Max	358	349	301	273	278	280	265	262	251	286	353	274	296	317	282	270	275	359	275	315	342	334	330	316	--	359	--
Min	67	58	62	2	52	64	52	48	49	44	43	42	72	72	60	53	42	18	35	57	77	25	73	75	--	--	2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	0.5	0.4	0.5	0.3	0.8	0.7	1.0	1.9	2.3	1.6	2.2	3.6	3.0	3.5	3.8	3.5	3.5	2.5	2.3	2.6	3.6	3.7	1.2	0.6	2.1	3.8	0.3
2	0.9	0.4	0.9	1.5	0.9	2.4	1.4	2.9	2.1	2.3	3.3	3.0	3.1	3.0	3.3	2.9	3.2	2.7	2.5	1.9	2.6	1.7	1.2	1.2	2.1	3.3	0.4
3	1.4	1.9	3.2	2.7	1.8	1.5	1.4	2.0	1.7	2.8	2.8	2.6	3.1	3.0	2.9	3.2	3.4	2.7	3.2	3.1	3.2	2.9	2.0	1.5	2.5	3.4	1.4
4	1.7	1.9	1.9	2.0	1.5	2.4	2.3	1.7	1.9	2.5	3.2	3.1	3.4	3.2	3.6	3.5	2.7	3.2	2.8	3.2	3.4	3.0	2.6	2.6	2.6	3.6	1.5
5	2.6	1.7	1.9	2.4	2.5	2.3	2.1	2.4	2.4	2.7	2.9	2.7	2.8	3.3	3.3	3.8	3.3	3.2	2.8	2.0	1.6	1.7	1.4	1.1	2.5	3.8	1.1
6	1.0	0.3	0.6	0.6	1.8	2.3	2.4	1.9	1.8	2.2	2.8	2.3	2.8	2.7	3.0	3.0	2.7	2.5	2.7	2.8	1.6	1.6	2.1	1.2	2.0	3.0	0.3
7	1.1	1.6	2.0	1.3	1.1	2.7	3.4	4.3	5.4	5.4	5.3	3.2	3.2	2.8	2.9	3.2	1.7	2.4	3.2	5.5	4.3	4.5	3.8	3.6	3.2	5.5	1.1
8	2.2	2.0	2.5	3.1	3.3	3.3	2.1	5.2	5.1	3.9	4.2	3.1	3.0	3.0	2.5	3.2	3.2	3.2	3.0	1.6	5.0	4.3	3.2	1.5	3.2	5.2	1.5
9	1.3	1.2	1.4	1.3	1.1	1.2	1.1	0.8	1.7	2.8	3.3	2.9	3.2	2.9	3.5	2.9	2.3	2.3	2.1	2.8	4.0	1.7	1.0	1.0	2.1	4.0	0.8
10	1.8	2.0	1.7	1.5	1.1	2.6	1.7	1.3	1.3	2.1	2.7	3.0	3.2	3.8	3.3	3.4	3.3	3.5	2.5	2.1	1.9	5.1	2.9	3.3	2.5	5.1	1.1
11	2.6	0.9	1.6	3.2	1.6	1.3	2.0	1.5	1.2	0.9	0.8	--	--	4.0	4.3	3.6	2.1	3.2	2.9	3.3	2.6	2.1	1.5	1.7	2.2	4.3	0.8
12	0.6	1.3	0.7	0.7	0.7	0.5	0.5	0.9	1.7	2.7	3.3	3.3	3.0	3.7	3.4	3.1	3.6	4.3	2.3	2.3	2.1	1.6	2.5	2.8	2.1	4.3	0.5
13	1.2	0.7	0.7	0.9	0.8	1.2	2.0	2.7	2.6	2.7	3.4	3.5	3.6	3.4	3.1	3.4	3.1	4.5	1.7	1.9	2.1	2.8	3.1	1.3	2.3	4.5	0.7
14	1.6	1.3	0.9	0.6	0.6	1.1	0.7	1.0	2.4	2.5	2.4	2.9	2.1	3.4	3.2	3.2	6.5	3.5	1.6	1.1	1.2	1.7	1.5	1.3	2.0	6.5	0.6
15	1.7	2.1	0.9	1.4	1.9	2.1	2.0	3.0	2.5	2.1	1.7	2.1	2.9	2.5	2.6	4.3	4.2	3.3	1.3	0.8	4.7	3.8	1.6	1.2	2.4	4.7	0.8
16	2.2	0.8	0.9	1.5	1.9	2.0	1.8	1.6	2.2	3.1	2.8	2.4	2.2	2.9	2.9	3.1	3.1	4.5	3.3	1.6	1.2	1.2	1.7	1.8	2.2	4.5	0.8
17	4.4	1.7	1.5	1.7	2.6	3.5	2.2	1.1	2.8	2.6	3.5	3.0	2.5	2.8	2.9	2.8	3.9	3.0	1.8	2.8	2.5	1.0	0.7	5.6	2.6	5.6	0.7
18	1.6	1.6	1.6	1.7	2.0	1.0	0.4	1.1	1.3	1.5	2.5	2.4	2.2	2.5	1.7	2.8	2.1	2.1	1.8	1.5	1.2	1.7	1.4	1.0	1.7	2.8	0.4
19	1.4	2.1	0.7	1.0	1.0	1.7	1.8	1.6	2.3	2.9	2.8	2.5	2.8	2.6	3.5	3.7	3.2	3.2	2.7	1.5	0.7	0.6	2.0	4.5	2.2	4.5	0.6
20	5.3	2.0	2.8	3.0	2.9	2.3	2.5	2.7	3.6	3.0	2.6	1.9	1.7	2.6	2.2	2.9	3.1	3.2	1.4	5.0	4.9	1.4	1.3	1.5	2.7	5.3	1.3
21	1.7	2.0	1.1	1.1	0.8	0.2	0.6	1.3	2.0	2.0	2.3	2.8	2.8	2.8	2.6	2.9	3.6	4.1	1.6	1.4	1.6	2.4	1.4	1.0	1.9	4.1	0.2
22	1.0	0.6	1.4	0.8	0.8	0.4	0.2	0.9	0.8	2.5	3.2	2.9	3.0	2.2	2.7	3.9	2.2	1.3	1.2	1.5	1.5	1.6	1.7	0.9	1.6	3.9	0.2
23	0.9	0.8	0.9	0.8	0.7	0.6	0.9	1.3	1.9	2.1	1.7	2.0	1.6	1.6	2.0	2.2	2.5	3.8	1.9	2.5	1.8	1.5	1.3	1.2	1.6	3.8	0.6
24	1.9	1.1	1.4	1.3	0.7	0.7	0.4	1.4	2.4	1.9	1.2	1.0	1.2	1.8	2.7	1.5	1.4	1.1	2.0	1.4	1.5	1.6	0.9	0.8	1.4	2.7	0.4
25	0.9	0.9	0.8	1.3	1.1	1.0	1.1	1.7	2.5	2.1	1.5	2.4	2.4	2.3	2.2	2.4	2.1	2.0	1.7	1.4	0.6	1.0	1.1	1.3	1.6	2.5	0.6
26	0.7	1.1	1.3	1.2	1.2	0.8	0.7	0.8	0.9	1.5	2.1	2.1	2.1	2.7	3.1	2.3	2.6	2.2	1.7	1.3	2.5	2.6	2.8	2.4	1.8	3.1	0.7
27	2.8	2.4	1.5	1.4	1.9	0.8	0.5	1.0	2.3	2.7	3.2	3.2	3.2	2.7	2.6	2.8	2.0	7.0	10.4	8.7	6.0	5.4	4.8	4.2	3.5	10.4	0.5
28	2.4	3.4	2.8	2.1	1.8	3.3	1.6	1.0	1.7	1.5	2.1	3.1	3.1	3.4	3.0	3.0	2.9	2.7	2.9	1.2	1.8	2.1	2.2	2.2	2.4	3.4	1.0
29	1.1	1.7	2.5	2.6	1.4	0.9	0.7	1.2	1.1	2.1	2.5	1.6	2.6	3.1	3.0	2.2	1.8	3.3	2.8	2.1	2.0	1.0	2.1	1.0	1.9	3.3	0.7
30	1.9	0.9	0.7	1.2	1.0	1.2	1.8	1.4	1.1	0.8	1.9	2.6	3.2	2.8	2.0	3.1	1.1	1.0	0.9	0.9	1.0	1.2	1.1	0.6	1.5	3.2	0.6
31	1.2	1.6	2.2	2.7	2.1	2.0	1.3	1.2	2.5	2.3	2.2	1.6	1.4	2.1	2.1	1.8	1.5	5.0	4.6	2.7	2.9	2.6	2.3	3.3	2.3	5.0	1.2
Avg	1.7	1.4	1.5	1.6	1.5	1.6	1.4	1.8	2.2	2.4	2.7	2.6	2.7	2.9	2.9	3.0	2.8	3.1	2.6	2.4	2.5	2.3	1.9	1.9	2.2	--	--
Max	5.3	3.4	3.2	3.2	3.3	3.5	3.4	5.2	5.4	5.4	5.3	3.6	3.6	4.0	4.3	4.3	6.5	7.0	10.4	8.7	6.0	5.4	4.8	5.6	--	10.4	--
Min	0.5	0.3	0.5	0.3	0.6	0.2	0.2	0.8	0.8	0.8	0.8	1.0	1.2	1.6	1.7	1.5	1.1	1.0	0.9	0.8	0.6	0.6	0.7	0.6	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Aug 2017

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	2.6	2.0	2.2	2.3	3.0	3.2	1.6	2.7	3.0	3.1	2.6	1.9	1.9	2.6	3.0	4.1	2.5	3.3	3.9	4.2	4.1	4.0	5.6	3.0	5.6	1.6
2	5.9	4.5	4.5	5.8	5.0	4.8	5.1	5.5	4.4	4.1	5.7	6.7	5.3	3.6	3.4	2.0	1.7	1.8	1.5	2.0	2.1	0.8	0.4	0.3	3.6	6.7	0.3
3	0.9	0.8	0.4	0.9	0.6	1.2	1.2	1.3	1.9	2.0	2.1	2.7	2.4	2.3	2.6	2.9	3.0	3.2	1.0	3.5	0.6	1.5	0.8	0.7	1.7	3.5	0.4
4	0.8	0.6	1.7	1.1	1.2	0.6	0.5	1.1	0.8	2.8	3.3	3.3	2.5	2.5	2.4	2.3	2.6	2.2	2.0	0.9	0.8	1.2	0.7	1.0	1.6	3.3	0.5
5	3.4	1.5	1.4	1.0	0.8	0.8	0.7	1.0	1.6	2.2	2.0	2.2	2.2	2.5	2.4	3.2	2.6	2.8	2.1	1.2	0.7	0.9	0.7	1.5	1.7	3.4	0.7
6	0.9	0.4	0.7	1.0	2.2	0.9	0.7	0.8	2.1	1.9	2.3	2.2	2.2	2.6	2.5	2.6	2.6	2.3	1.3	0.8	0.4	0.7	1.1	0.7	1.5	2.6	0.4
7	0.7	0.8	2.0	0.8	0.9	0.8	0.6	0.7	0.8	1.5	2.8	2.6	2.1	2.8	2.4	2.5	2.2	1.8	1.4	1.1	0.8	0.7	1.0	0.8	1.5	2.8	0.6
8	0.8	0.9	0.8	1.4	1.4	0.7	1.1	1.2	1.6	1.8	3.3	2.5	2.0	2.3	2.7	2.3	2.3	2.4	2.1	1.1	0.9	0.5	0.6	0.9	1.6	3.3	0.5
9	0.8	0.9	1.2	1.5	1.7	1.8	2.1	2.7	2.5	3.4	2.7	1.7	2.2	2.5	2.3	2.0	2.3	2.0	2.2	1.7	1.5	0.8	0.6	0.8	1.8	3.4	0.6
10	1.8	0.5	0.9	0.5	1.3	3.0	2.0	1.0	2.3	1.6	2.9	2.0	4.4	5.0	5.6	5.0	5.3	4.4	5.0	3.1	8.7	6.9	5.6	1.3	3.3	8.7	0.5
11	1.4	3.8	6.3	5.5	4.1	5.5	4.1	5.6	6.9	6.3	3.4	3.5	3.5	2.7	2.7	1.9	2.9	2.1	1.7	1.5	1.4	1.2	1.1	1.4	3.4	6.9	1.1
12	1.7	1.6	1.1	3.2	2.5	1.5	1.3	2.1	3.5	3.3	2.6	1.9	1.4	1.6	1.9	2.1	1.9	2.1	1.6	1.4	0.9	1.3	1.6	2.1	1.9	3.5	0.9
13	2.6	2.0	1.9	1.8	2.0	1.3	1.2	1.2	2.2	2.7	2.7	2.5	2.5	2.6	3.0	3.0	3.5	3.5	3.1	2.4	1.8	0.9	0.4	0.6	2.2	3.5	0.4
14	0.7	0.9	1.6	1.6	2.1	1.2	1.6	1.7	1.7	2.3	2.0	2.5	2.8	2.8	2.8	3.1	2.8	2.4	2.0	1.4	0.6	1.0	0.5	0.6	1.8	3.1	0.5
15	2.1	3.0	2.7	2.7	3.0	2.4	1.8	2.2	3.2	2.8	2.0	3.6	2.7	3.1	3.6	3.2	3.2	2.5	2.3	1.1	0.9	0.6	0.5	0.7	2.3	3.6	0.5
16	0.7	0.7	0.9	0.5	0.2	0.6	0.5	0.9	1.7	2.7	2.6	3.6	2.9	3.3	3.8	3.1	2.6	2.1	1.7	1.8	0.4	0.6	0.8	2.7	1.7	3.8	0.2
17	2.4	1.0	0.5	1.0	0.7	0.5	0.4	0.7	1.3	2.3	2.3	3.1	3.1	2.8	2.9	2.6	2.3	1.9	1.8	1.7	0.7	0.5	0.6	0.9	1.6	3.1	0.4
18	0.9	0.5	0.5	1.0	0.6	1.1	1.7	1.4	2.0	1.9	2.3	2.6	2.6	2.3	2.8	2.7	2.5	2.4	1.7	1.3	0.9	0.9	1.2	1.5	1.6	2.8	0.5
19	2.3	2.8	1.6	2.4	1.4	0.6	0.8	2.0	2.5	2.4	2.7	3.3	3.3	3.0	3.3	2.7	2.9	2.5	1.8	1.9	1.8	1.2	0.9	0.5	2.1	3.3	0.5
20	0.5	1.6	1.5	1.4	1.1	1.0	0.6	1.5	1.7	3.2	1.9	2.3	2.3	2.3	2.5	2.2	2.5	2.8	3.4	6.4	2.3	2.5	2.0	1.6	2.1	6.4	0.5
21	1.8	2.1	2.7	2.6	1.8	1.6	1.2	1.6	2.2	1.5	2.0	2.3	2.6	2.8	3.2	2.4	2.7	2.2	2.1	1.9	1.9	1.4	0.4	0.5	2.0	3.2	0.4
22	0.4	1.1	1.1	1.0	1.4	1.4	1.7	1.2	2.3	1.5	2.2	2.1	2.1	2.8	2.5	2.3	2.2	2.4	2.5	2.3	2.2	2.1	3.3	1.5	1.9	3.3	0.4
23	1.2	0.6	0.8	0.6	0.4	0.2	0.5	0.7	0.7	1.7	2.7	2.4	2.4	2.4	2.8	2.1	3.3	5.6	4.9	5.2	3.9	7.5	6.8	6.3	2.7	7.5	0.2
24	3.4	3.9	5.2	5.1	4.5	3.9	3.7	6.1	6.9	6.1	5.1	5.0	3.8	2.7	1.5	1.8	2.4	2.5	1.5	2.6	1.5	3.3	1.9	1.6	3.6	6.9	1.5
25	1.2	1.3	1.3	1.6	2.0	2.1	2.7	3.7	4.3	4.2	3.5	3.4	2.8	2.7	2.5	2.0	2.1	2.1	1.9	1.8	1.4	0.9	0.4	0.7	2.2	4.3	0.4
26	1.4	1.8	1.4	1.2	1.3	2.1	2.3	3.8	3.4	3.8	3.5	2.7	2.3	2.3	2.5	4.1	5.1	2.0	2.3	1.9	5.6	3.6	2.6	1.6	2.7	5.6	1.2
27	1.7	2.2	2.8	2.6	2.9	2.9	2.4	2.9	4.5	3.8	2.6	3.3	2.8	2.3	2.2	2.6	3.8	9.7	6.1	7.9	5.4	1.4	2.1	2.5	3.5	9.7	1.4
28	2.2	2.3	2.9	2.9	3.4	2.6	2.8	4.6	5.6	4.3	3.5	2.8	2.2	2.8	3.0	3.2	4.1	6.4	5.7	5.6	3.3	2.4	2.7	2.7	3.5	6.4	2.2
29	4.2	5.6	5.0	2.9	2.8	3.6	3.3	5.4	5.2	5.0	3.5	2.7	2.9	2.3	2.2	2.1	2.0	1.9	2.4	5.1	4.6	2.9	2.0	4.4	3.5	5.6	1.9
30	5.2	3.3	3.5	6.0	5.8	5.3	3.7	4.7	5.5	4.4	3.6	2.4	3.1	3.5	2.9	2.9	5.1	4.7	3.5	1.4	1.6	2.2	2.5	3.3	3.8	6.0	1.4
31	2.4	3.3	2.4	2.6	3.0	2.6	2.2	3.1	4.2	4.8	6.1	5.1	4.1	3.5	2.9	3.1	2.9	2.1	1.5	1.6	0.7	1.2	1.8	2.0	2.9	6.1	0.7
Avg	1.9	1.9	2.1	2.1	2.1	2.0	1.9	2.4	3.0	3.1	3.0	3.0	2.8	2.7	2.8	2.7	3.0	2.9	2.5	2.5	2.1	1.9	1.7	1.7	2.4	--	--
Max	5.9	5.6	6.3	6.0	5.8	5.5	5.1	6.1	6.9	6.3	6.1	6.7	5.3	5.0	5.6	5.0	5.3	9.7	6.1	7.9	8.7	7.5	6.8	6.3	--	9.7	--
Min	0.4	0.4	0.4	0.5	0.2	0.2	0.4	0.7	0.7	1.5	1.9	1.7	1.4	1.6	1.5	1.8	1.7	1.8	1.0	0.8	0.4	0.5	0.4	0.3	--	--	0.2

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Sep 2017

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Jul 2017

Hour of Day

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

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Aug 2017

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	686	685	685	685	686	687	687	687	687	687	686	686	685	685	685	685	685	685	686	686	687	687	686	686	687	685
2	686	686	686	685	686	686	686	687	687	687	687	687	686	686	686	686	685	685	685	686	686	687	687	687	686	687	685
3	686	686	686	686	686	687	687	687	688	688	687	687	687	686	686	685	685	685	685	686	686	687	687	686	686	688	685
4	686	686	686	686	686	686	686	687	687	687	687	687	686	685	685	684	684	684	684	684	684	685	685	685	685	687	684
5	686	685	685	685	685	685	685	686	686	686	686	685	685	685	684	684	683	683	683	683	683	684	684	684	685	686	683
6	684	684	684	684	684	685	685	685	685	685	685	685	685	685	684	684	683	683	683	683	684	684	684	684	684	685	683
7	684	684	684	684	684	684	685	685	685	686	686	685	685	685	684	684	684	683	684	684	684	684	684	684	684	686	683
8	684	684	684	684	685	685	685	685	686	686	685	685	685	685	684	684	683	683	683	683	684	684	684	684	684	686	683
9	684	684	684	684	684	684	684	685	685	685	685	685	685	684	684	683	683	683	683	684	684	684	684	685	684	685	683
10	685	685	685	685	685	685	686	686	686	686	686	686	685	685	684	683	683	683	683	684	686	686	686	686	685	686	683
11	685	685	684	684	684	684	684	684	684	684	684	684	684	683	682	682	682	682	682	682	682	683	683	683	683	685	682
12	683	683	684	684	684	685	685	686	686	687	686	686	685	685	684	684	683	683	683	684	684	684	684	685	684	687	683
13	686	685	686	687	687	687	686	686	686	686	686	686	685	685	684	684	683	683	683	683	684	684	684	684	685	687	683
14	684	684	684	684	684	684	684	684	685	685	684	684	683	683	683	682	682	681	681	681	682	682	682	682	683	685	681
15	682	682	682	682	682	683	683	683	684	684	684	683	683	683	682	682	682	682	682	682	682	682	683	683	683	684	682
16	683	683	684	684	684	685	685	685	686	686	686	686	685	--	684	684	684	683	683	684	684	684	685	685	684	686	683
17	685	685	685	685	685	686	686	686	687	687	687	687	687	686	686	685	685	685	685	685	685	685	685	685	686	687	685
18	685	685	685	685	685	686	686	687	687	687	687	686	686	686	685	685	684	684	684	684	685	685	685	685	685	687	684
19	685	684	684	684	685	685	685	686	686	686	686	686	685	685	684	683	683	683	683	683	684	684	684	684	684	686	683
20	684	684	685	685	685	685	685	685	686	686	686	685	685	684	684	683	683	683	683	684	684	685	685	685	684	686	683
21	685	685	685	685	685	685	685	686	686	686	686	686	686	686	685	685	685	684	685	685	685	686	686	686	685	686	684
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24	686	686	685	684	684	685	685	685	685	684	684	684	683	682	682	681	681	681	681	681	682	682	682	682	683	686	681
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26	683	683	684	684	684	684	685	685	685	686	686	685	685	684	684	684	685	684	684	684	685	685	685	685	685	686	683
27	685	685	685	685	686	686	686	687	687	687	686	686	685	684	684	683	683	684	683	684	685	685	685	685	685	687	683
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31	684	684	684	684	684	685	685	685	685	685	685	685	684	684	683	682	682	682	682	683	683	683	684	684	684	685	682
Avg	685	685	685	685	685	685	685	686	686	686	686	685	685	684	684	683	683	683	683	684	684	684	684	685	685	--	--
Max	686	686	686	687	687	687	687	687	688	688	687	687	687	686	686	686	685	685	685	686	686	687	687	687	--	688	--
Min	682	682	682	682	682	682	683	683	683	683	683	683	682	682	682	681	681	681	681	681	682	682	682	682	--	--	681

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, BP_mmHg"
Month: Sep 2017

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	1.72	1.54	1.09	0.50	0.41	0.81	-0.07	-0.61	-1.00	-0.93	-1.59	-1.72	-1.29	-1.23	-1.33	-1.22	-1.04	-0.56	-0.24	-0.14	0.10	0.63	0.44	0.44	-0.22	1.72	-1.72
7	0.33	0.58	0.75	1.20	0.91	0.55	0.04	-0.63	-0.91	-1.28	-1.64	-2.05	-2.23	-2.10	-2.14	-1.49	-0.59	-0.39	-0.17	-0.01	0.05	0.08	0.08	0.17	-0.45	1.20	-2.23
8	0.14	0.15	0.10	0.12	0.11	0.06	-0.30	-0.94	-1.51	-1.92	-2.11	-2.26	-1.37	-1.60	-1.35	-1.19	0.01	-0.50	-0.14	0.09	0.18	0.18	0.00	0.12	-0.58	0.18	-2.26
9	0.12	0.13	0.35	0.12	0.00	0.06	-0.45	-0.67	-0.54	-0.98	-1.16	-1.30	-1.61	-1.29	-1.57	-1.28	-0.70	-0.54	-0.46	-0.22	-0.32	-0.27	-0.14	-0.04	-0.53	0.35	-1.61
10	-0.10	-0.17	0.00	-0.04	-0.01	-0.24	-0.50	--	--	--	--	--	--	--	--	--	--	--	--	-0.32	-0.21	-0.34	-0.33	-0.37	-0.22	0.00	-0.50
11	-0.31	-0.32	0.50	0.27	0.00	-0.05	-0.28	-0.38	-0.21	-0.33	-0.60	-0.54	-0.77	-0.74	-0.80	-0.69	-0.68	-0.51	-0.31	-0.19	0.03	0.06	0.21	0.08	-0.27	0.50	-0.80
12	0.50	0.96	0.80	0.63	0.64	0.35	-0.55	-1.09	-1.60	-1.44	-1.49	-1.52	-1.65	-1.61	-1.29	-1.38	-1.23	-0.71	-0.30	-0.04	-0.01	0.17	0.23	-0.05	-0.49	0.96	-1.65
13	0.02	-0.02	0.23	0.07	0.25	0.08	-0.38	-0.62	-0.79	-0.75	-1.49	-1.26	-1.87	-1.21	-1.44	-1.22	-1.14	-0.13	-0.43	0.15	0.36	0.16	0.02	0.00	-0.48	0.36	-1.87
14	-0.10	0.02	0.16	0.01	0.15	0.22	-0.28	-0.70	-0.94	-1.21	-1.62	-1.85	-1.55	-1.54	-1.41	-1.34	-0.84	0.48	0.33	0.12	0.28	0.46	0.41	0.42	-0.43	0.48	-1.85
15	0.55	0.35	0.36	0.41	0.42	0.66	0.25	-0.38	-0.67	-1.43	-0.92	-1.38	-1.97	-1.43	-1.44	-1.01	-0.42	0.07	0.55	0.16	0.12	0.03	-0.05	-0.12	-0.30	0.66	-1.97
16	0.03	-0.05	0.07	0.08	0.24	0.06	-0.08	-0.50	-0.72	-1.10	-1.44	-1.35	-1.40	-1.68	-1.47	-1.49	-1.27	-0.62	0.65	0.64	0.45	0.23	0.18	0.37	-0.42	0.65	-1.68
17	0.20	0.02	0.66	0.98	0.48	0.49	-0.14	-0.64	-0.89	-0.51	-0.78	-1.09	-1.27	-1.30	-1.04	-0.99	-1.06	-0.81	0.04	-0.05	-0.07	0.13	0.02	0.10	-0.31	0.98	-1.30
18	0.34	0.26	0.25	0.69	0.41	0.28	-0.31	-0.56	-0.63	-0.75	-1.13	-1.23	-0.83	-1.04	-0.45	-0.11	0.36	0.38	0.29	0.36	0.35	0.34	0.37	0.51	-0.08	0.69	-1.23
19	0.57	0.18	0.20	0.33	0.28	0.28	-0.27	-0.43	-1.11	-0.79	-0.92	-1.00	-1.37	-1.21	-1.30	-0.78	-0.62	-0.59	-0.40	-0.19	-0.01	0.09	0.17	-0.11	-0.38	0.57	-1.37
20	-0.09	0.02	0.08	0.08	-0.01	0.06	-0.05	-0.20	-0.37	-0.76	-1.08	-1.20	-1.65	-1.67	-1.70	-1.16	-0.99	-1.22	-0.55	0.12	0.67	0.60	0.19	0.57	-0.43	0.67	-1.70
21	0.40	0.26	0.13	0.31	0.22	0.23	-0.24	-0.41	-0.58	-0.86	-1.07	-1.11	-1.14	-1.09	-1.31	-0.91	-0.34	0.01	0.40	0.11	0.58	0.59	0.60	0.54	-0.20	0.60	-1.31
22	0.44	0.63	1.03	0.90	0.45	0.44	0.08	-0.95	-1.10	-1.07	-0.72	-0.97	-1.13	-1.05	-1.11	-0.82	0.52	0.63	-0.19	0.36	0.08	0.08	0.10	0.10	-0.14	1.03	-1.13
23	0.16	0.16	0.19	0.25	0.31	0.39	-0.09	-0.63	-0.66	-1.31	-1.76	-1.09	-1.14	-1.25	-1.46	-0.93	-0.91	-0.01	0.04	-0.06	0.02	-0.06	-0.07	0.05	-0.41	0.39	-1.76
24	0.06	0.10	0.17	-0.01	-0.20	0.14	-0.54	-0.38	-0.19	-0.18	-0.12	-0.78	-1.07	-0.61	-0.95	-0.48	-0.28	-0.47	-0.41	-0.08	0.15	0.09	0.22	0.30	-0.23	0.30	-1.07
25	0.32	0.35	0.26	0.17	0.24	0.34	0.13	-0.64	-0.97	-1.24	-1.71	-0.89	-0.98	-0.84	-1.03	-1.00	-0.85	-0.66	-0.36	0.07	0.79	0.62	0.38	0.64	-0.29	0.79	-1.71
26	1.11	0.90	1.08	1.24	0.52	0.95	0.56	-0.46	-0.74	-0.95	-0.84	-1.08	-1.10	-1.49	-1.14	-1.19	-0.96	-0.77	-0.50	-0.16	0.36	0.67	1.24	0.88	-0.08	1.24	-1.49
27	0.49	0.63	0.71	0.94	0.65	1.33	0.47	-0.60	-0.79	-0.73	-1.10	-0.91	-1.27	-1.17	-1.10	-1.06	-0.46	-0.48	-0.23	-0.05	-0.04	0.02	0.96	0.94	-0.12	1.33	-1.27
28	0.63	0.14	0.08	0.23	0.56	0.49	0.30	-0.43	-0.65	-1.04	-0.68	-0.69	-0.94	-1.02	-0.96	-0.94	-0.80	-0.67	-0.39	0.07	0.01	-0.04	0.01	0.01	-0.28	0.63	-1.04
29	0.10	0.15	0.15	0.43	0.39	0.37	-0.09	--	--	--	--	--	--	-0.77	-0.92	-0.90	-1.05	-1.08	-0.55	-0.39	-0.31	-0.23	-0.24	-0.22	-0.29	0.43	-1.08
30	-0.20	-0.19	-0.21	-0.29	-0.20	-0.37	-0.28	-0.29	-0.53	-0.63	-1.06	-1.13	-1.30	-1.54	-1.29	-0.37	-0.44	-0.80	-0.27	0.21	0.15	0.10	0.09	0.25	-0.44	0.25	-1.54
31	0.13	0.22	0.52	0.44	0.42	0.62	0.49	-0.61	-0.89	-1.14	-1.41	-0.91	-1.23	-1.33	-2.00	-1.61	-1.20	-0.86	-0.41	0.00	0.01	-0.04	-0.04	-0.06	-0.45	0.62	-2.00
Avg	0.29	0.27	0.37	0.39	0.29	0.33	-0.10	-0.57	-0.79	-0.97	-1.19	-1.22	-1.34	-1.27	-1.28	-1.02	-0.68	-0.43	-0.16	0.02	0.15	0.17	0.19	0.21	-0.33	--	--
Max	1.72	1.54	1.09	1.24	0.91	1.33	0.56	-0.20	-0.19	-0.18	-0.12	-0.54	-0.77	-0.61	-0.45	-0.11	0.52	0.63	0.65	0.64	0.79	0.67	1.24	0.94	--	1.72	--
Min	-0.31	-0.32	-0.21	-0.29	-0.20	-0.37	-0.55	-1.09	-1.60	-1.92	-2.11	-2.26	-2.23	-2.10	-2.14	-1.61	-1.27	-1.22	-0.55	-0.39	-0.32	-0.34	-0.33	-0.37	--	--	-2.26

[1]-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Aug 2017

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	-0.15	0.11	0.01	-0.04	-0.03	-0.07	0.02	0.44	-0.13	-0.09	-0.61	-1.10	-0.87	-1.40	-0.84	-0.72	-0.32	-0.26	-0.11	0.11	0.09	0.01	0.08	0.30	-0.23	0.44	-1.40
2	0.15	0.13	0.12	0.05	0.03	0.05	0.15	0.03	-0.10	-0.28	-0.32	-0.95	-0.96	-0.98	-0.81	-0.87	-0.65	-0.47	-0.32	-0.19	-0.15	0.06	-0.12	0.31	-0.25	0.31	-0.98
3	0.44	0.16	0.60	0.32	0.52	0.40	0.17	-0.08	-0.58	-1.08	-1.00	-1.14	-1.75	-1.97	-1.93	-1.10	-1.24	-0.46	-0.19	-0.50	-0.40	-0.07	-0.27	-0.14	-0.47	0.60	-1.97
4	0.24	0.15	0.51	0.31	0.26	0.11	0.00	-0.73	-1.03	-0.96	-1.18	-1.05	-1.21	-1.18	-1.42	-1.09	-1.18	-0.90	-0.62	-0.04	0.70	0.54	0.53	0.75	-0.35	0.75	-1.42
5	0.09	0.13	0.16	-0.23	0.19	0.87	0.19	-0.84	-1.47	-1.45	-1.36	-1.49	-1.53	-1.31	-1.46	-1.85	-1.16	-0.86	-0.54	-0.17	0.37	0.81	0.52	0.42	-0.50	0.87	-1.85
6	0.68	1.07	0.74	0.91	1.51	1.63	0.43	-0.56	-1.06	-1.50	-1.50	-1.64	-1.36	-1.53	-1.49	-1.36	-1.21	-0.95	-0.52	0.06	1.04	1.03	0.73	0.67	-0.17	1.63	-1.64
7	0.57	0.60	0.69	0.54	0.71	0.54	0.40	-0.71	-0.99	-0.98	-1.04	-1.26	-1.42	-1.47	-1.48	-1.32	-1.10	-0.88	-0.48	0.06	0.96	0.86	0.52	0.54	-0.26	0.96	-1.48
8	0.58	0.56	0.66	0.64	0.72	1.55	0.74	-0.57	-0.81	-1.01	-0.97	-1.19	-1.22	-1.76	-1.45	-1.24	-0.95	-0.85	-0.48	-0.15	0.56	1.10	0.85	1.00	-0.15	1.55	-1.76
9	0.81	1.36	1.05	1.06	1.52	2.10	0.89	-0.37	-0.84	-1.11	-1.66	-1.87	-1.73	-1.65	-1.52	-1.40	-1.02	-0.78	-0.46	0.03	1.14	1.12	0.46	0.63	-0.09	2.10	-1.87
10	0.99	0.79	0.43	0.50	0.60	0.13	-0.02	-0.01	-0.12	-0.75	-0.89	-0.89	-1.19	-1.58	-1.44	-1.19	-0.86	-0.57	-0.17	0.10	0.12	-0.14	-0.15	0.05	-0.26	0.99	-1.58
11	0.05	-0.15	0.02	-0.09	0.03	-0.01	0.10	-0.35	-0.88	-1.33	-1.49	-1.91	-2.30	-2.36	-2.20	-1.93	-1.32	-0.90	-0.56	-0.24	0.07	0.68	0.50	0.40	-0.67	0.68	-2.36
12	0.48	0.32	0.23	0.07	0.02	0.11	-0.42	-0.81	-0.89	0.32	-0.11	-0.61	-1.34	-1.48	-1.57	-1.52	-1.02	-0.78	-0.53	-0.20	0.48	0.47	0.24	-0.14	-0.36	0.48	-1.57
13	-0.25	-0.22	-0.21	-0.32	-0.06	-0.11	-0.13	-0.35	-0.50	-1.31	-1.15	-1.41	-1.24	-1.32	-1.40	-1.44	-1.16	-0.82	-0.56	-0.28	0.18	0.16	0.48	0.34	-0.55	0.48	-1.44
14	0.30	0.25	0.21	0.34	-0.03	0.17	0.30	-1.13	-1.27	-1.13	-1.29	-1.71	-1.74	-1.77	-1.60	-1.59	-1.12	-0.86	-0.55	-0.15	1.00	0.86	0.77	0.68	-0.46	1.00	-1.77
15	0.65	0.55	0.41	0.65	1.02	1.12	0.56	-1.24	-1.39	-1.77	-1.34	-2.08	-2.09	-2.01	-1.76	-1.75	-1.19	-0.90	-0.48	-0.12	0.19	1.35	1.28	0.97	-0.39	1.35	-2.09
16	1.30	1.34	1.04	0.90	0.80	0.84	0.48	-0.86	-1.44	-1.84	-1.68	-2.17	-2.56	--	-2.27	-1.96	-1.39	-1.01	-0.52	0.01	1.38	1.40	1.34	1.40	-0.24	1.40	-2.56
17	1.26	1.33	1.23	2.14	1.16	1.67	1.18	-0.59	-0.97	-1.31	-1.98	-2.26	-2.19	-1.87	-1.59	-1.16	-1.18	-0.85	-0.46	1.04	2.02	1.23	1.02	0.89	-0.01	2.14	-2.26
18	1.05	1.79	1.44	1.53	1.28	0.95	1.77	-0.24	-0.87	-1.16	-1.48	-1.21	-1.33	-1.68	-1.61	-1.40	-1.23	-0.85	-0.43	0.10	0.96	1.03	0.64	1.58	0.02	1.79	-1.68
19	0.84	0.91	1.00	1.24	1.81	1.65	0.94	-0.72	-0.97	-0.91	-1.05	-1.17	-1.31	-1.29	-1.36	-1.19	-0.91	-0.75	-0.48	-0.03	0.67	0.64	1.24	1.04	-0.01	1.81	-1.36
20	0.29	0.43	0.18	0.03	0.01	-0.01	0.05	-0.42	-0.89	-1.66	-1.49	-1.73	-2.19	-1.70	-1.39	-1.20	-1.00	-0.75	-0.42	-0.29	-0.18	-0.06	0.12	0.04	-0.59	0.43	-2.19
21	0.12	-0.05	-0.02	-0.11	0.15	0.22	0.10	-0.82	-1.20	-1.51	-1.06	-1.14	-1.60	-1.45	-1.83	-1.60	-1.29	-0.85	-0.50	-0.19	0.21	0.97	0.53	1.00	-0.50	1.00	-1.83
22	1.05	0.69	0.61	0.77	0.81	0.73	0.22	-0.79	-0.74	-1.37	-1.40	-1.50	-1.70	-1.67	-1.68	-1.37	-1.27	-0.84	-0.42	-0.12	0.16	0.25	0.15	0.02	-0.39	1.05	-1.70
23	0.19	0.37	0.76	0.50	0.47	0.86	0.69	-0.46	-1.30	-1.43	-1.47	-1.32	-1.54	-1.38	-1.42	-0.85	-0.96	-0.61	-0.39	-0.24	-0.30	-0.22	-0.18	-0.09	-0.43	0.86	-1.54
24	-0.09	-0.07	0.33	-0.08	0.04	0.11	-0.06	-0.74	-1.25	-1.51	-1.39	-1.90	-2.00	-1.37	-1.44	-1.36	-1.33	-0.95	-0.51	-0.24	0.26	0.68	0.32	0.38	-0.59	0.68	-2.00
25	0.42	0.44	0.61	0.45	0.40	0.44	0.39	-0.65	-1.05	-1.32	-1.73	-1.39	-1.22	-1.51	-1.79	-1.33	-1.14	-0.80	-0.42	0.15	0.56	0.27	0.57	0.35	-0.39	0.61	-1.79
26	0.20	0.15	0.17	0.26	0.45	0.30	0.07	-0.56	-0.86	-1.58	-1.72	-1.93	-1.57	-1.90	-1.18	0.61	0.93	0.69	0.65	0.77	0.29	0.33	0.23	0.51	-0.20	0.93	-1.93
27	0.44	0.60	0.62	0.65	1.11	0.50	0.61	-0.18	-0.24	-0.41	-1.14	-0.97	-1.24	-1.39	-1.38	-1.28	-0.81	-0.18	-0.07	0.07	0.27	0.37	0.28	0.25	-0.15	1.11	-1.39
28	0.22	0.28	0.23	0.22	0.14	0.24	0.43	-0.35	-0.60	-0.96	-1.30	-1.33	-1.80	-1.69	-1.26	-1.20	-0.61	-0.53	-0.20	-0.09	-0.02	0.04	0.01	0.28	-0.41	0.43	-1.80
29	0.05	0.10	0.10	0.11	0.15	0.12	0.06	-0.21	-0.64	-1.00	-1.41	-1.56	-1.78	-1.48	-1.59	-1.23	-1.01	-0.82	-0.11	0.19	0.07	0.11	0.09	-0.02	-0.49	0.19	-1.78
30	0.04	0.08	0.16	0.21	0.15	0.20	0.21	-0.28	-0.74	-1.33	-1.81	-2.08	-1.90	-1.92	-1.65	-1.10	-0.87	-0.37	0.17	0.51	0.60	0.59	0.46	0.37	-0.43	0.60	-2.08
31	0.40	0.41	0.39	0.53	0.53	0.44	0.41	-0.46	-0.92	-1.19	-1.58	-1.66	-1.95	-1.90	-2.01	-1.44	-0.96	-0.50	0.07	0.84	0.69	0.55	0.45	0.35	-0.36	0.84	-2.01
Avg	0.43	0.47	0.47	0.45	0.53	0.58	0.35	-0.50	-0.86	-1.13	-1.28	-1.47	-1.61	-1.60	-1.54	-1.27	-0.99	-0.68	-0.34	0.03	0.45	0.55	0.44	0.49	-0.33	--	--
Max	1.30	1.79	1.44	2.14	1.81	2.10	1.77	0.44	-0.10	0.32	-0.11	-0.61	-0.87	-0.98	-0.81	0.61	0.93	0.69	0.65	1.04	2.02	1.40	1.34	1.58	--	2.14	--
Min	-0.25	-0.22	-0.21	-0.32	-0.06	-0.11	-0.42	-1.24	-1.47	-1.84	-1.98	-2.26	-2.56	-2.36	-2.27	-1.96	-1.39	-1.01	-0.62	-0.50	-0.40	-0.22	-0.27	-0.14	--	--	-2.56

[1]-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, DeltaTemp_C"
Month: Sep 2017

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	0.36	0.32	0.27	0.26	0.19	0.28	0.09	-0.25	-0.67	-1.46	-1.24	-1.05	-1.72	-1.71	-1.48	-1.30	-0.79	-0.42	0.12	0.82	0.61	0.57	0.36	0.36	-0.31	0.82	-1.72
2	0.35	0.62	0.06	0.24	0.21	0.11	0.01	-0.70	-0.96	-1.22	-1.41	-1.27	-1.64	-1.07	-1.29	-1.03	-0.57	-0.45	0.07	-0.01	0.33	0.07	0.05	0.46	-0.38	0.62	-1.64
3	0.33	0.07	-0.12	0.10	0.13	0.44	0.41	-0.40	-0.82	-1.12	-1.41	-1.97	-2.27	-2.12	-1.50	-1.11	-1.02	-0.66	-0.35	-0.21	-0.08	0.16	0.06	0.26	-0.55	0.44	-2.27
4	0.17	0.02	0.08	0.32	0.15	0.11	0.11	-0.62	-1.01	-0.98	-1.14	-0.99	-1.25	-1.31	-1.34	-1.09	-0.82	-0.52	-0.26	-0.08	0.10	0.19	0.85	0.93	-0.35	0.93	-1.34
5	0.78	0.42	0.52	0.80	0.31	0.54	0.58	-0.53	-0.91	-0.63	-1.75	-2.06	-1.85	-1.74	-1.16	-1.02	-1.11	-0.61	-0.18	0.26	0.20	0.27	0.16	0.30	-0.35	0.80	-2.06
6	0.30	0.33	0.28	0.24	0.23	0.16	0.10	-0.15	-0.64	-1.28	-1.82	-2.03	-2.00	-1.80	-1.62	-1.49	-0.97	-0.44	0.09	0.89	0.48	0.72	0.46	0.32	-0.40	0.89	-2.03
7	0.29	0.33	0.26	0.26	0.48	0.38	0.30	-0.59	-1.31	-1.48	-1.34	-1.89	-2.11	-1.96	-1.61	-1.07	-0.78	-0.20	-0.05	-0.18	-0.03	0.04	0.04	0.20	-0.50	0.48	-2.11
8	0.50	0.43	0.31	0.32	0.34	0.77	0.22	-0.43	-0.58	-1.58	-1.86	-1.43	-1.42	-1.23	-1.27	-1.06	-0.96	-0.63	-0.39	-0.34	-0.26	-0.34	-0.13	-0.12	-0.46	0.77	-1.86
9	-0.06	0.18	0.14	0.05	-0.06	-0.13	-0.09	-0.42	-0.57	-1.10	-1.49	-1.71	-1.41	-1.48	-1.25	-1.21	-0.92	-0.55	-0.35	-0.25	0.20	0.25	0.27	0.36	-0.48	0.36	-1.71
10	0.39	0.08	0.21	0.33	0.21	0.25	0.24	-0.36	-0.37	-1.11	-1.58	-1.58	-1.63	-1.78	-1.69	-1.09	-0.92	-0.41	0.17	0.51	0.46	0.43	0.54	0.59	-0.34	0.59	-1.78
11	0.44	0.33	0.24	0.24	0.30	0.36	0.17	-0.18	-0.81	-1.30	-1.65	-1.94	-2.09	-2.19	-1.03	-1.13	-1.03	-0.64	-0.17	0.07	0.98	0.91	0.69	0.67	-0.37	0.98	-2.19
12	1.01	0.49	0.37	0.89	0.51	0.40	0.24	-0.23	-0.47	-1.01	-1.08	-1.64	-1.53	-1.31	-1.77	-1.13	-0.94	-0.58	-0.21	0.12	0.90	0.71	0.55	0.87	-0.20	1.01	-1.77
13	1.66	2.16	1.09	1.09	1.06	1.05	0.33	-0.56	-1.05	-1.41	-1.24	-1.34	-1.30	-1.43	-1.53	-1.10	-0.82	-0.56	-0.21	-0.06	0.04	0.18	0.80	0.94	-0.09	2.16	-1.53
14	1.30	0.68	0.71	0.62	0.46	0.60	0.47	-1.03	-1.43	-1.68	-2.06	-2.24	-2.19	-1.56	-1.44	-1.18	-0.67	-0.44	-0.21	-0.11	-0.08	-0.04	-0.01	0.05	-0.48	1.30	-2.24
15	0.06	0.08	0.20	0.15	0.90	0.75	0.67	-0.86	-1.49	-1.89	-2.03	-1.99	-1.63	-1.76	-1.53	-1.38	-1.13	-0.62	-0.25	-0.02	0.46	-0.11	0.10	0.14	-0.55	0.90	-2.03
16	-0.08	-0.12	0.29	1.18	0.76	1.35	0.75	-1.01	-1.48	-2.13	-2.27	-2.39	-2.15	-1.56	-1.93	-1.68	-1.30	-0.68	-0.25	0.10	0.76	0.67	0.54	0.60	-0.50	1.35	-2.39
17	0.50	0.16	-0.02	0.58	0.81	0.32	0.44	-0.74	-0.82	-1.71	-2.08	-1.99	-1.75	-1.55	-1.85	-1.69	-1.36	-0.60	-0.20	0.35	1.30	1.23	1.41	1.17	-0.34	1.41	-2.08
18	1.00	1.24	0.88	0.71	1.12	0.79	1.33	-0.49	-1.24	-1.30	-1.96	-2.14	-2.04	-1.88	-1.59	-1.14	-0.96	-0.55	0.02	1.40	1.96	1.85	2.19	2.11	0.05	2.19	-2.14
19	1.95	0.80	1.22	0.69	1.33	1.26	1.67	-0.51	-1.00	-1.50	-1.25	-1.79	-2.04	-1.98	-1.81	-1.55	-1.11	-0.50	-0.03	0.20	0.45	1.03	1.07	1.81	-0.07	1.95	-2.04
20	1.43	1.08	1.21	1.15	0.98	1.09	1.08	-0.73	-1.54	-1.87	-2.06	-1.99	-2.01	-2.04	-2.06	-1.62	-1.12	-0.49	-0.09	0.34	0.98	0.89	1.52	1.42	-0.19	1.52	-2.06
21	1.31	0.93	1.36	1.96	1.43	1.37	0.94	-0.37	-1.41	-1.76	-1.97	-2.09	-2.49	-2.05	-1.87	-1.59	-1.05	-0.55	-0.15	0.00	0.07	0.10	0.37	0.35	-0.30	1.96	-2.49
22	0.41	0.70	0.55	-0.10	-0.16	0.07	0.19	-0.61	-0.83	-1.45	-1.39	-1.92	-1.99	-1.99	-1.82	-1.65	-0.97	-0.59	-0.31	-0.14	-0.20	-0.04	0.16	0.13	-0.58	0.70	-1.99
23	0.07	0.12	-0.03	0.09	0.55	0.77	0.34	-0.45	-1.27	-1.39	-1.29	-2.58	-1.76	-1.63	-1.35	-1.37	-0.92	-0.60	-0.22	0.24	0.23	0.13	0.32	0.50	-0.48	0.77	-2.58
24	1.05	0.94	0.60	0.72	0.62	0.64	0.71	-0.76	-1.15	-0.85	-1.13	-1.45	-1.48	-1.43	-1.34	-1.27	-1.11	-0.56	-0.22	0.16	0.94	1.77	1.41	1.60	-0.07	1.77	-1.48
25	1.62	1.18	1.45	2.03	1.41	1.79	1.18	0.10	-0.86	-0.89	-1.15	-1.28	-1.28	-1.37	-1.63	-1.14	-1.07	-0.45	0.00	0.68	1.50	1.90	1.97	1.23	0.29	2.03	-1.63
26	2.32	1.39	1.90	1.56	0.75	0.97	0.61	-0.31	-1.03	-1.40	-1.50	-1.32	-1.71	-1.49	-1.21	-1.24	-0.70	-0.44	-0.07	0.25	0.41	0.83	0.58	0.66	-0.01	2.32	-1.71
27	0.82	1.42	0.78	0.49	0.27	0.35	0.77	-0.64	-0.94	-0.91	-1.28	-2.32	-2.26	-1.65	-1.19	-1.14	-0.86	-0.48	-0.08	0.50	1.55	1.57	1.07	0.58	-0.15	1.57	-2.32
28	0.74	0.85	0.82	1.07	0.87	0.79	0.41	-0.18	-0.46	-0.93	-1.86	-2.25	-2.38	-1.78	-1.39	-1.08	-0.88	-0.52	-0.15	0.16	0.67	0.90	0.88	0.75	-0.21	1.07	-2.38
29	1.16	0.57	0.16	0.08	0.05	0.04	0.04	-0.35	-0.82	-1.49	-1.77	-2.22	-1.90	-2.03	-1.66	-1.06	-0.86	-0.50	-0.11	0.50	0.84	0.78	1.15	0.95	-0.35	1.16	-2.22
30	0.94	0.82	0.68	0.36	0.19	0.21	0.04	-0.34	-0.95	-1.37	-2.13	-2.15	-1.81	-1.81	-1.28	-1.48	-1.09	-0.43	0.08	0.82	1.74	1.19	1.67	1.52	-0.19	1.74	-2.15
Avg	0.77	0.62	0.55	0.62	0.55	0.60	0.48	-0.49	-0.96	-1.34	-1.61	-1.83	-1.84	-1.69	-1.52	-1.27	-0.96	-0.52	-0.13	0.23	0.58	0.63	0.70	0.72	-0.30	--	--
Max	2.32	2.16	1.90	2.03	1.43	1.79	1.67	0.10	-0.37	-0.63	-1.08	-0.99	-1.25	-1.07	-1.03	-1.02	-0.57	-0.20	0.17	1.40	1.96	1.90	2.19	2.11	--	2.32	--
Min	-0.08	-0.12	-0.12	-0.10	-0.16	-0.13	-0.09	-1.03	-1.54	-2.13	-2.27	-2.58	-2.49	-2.19	-2.06	-1.69	-1.36	-0.68	-0.39	-0.34	-0.26	-0.34	-0.13	-0.12	--	--	-2.58

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Precip_Inches"
Month: Jul 2017

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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0.047	0	0	0	0	0	0	0	0.047	0.047	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
11	0	0	0.055	0	0	0	0	0.004	0.004	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.067	0.055	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	0.036	0	0	0	0	0	0	0.036	0.036	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0.09	0.008	0	0	0	0	0	0.102	0.09	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.051	0.012	0	0	0	0	0	0	0.063	0.051	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.055	0.312	0	0	0	0	0.032	0.399	0.312	0
17	0.212	0.06	0.02	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.028	0	0	0	0	0.252	0.58	0.252	0
18	0.012	0.028	0	0	0	0	0	0	0	0	0	0	0	0	0.102	0.083	0.008	0	0	0	0	0	0	0	0.233	0.102	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	0.945	0.166	0.004	0.012	0	1.13	0.945	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.276	0.375	0.016	0	0	0	0	0	0.667	0.375	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.213	0.32	0.004	0	0	0	0	0	0	0.537	0.32	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.722	0	0.008	0.004	0	0.008	0.004	0.746	0.722	0
24	0	0	0	0	0	0	0	0.193	0.154	0.485	0.028	0	0	0.004	0	0.012	0.004	0	0	0	0	0	0	0	0.88	0.485	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	0.194	0.055	0.249	0.194	0
28	0	0	0	0.004	0.004	0.075	0.071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.154	0.075	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	0.071	0.004	0	0	0	0	0	0	0	0.075	0.071	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	0.224	0.088	0.075	0.012	0.004	0.075	0.071	0.197	0.158	0.489	0.028	0	0	0.004	0.102	0.379	0.714	1.29	0.364	0.953	0.17	0.004	0.214	0.343	5.96	--	--
Max	0.212	0.06	0.055	0.008	0.004	0.075	0.071	0.193	0.154	0.485	0.028	0	0	0.004	0.102	0.213	0.32	0.722	0.312	0.945	0.166	0.004	0.194	0.252	--	0.945	--
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: Aug 2017

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	0.004	0	0	0	0	0.177	0.134	0	0.02	0	0	0	0	0	0	0	0.004	0	0	0	0	0	0	0.339	0.177	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	0.004	0	0	0	0.004	0.004	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	0.032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.032	0.032	0
13	0.008	0.063	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.083	0.063	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
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	0.371	0.028	0	0	0	0	0	0	0	0.399	0.371	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	0.008	0.067	0.012	0	0	0	0.177	0.134	0	0.052	0	0	0	0	0	0.371	0.028	0.004	0	0	0.004	0	0	0	0.857	--	--
Max	0.008	0.063	0.012	0	0	0	0.177	0.134	0	0.032	0	0	0	0	0	0.371	0.028	0.004	0	0	0.004	0	0	0	--	0.371	--
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: Sep 2017

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	0.02	0	0	0	0	0	0	0	0.02	0.02	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0	0	0	0	0	0	0.004	0.004	0
9	0	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.008	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	0.016	0	0.016	0.016	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.004	0	0	0	0	0.016	0	0.048	--	--
Max	0	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.004	0	0	0	0	0.016	0	--	0.02	--
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Jul 2017

Hour of Day

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

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Aug 2017

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

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, RH_Percent"
Month: Sep 2017

Hour of Day

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

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	0	0	0	0	0	7.66	120	330	547	743	887	972	1,001	962	863	713	543	96.6	52.2	17.8	0	0	0	0	327	1,001	0
7	0	0	0	0	0	6.28	128	343	562	743	881	968	992	962	864	405	160	90.2	42.5	5.54	0	0	0	0	298	992	0
8	0	0	0	0	0	8.48	118	339	553	739	868	957	593	664	606	408	105	321	79.9	7.09	0	0	0	0	265	957	0
9	0	0	0	0	0	7.21	55.2	155	213	618	809	1,022	980	954	870	645	107	46.5	48.7	9.06	0	0	0	0	272	1,022	0
10	0	0	0	0	0	3.64	66.7	--	--	--	--	--	--	--	--	--	--	--	--	15.7	0	0	0	0	7.17	66.7	0
11	0	0	0.113	0.0875	0	12	71.6	85.2	89.5	114	175	203	203	475	575	327	332	168	79	12.4	0	0	0	0	122	575	0
12	0	0	0	0	0	5.06	138	352	151	73	86.9	178	1,030	971	856	736	552	191	86.4	5.1	0	0	0	0	225	1,030	0
13	0	0	0	0	0	6.02	86.3	176	531	649	862	830	993	954	865	728	557	313	158	9.77	0	0	0	0	322	993	0
14	0	0	0	0	0	8.5	135	329	558	735	869	958	1,007	964	874	737	351	5.23	1.52	0.335	0.00375	0	0	0	314	1,007	0
15	0	0	0	0	0	10.6	125	340	554	733	869	964	997	781	839	347	52.5	4.64	7.39	2.12	0.0448	0	0	0	276	997	0
16	0	0	0	0	0	5.46	170	397	561	743	864	787	724	897	882	791	603	155	34.3	12.1	0	0	0	0	318	897	0
17	0.228	0.0305	0.57	1.15	0.0208	4.51	111	437	426	536	908	901	933	978	786	711	649	336	62.3	5.23	0	0	0	0.291	324	978	0
18	0.651	0.0055	0.291	0.882	0	8.82	65.3	208	503	746	925	921	521	893	76.8	62.1	51.7	111	69.1	5.21	0	0	0	0	215	925	0
19	0	0	0	0	0	9.53	135	356	549	716	804	970	1,012	866	434	96.1	152	153	56	4.08	0	0	0	0	263	1,012	0
20	0	0	0	0	0	1.9	36.2	162	192	316	655	976	987	964	781	755	641	350	107	3.24	1.18	1.87	0.0198	0.0442	289	987	0
21	0.00025	0	0	0	0	3.94	98.6	254	325	794	872	930	963	912	760	537	153	11.7	17	3.39	1.34	0.474	0	0	277	963	0
22	0	0	0	0	0	4.1	80.9	302	472	624	671	923	1,010	926	809	438	17.5	57.2	84.9	4.53	0	0	0	0	268	1,010	0
23	0	0	0	0	0	4.95	106	210	538	618	838	265	1,001	980	885	766	337	15.5	10.4	0.821	0.00025	0	0	0	274	1,001	0
24	0	0	0	0.0015	0	3.8	52.3	74	25.7	37.2	185	768	761	337	443	71.7	84.4	125	83.2	10.7	0	0	0	0	128	768	0
25	0	0	0	0	0	3.86	68.2	321	501	698	891	502	557	744	912	735	500	299	127	7.36	0	0	0	0	286	912	0
26	0	0	0	0	0	3.42	96.9	325	544	727	867	953	1,009	990	865	696	525	301	160	8.75	0	0	0	0	336	1,009	0
27	0	0	0	0	0	1.99	90.8	325	540	726	867	886	893	858	742	378	158	103	18.1	0.725	0	0.0177	1.34	1.08	275	893	0
28	3.03	0	0	0	0.00275	0.19	69.6	170	507	657	584	859	980	949	862	720	543	349	88.4	6.55	0	0	0	0	306	980	0
29	0	0	0	0	0	3.34	49	239	572	753	878	674	689	350	671	374	523	159	72.8	0.433	0	0	0	0	250	878	0
30	0	0	0	0	0	1.16	21	66.3	130	323	640	873	983	843	849	179	410	302	48.9	5.49	0	0	0	0	236	983	0
31	0	0	0	0	0	1.11	82.3	249	478	659	658	914	978	931	882	722	548	296	118	4.21	0	0	0	0	313	978	0
Avg	0.15	0.00138	0.0375	0.0814	0.0009	5.29	91.4	262	425	593	736	806	872	844	754	523	346	174	68.5	6.45	0.099	0.0907	0.0525	0.0544	266	--	--
Max	3.03	0.0305	0.57	1.15	0.0208	12	170	437	572	794	925	1,022	1,030	990	912	791	649	350	160	17.8	1.34	1.87	1.34	1.08	--	1,030	--
Min	0	0	0	0	0	0.19	21	66.3	25.7	37.2	86.9	178	203	337	76.8	62.1	17.5	4.64	1.52	0.335	0	0	0	0	--	--	0

[1]-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Aug 2017

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	0.405	3.44	24.9	66.8	190	703	892	1,010	971	361	221	98.5	26.9	31.2	1.51	0	0	0	0	192	1,010	0
2	0	0	0	0	0	1.49	26.2	64.4	129	191	313	742	567	406	254	179	180	95.5	38.6	2.48	0	0	0	0	133	742	0
3	0	0	0	0	0	2	25.2	108	349	574	715	628	905	958	751	358	543	119	12	0	0	0	0	0	252	958	0
4	0	0	0	0	0	1.37	77.3	320	540	728	863	948	979	947	858	710	520	308	103	1.26	0	0	0	0	329	979	0
5	0	0	0	0	0	1.07	75.3	320	543	734	872	962	994	962	876	718	525	307	100	1.52	0	0	0	0	333	994	0
6	0	0	0	0	0	1.36	77	329	552	749	890	979	1,009	975	885	736	536	311	96.2	0.837	0	0	0	0	339	1,009	0
7	0	0	0	0	0	1.27	75.1	326	547	737	882	969	999	969	879	724	535	312	95.7	0.42	0	0	0	0	335	999	0
8	0	0	0	0	0	1.16	72.6	327	551	746	882	905	942	1,016	886	713	512	297	91.4	0.56	0	0	0	0	331	1,016	0
9	0	0	0	0	0	1.21	67.5	325	518	736	875	947	980	954	876	709	511	294	89.8	0.418	0	0	0	0	328	980	0
10	0	0	0	0	0	0.0843	17.9	34.5	65.6	275	723	497	877	885	754	697	494	148	35	0.352	0.007	0	0	0	229	885	0
11	0	0	0	0	0	0.677	55.8	315	533	722	856	942	971	959	830	726	517	288	83.9	0.668	0	0	0	0	325	971	0
12	0	0	0	0	0	1.61	99	270	199	56.5	231	370	695	954	774	694	494	282	76.7	0.53	0	0	0	0	216	954	0
13	0.0682	0.0145	0	0	0.0878	0.494	24.5	126	449	726	879	916	972	933	837	688	496	280	78.2	0.341	0	0	0	0	309	972	0
14	0	0	0	0	0	0.837	58.1	297	358	614	848	938	967	935	842	698	493	286	78.5	0.219	0	0	0	0	309	967	0
15	0	0	0	0	0	0.724	56.5	308	533	734	693	929	991	929	857	697	495	276	72.7	0.0975	0	0	0	0	315	991	0
16	0	0	0	0	0	0.495	57.7	313	542	737	879	964	994	--	853	693	493	273	72.6	0.032	0	0	0	0	299	994	0
17	0	0	0	0	0	0.213	54.3	316	541	739	888	977	1,005	966	869	715	511	288	71.2	0	0	0	0	0	331	1,005	0
18	0	0	0	0	0	0.331	50.2	317	543	740	882	969	996	952	853	696	483	272	66.1	0	0	0	0	0	326	996	0
19	0	0	0	0	0	0.0578	77.3	274	562	680	832	898	780	625	835	601	357	287	72.1	0.888	0	0	0	0	287	898	0
20	0	0	0	0	0	0	28.5	161	388	536	604	950	905	917	834	502	321	210	19.2	0	0	0	0	0	266	950	0
21	0	0	0	0	0	0.329	49.3	295	517	614	349	718	955	918	834	682	472	249	59.8	0.00075	0	0	0	0	280	955	0
22	0	0	0	0	0	0.456	48.8	292	511	686	839	925	960	926	829	685	478	251	58	0	0	0	0	0	312	960	0
23	0	0	0	0	0	0.0132	24	158	398	698	837	944	857	841	874	234	134	80.3	16.1	0	0	0	0	0	254	944	0
24	0	0	0	0	0	0.109	45.8	292	520	716	855	940	967	930	459	582	486	266	63.5	0	0	0	0	0	297	967	0
25	0	0	0	0	0	0.0198	44.8	291	515	710	850	928	985	988	893	614	484	238	43.8	0	0	0	0	0	316	988	0
26	0	0	0	0	0	0.0492	44.2	286	513	738	901	929	949	919	460	75.2	42.4	42.2	6.62	0	0	0	0	0	246	949	0
27	0	0	0	0	0	0.0165	26.9	242	202	360	857	952	950	901	824	687	261	13.4	7.83	0	0	0	0	0	262	952	0
28	0	0	0	0	0	0	42.6	288	494	692	829	912	945	726	766	673	121	261	44.9	0	0	0	0	0	283	945	0
29	0	0	0	0	0	0.0158	40.3	263	534	686	831	912	936	892	788	633	460	235	41.2	0	0	0	0	0	302	936	0
30	0	0	0	0	0	0.002	39.2	262	488	684	827	910	932	869	791	589	425	210	32.5	0	0	0	0	0	294	932	0
31	0	0	0	0	0	0	41.8	261	487	690	840	935	956	904	798	632	425	204	29.1	0	0	0	0	0	300	956	0
Avg	0.0022	0.00047	0	0	0.00283	0.577	49.3	252	442	620	778	881	933	901	777	599	416	226	57.7	0.391	0.00023	0	0	0	288	--	--
Max	0.0682	0.0145	0	0	0.0878	2	99	329	562	749	901	979	1,010	1,016	893	736	543	312	103	2.48	0.007	0	0	0	--	1,016	--
Min	0	0	0	0	0	0	3.44	24.9	65.6	56.5	231	370	567	406	254	75.2	42.4	13.4	6.62	0	0	0	0	0	--	--	0

[1]-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, SR_Wm2_2m"
Month: Sep 2017

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	36.6	260	485	687	823	906	935	889	778	612	402	194	26.6	0	0	0	0	0	293	935	0
2	0	0	0	0	0	0	39.9	268	421	644	811	529	638	320	371	314	206	97.1	19	0	0	0	0	0	195	811	0
3	0	0	0	0	0	0	23.1	149	440	693	839	948	1,034	893	785	612	414	154	14.7	0	0	0	0	0	292	1,034	0
4	0	0	0	0	0	0	33.6	239	398	634	637	809	910	868	669	625	200	42.4	23.4	0	0	0	0	0	254	910	0
5	0	0	0	0	0	0	30.8	237	455	654	800	886	903	855	740	614	412	179	19.2	0	0	0	0	0	283	903	0
6	0	0	0	0	0	0	28.8	217	441	647	784	862	879	834	711	544	354	147	15.7	0	0	0	0	0	269	879	0
7	0	0	0	0	0	0	31.7	220	430	627	777	861	871	830	721	563	396	133	4.03	0	0	0	0	0	269	871	0
8	0	0	0	0	0	0	30.1	222	429	624	696	607	731	768	732	567	333	64	10.6	0	0	0	0	0	242	768	0
9	0	0	0.0035	0	0	0	10.1	113	243	387	695	548	839	736	545	515	347	81.6	12.1	0	0	0	0	0	211	839	0
10	0	0	0	0	0	0	19.2	223	260	670	806	883	888	837	648	418	397	150	10.8	0	0	0	0	0	259	888	0
11	0	0	0	0	0	0	16.5	242	465	663	806	886	909	888	567	519	363	173	12.6	0	0	0	0	0	271	909	0
12	0	0	0	0	0	0	14.5	240	464	662	802	884	910	881	780	591	311	152	9.93	0	0	0	0	0	279	910	0
13	0	0	0	0	0	0	16	241	456	653	798	884	905	852	744	571	349	141	2.76	0	0	0	0.321	0	275	905	0
14	0	0	0	0	0	0	19.8	271	467	636	783	789	798	820	622	408	199	98.8	14.1	0	0	0	0	0	247	820	0
15	0	0	0	0	0	0	11.7	244	474	628	808	893	711	827	747	583	359	137	9.27	0	0	0	0	0	268	893	0
16	0	0	0	0	0	0	11.5	241	472	628	788	941	774	720	730	576	364	133	8.22	0	0	0	0	0	266	941	0
17	0	0	0	0	0	0	12.6	230	462	662	813	882	748	856	744	568	356	131	7.9	0	0	0	0	0	270	882	0
18	0	0	0	0	0	0	10.5	237	477	675	827	909	927	875	758	581	365	131	6.37	0	0	0	0	0	282	927	0
19	0	0	0	0	0	0	10.3	229	465	625	795	896	913	831	695	546	338	123	5.32	0	0	0	0	0	270	913	0
20	0	0	0	0	0	0	9.84	225	464	665	809	888	881	821	732	561	347	122	5.17	0	0	0	0	0	272	888	0
21	0	0	0	0	0	0	9	225	467	676	822	892	901	841	721	548	344	117	3.81	0	0	0	0	0	274	901	0
22	0	0	0	0	0	0	21	208	441	649	806	888	898	819	708	497	329	115	3.15	0	0	0	0	0	266	898	0
23	0	0	0	0	0	0	8.06	219	468	672	822	907	925	863	747	564	342	114	2.9	0	0	0	0	0	277	925	0
24	0	0	0	0	0	0	10.1	219	464	666	815	896	913	855	735	556	336	108	2.42	0	0	0	0	0	274	913	0
25	0	0	0	0	0	0	8.23	224	474	677	826	908	920	856	736	555	334	105	0.77	0	0	0	0	0	276	920	0
26	0	0	0	0	0	0	9.22	196	380	618	545	727	868	852	716	499	192	82.7	1.03	0	0	0	0	0	237	868	0
27	0	0	0	0	0	0	19.3	253	448	644	787	867	871	821	703	528	311	93.1	0.628	0	0	0	0	0	264	871	0
28	0	0	0	0	0	0	8.44	192	440	635	777	819	838	854	711	517	301	88.2	0.504	0	0	0	0	0	258	854	0
29	0	0	0	0	0	0	8.86	188	434	626	763	846	858	760	694	512	298	84.8	0.353	0	0	0	0	0	253	858	0
30	0	0	0	0	0	0	9.81	177	429	619	759	831	803	795	679	508	296	82.2	0.171	0	0	0	0	0	249	831	0
Avg	0	0	0.00012	0	0	0	17.6	222	437	642	781	842	863	817	699	539	330	119	8.45	0	0	0	0.0107	0	263	--	--
Max	0	0	0.0035	0	0	0	39.9	271	485	693	839	948	1,034	893	785	625	414	194	26.6	0	0	0	0.321	0	--	1,034	--
Min	0	0	0	0	0	0	8.06	113	243	387	545	529	638	320	371	314	192	42.4	0.171	0	0	0	0	0	--	--	0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	31.4	31.1	30.9	30.8	29.4	28.9	29.0	29.9	31.2	32.3	34.6	36.6	37.4	38.5	39.2	39.6	39.6	38.8	38.1	37.5	36.2	35.0	33.9	33.9	34.3	39.6	28.9
7	34.5	32.9	32.2	31.4	31.6	32.3	33.0	34.2	35.2	37.1	38.7	40.0	41.1	41.8	42.4	41.8	40.3	39.4	38.6	37.6	36.7	36.4	35.9	35.2	36.7	42.4	31.4
8	34.6	34.5	34.1	33.8	33.1	32.7	32.4	33.8	35.0	36.1	37.8	39.1	38.6	39.3	39.3	38.7	34.6	36.7	36.5	35.5	34.2	32.6	30.8	29.6	35.1	39.3	29.6
9	28.8	28.6	27.7	27.1	27.5	27.1	27.0	27.7	28.1	29.5	31.3	33.4	34.8	35.6	36.3	36.6	35.7	35.6	35.5	34.9	32.6	30.8	29.8	29.5	31.3	36.6	27.0
10	28.7	28.5	28.2	27.9	27.8	27.3	27.7	--	--	--	--	--	--	--	--	--	--	--	--	35.4	34.8	32.2	29.4	28.9	29.7	35.4	27.3
11	28.8	27.4	25.2	25.8	24.7	24.9	24.8	24.8	24.4	24.6	25.3	25.7	26.9	28.0	29.9	30.4	30.9	31.0	30.9	30.2	30.0	28.9	28.2	27.6	27.5	31.0	24.4
12	27.8	27.1	27.1	27.1	26.5	26.9	28.2	29.6	31.0	31.8	33.3	34.4	35.4	35.8	36.1	36.8	37.0	34.5	33.8	33.9	33.5	32.1	31.2	29.5	31.7	37.0	26.5
13	28.5	27.6	27.7	26.8	26.6	26.8	26.7	28.1	29.7	30.6	32.6	33.5	35.6	35.7	36.6	36.9	37.6	33.7	34.2	33.5	33.5	31.7	29.7	28.1	31.3	37.6	26.6
14	27.0	26.9	27.3	26.5	25.8	27.2	27.1	28.6	31.2	32.2	33.8	35.3	35.8	36.6	36.6	37.1	35.3	25.7	25.6	26.0	27.2	29.1	30.4	29.9	30.2	37.1	25.6
15	28.3	28.4	26.9	26.0	25.3	25.9	27.1	28.4	30.8	32.8	33.2	34.7	36.5	36.6	37.2	36.2	28.6	24.3	26.5	26.8	27.8	27.3	26.8	25.7	29.5	37.2	24.3
16	25.9	25.5	24.6	24.6	24.1	24.1	25.0	26.8	28.2	29.4	31.1	31.9	32.5	33.8	34.4	35.0	35.1	32.4	25.3	26.0	26.5	26.5	26.4	24.7	28.3	35.1	24.1
17	23.1	20.8	21.6	22.9	22.9	22.5	22.7	23.6	24.6	25.3	27.4	29.2	30.6	31.6	32.0	32.6	32.9	32.4	30.2	29.6	28.0	27.3	27.1	22.8	26.8	32.9	20.8
18	20.8	21.1	22.3	23.6	23.9	23.2	23.5	24.4	25.8	27.4	29.2	30.3	30.5	31.5	30.4	26.1	24.9	25.9	26.5	26.3	26.0	26.0	25.7	25.9	25.9	31.5	20.8
19	26.4	26.7	25.7	24.7	24.6	24.8	25.8	26.0	28.4	28.8	30.0	31.3	32.4	33.0	33.5	32.0	31.3	30.3	29.2	28.2	27.8	26.5	26.7	26.3	28.4	33.5	24.6
20	25.7	25.8	26.2	24.5	24.9	25.2	25.8	26.4	27.0	27.8	29.2	30.1	32.0	32.9	34.0	34.2	34.4	33.6	31.9	27.3	23.1	24.2	23.9	24.3	28.1	34.4	23.1
21	24.9	25.1	24.6	24.1	23.7	23.5	23.9	25.2	26.4	28.1	28.9	29.9	31.1	31.8	32.7	32.5	29.0	22.3	23.1	23.3	24.9	26.4	25.9	26.3	26.6	32.7	22.3
22	25.8	25.7	24.8	24.6	24.4	24.7	24.6	27.4	28.3	28.9	29.2	30.7	32.1	32.9	33.5	31.6	23.2	25.7	26.3	27.6	25.9	25.2	25.2	25.4	27.2	33.5	23.2
23	25.5	24.9	24.4	23.6	23.5	24.4	23.8	25.0	26.3	28.5	29.6	28.9	29.9	31.6	32.7	33.0	32.9	25.6	23.8	23.3	23.4	23.7	23.5	23.3	26.5	33.0	23.3
24	23.3	23.7	23.7	23.6	23.9	23.7	23.7	23.9	22.2	22.0	22.9	25.4	27.3	27.3	27.5	26.1	25.0	25.4	25.7	25.3	25.4	25.2	25.0	25.0	24.7	27.5	22.0
25	25.0	25.0	25.2	25.1	25.1	25.0	25.3	26.9	28.3	29.7	30.9	30.6	30.7	30.7	31.6	32.2	32.4	32.3	31.8	30.5	29.3	28.8	27.7	27.4	28.6	32.4	25.0
26	27.2	26.5	26.2	25.9	26.2	25.6	25.8	28.0	29.9	31.3	31.9	33.1	33.9	34.9	35.0	35.6	35.5	34.9	34.4	33.1	31.5	30.9	29.9	30.0	30.7	35.6	25.6
27	30.1	29.3	28.5	28.6	28.1	27.2	27.1	28.9	30.7	31.5	33.0	33.7	34.9	35.4	35.9	35.9	35.2	33.9	29.7	30.6	30.0	27.9	23.8	25.2	30.6	35.9	23.8
28	25.2	25.1	24.9	24.6	23.9	23.1	21.9	22.5	25.0	27.4	28.0	29.3	30.4	31.5	32.2	32.6	32.8	32.7	31.7	30.6	29.8	28.5	27.9	26.7	27.8	32.8	21.9
29	26.0	25.6	25.2	24.6	24.5	24.4	24.3	25.8	29.8	31.5	32.8	32.3	31.3	29.7	30.9	31.5	32.3	32.0	29.2	28.0	27.1	26.5	26.2	25.4	28.2	32.8	24.3
30	25.1	25.0	24.7	24.6	24.1	24.0	23.7	23.7	24.2	25.2	27.0	28.4	30.0	31.2	31.9	27.3	28.7	30.7	30.2	29.1	28.4	27.9	27.1	27.2	27.1	31.9	23.7
31	26.7	26.5	26.5	26.5	26.0	25.6	25.6	27.6	29.2	30.9	31.9	32.7	34.0	34.8	36.1	36.3	36.1	34.9	33.7	32.6	31.9	30.3	29.5	29.0	30.6	36.3	25.6
Avg	27.1	26.7	26.4	26.1	25.8	25.8	26.0	27.1	28.4	29.6	30.9	32.0	33.0	33.7	34.3	33.9	32.9	31.4	30.5	30.1	29.4	28.8	28.0	27.4	29.4	--	--
Max	34.6	34.5	34.1	33.8	33.1	32.7	33.0	34.2	35.2	37.1	38.7	40.0	41.1	41.8	42.4	41.8	40.3	39.4	38.6	37.6	36.7	36.4	35.9	35.2	--	42.4	--
Min	20.8	20.8	21.6	22.9	22.9	22.5	21.9	22.5	22.2	22.0	22.9	25.4	26.9	27.3	27.5	26.1	23.2	22.3	23.1	23.3	23.1	23.7	23.5	22.8	--	--	20.8

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Aug 2017

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	27.9	26.7	26.8	27.3	27.3	27.1	25.0	22.3	22.8	24.2	26.4	28.2	30.2	32.0	31.2	29.0	28.3	24.5	24.3	27.0	25.8	25.6	25.7	25.8	26.7	32.0	22.3
2	26.9	26.9	27.4	27.2	26.7	26.2	26.2	26.1	25.9	26.7	27.5	29.6	30.4	30.8	30.7	29.7	29.6	29.1	27.7	26.7	25.8	26.2	25.5	25.7	27.5	30.8	25.5
3	26.3	25.3	25.6	25.2	25.2	24.9	25.4	26.2	26.8	29.3	30.6	31.8	33.5	34.5	34.9	33.4	33.2	31.5	30.3	25.9	26.3	26.3	25.8	25.2	28.5	34.9	24.9
4	25.4	25.1	24.8	24.3	24.0	23.4	24.0	26.5	28.5	29.2	30.7	31.6	32.8	33.0	33.8	34.1	34.2	33.8	33.2	31.7	30.1	29.3	28.6	27.9	29.2	34.2	23.4
5	26.9	26.6	27.5	27.1	26.5	25.8	25.5	27.7	29.5	30.2	30.9	32.2	33.0	33.6	34.3	35.0	34.3	33.9	33.2	31.9	30.6	29.4	29.4	28.4	30.1	35.0	25.5
6	28.0	27.1	26.8	26.1	25.5	24.7	24.5	26.5	28.8	30.0	31.0	32.3	33.0	34.1	34.4	34.6	34.4	33.8	33.0	31.6	30.0	30.0	28.9	28.6	29.9	34.6	24.5
7	28.3	28.1	27.1	27.2	26.1	26.1	26.2	27.9	30.0	31.2	32.5	33.5	34.3	34.9	35.5	35.6	35.5	35.1	34.2	32.6	30.5	29.6	28.9	29.6	30.9	35.6	26.1
8	28.4	28.2	28.0	27.3	26.2	25.9	25.5	27.9	30.3	32.5	34.2	35.6	35.8	36.9	37.1	36.9	36.4	36.4	35.2	33.8	32.2	31.0	30.0	29.5	31.7	37.1	25.5
9	28.9	28.9	28.8	28.5	27.8	27.5	28.1	30.6	32.4	34.4	35.8	36.9	37.3	37.8	38.3	38.6	38.2	37.7	36.8	35.0	32.9	32.5	31.6	31.3	33.2	38.6	27.5
10	30.3	29.9	30.0	29.5	30.0	29.0	29.0	29.1	29.2	29.9	31.9	32.5	34.5	36.1	36.8	37.2	37.1	36.3	35.3	34.3	28.2	26.9	26.0	26.9	31.5	37.2	26.0
11	28.1	26.6	27.7	27.5	27.6	27.5	28.2	30.4	31.4	32.9	34.1	35.3	36.6	37.3	37.8	37.9	37.5	36.7	35.6	34.2	33.4	32.2	31.6	30.7	32.5	37.9	26.6
12	30.3	30.3	30.5	30.2	28.7	28.2	28.0	29.0	29.1	25.1	25.5	26.8	29.6	32.1	33.5	34.5	34.3	34.1	33.3	32.1	30.8	30.3	30.2	28.3	30.2	34.5	25.1
13	23.1	22.7	22.5	22.2	22.3	21.9	22.3	22.5	26.3	28.6	29.8	30.5	30.5	31.4	32.0	32.4	32.4	32.4	31.8	30.4	29.0	28.9	28.1	27.4	27.6	32.4	21.9
14	27.5	27.2	26.6	26.7	26.3	25.7	25.4	27.6	28.3	28.9	30.0	31.4	32.4	33.2	33.2	33.7	33.4	33.4	32.7	31.3	29.6	28.9	28.8	28.4	29.6	33.7	25.4
15	27.8	27.7	27.2	26.3	25.5	25.1	25.0	27.5	29.0	30.4	30.7	32.4	33.2	33.9	33.8	34.3	33.8	33.5	32.6	30.9	29.9	28.4	27.5	26.8	29.7	34.3	25.0
16	26.1	25.4	24.9	24.7	23.8	23.8	24.4	26.8	29.1	30.4	31.0	32.4	33.3	--	34.8	34.7	33.9	33.5	32.7	31.3	29.4	28.4	28.0	27.6	29.1	34.8	23.8
17	27.3	26.7	26.3	25.1	24.4	24.1	23.7	26.4	28.8	30.7	32.4	33.7	34.5	34.9	34.9	34.7	34.7	34.2	33.0	30.4	28.9	28.3	27.5	28.3	29.7	34.9	23.7
18	27.2	26.3	25.6	25.7	25.4	24.8	24.3	27.4	29.8	31.5	33.5	34.4	35.2	36.0	36.3	36.3	36.0	35.3	34.1	32.4	30.8	30.4	28.7	28.1	30.6	36.3	24.3
19	27.7	27.6	27.5	27.2	26.4	26.0	26.3	28.5	29.8	30.4	31.2	32.4	33.7	34.1	34.9	35.2	34.7	34.5	33.8	32.2	30.8	30.3	29.4	29.1	30.6	35.2	26.0
20	28.8	28.4	28.1	27.6	27.3	26.9	26.3	27.3	28.3	30.3	30.2	31.5	32.9	33.3	33.7	33.7	33.2	32.7	31.8	28.2	28.3	28.5	27.8	27.4	29.7	33.7	26.3
21	27.0	26.8	26.7	25.5	24.9	25.1	25.5	27.5	29.0	30.9	30.7	31.2	32.8	33.7	34.9	35.0	34.6	33.8	32.9	31.6	30.7	29.5	29.1	28.3	29.9	35.0	24.9
22	28.0	27.5	27.8	27.4	26.3	26.8	26.3	28.8	30.6	32.7	33.9	34.9	36.0	36.9	37.3	37.3	37.5	36.7	35.5	33.9	33.2	32.8	30.7	30.4	32.0	37.5	26.3
23	30.6	29.4	29.1	28.7	27.7	27.0	26.5	27.7	29.9	31.4	32.6	33.8	34.9	35.6	35.9	34.8	34.9	32.6	29.5	29.1	27.9	27.2	25.6	26.0	30.4	35.9	25.6
24	27.0	26.4	25.4	25.0	24.5	23.9	23.6	25.4	26.9	28.5	30.3	32.3	33.6	34.4	34.9	35.1	35.2	34.5	33.5	32.2	30.9	30.0	30.1	29.6	29.7	35.2	23.6
25	28.6	28.5	27.6	27.5	27.2	27.2	26.3	28.8	30.5	31.8	33.7	35.2	35.8	36.9	37.8	37.3	37.4	36.7	35.5	33.7	33.0	32.7	31.9	31.7	32.2	37.8	26.3
26	31.2	30.5	30.0	30.2	29.5	29.3	29.4	30.5	32.0	34.1	35.5	36.7	37.0	38.4	37.9	30.1	29.9	30.6	30.0	30.9	31.1	30.4	30.0	28.9	31.8	38.4	28.9
27	28.9	29.1	28.8	28.6	27.0	28.0	27.5	29.2	29.3	30.3	33.5	34.5	35.8	37.1	38.0	38.5	37.8	33.4	33.2	33.2	32.5	31.6	31.4	31.0	32.0	38.5	27.0
28	30.7	31.1	31.1	30.7	30.6	29.9	29.0	30.2	31.6	33.0	34.7	35.9	37.2	37.7	38.2	38.8	37.0	36.0	33.1	31.8	31.8	30.7	31.0	30.4	33.0	38.8	29.0
29	30.7	30.1	29.7	29.6	29.2	29.1	28.5	29.1	30.9	32.1	33.8	35.1	36.5	37.1	37.7	37.9	38.0	37.5	35.7	33.5	32.8	32.7	32.3	31.4	33.0	38.0	28.5
30	30.8	30.4	29.9	29.4	29.1	28.2	27.4	28.8	30.8	32.6	34.0	35.4	36.2	36.9	37.1	37.4	37.4	36.5	35.2	34.0	32.8	32.2	31.5	31.3	32.7	37.4	27.4
31	30.9	30.5	30.1	29.3	28.6	28.1	27.7	29.3	31.2	32.6	33.8	34.8	35.8	36.5	37.2	37.0	36.7	36.0	34.7	33.1	32.5	32.1	31.9	31.5	32.6	37.2	27.7
Avg	28.2	27.8	27.6	27.2	26.7	26.4	26.2	27.7	29.2	30.6	31.8	33.1	34.1	35.0	35.4	35.2	34.9	34.1	33.0	31.6	30.4	29.8	29.1	28.8	30.6	--	--
Max	31.2	31.1	31.1	30.7	30.6	29.9	29.4	30.6	32.4	34.4	35.8	36.9	37.3	38.4	38.3	38.8	38.2	37.7	36.8	35.0	33.4	32.8	32.3	31.7	--	38.8	--
Min	23.1	22.7	22.5	22.2	22.3	21.9	22.3	22.3	22.8	24.2	25.5	26.8	29.6	30.8	30.7	29.0	28.3	24.5	24.3	25.9	25.8	25.6	25.5	25.2	--	--	21.9

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, Temp_2m_C"
Month: Sep 2017

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	31.1	30.6	30.5	30.0	29.4	28.9	28.6	29.3	31.6	33.8	34.3	35.2	36.9	37.4	37.8	38.1	37.5	37.0	35.9	34.4	33.8	33.1	32.8	32.4	33.3	38.1	28.6
2	31.8	29.7	28.0	26.7	26.1	25.7	24.7	26.8	28.5	29.9	32.8	34.3	34.9	34.2	34.5	34.4	34.2	33.9	33.0	31.5	30.5	29.8	29.4	28.1	30.6	34.9	24.7
3	27.5	27.0	26.4	25.5	25.1	24.1	24.0	25.5	26.8	30.1	33.5	36.2	37.7	38.1	36.9	36.4	35.9	34.6	33.2	31.6	31.2	30.5	29.5	28.5	30.7	38.1	24.0
4	27.5	26.7	25.8	25.1	24.8	24.1	24.1	25.1	26.8	28.5	30.4	31.4	33.2	34.5	35.2	35.5	35.2	34.8	34.3	33.6	32.0	31.3	30.4	29.7	30.0	35.5	24.1
5	29.3	28.8	28.1	28.3	28.6	27.0	27.0	27.7	30.4	31.9	35.4	36.6	37.1	37.6	37.6	37.7	37.6	36.7	35.3	33.7	32.7	32.5	32.5	31.8	32.6	37.7	27.0
6	31.0	31.4	31.1	30.4	30.0	29.8	29.1	29.1	31.0	32.6	34.3	35.7	36.5	37.3	37.4	37.6	37.0	36.3	35.0	33.4	32.9	32.0	32.1	32.1	33.1	37.6	29.1
7	31.7	31.0	30.5	30.3	28.8	28.2	26.8	28.6	30.5	31.7	33.1	35.3	36.5	37.1	37.3	36.4	35.4	33.8	32.3	29.2	29.4	28.3	27.9	27.4	31.6	37.3	26.8
8	27.2	27.9	27.4	27.0	25.2	25.0	24.7	26.5	27.2	29.4	30.7	31.3	32.3	32.3	32.2	32.5	32.5	28.5	27.9	25.6	24.8	25.3	25.6	25.8	28.1	32.5	24.7
9	23.9	22.2	23.0	24.1	23.2	23.3	22.6	23.5	24.8	26.4	28.4	28.7	29.5	30.8	31.4	31.6	31.6	30.6	29.6	28.8	27.8	27.2	26.8	26.4	26.9	31.6	22.2
10	26.0	26.5	25.8	25.6	26.3	26.6	26.4	27.5	28.2	30.7	32.2	33.2	34.3	35.6	36.0	35.9	35.8	35.1	34.0	32.6	31.7	31.5	31.0	31.0	30.8	36.0	25.6
11	30.8	30.3	29.8	29.4	29.5	28.9	29.1	30.0	31.4	32.9	34.5	35.9	36.8	37.7	36.6	37.0	37.2	36.7	35.8	33.9	32.1	31.3	30.8	30.7	32.9	37.7	28.9
12	30.2	30.9	30.6	29.5	29.8	29.6	29.6	29.9	31.8	34.1	35.6	37.2	37.4	37.9	38.5	38.0	37.5	36.8	35.4	34.0	32.9	32.5	31.8	30.6	33.4	38.5	29.5
13	30.0	29.2	28.8	27.8	27.1	27.1	27.4	29.6	31.1	32.6	33.8	35.2	35.7	36.2	36.9	36.5	36.0	35.3	34.1	33.0	32.1	30.6	28.0	27.6	31.7	36.9	27.1
14	28.0	28.1	27.4	27.3	26.5	26.3	26.4	28.2	30.0	31.4	32.8	33.8	34.6	34.5	35.0	34.4	32.9	32.0	31.3	30.1	28.8	27.6	26.8	25.8	30.0	35.0	25.8
15	24.9	24.2	23.8	23.8	22.8	22.6	22.4	24.8	26.5	28.0	29.3	29.7	30.1	31.1	31.4	31.5	31.1	30.4	29.3	28.0	27.0	27.5	26.3	25.6	27.2	31.5	22.4
16	25.5	24.8	23.6	22.4	21.9	21.3	21.3	23.7	25.7	27.4	28.7	30.1	30.6	31.0	32.5	32.5	32.0	30.9	29.6	28.7	27.3	26.6	26.2	26.6	27.1	32.5	21.3
17	26.2	26.0	25.1	23.9	23.5	23.7	23.3	24.5	26.9	29.1	30.4	31.3	31.6	32.2	32.9	32.9	32.6	31.3	29.9	28.6	26.9	26.1	25.4	24.6	27.9	32.9	23.3
18	23.8	23.5	23.7	22.7	22.2	22.0	21.6	24.1	26.9	28.5	30.4	31.5	32.5	32.8	32.8	32.4	32.2	31.5	30.0	27.8	26.8	26.0	25.4	25.1	27.3	32.8	21.6
19	24.8	24.9	23.8	23.5	22.4	22.5	22.1	24.7	26.8	28.1	28.5	30.1	31.3	32.1	33.1	33.3	32.9	31.7	30.2	28.9	27.0	25.8	24.9	23.4	27.4	33.3	22.1
20	23.2	22.8	22.6	22.5	22.1	21.9	21.6	24.1	26.4	27.9	29.3	30.8	32.0	32.8	33.4	33.4	32.9	31.8	30.4	28.8	26.8	26.3	24.9	24.2	27.2	33.4	21.6
21	23.5	22.8	22.2	21.6	21.0	21.1	21.2	23.4	26.5	28.2	29.9	31.1	32.2	32.5	33.1	32.8	32.2	31.0	29.4	28.2	27.0	25.9	25.1	23.7	26.9	33.1	21.0
22	22.8	22.3	21.9	22.1	22.0	21.3	20.8	21.5	23.0	24.9	25.6	27.2	28.1	28.4	29.0	29.0	27.8	26.6	25.6	24.7	23.4	22.4	21.5	21.3	24.3	29.0	20.8
23	21.2	20.6	20.4	19.4	18.5	17.6	17.1	18.8	20.8	22.4	23.6	25.6	25.2	25.4	25.3	25.5	24.8	23.9	22.5	21.3	20.7	20.6	19.6	18.2	21.6	25.6	17.1
24	17.7	17.5	17.6	17.6	17.2	16.1	16.5	18.9	20.9	21.9	23.2	24.2	24.8	25.3	25.4	25.6	25.4	24.4	22.8	21.6	20.1	18.8	18.7	17.9	20.8	25.6	16.1
25	17.5	17.3	16.7	16.4	16.1	16.0	16.2	17.8	20.8	23.0	24.8	25.7	26.3	26.8	27.6	27.1	27.2	26.1	24.4	22.9	21.0	20.4	19.7	19.3	21.5	27.6	16.0
26	18.7	18.3	18.1	18.6	19.3	18.7	19.0	21.0	21.7	24.3	26.1	26.7	28.4	28.4	28.3	28.3	27.2	26.6	25.1	23.9	23.0	22.4	21.9	22.0	23.2	28.4	18.1
27	21.0	21.1	21.1	21.3	21.9	20.1	19.3	21.1	23.2	24.8	26.7	28.2	28.7	28.5	28.3	28.4	27.9	27.1	25.5	24.1	22.5	21.9	21.7	21.4	24.0	28.7	19.3
28	20.8	20.5	19.9	19.6	19.3	19.8	20.4	21.3	23.6	25.7	28.2	29.7	30.8	30.8	31.1	30.6	30.1	29.2	27.7	26.5	25.3	24.5	23.9	23.8	25.1	31.1	19.3
29	23.5	24.5	24.8	24.7	24.2	24.1	23.9	24.6	26.2	27.9	29.4	31.4	31.9	33.0	32.9	32.5	31.9	30.8	29.2	28.0	26.7	25.6	25.3	24.9	27.6	33.0	23.5
30	25.3	24.7	25.4	25.2	25.0	24.4	24.4	25.1	26.6	28.5	30.6	31.4	32.2	32.9	32.4	32.8	32.2	30.8	29.0	27.3	25.8	25.2	24.1	23.5	27.7	32.9	23.5
Avg	25.5	25.2	24.8	24.4	24.0	23.6	23.4	24.9	26.8	28.6	30.2	31.5	32.3	32.8	33.1	33.0	32.6	31.5	30.3	28.8	27.7	27.0	26.3	25.8	28.1	--	--
Max	31.8	31.4	31.1	30.4	30.0	29.8	29.6	30.0	31.8	34.1	35.6	37.2	37.7	38.1	38.5	38.1	37.6	37.0	35.9	34.4	33.8	33.1	32.8	32.4	--	38.5	--
Min	17.5	17.3	16.7	16.4	16.1	16.0	16.2	17.8	20.8	21.9	23.2	24.2	24.8	25.3	25.3	25.5	24.8	23.9	22.5	21.3	20.1	18.8	18.7	17.9	--	--	16.0

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	13	52	70	61	326	295	275	233	269	246	238	211	260	255	261	263	271	273	269	265	132	22	44	1	285	326	1
7	2	33	38	9	68	73	88	81	79	116	145	151	167	169	204	179	252	309	358	61	57	27	74	85	78	358	2
8	97	90	81	87	94	150	97	160	145	120	173	212	234	168	231	11	266	305	358	339	352	170	219	174	145	358	11
9	194	184	321	177	351	294	198	187	233	221	299	277	249	273	253	263	252	215	222	224	189	221	158	112	231	351	112
10	248	63	264	80	289	196	69	--	--	--	--	--	--	--	--	--	--	--	--	261	258	198	149	185	213	289	63
11	189	337	64	124	109	190	165	168	149	169	218	232	188	249	274	279	283	309	321	19	27	263	180	343	223	343	19
12	9	43	69	33	36	81	93	128	161	200	238	252	259	252	271	262	264	1	357	359	356	243	59	117	354	359	1
13	98	307	3	216	9	180	161	154	245	280	239	252	229	264	261	271	259	76	189	33	21	100	95	116	227	307	3
14	235	330	121	207	253	83	236	173	225	220	192	202	232	252	259	258	306	12	121	10	158	64	73	72	214	330	10
15	26	24	342	72	196	330	324	273	233	108	293	291	264	281	264	293	350	75	47	36	296	197	146	184	311	350	24
16	65	26	266	299	0	86	290	275	259	244	246	250	225	227	274	269	265	179	16	114	84	158	74	30	273	299	0
17	96	234	66	76	86	301	143	246	225	262	276	252	244	266	266	274	258	249	237	197	143	85	80	107	225	301	66
18	27	305	15	95	96	59	108	179	222	249	229	221	255	253	217	338	52	81	82	111	224	81	82	64	104	338	15
19	77	74	106	350	11	12	94	282	133	266	254	238	296	266	225	192	171	164	215	358	102	308	57	82	164	358	11
20	91	109	71	94	78	119	70	359	165	162	178	258	206	209	221	253	273	84	75	359	111	73	21	80	108	359	21
21	69	82	90	39	242	278	167	226	179	197	220	254	263	280	237	280	20	346	71	76	80	82	337	57	346	346	20
22	296	86	52	34	75	63	124	100	89	220	245	251	262	274	251	275	89	84	94	94	263	138	69	75	91	296	34
23	75	129	41	275	264	77	242	204	225	200	179	130	252	246	222	269	223	80	0	96	131	341	312	291	223	341	0
24	237	280	125	272	65	19	132	246	307	305	356	137	207	241	81	160	233	210	193	161	73	85	74	79	169	356	19
25	77	74	74	72	76	75	86	72	99	135	162	230	231	266	270	269	292	275	278	333	14	45	246	42	47	333	14
26	18	306	14	27	52	20	73	240	230	212	296	303	264	248	268	271	265	249	263	293	18	12	25	335	309	335	12
27	339	277	314	302	357	344	30	113	175	261	248	261	242	262	269	263	276	7	70	71	66	88	60	63	325	357	7
28	103	195	112	84	84	69	20	133	213	188	231	274	257	252	264	267	264	289	316	14	286	183	151	85	218	316	14
29	96	86	46	21	342	25	257	198	131	240	202	308	336	331	329	256	240	200	162	213	314	235	313	328	285	342	21
30	329	322	219	203	251	157	318	298	196	236	207	224	271	231	251	126	74	134	97	47	72	70	335	49	230	335	47
31	340	340	360	67	35	47	42	141	207	191	212	251	299	225	178	223	231	4	49	85	119	92	94	161	104	360	4
Avg	49	28	49	57	35	56	106	189	195	213	228	241	248	251	250	261	267	326	31	37	67	98	73	75	239	--	--
Max	340	340	360	350	357	344	324	359	307	305	356	308	336	331	329	338	350	346	358	359	356	341	337	343	--	360	--
Min	2	24	3	9	0	12	20	72	79	108	145	130	167	168	81	11	20	1	0	10	14	12	21	1	--	--	0

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Aug 2017

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	177	204	258	174	218	211	78	86	271	331	254	244	263	214	283	110	57	338	164	138	159	116	82	64	187	338	57
2	85	92	67	74	113	97	77	80	79	245	44	52	73	158	171	190	191	222	322	26	128	19	306	19	85	322	19
3	68	278	353	324	3	178	54	355	210	182	218	205	175	173	156	167	146	149	189	155	125	56	124	216	164	355	3
4	21	0	349	339	10	19	333	58	184	215	203	269	284	263	258	280	255	261	293	331	27	46	36	7	323	349	0
5	278	27	79	77	46	46	340	115	180	180	255	247	252	269	256	229	270	281	276	307	358	46	52	70	311	358	27
6	22	348	42	57	50	6	340	190	136	136	162	191	282	252	241	252	252	264	268	324	19	26	78	67	341	348	6
7	17	5	43	98	49	63	42	155	172	187	272	253	277	272	252	250	265	256	256	326	55	47	301	320	309	326	5
8	292	288	293	277	358	35	345	131	200	210	303	277	297	194	266	287	275	284	289	317	22	334	10	321	299	358	10
9	295	42	349	350	321	326	20	44	260	217	122	205	193	150	254	307	260	265	275	317	31	6	349	26	317	350	6
10	37	73	98	30	52	128	71	16	16	164	255	271	344	80	84	74	68	36	39	76	121	111	93	78	67	344	16
11	68	279	240	249	89	2	15	56	60	62	99	142	176	176	188	178	248	260	272	300	341	357	66	25	28	357	2
12	32	69	81	82	90	69	155	83	144	74	71	72	69	52	158	219	278	267	276	317	35	71	80	189	81	317	32
13	320	168	237	208	182	257	350	108	51	209	228	245	267	251	248	250	249	265	260	235	88	348	332	12	254	350	12
14	85	67	323	97	284	333	57	104	137	194	249	214	224	237	249	243	264	278	259	287	28	50	56	64	276	333	28
15	84	115	148	148	52	48	68	95	159	193	231	211	218	231	238	231	248	258	250	293	30	29	36	42	170	293	29
16	49	65	76	66	69	72	71	72	137	155	193	188	184	--	205	200	240	220	222	278	35	40	53	62	111	278	35
17	61	56	48	30	309	48	20	142	170	183	208	206	178	232	247	267	259	249	225	43	38	27	325	35	335	325	20
18	31	24	3	17	58	113	49	25	215	185	187	269	280	254	248	245	245	250	253	285	346	359	140	348	302	359	3
19	182	324	299	346	64	58	46	99	204	286	275	258	253	248	264	269	256	261	260	277	69	47	57	63	295	346	46
20	58	79	75	90	75	335	117	257	204	179	212	211	121	182	258	255	258	279	285	76	59	70	85	49	123	335	49
21	79	79	82	186	324	76	78	82	95	152	190	198	268	259	226	229	251	262	267	288	15	352	310	333	263	352	15
22	330	352	42	34	20	59	317	152	205	205	169	205	203	209	216	292	254	270	274	301	353	344	81	97	285	353	20
23	67	80	52	72	71	48	63	85	107	171	203	239	246	253	272	254	202	156	101	144	176	108	99	63	120	272	48
24	34	78	91	26	265	3	87	56	67	56	36	62	73	315	158	228	243	242	268	302	57	57	62	108	49	315	3
25	54	42	77	80	61	353	318	70	76	69	120	203	286	279	234	242	268	264	255	49	39	345	60	63	28	353	39
26	72	71	71	82	90	92	71	231	192	85	90	116	227	199	301	349	23	82	13	83	64	62	56	106	78	349	13
27	83	87	106	90	338	111	336	244	169	81	80	307	248	227	231	236	195	35	53	46	66	106	93	287	88	338	35
28	45	68	89	312	354	293	296	281	241	329	67	109	176	207	22	323	349	44	57	72	142	157	121	68	40	354	22
29	43	103	60	52	61	50	315	302	3	46	109	96	80	293	139	209	244	240	26	70	62	63	106	40	58	315	3
30	355	359	65	41	304	306	297	264	238	136	125	174	183	152	117	227	144	76	71	85	81	89	83	78	97	359	41
31	90	100	91	99	102	87	76	87	72	101	131	94	145	157	167	134	135	130	159	98	80	79	83	97	107	167	72
Avg	45	52	54	57	38	44	31	88	160	164	181	210	227	224	228	240	247	260	270	345	54	45	61	48	57	--	--
Max	355	359	353	350	358	353	350	355	271	331	303	307	344	315	301	349	349	338	322	331	358	359	349	348	--	359	--
Min	17	0	3	17	3	2	15	16	3	46	36	52	69	52	22	74	23	35	13	26	15	6	10	7	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WD_10m"
Month: Sep 2017

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	91	81	97	71	69	152	98	296	215	102	39	336	120	82	132	147	152	124	153	92	101	84	94	80	102	336	39
2	133	347	325	16	342	2	273	188	211	189	213	155	162	167	188	181	37	153	127	323	324	313	325	40	233	347	2
3	328	327	287	10	264	55	43	105	215	196	203	152	167	172	254	265	258	267	273	292	327	317	97	341	274	341	10
4	17	312	343	30	45	311	318	225	185	240	171	273	261	267	254	272	249	351	287	360	14	32	50	50	314	360	14
5	40	43	11	79	97	233	65	104	188	258	168	160	192	208	273	265	246	283	8	70	165	68	83	68	117	283	8
6	74	80	67	65	68	57	341	320	55	106	88	134	152	139	118	189	158	166	169	98	102	73	76	87	98	341	55
7	91	93	90	87	145	204	17	84	138	180	100	206	195	207	218	255	247	327	250	294	350	292	13	187	179	350	13
8	359	79	86	64	134	43	332	299	248	175	167	198	224	261	263	258	259	95	120	247	343	145	89	84	166	359	43
9	63	69	66	71	48	125	227	167	231	176	148	103	267	211	267	283	276	271	277	299	23	40	32	19	3	299	19
10	316	327	335	307	353	49	33	6	338	41	62	71	36	170	145	53	65	124	102	81	84	79	86	88	51	353	6
11	74	81	88	93	97	88	100	60	70	67	88	129	122	171	244	43	72	313	330	23	43	31	39	49	70	330	23
12	59	85	84	71	99	100	201	224	267	34	34	217	266	261	222	247	256	267	273	346	6	297	223	28	283	346	6
13	36	47	32	43	39	44	99	90	149	191	195	205	238	231	236	256	264	260	260	303	281	46	100	47	310	303	32
14	49	96	74	33	82	47	47	99	144	172	195	205	206	238	232	227	244	256	238	239	239	235	227	216	199	256	33
15	227	261	87	251	12	51	53	120	173	184	206	228	233	231	243	243	245	250	245	275	64	150	352	314	234	352	12
16	137	153	179	42	80	54	8	84	122	163	177	162	168	228	215	223	217	269	271	323	45	53	48	66	134	323	8
17	98	158	192	83	57	75	94	95	198	182	190	205	217	234	222	229	218	257	283	319	13	28	26	51	169	319	13
18	22	51	42	44	42	29	55	98	153	157	194	189	218	227	236	252	249	251	264	38	51	64	52	58	73	264	22
19	63	204	80	122	72	66	68	60	185	218	242	231	226	226	225	223	231	234	217	210	125	59	63	50	168	242	50
20	65	93	90	104	102	83	81	80	143	176	179	209	216	215	215	222	223	242	247	215	86	64	25	53	141	247	25
21	20	96	48	347	359	74	123	39	163	169	209	216	199	214	224	221	236	227	244	244	247	306	317	160	218	359	20
22	141	110	121	134	147	197	48	282	201	220	241	226	220	210	225	224	256	281	284	260	216	181	106	260	210	284	48
23	291	297	335	3	58	51	350	81	145	189	237	202	236	244	261	248	258	265	285	304	336	352	28	28	300	352	3
24	334	48	59	72	35	240	62	78	185	225	270	245	252	243	244	244	246	265	288	333	25	61	2	327	304	334	2
25	350	326	353	344	302	351	319	279	158	246	232	244	247	245	231	249	243	273	291	344	28	23	8	298	296	353	8
26	13	318	17	39	62	47	65	96	184	193	167	224	204	249	259	245	253	264	309	164	82	56	87	38	79	318	13
27	41	49	65	75	81	38	17	103	196	223	231	193	193	222	251	249	264	264	295	9	47	47	30	308	355	308	9
28	321	11	343	357	328	353	334	286	277	18	105	144	174	208	237	253	258	266	284	342	26	41	2	39	326	357	2
29	325	90	73	60	309	105	91	79	68	76	77	183	185	181	221	266	258	258	298	359	34	40	44	66	62	359	34
30	53	47	78	86	151	277	42	71	105	74	132	152	209	217	247	229	223	248	283	52	34	128	22	14	96	283	14
Avg	38	56	54	53	59	57	43	84	175	176	176	193	207	217	231	241	243	257	268	325	32	45	44	41	129	--	--
Max	359	347	353	357	359	353	350	320	338	258	270	336	267	267	273	283	276	351	330	360	350	352	352	341	--	360	--
Min	13	11	11	3	12	2	8	6	55	18	34	71	36	82	118	43	37	95	8	9	6	23	2	14	--	--	2

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	1.1	1.5	1.5	1.8	1.2	0.8	1.4	1.3	1.3	1.6	1.8	2.2	2.7	3.5	4.0	4.1	4.5	3.6	3.1	2.1	1.6	0.6	1.0	2.3	2.1	4.5	0.6
7	3.7	1.7	1.6	1.5	3.1	4.2	4.5	6.0	6.6	3.6	3.0	3.3	3.9	4.0	4.3	2.9	2.5	3.4	2.8	3.9	3.3	3.8	4.4	4.6	3.6	6.6	1.5
8	3.8	4.6	3.5	3.8	3.9	2.8	2.0	2.8	3.0	3.3	3.3	3.8	3.0	3.5	2.9	3.3	2.7	4.2	3.4	2.2	2.4	2.1	1.8	1.2	3.1	4.6	1.2
9	0.9	0.3	0.8	0.5	0.7	1.3	0.4	0.7	1.1	1.4	2.3	2.8	3.4	3.1	4.3	4.3	3.1	1.7	2.3	2.7	2.9	1.7	1.4	0.9	1.9	4.3	0.3
10	0.9	0.4	0.9	0.5	0.4	0.4	0.5	--	--	--	--	--	--	--	--	--	--	--	--	3.7	2.6	5.2	3.6	3.0	1.9	5.2	0.4
11	2.0	1.7	2.1	3.2	2.2	1.3	3.1	2.2	1.2	0.6	1.2	0.8	0.9	2.0	3.2	3.0	3.2	2.3	2.1	3.4	2.5	1.0	0.6	1.0	2.0	3.4	0.6
12	1.4	1.5	1.4	1.4	0.8	2.1	1.3	1.0	1.2	1.6	2.6	3.8	4.7	4.4	4.4	4.9	5.3	5.5	2.1	2.1	1.8	0.6	3.5	4.3	2.7	5.5	0.6
13	2.7	1.4	0.7	0.5	0.4	0.3	0.3	0.5	1.7	2.3	3.0	3.3	3.8	3.9	4.8	4.8	4.6	4.2	1.5	0.4	1.8	2.8	4.6	1.8	2.3	4.8	0.3
14	0.7	2.0	2.4	0.4	0.7	2.7	1.2	0.5	2.1	1.8	2.2	2.7	2.5	4.0	4.1	3.5	6.5	5.2	1.7	2.1	2.8	4.9	3.2	2.5	2.6	6.5	0.4
15	2.7	3.9	1.4	1.5	1.1	1.3	1.2	0.7	1.4	1.3	1.6	2.4	3.2	2.6	4.0	4.6	7.1	2.5	3.7	1.4	3.1	2.3	2.3	1.9	2.5	7.1	0.7
16	2.4	1.5	0.9	1.1	0.7	0.4	1.6	1.7	2.4	2.5	2.6	2.6	2.6	2.9	3.3	4.4	4.1	5.7	6.2	4.7	2.8	1.1	2.7	3.1	2.7	6.2	0.4
17	6.0	2.5	3.6	4.6	2.6	1.7	1.0	1.5	1.4	1.3	1.2	2.0	2.6	3.2	2.9	3.8	3.8	3.7	2.5	3.7	2.8	1.5	1.4	5.9	2.8	6.0	1.0
18	2.7	1.1	1.7	4.2	3.1	2.2	0.6	0.7	0.9	1.5	1.8	1.9	2.0	2.1	2.6	3.9	1.9	4.2	4.6	1.1	1.2	1.4	2.3	2.8	2.2	4.6	0.6
19	4.3	2.8	1.8	1.1	1.4	1.1	1.4	0.9	1.3	1.3	2.1	2.0	3.2	3.4	4.0	3.3	3.5	3.2	2.9	1.2	0.6	0.9	3.5	6.5	2.4	6.5	0.6
20	4.1	2.9	2.3	3.1	6.3	3.7	2.2	2.5	1.9	1.6	1.8	2.2	2.6	2.8	2.3	3.1	3.3	3.2	3.8	9.0	3.8	3.3	2.1	2.8	3.2	9.0	1.6
21	3.6	3.3	1.8	1.5	1.3	0.5	0.3	0.5	0.5	1.2	1.8	1.8	2.7	2.9	3.1	4.1	4.7	2.3	2.5	1.7	2.7	4.8	1.0	1.5	2.2	4.8	0.3
22	1.7	1.2	0.9	1.3	1.6	1.6	0.9	0.9	1.1	1.6	1.7	2.7	3.1	3.0	3.5	6.0	5.6	5.1	1.2	4.0	1.2	3.5	5.9	4.3	2.7	6.0	0.9
23	3.8	2.7	1.8	0.7	0.9	3.2	1.0	1.3	1.0	2.3	2.3	2.1	1.5	2.1	2.1	1.9	3.6	5.1	4.2	2.1	1.7	0.8	0.9	0.9	2.1	5.1	0.7
24	1.0	1.0	1.0	0.8	0.3	0.7	0.8	2.1	2.1	3.0	1.7	1.4	1.1	1.1	2.3	2.3	1.0	0.9	0.7	1.1	2.6	2.3	3.9	3.5	1.6	3.9	0.3
25	3.9	3.7	4.2	4.2	4.3	4.5	4.0	3.7	1.5	1.7	2.3	1.9	2.3	2.6	3.0	2.8	2.6	3.1	2.9	1.2	1.1	2.0	0.6	1.0	2.7	4.5	0.6
26	1.3	0.5	0.7	1.5	2.6	0.9	1.3	0.5	1.1	1.1	2.1	2.1	2.7	3.8	3.6	3.7	3.3	4.1	3.1	1.5	0.6	0.7	0.6	0.5	1.8	4.1	0.5
27	0.3	0.3	0.4	0.4	1.4	0.6	1.0	0.6	0.8	1.0	1.8	2.2	2.8	3.2	3.2	3.0	1.5	4.7	12.5	9.8	6.6	7.8	10.3	9.0	3.6	12.5	0.3
28	4.1	4.3	3.2	3.1	2.1	3.4	1.7	0.8	1.0	1.2	1.2	2.6	2.8	3.7	4.0	4.8	4.4	3.6	3.0	1.3	0.9	2.1	2.5	3.4	2.7	4.8	0.8
29	2.8	2.7	2.6	0.8	1.1	0.9	0.5	0.7	0.7	1.6	2.0	2.0	3.1	1.9	1.5	1.9	1.9	3.4	4.1	1.8	1.7	1.2	1.7	1.2	1.8	4.1	0.5
30	1.8	1.2	0.7	0.4	1.0	0.7	1.8	1.4	0.7	0.6	1.2	1.6	2.3	2.1	2.8	3.2	1.8	1.5	0.8	0.9	1.6	2.1	0.9	1.5	1.4	3.2	0.4
31	0.9	0.9	1.0	1.1	1.3	2.1	1.1	1.4	1.2	1.4	2.1	1.6	1.8	2.3	2.1	2.2	2.1	5.1	4.3	3.8	3.3	4.9	3.4	3.2	2.3	5.1	0.9
Avg	2.5	2.0	1.7	1.7	1.8	1.8	1.4	1.5	1.6	1.7	2.0	2.3	2.7	3.0	3.3	3.6	3.6	3.7	3.3	2.8	2.3	2.5	2.7	2.9	2.4	--	--
Max	6.0	4.6	4.2	4.6	6.3	4.5	4.5	6.0	6.6	3.6	3.3	3.8	4.7	4.4	4.8	6.0	7.1	5.7	12.5	9.8	6.6	7.8	10.3	9.0	--	12.5	--
Min	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.6	1.2	0.8	0.9	1.1	1.5	1.9	1.0	0.9	0.7	0.4	0.6	0.6	0.6	0.5	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Aug 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	2.9	2.3	1.8	2.9	2.7	2.3	4.3	3.3	1.5	1.7	2.0	1.6	1.5	2.0	3.9	2.4	4.2	2.9	1.8	3.5	3.8	2.8	2.2	2.9	2.6	4.3	1.5
2	3.3	5.0	6.4	3.6	3.3	5.3	8.9	8.9	5.1	2.1	5.8	5.1	3.6	2.7	3.4	2.8	0.8	1.7	1.7	1.2	0.7	0.6	0.5	0.6	3.5	8.9	0.5
3	1.7	0.8	0.7	0.6	0.6	0.8	1.7	0.9	0.7	1.1	1.0	1.5	2.5	2.7	3.4	2.7	4.2	3.1	2.8	1.6	1.3	1.7	1.2	0.8	1.7	4.2	0.6
4	1.7	1.3	0.6	0.9	0.5	0.4	0.6	0.7	1.0	1.2	1.4	2.0	2.1	3.2	3.4	3.0	3.6	3.1	2.3	1.1	1.3	1.6	1.4	1.2	1.7	3.6	0.4
5	1.3	1.4	4.3	0.8	0.7	1.2	0.6	0.5	2.0	1.5	1.9	2.4	2.9	3.7	4.0	4.4	4.2	3.8	3.1	1.2	0.6	1.7	2.2	1.9	2.2	4.4	0.5
6	1.0	0.8	1.0	1.3	1.6	0.7	0.6	0.5	0.9	1.4	1.7	2.0	2.6	3.6	3.5	3.8	4.0	3.3	2.1	1.0	0.8	1.8	2.2	2.3	1.9	4.0	0.5
7	1.5	2.0	2.3	2.0	2.2	1.5	1.7	1.4	0.9	0.8	1.4	2.3	2.8	3.4	3.6	3.1	4.0	3.1	2.4	1.4	2.0	2.0	1.2	1.3	2.1	4.0	0.8
8	1.1	1.0	1.1	1.4	1.9	1.8	0.9	0.5	0.8	1.4	1.5	1.8	2.6	2.7	2.3	2.9	3.1	3.5	3.0	1.4	0.7	0.7	0.6	0.4	1.6	3.5	0.4
9	0.6	2.1	0.9	0.9	1.0	0.8	1.6	1.8	1.5	1.4	2.3	2.8	2.1	2.0	2.8	2.5	3.0	3.5	3.3	1.1	0.9	0.9	1.7	2.1	1.8	3.5	0.6
10	1.8	3.3	2.4	1.1	2.7	2.7	5.7	3.5	2.9	1.4	1.8	1.3	2.2	3.8	3.4	3.5	4.1	3.3	4.3	4.9	9.5	7.1	4.5	3.5	3.5	9.5	1.1
11	2.4	1.4	1.9	2.5	4.5	3.2	3.8	7.8	7.7	4.9	2.8	3.6	4.0	3.6	3.5	2.9	3.2	3.4	3.9	1.8	0.6	0.3	2.0	1.1	3.2	7.8	0.3
12	1.7	3.6	4.9	3.7	3.5	2.8	1.5	2.3	4.2	5.6	4.8	5.6	4.2	1.8	2.3	2.5	2.5	2.9	3.0	1.5	1.4	3.4	4.2	3.9	3.3	5.6	1.4
13	4.8	1.4	1.8	1.4	2.0	1.7	0.8	1.8	4.0	2.6	2.6	2.6	3.0	3.1	3.7	4.3	4.3	3.5	3.7	1.8	0.9	0.7	0.4	1.2	2.4	4.8	0.4
14	2.2	0.8	0.9	1.1	1.6	1.0	0.9	1.0	1.5	1.4	1.6	2.2	2.9	3.4	3.9	4.1	4.5	5.1	3.9	1.3	1.0	2.1	2.5	2.0	2.2	5.1	0.8
15	1.3	1.3	1.0	1.0	0.8	0.5	1.3	1.8	2.2	2.7	3.2	3.8	4.1	4.7	4.7	4.9	4.4	4.4	3.6	1.7	0.6	0.9	1.2	1.3	2.4	4.9	0.5
16	1.7	1.8	2.3	2.1	2.3	3.1	4.2	2.8	2.3	2.5	2.6	3.2	4.3	--	4.1	3.7	3.5	2.2	2.6	0.7	0.7	1.8	1.9	1.7	2.5	4.3	0.7
17	1.5	1.9	2.0	1.2	0.6	1.9	1.0	1.1	0.9	1.4	3.2	3.3	3.2	3.5	3.2	3.4	3.4	3.1	2.2	0.7	1.7	2.0	0.6	2.4	2.1	3.5	0.6
18	2.1	1.1	1.1	0.8	2.6	2.2	1.4	0.9	1.1	1.3	1.6	2.2	2.8	3.1	3.0	3.6	4.0	3.8	3.2	1.0	0.9	1.0	0.8	0.7	1.9	4.0	0.7
19	0.7	0.9	1.0	1.1	1.0	0.9	1.3	0.7	1.2	2.5	2.9	2.8	3.1	4.0	4.4	4.4	4.6	4.3	3.8	1.7	0.9	1.7	1.2	1.7	2.2	4.6	0.7
20	2.0	2.7	3.1	2.9	2.6	0.9	0.7	0.5	1.0	2.9	3.2	2.4	2.6	2.9	3.4	4.0	4.3	4.2	3.3	7.6	6.2	5.6	5.1	2.5	3.2	7.6	0.5
21	5.1	4.1	3.0	1.3	1.0	5.2	5.5	4.8	3.0	1.3	1.6	1.6	2.4	2.5	3.2	3.3	4.6	4.3	4.1	1.8	0.4	0.6	0.5	0.5	2.7	5.5	0.4
22	0.6	0.6	1.8	1.8	1.0	2.0	0.9	1.0	0.8	1.7	1.5	1.8	2.3	2.9	2.5	3.1	3.7	3.8	3.4	1.2	0.4	0.4	4.3	3.4	2.0	4.3	0.4
23	5.6	2.5	1.5	0.9	0.7	0.9	1.5	1.5	1.1	1.7	1.6	1.9	3.1	3.4	4.3	3.2	3.2	6.2	5.7	4.0	4.5	5.7	8.2	6.8	3.3	8.2	0.7
24	4.6	3.3	4.6	5.4	1.6	2.1	1.0	4.4	6.3	5.2	2.8	3.2	3.4	2.5	2.6	2.9	3.7	3.1	2.5	1.8	0.5	2.2	3.2	2.3	3.1	6.3	0.5
25	1.5	1.9	1.4	4.4	2.4	1.7	1.2	3.5	4.5	4.4	3.2	1.8	2.5	3.3	4.3	3.1	3.7	3.5	3.2	1.0	1.9	0.5	1.9	1.8	2.6	4.5	0.5
26	5.7	5.7	6.2	5.1	3.7	3.6	2.4	2.0	2.2	2.5	1.7	2.0	2.2	2.5	2.7	4.9	4.3	3.3	1.8	4.0	3.8	4.9	3.7	2.8	3.5	6.2	1.7
27	4.4	2.1	3.1	2.7	1.0	2.2	1.4	1.4	1.9	3.0	1.6	1.7	2.3	2.2	2.6	2.5	3.2	10.7	6.4	8.3	5.9	3.0	2.5	2.4	3.3	10.7	1.0
28	3.2	3.4	3.4	2.0	3.1	2.2	2.3	1.9	1.7	1.8	1.6	1.7	2.5	2.6	2.9	2.7	3.3	4.8	8.1	6.0	3.5	3.0	3.1	4.4	3.1	8.1	1.6
29	4.3	4.4	4.9	5.0	3.3	3.9	2.5	2.5	3.1	3.7	2.5	1.8	2.5	3.1	2.5	2.2	2.3	2.7	2.5	7.0	9.2	6.3	2.7	4.5	3.7	9.2	1.8
30	3.4	3.0	4.8	2.5	2.5	1.7	1.8	1.8	2.2	3.4	3.6	3.2	2.8	2.6	2.3	2.7	4.2	3.8	3.2	2.3	3.7	3.7	4.4	4.8	3.1	4.8	1.7
31	5.0	5.5	5.3	3.6	3.9	4.4	4.4	3.8	3.3	2.9	4.9	3.8	4.6	3.9	4.3	3.9	3.3	2.9	2.0	2.3	4.2	5.1	4.4	3.8	4.0	5.5	2.0
Avg	2.6	2.4	2.6	2.2	2.0	2.1	2.2	2.3	2.4	2.4	2.4	2.5	2.9	3.0	3.3	3.3	3.6	3.8	3.3	2.5	2.4	2.4	2.5	2.4	2.7	--	--
Max	5.7	5.7	6.4	5.4	4.5	5.3	8.9	8.9	7.7	5.6	5.8	5.6	4.6	4.7	4.7	4.9	4.6	10.7	8.1	8.3	9.5	7.1	8.2	6.8	--	10.7	--
Min	0.6	0.6	0.6	0.6	0.5	0.4	0.6	0.5	0.7	0.8	1.0	1.3	1.5	1.8	2.3	2.2	0.8	1.7	1.7	0.7	0.4	0.3	0.4	0.4	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table100, WS_ms_10m"
Month: Sep 2017

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	4.6	3.7	5.1	4.0	3.4	1.9	2.3	2.4	1.8	3.1	1.9	1.6	2.8	3.1	3.4	4.2	4.5	3.1	3.7	2.3	4.1	4.2	3.6	4.2	3.3	5.1	1.6
2	2.2	1.6	1.8	0.9	1.3	1.1	0.6	0.5	1.0	1.1	2.0	3.6	4.7	4.1	3.4	2.1	1.5	1.6	1.1	1.5	0.6	1.0	1.1	0.7	1.7	4.7	0.5
3	0.4	0.7	0.9	0.9	0.4	0.9	1.4	1.9	0.9	1.3	2.0	4.0	3.8	4.4	4.7	4.6	4.9	4.5	4.0	2.4	0.9	1.0	0.6	0.7	2.2	4.9	0.4
4	0.6	1.3	0.4	0.6	0.3	0.3	0.6	0.5	1.0	1.1	1.2	1.6	2.4	3.9	3.5	3.9	3.2	3.2	2.2	2.1	0.8	0.8	1.3	1.7	1.6	3.9	0.3
5	1.8	2.6	1.2	3.5	4.1	1.2	2.0	0.4	1.0	1.4	2.7	4.5	3.3	2.9	4.0	3.9	4.6	3.0	2.9	2.8	2.4	3.5	2.5	6.5	2.9	6.5	0.4
6	5.5	5.9	5.7	5.4	3.7	3.8	2.5	1.6	3.3	6.1	5.4	3.9	3.2	3.6	3.5	3.8	3.8	2.7	2.1	2.5	2.9	2.5	4.9	5.2	3.9	6.1	1.6
7	4.5	4.7	5.8	5.2	2.1	1.6	0.9	1.0	1.7	2.0	1.6	3.3	3.5	3.8	2.8	3.4	3.8	1.5	3.0	2.6	3.4	1.7	1.6	1.2	2.8	5.8	0.9
8	1.2	2.9	2.9	2.2	0.9	1.1	0.8	1.1	1.5	1.5	2.0	2.2	2.9	4.3	4.4	3.6	3.7	5.6	3.7	3.5	2.9	2.0	4.5	3.5	2.7	5.6	0.8
9	7.1	7.8	5.3	5.2	3.5	1.3	0.7	0.7	1.0	1.4	1.8	2.5	1.8	2.2	2.5	2.3	3.1	3.5	2.6	0.6	0.9	1.0	1.2	0.8	2.5	7.8	0.6
10	1.6	1.8	0.9	1.6	2.3	3.7	2.9	2.9	2.6	4.8	3.8	2.0	2.5	3.0	3.7	2.5	2.2	3.3	2.4	3.1	4.2	4.7	4.2	4.0	2.9	4.8	0.9
11	4.6	4.8	5.1	4.3	4.2	4.9	4.5	4.4	4.2	4.5	3.6	3.2	3.3	3.5	2.6	2.1	2.6	1.6	1.4	1.1	0.9	0.9	1.6	2.2	3.2	5.1	0.9
12	2.1	3.9	4.0	2.8	3.5	2.7	1.8	1.4	1.6	1.6	1.3	2.7	2.4	3.8	4.0	3.4	4.1	3.9	3.2	0.6	0.5	0.4	0.4	0.5	2.4	4.1	0.4
13	1.2	1.4	1.7	1.2	1.0	2.1	1.9	3.3	1.5	2.1	1.9	2.3	3.9	3.7	4.6	4.8	4.5	4.4	2.9	0.8	0.9	1.3	3.0	1.5	2.4	4.8	0.8
14	1.3	0.6	1.2	1.2	0.9	0.8	1.2	1.6	3.2	4.4	5.8	6.4	6.7	6.9	7.7	8.5	7.5	6.7	7.0	6.4	5.1	3.7	3.9	3.8	4.3	8.5	0.6
15	1.4	0.5	0.6	0.4	0.4	1.0	1.1	1.4	4.0	4.9	6.1	6.7	5.6	5.7	6.2	5.6	5.2	5.0	3.7	1.5	0.8	0.2	0.7	0.8	2.9	6.7	0.2
16	0.8	1.1	1.2	1.2	0.6	0.8	0.5	1.3	1.7	3.8	3.5	3.2	3.0	3.6	4.2	4.1	3.7	4.3	2.2	1.0	1.2	1.6	1.1	1.3	2.1	4.3	0.5
17	1.9	2.1	1.2	0.5	2.1	3.2	2.2	0.9	1.1	3.0	3.6	4.3	4.6	4.1	4.4	5.0	4.9	4.2	2.7	0.7	0.4	0.7	1.5	0.9	2.5	5.0	0.4
18	0.5	1.2	1.9	1.8	1.8	1.7	1.8	2.4	1.3	1.1	3.2	3.1	4.7	5.3	5.3	5.1	4.8	3.5	1.8	0.9	1.4	1.0	0.6	0.9	2.4	5.3	0.5
19	1.1	1.0	1.6	1.0	1.4	1.3	1.0	1.2	1.5	4.4	4.4	5.6	5.5	5.5	6.2	5.8	6.1	5.7	4.0	3.3	0.8	1.7	1.2	1.3	3.0	6.2	0.8
20	0.9	1.3	1.8	1.5	1.1	1.7	1.8	1.9	2.4	3.3	3.4	4.3	5.6	5.4	5.5	6.2	5.1	4.7	3.8	1.9	1.2	1.0	0.7	0.9	2.8	6.2	0.7
21	0.9	1.2	1.7	0.8	0.8	0.8	0.8	1.2	2.6	5.1	4.9	5.4	6.1	5.8	6.3	6.0	6.1	5.4	5.1	3.0	2.5	1.4	0.9	0.5	3.1	6.3	0.5
22	2.0	1.2	1.4	0.8	1.1	0.8	1.0	1.1	1.1	3.3	4.0	5.1	4.5	4.3	4.3	4.8	5.1	3.3	2.0	0.8	1.4	1.2	0.6	0.7	2.3	5.1	0.6
23	0.5	1.2	1.3	0.8	0.9	1.5	0.6	0.7	1.2	1.7	3.3	4.9	5.0	4.4	4.8	4.7	4.2	3.9	2.4	1.2	1.1	1.5	1.0	0.2	2.2	5.0	0.2
24	0.5	1.7	2.5	3.0	1.8	1.0	3.0	3.2	1.5	1.3	2.0	2.8	3.3	3.5	2.8	3.5	3.6	3.4	2.1	0.9	0.7	0.9	0.3	0.4	2.1	3.6	0.3
25	0.4	0.4	0.5	0.8	0.9	1.0	1.2	1.3	0.8	1.0	2.1	2.9	3.1	3.1	3.7	2.5	3.1	3.0	1.6	0.8	0.3	1.1	0.6	0.6	1.5	3.7	0.3
26	0.6	0.3	0.6	1.7	3.3	2.6	3.7	4.3	1.6	1.8	2.0	1.9	2.8	3.6	4.2	3.8	4.0	3.6	1.5	0.3	0.8	1.2	0.9	1.5	2.2	4.3	0.3
27	0.7	1.4	1.2	2.1	3.5	1.4	0.6	0.8	1.1	1.5	2.4	4.0	4.0	3.9	3.9	3.7	3.3	2.9	1.9	0.5	0.8	1.6	1.3	1.4	2.1	4.0	0.5
28	1.1	1.1	1.2	1.3	1.3	1.2	2.4	2.1	2.3	2.7	3.3	3.1	3.4	2.9	3.0	4.1	3.9	3.5	1.8	0.6	0.5	0.6	0.4	1.0	2.0	4.1	0.4
29	0.8	2.4	3.8	3.6	3.0	2.8	3.8	4.4	6.0	6.0	4.0	3.4	2.8	3.1	3.4	4.2	4.0	3.3	2.0	1.2	1.5	0.8	1.9	1.3	3.1	6.0	0.8
30	1.9	1.3	4.5	3.2	1.9	1.5	3.0	3.4	5.2	4.6	4.1	3.2	3.8	4.5	5.1	5.5	4.4	4.5	1.7	0.4	0.9	0.4	0.9	0.8	2.9	5.5	0.4
Avg	1.8	2.1	2.3	2.1	1.9	1.7	1.8	1.8	2.1	2.9	3.1	3.6	3.8	4.1	4.3	4.3	4.2	3.8	2.8	1.7	1.6	1.5	1.6	1.7	2.6	--	--
Max	7.1	7.8	5.8	5.4	4.2	4.9	4.5	4.4	6.0	6.1	6.1	6.7	6.7	6.9	7.7	8.5	7.5	6.7	7.0	6.4	5.1	4.7	4.9	6.5	--	8.5	--
Min	0.4	0.3	0.4	0.4	0.3	0.3	0.5	0.4	0.8	1.0	1.2	1.6	1.8	2.2	2.5	2.1	1.5	1.5	1.1	0.3	0.3	0.2	0.3	0.2	--	--	0.2

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, BP_mmHg"
Month: Jul 2017

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

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, BP_mmHg"
Month: Aug 2017

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

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, BP_mmHg"
Month: Sep 2017

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

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, DeltaT"
Month: Jul 2017

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	3.65	4.62	2.92	3.24	3.63	3.62	0.78	-0.56	-0.22	-0.80	-1.35	-1.51	-1.85	-1.88	-1.75	-1.82	-1.32	-0.87	0.04	2.79	2.06	1.03	3.21	1.49	0.80	4.62	-1.88
2	2.53	3.33	3.22	3.13	2.86	3.43	0.86	-0.54	-0.83	-1.03	-1.38	-1.61	-1.80	-1.94	-1.79	-1.62	-1.39	-0.86	0.01	1.30	4.19	3.28	1.55	0.89	0.66	4.19	-1.94
3	0.97	1.46	1.37	0.73	2.75	2.27	0.16	-0.63	-0.75	-1.14	-1.51	-1.73	-2.00	-1.98	-1.84	-1.68	-1.29	-0.84	-0.19	0.54	1.19	2.60	2.40	2.10	0.12	2.75	-2.00
4	1.78	2.74	2.61	1.69	2.07	1.96	0.71	-0.30	-0.76	-1.05	-1.54	-1.63	-1.90	-1.94	-1.92	-1.74	-1.44	-0.88	-0.12	0.76	1.54	4.03	2.63	3.06	0.43	4.03	-1.94
5	2.63	2.49	2.71	3.18	1.77	1.95	1.50	0.72	-0.69	-1.10	-1.44	-1.69	-1.98	-1.94	-1.84	-1.58	-1.37	-0.79	0.00	1.44	3.42	2.62	2.95	3.38	0.68	3.42	-1.98
6	3.33	3.12	2.99	2.22	2.49	2.40	1.08	-0.09	-0.88	-1.13	-1.18	-1.63	-1.93	-2.08	-1.96	-1.65	-1.39	-0.91	0.37	0.98	1.46	2.45	3.11	2.75	0.58	3.33	-2.08
7	2.41	2.92	2.14	1.76	3.89	1.38	0.47	-0.37	-0.80	-1.17	-1.38	-1.51	-1.49	-1.70	-1.67	-1.16	-1.01	-0.02	0.23	0.41	0.57	0.85	3.01	0.72	0.35	3.89	-1.70
8	0.64	1.30	1.09	0.40	0.96	3.26	0.83	-0.51	-0.97	-1.20	-1.41	-1.41	-1.64	-0.85	-1.31	0.58	-0.35	-0.34	0.20	3.19	3.91	1.40	0.41	0.70	0.37	3.91	-1.64
9	1.42	2.01	1.52	1.50	0.75	1.13	0.35	0.47	-0.26	-0.67	-1.56	-1.70	-1.78	-1.84	-2.03	-1.88	-1.02	0.09	0.18	0.35	0.07	0.04	2.52	2.10	0.07	2.52	-2.03
10	1.84	1.67	2.67	2.54	1.69	1.46	0.65	-0.33	-0.70	-0.97	-1.42	-1.46	-1.85	-2.09	-1.94	-1.65	-1.37	-1.11	-0.50	0.39	0.57	0.15	0.01	0.15	-0.07	2.67	-2.09
11	0.43	0.45	0.52	0.64	0.80	0.23	--	--	-0.43	-0.54	-0.42	-0.38	-0.23	-0.20	-0.48	-0.05	-0.23	-0.18	0.08	-0.02	0.55	0.90	0.41	0.74	0.12	0.90	-0.54
12	1.15	2.14	1.64	1.73	1.84	1.70	0.19	-0.74	-0.83	-0.85	-1.75	-1.99	-2.25	-2.02	-1.92	-1.81	-1.43	-0.70	-0.07	0.40	1.81	1.47	1.89	1.12	0.03	2.14	-2.25
13	0.25	1.62	1.90	1.43	1.56	1.57	-0.06	-0.60	-0.90	-1.25	-1.56	-1.70	-2.04	-2.06	-1.89	-1.81	-1.49	-1.02	-0.40	1.35	2.35	0.54	0.12	0.38	-0.16	2.35	-2.06
14	0.68	1.94	1.99	1.50	1.51	1.92	0.50	-0.88	-0.76	-1.38	-1.51	-1.76	-1.96	-1.99	-2.00	-1.43	-1.39	0.99	0.28	0.44	0.67	0.66	0.78	0.76	-0.02	1.99	-2.00
15	0.73	0.91	0.62	0.73	0.52	0.28	-0.24	-0.53	-0.71	-0.92	-0.88	-1.20	-1.32	-1.34	-1.73	-1.69	-0.44	0.34	0.29	0.47	0.88	0.76	0.48	0.40	-0.15	0.91	-1.73
16	0.67	0.81	0.75	0.59	0.51	0.54	0.04	-0.18	-0.52	-0.93	-1.09	-1.30	-1.32	-1.48	-1.40	-1.38	-1.18	0.50	0.84	0.33	0.87	0.94	0.79	0.65	-0.08	0.94	-1.48
17	0.03	0.21	0.05	0.24	0.48	0.59	-0.11	-0.07	-0.49	-0.74	-0.81	-1.01	-1.30	-1.31	-1.20	-1.20	-1.15	-0.83	-0.02	0.10	0.15	0.69	0.81	0.13	-0.28	0.81	-1.31
18	0.33	0.29	0.24	0.26	0.61	0.44	0.18	-0.33	-0.65	-0.68	-0.89	-0.89	-1.15	-1.06	-0.17	0.43	0.18	-0.05	0.13	0.67	0.31	0.39	0.69	0.79	0.00	0.79	-1.15
19	1.00	0.87	0.95	0.51	0.56	0.80	-0.34	-0.56	-0.78	-0.79	-1.08	-1.29	-1.05	-1.37	-0.85	0.29	0.28	0.20	0.11	0.53	1.16	1.57	0.83	0.26	0.07	1.57	-1.37
20	0.09	0.23	0.65	0.70	0.18	0.19	0.16	-0.23	-0.37	-0.57	-1.40	-1.25	-1.18	-1.20	-0.61	-0.96	-0.93	-0.45	0.03	-0.03	0.04	0.26	0.16	0.09	-0.27	0.70	-1.40
21	0.28	0.41	0.38	0.83	0.71	0.97	-0.14	-0.68	-0.81	-1.02	-1.17	-1.31	-1.07	-1.27	-1.39	-1.13	-0.10	0.58	0.18	0.19	0.23	0.29	0.34	0.65	-0.17	0.97	-1.39
22	0.82	1.04	0.99	0.75	0.47	0.75	-0.07	-0.22	-0.43	-0.62	-0.54	-0.64	-0.75	-0.78	-0.60	-0.39	0.04	0.05	0.00	0.28	0.97	0.28	0.32	0.43	0.09	1.04	-0.78
23	0.87	0.83	0.73	1.08	1.05	1.18	0.22	0.04	-0.38	-0.53	-0.54	-0.68	-0.52	-0.76	-0.81	-0.64	-0.16	0.23	0.15	0.34	0.34	0.36	0.30	0.33	0.13	1.18	-0.81
24	0.39	0.36	0.22	0.24	0.21	0.20	0.08	0.00	-0.09	-0.03	-0.21	-0.84	-0.77	-0.39	-0.05	0.41	-0.12	-0.18	-0.02	0.31	0.92	0.72	0.88	0.92	0.13	0.92	-0.84
25	0.79	0.61	0.69	0.83	0.97	1.13	0.08	-0.32	-0.50	-0.66	-0.10	-0.62	0.15	0.11	-0.41	-0.44	-0.27	0.09	1.01	2.61	1.73	1.58	0.87	0.71	0.44	2.61	-0.66
26	1.18	0.79	1.17	0.67	1.25	0.63	-0.01	-0.52	-0.57	-0.40	-0.35	-0.45	-0.15	-0.46	-0.30	-0.24	0.11	0.43	1.01	2.08	2.87	1.18	1.64	1.40	0.54	2.87	-0.57
27	1.43	1.10	1.51	1.18	1.45	1.41	0.23	-0.05	-0.24	-0.12	-0.24	-0.35	-0.14	-0.17	0.01	0.39	1.81	1.33	0.48	0.54	0.40	0.28	0.12	0.22	0.52	1.81	-0.35
28	0.75	0.40	0.35	0.75	0.82	0.32	0.15	-0.11	-0.51	-0.60	-0.44	-0.76	-0.75	-0.64	-0.52	-0.45	-0.15	-0.06	1.25	1.59	0.82	0.48	0.85	0.51	0.17	1.59	-0.76
29	1.23	1.01	1.24	1.30	0.90	0.75	0.43	-0.26	-0.37	-0.30	-0.47	-0.17	-0.79	-0.55	0.53	0.49	0.02	0.61	0.17	0.39	0.79	0.84	0.86	1.79	0.44	1.79	-0.79
30	1.58	1.39	1.02	1.19	0.99	0.53	0.42	0.35	0.09	-0.21	-0.45	-0.56	-0.93	-0.86	-0.77	-0.85	-0.39	0.17	1.45	2.48	1.59	0.67	1.03	0.89	0.45	2.48	-0.93
31	0.60	1.07	0.96	0.87	1.92	0.77	0.43	-0.21	-0.17	-0.34	-0.40	-0.47	-0.50	-0.50	-0.46	-0.29	-0.22	0.16	0.60	1.04	1.08	0.60	0.68	0.52	0.32	1.92	-0.50
Avg	1.18	1.42	1.35	1.24	1.36	1.28	0.32	-0.27	-0.56	-0.77	-0.98	-1.14	-1.23	-1.24	-1.13	-0.87	-0.62	-0.14	0.25	0.91	1.27	1.09	1.18	1.00	0.20	--	--
Max	3.65	4.62	3.22	3.24	3.89	3.62	1.50	0.72	0.09	-0.03	-0.10	-0.17	0.15	0.11	0.53	0.58	1.81	1.33	1.45	3.19	4.19	4.03	3.21	3.38	--	4.62	--
Min	0.03	0.21	0.05	0.24	0.18	0.19	-0.34	-0.88	-0.97	-1.38	-1.75	-1.99	-2.25	-2.09	-2.03	-1.88	-1.49	-1.11	-0.50	-0.03	0.04	0.04	0.01	0.09	--	--	-2.25

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, DeltaT"
Month: Aug 2017

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	0.40	0.46	0.69	0.46	0.49	1.21	0.50	0.33	0.03	-0.15	-0.42	-0.91	-0.51	-0.57	-0.52	-0.27	0.22	0.28	0.28	0.94	1.09	0.91	1.10	0.87	0.29	1.21	-0.91
2	0.64	0.63	0.53	0.46	0.57	0.72	0.65	0.22	0.20	-0.02	-0.12	-0.08	-0.19	-0.19	0.16	0.64	0.90	0.54	0.47	1.33	0.74	0.93	0.63	0.55	0.45	1.33	-0.19
3	0.84	0.71	0.65	0.60	0.54	0.49	0.35	-0.03	-0.39	-0.40	-0.22	-0.17	-0.37	-0.37	-0.23	-0.44	-0.40	0.35	0.89	0.37	0.50	0.36	0.50	0.79	0.21	0.89	-0.44
4	1.11	1.52	0.92	0.89	0.76	0.93	0.36	-0.58	-0.03	-0.33	-0.42	-0.46	-0.50	-0.49	-0.47	-0.31	-0.01	0.37	1.44	3.96	2.02	2.34	2.27	1.79	0.71	3.96	-0.58
5	1.36	0.98	1.46	1.04	1.06	1.79	0.64	-0.35	-0.46	-0.51	-0.42	-0.51	-0.54	-0.40	-0.36	-0.09	0.07	0.55	1.38	3.96	2.21	2.48	2.36	1.90	0.82	3.96	-0.54
6	2.77	2.48	2.80	2.16	2.03	2.08	0.85	-0.13	-0.31	-0.50	-0.32	-0.37	-0.35	-0.29	-0.37	-0.19	-0.01	0.40	1.60	4.00	1.90	3.49	2.18	1.97	1.16	4.00	-0.50
7	3.25	2.58	2.50	2.94	2.20	2.67	1.01	-0.30	-0.17	-0.18	0.00	-0.30	-0.35	-0.36	-0.26	-0.11	0.23	0.67	2.35	5.03	2.66	3.27	2.20	2.76	1.43	5.03	-0.36
8	2.05	3.51	2.57	3.26	1.85	3.16	1.65	-0.19	-0.26	0.00	-0.02	-0.14	0.09	0.01	-0.13	-0.07	0.29	0.71	1.98	5.06	3.24	3.30	3.45	3.09	1.60	5.06	-0.26
9	3.27	2.91	3.16	3.11	2.94	1.55	1.22	0.16	0.51	-0.08	-0.43	-0.02	-0.18	-0.22	-0.20	0.02	0.33	0.86	1.95	4.13	3.51	3.51	2.23	2.55	1.53	4.13	-0.43
10	3.69	3.73	2.02	2.13	2.29	1.50	0.72	1.93	1.68	1.09	0.36	0.11	0.10	0.06	-0.02	-0.18	-0.02	0.48	0.56	0.78	0.17	0.16	0.17	0.32	0.99	3.73	-0.18
11	0.81	0.94	1.04	0.39	0.34	0.43	0.33	0.01	-0.25	-0.40	-0.68	-0.72	-0.58	-0.53	-0.13	-0.17	0.01	0.45	1.17	3.07	3.93	2.13	3.25	3.36	0.76	3.93	-0.72
12	2.50	2.10	2.18	2.15	1.40	0.96	0.40	0.15	0.56	0.44	0.19	-0.28	-0.64	-0.59	-0.23	-0.24	-0.08	0.49	1.67	3.85	2.42	1.78	1.06	1.05	0.97	3.85	-0.64
13	0.18	0.14	0.28	0.14	0.24	0.62	0.33	-0.14	-0.63	-0.34	-0.27	-0.70	-0.70	-0.65	-0.59	-0.45	-0.06	0.41	1.13	1.80	2.07	1.49	1.74	1.43	0.31	2.07	-0.70
14	1.17	1.31	1.26	1.25	1.29	1.55	0.63	-0.22	-0.27	-0.38	-0.60	-0.82	-0.79	-0.71	-0.64	-0.53	-0.09	0.36	1.38	4.15	2.50	2.92	3.33	3.12	0.88	4.15	-0.82
15	2.12	2.34	3.20	2.36	2.21	2.15	1.01	-0.29	-0.10	-0.08	-0.36	-0.67	-0.76	-0.83	-0.68	-0.49	-0.16	0.36	1.32	4.25	3.37	2.18	3.30	2.95	1.20	4.25	-0.83
16	3.74	2.94	2.87	2.90	2.96	3.41	1.84	0.34	-0.03	-0.53	-0.54	-0.66	-0.80	-0.71	-0.67	-0.53	-0.20	0.32	1.41	5.07	2.77	4.30	3.90	3.46	1.57	5.07	-0.80
17	3.61	3.70	3.76	3.43	3.00	3.41	1.90	0.04	-0.12	-0.29	-0.47	-0.49	-0.71	-0.78	-0.68	-0.36	-0.14	0.37	2.66	5.16	3.35	4.03	3.02	2.73	1.67	5.16	-0.78
18	3.30	4.01	3.59	3.70	2.77	3.02	1.99	0.38	-0.09	-0.01	-0.22	-0.52	-0.52	-0.77	-0.64	-0.48	-0.14	0.46	1.59	3.73	2.18	3.54	3.42	2.47	1.53	4.01	-0.77
19	3.92	2.57	2.97	2.16	3.10	2.88	2.21	0.90	1.03	0.29	-0.45	-0.64	-0.23	0.18	-0.53	-0.56	-0.08	0.35	1.06	3.07	3.69	2.63	3.21	2.90	1.53	3.92	-0.64
20	2.50	2.59	2.31	2.85	3.01	2.98	2.46	1.04	0.44	-0.37	-0.66	-0.87	-0.80	-0.96	-0.88	-0.71	0.00	0.82	1.06	0.66	0.27	0.89	1.51	1.50	0.90	3.01	-0.96
21	0.78	0.50	0.45	1.28	2.12	1.60	1.34	-0.18	-0.47	-0.46	0.42	-0.18	-0.75	-0.97	-0.89	-0.60	-0.32	0.18	0.94	2.67	4.36	1.76	3.23	2.55	0.81	4.36	-0.97
22	2.80	2.13	2.61	3.21	2.57	2.31	2.41	0.09	0.39	0.06	-0.45	-0.62	-0.86	-0.83	-0.83	-0.57	-0.35	0.41	1.32	2.92	3.82	1.87	2.57	2.46	1.23	3.82	-0.86
23	3.09	3.04	2.02	2.14	1.93	2.04	1.65	0.46	0.47	-0.43	-0.57	-0.80	-0.97	-0.09	-0.20	0.25	0.58	0.31	0.10	0.33	0.29	0.13	0.18	0.26	0.68	3.09	-0.97
24	0.48	0.28	0.32	0.32	0.39	0.60	0.42	-0.19	-0.40	-0.59	-0.80	-0.93	-0.82	-0.97	-0.92	-1.03	-0.50	0.07	1.18	2.39	3.15	1.91	2.73	1.96	0.38	3.15	-1.03
25	1.20	1.10	0.88	1.06	0.88	0.77	0.62	-0.04	-0.35	-0.59	-0.88	-1.11	-1.09	-0.20	-0.11	-0.31	-0.40	0.47	1.01	1.75	2.34	3.10	3.30	3.15	0.69	3.30	-1.11
26	2.62	3.24	4.07	4.16	3.80	2.02	0.93	0.12	-0.38	-0.56	-0.72	-0.71	-0.89	-0.87	-0.68	-0.33	0.07	2.97	1.27	0.89	1.24	0.91	1.30	2.85	1.14	4.16	-0.89
27	1.25	1.66	1.94	1.42	1.94	2.44	0.70	-0.19	-0.20	-0.09	-0.65	-0.75	-0.79	-0.93	-0.89	-0.93	-0.01	1.94	2.92	1.98	1.29	2.97	1.98	3.10	0.92	3.10	-0.93
28	2.86	3.02	2.57	4.05	3.43	3.01	1.19	0.52	0.08	-0.32	-0.61	-0.70	-0.83	-0.72	-0.25	-0.47	0.76	0.55	0.26	0.22	0.58	1.88	1.35	2.90	1.05	4.05	-0.83
29	1.61	1.26	0.64	2.35	2.21	2.21	1.03	0.11	-0.25	-0.53	-0.74	-0.86	-0.88	-1.09	-1.07	-0.94	-0.44	0.12	1.01	0.98	0.36	0.36	0.85	0.35	0.36	2.35	-1.09
30	0.30	0.53	0.77	0.73	0.87	1.21	0.92	-0.06	-0.46	-0.78	-1.25	-1.46	-1.30	-1.15	-1.35	-0.95	-0.31	-0.28	0.60	3.42	4.52	5.34	2.85	4.97	0.74	5.34	-1.46
31	2.60	4.74	4.94	5.48	4.40	1.94	3.13	0.67	-0.29	-0.74	-1.10	-1.39	-1.49	-1.29	-1.28	-0.98	-0.58	-0.03	0.77	3.94	3.26	4.54	3.17	1.61	1.50	5.48	-1.49
Avg	2.03	2.05	2.00	2.08	1.92	1.86	1.14	0.15	-0.02	-0.25	-0.43	-0.61	-0.65	-0.59	-0.53	-0.40	-0.03	0.53	1.25	2.77	2.25	2.30	2.20	2.18	0.97	--	--
Max	3.92	4.74	4.94	5.48	4.40	3.41	3.13	1.93	1.68	1.09	0.42	0.11	0.10	0.18	0.16	0.64	0.90	2.97	2.92	5.16	4.52	5.34	3.90	4.97	--	5.48	--
Min	0.18	0.14	0.28	0.14	0.24	0.43	0.33	-0.58	-0.63	-0.78	-1.25	-1.46	-1.49	-1.29	-1.35	-1.03	-0.58	-0.28	0.10	0.22	0.17	0.13	0.17	0.26	--	--	-1.49

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, DeltaT"
Month: Sep 2017

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	2.05	2.91	5.42	5.60	6.39	4.32	4.41	0.41	-0.29	-0.67	-1.17	-1.02	-1.31	-1.13	-1.03	-1.08	-0.73	-0.18	0.68	4.08	4.65	4.42	2.49	1.77	1.71	6.39	-1.31
2	1.71	2.82	2.86	3.01	2.57	2.12	0.96	-0.39	-0.52	-0.89	-1.11	-0.56	-0.85	-0.24	-0.29	-0.01	0.03	0.28	1.82	3.01	2.66	1.84	1.94	2.22	1.04	3.01	-1.11
3	1.81	1.46	1.73	2.37	2.13	1.64	1.35	-0.12	-0.52	-0.48	-0.95	-1.21	-1.27	-1.49	-1.57	-1.28	-0.76	0.05	0.49	0.97	2.84	2.82	3.04	2.03	0.63	3.04	-1.57
4	3.05	1.66	1.59	1.77	2.22	2.26	1.18	-0.45	-0.42	-0.81	-1.04	-1.13	-1.56	-1.63	-1.42	-0.62	-0.40	0.70	0.59	0.82	1.41	1.80	2.75	2.01	0.60	3.05	-1.63
5	2.87	2.81	2.55	2.92	2.69	1.54	1.56	-0.06	-0.50	-0.64	-1.06	-1.24	-1.46	-1.75	-1.47	-1.03	-0.45	0.45	1.03	1.05	3.45	2.33	2.29	3.44	0.89	3.45	-1.75
6	2.83	4.55	3.83	2.92	2.92	4.32	1.53	0.21	-0.38	-0.78	-1.20	-1.28	-1.27	-1.17	-1.14	-0.74	-0.45	0.11	2.26	3.52	2.36	3.18	3.02	3.75	1.37	4.55	-1.28
7	3.24	3.86	3.61	4.02	2.90	3.42	2.62	1.56	-0.27	-0.74	-0.90	-1.00	-1.33	-1.33	-1.43	-1.07	-0.57	0.23	0.41	0.04	0.61	1.21	1.81	1.50	0.93	4.02	-1.43
8	1.47	1.14	2.01	2.56	1.87	1.85	1.91	0.09	-0.15	-0.67	-0.92	-0.89	-1.32	-1.66	-1.60	-1.31	-0.88	-0.14	-0.21	-0.12	0.21	0.25	0.25	0.58	0.18	2.56	-1.66
9	0.20	0.16	0.30	0.26	0.23	0.80	0.70	-0.02	-0.43	-0.63	-1.07	-1.34	-1.54	-1.16	-1.58	-1.32	-0.81	0.18	0.51	1.09	2.66	2.18	2.17	1.85	0.14	2.66	-1.58
10	1.28	0.96	2.04	1.43	1.92	1.24	1.68	0.06	-0.39	-0.75	-0.98	-1.22	-1.46	-1.29	-1.15	-0.64	-0.41	0.03	1.83	3.93	4.08	3.62	3.14	3.31	0.93	4.08	-1.46
11	3.43	1.24	0.54	1.72	3.86	3.90	1.06	-0.04	-0.34	-0.68	-1.25	-1.40	-1.31	-1.12	-1.26	-1.32	-0.79	0.42	1.54	3.89	2.90	2.52	2.80	1.71	0.92	3.90	-1.40
12	1.79	2.40	2.84	2.38	3.31	3.63	3.06	1.08	-0.41	-0.76	-0.94	-1.28	-1.53	-1.66	-1.75	-1.28	-0.58	0.30	1.36	3.86	2.64	2.99	2.62	1.96	1.08	3.86	-1.75
13	2.06	3.06	2.62	2.59	3.15	2.53	2.07	0.58	-0.11	-0.71	-0.84	-1.48	-1.76	-1.75	-1.70	-1.33	-0.65	0.15	1.38	1.85	0.95	2.05	1.02	2.05	0.74	3.15	-1.76
14	2.33	2.03	1.83	1.64	2.12	1.60	2.10	0.92	-0.28	-0.82	-1.19	-1.62	-1.66	-1.56	-0.76	-0.58	-0.44	0.08	0.33	0.50	0.45	0.65	1.15	1.06	0.41	2.33	-1.66
15	1.57	2.36	2.26	2.60	2.12	2.06	1.30	-0.13	-0.49	-0.95	-1.29	-1.62	-1.73	-1.85	-1.68	-1.45	-0.85	-0.12	0.79	2.94	2.59	0.88	1.06	2.19	0.52	2.94	-1.85
16	1.09	2.04	2.69	3.07	2.65	2.53	2.16	-0.23	-0.50	-0.98	-1.31	-1.34	-1.27	-1.47	-1.60	-1.28	-0.84	0.03	2.38	3.71	2.17	3.41	2.81	1.91	0.91	3.71	-1.60
17	2.10	1.91	2.23	3.05	2.39	2.41	1.90	-0.25	-0.53	-0.73	-1.26	-1.58	-1.76	-1.86	-1.62	-1.32	-0.82	0.13	2.90	3.60	3.07	3.16	3.33	2.27	0.95	3.60	-1.86
18	2.03	3.19	3.04	2.77	2.85	2.77	2.71	-0.12	-0.38	-0.79	-0.96	-1.38	-1.77	-1.84	-1.72	-1.32	-0.68	0.34	3.99	3.46	3.49	3.56	2.80	2.75	1.20	3.99	-1.84
19	2.55	2.10	3.02	3.07	2.66	2.92	2.51	-0.23	-0.62	-0.82	-1.36	-1.68	-1.98	-1.76	-1.62	-1.29	-0.64	0.01	0.53	0.76	1.47	2.01	3.66	2.69	0.75	3.66	-1.98
20	3.02	2.96	2.65	2.84	2.54	2.85	3.00	-0.07	-0.61	-0.90	-1.25	-1.71	-1.69	-1.86	-1.63	-1.19	-0.66	0.19	1.22	2.73	2.41	4.47	2.90	2.99	1.05	4.47	-1.86
21	2.86	2.73	2.94	3.32	3.76	2.28	2.57	-0.06	-0.59	-0.74	-1.25	-1.64	-1.76	-1.85	-1.52	-1.33	-0.72	-0.02	0.63	1.20	2.37	4.18	2.38	1.89	0.90	4.18	-1.85
22	1.44	1.06	0.87	0.60	1.67	2.27	1.92	0.38	-0.57	-1.04	-1.52	-1.82	-1.67	-1.86	-1.80	-1.45	-0.95	-0.07	2.01	2.15	0.83	0.89	1.19	2.53	0.29	2.53	-1.86
23	1.58	1.86	2.03	2.52	2.91	3.32	2.23	-0.21	-0.48	-1.00	-1.34	-1.81	-2.04	-1.87	-1.84	-1.45	-0.89	0.04	2.02	4.03	3.79	0.95	1.36	2.76	0.77	4.03	-2.04
24	2.33	2.90	2.72	3.37	3.03	2.07	1.55	-0.27	-0.58	-0.92	-1.45	-1.73	-1.88	-1.79	-1.67	-1.43	-0.78	0.03	1.79	4.39	1.75	2.61	3.49	3.11	0.94	4.39	-1.88
25	3.22	3.24	2.65	2.93	1.97	3.73	2.55	-0.08	-0.53	-0.81	-1.52	-1.71	-1.91	-1.76	-1.54	-1.25	-0.77	0.29	3.51	3.21	2.57	3.79	3.58	2.93	1.18	3.79	-1.91
26	2.88	2.74	3.25	3.05	3.20	3.39	2.52	0.07	-0.48	-0.96	-1.13	-1.10	-1.38	-1.72	-1.86	-1.31	-0.47	0.45	2.11	3.69	1.48	0.94	1.20	2.13	0.95	3.69	-1.86
27	2.09	2.33	2.01	2.61	2.30	2.00	2.51	0.29	-0.40	-0.83	-1.19	-1.54	-1.94	-1.71	-1.73	-1.32	-0.80	0.36	1.96	3.24	1.77	3.33	3.55	1.52	0.85	3.55	-1.94
28	0.80	1.26	0.92	0.67	0.64	0.68	0.62	-0.15	-0.45	-0.90	-1.37	-1.41	-0.48	-1.20	-1.58	-1.40	-0.76	0.21	1.48	3.71	2.58	2.50	2.88	3.13	0.52	3.71	-1.58
29	2.10	1.42	1.23	0.91	0.72	1.10	1.29	0.00	-0.72	-1.09	-1.34	-1.25	-1.69	-1.69	-1.76	-1.42	-0.73	0.16	2.75	3.27	2.96	2.95	3.03	3.35	0.65	3.35	-1.76
30	2.79	2.56	2.81	2.05	2.05	1.64	2.82	0.01	-0.57	-1.03	-1.33	-1.50	-1.95	-1.83	-1.81	-1.27	-0.65	0.44	3.37	3.86	2.58	2.96	2.34	3.20	0.98	3.86	-1.95
Avg	2.15	2.26	2.37	2.49	2.52	2.44	2.01	0.09	-0.45	-0.82	-1.18	-1.38	-1.55	-1.56	-1.50	-1.17	-0.66	0.17	1.58	2.61	2.32	2.48	2.40	2.35	0.83	--	--
Max	3.43	4.55	5.42	5.60	6.39	4.32	4.41	1.56	-0.11	-0.48	-0.84	-0.56	-0.48	-0.24	-0.29	-0.01	0.03	0.70	3.99	4.39	4.65	4.47	3.66	3.75	--	6.39	--
Min	0.20	0.16	0.30	0.26	0.23	0.68	0.62	-0.45	-0.72	-1.09	-1.52	-1.82	-2.04	-1.87	-1.86	-1.45	-0.95	-0.18	-0.21	-0.12	0.21	0.25	0.25	0.58	--	--	-2.04

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, RH_percent"
Month: Jul 2017

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

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, RH_percent"
Month: Aug 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	43	53	65	59	52	65	78	88	90	88	75	60	52	44	43	52	60	88	87	86	80	73	73	69	68	90	43
2	60	60	56	55	56	60	64	60	77	81	68	55	49	49	52	57	60	64	72	81	84	89	89	88	66	89	49
3	91	90	92	90	90	93	94	88	69	55	53	49	43	35	32	35	33	40	55	62	66	66	71	74	65	94	32
4	78	85	89	90	89	91	82	66	58	49	44	41	38	36	33	33	33	33	36	60	64	66	72	73	60	91	33
5	57	62	68	66	65	73	71	54	45	41	38	35	33	30	28	27	28	26	29	42	50	54	60	60	48	73	26
6	65	70	75	78	78	80	70	52	40	32	29	25	22	21	19	19	20	21	25	37	44	56	52	53	45	80	19
7	61	62	60	65	64	70	63	48	38	27	27	24	23	21	19	17	15	17	20	34	33	41	41	46	39	70	15
8	44	53	50	63	61	65	58	42	31	22	19	16	17	17	17	18	18	19	22	30	40	45	49	53	36	65	16
9	55	55	56	56	54	47	42	36	30	20	19	17	17	17	17	17	17	18	20	25	33	41	41	46	33	56	17
10	50	53	51	54	61	49	36	53	58	50	41	32	29	24	21	20	19	20	21	23	38	46	46	46	39	61	19
11	51	51	45	36	39	42	42	40	33	30	28	27	26	25	24	24	26	27	28	34	46	45	52	57	37	57	24
12	55	54	53	55	48	53	66	61	56	81	72	60	49	43	38	35	36	36	41	53	58	59	47	50	52	81	35
13	91	93	93	95	95	94	91	84	63	50	47	47	44	45	41	38	36	35	38	44	50	65	71	74	63	95	35
14	73	77	78	80	81	83	78	61	47	43	41	39	38	35	33	32	29	26	29	40	49	57	64	70	54	83	26
15	68	73	73	63	68	75	63	49	37	31	30	28	26	26	25	25	23	21	24	35	47	46	55	61	45	75	21
16	67	73	74	74	70	70	58	42	30	23	22	21	20	17	18	19	17	17	18	30	35	43	48	53	40	74	17
17	61	64	61	56	55	58	51	35	25	18	17	15	15	13	11	10	10	9	14	27	30	35	36	36	32	64	9
18	41	47	51	51	51	52	49	37	25	17	17	17	15	14	13	12	13	13	14	20	27	34	39	39	29	52	12
19	45	41	43	46	52	55	52	41	36	26	23	20	20	20	17	17	18	18	19	23	31	34	38	45	33	55	17
20	43	44	49	53	56	60	61	56	46	37	35	30	26	24	23	23	24	26	23	34	36	33	38	42	38	61	23
21	41	39	37	40	47	51	51	39	32	29	32	31	27	25	24	23	24	24	24	28	36	36	44	45	35	51	23
22	47	47	49	53	54	57	58	43	34	29	25	22	21	20	19	18	18	19	20	25	34	32	37	63	35	63	18
23	79	82	80	80	79	79	80	60	48	35	31	29	25	26	24	23	24	27	34	33	36	39	42	43	47	82	23
24	41	40	52	48	49	51	53	47	43	38	33	27	24	24	23	23	24	24	27	32	35	38	43	44	37	53	23
25	43	43	45	44	44	45	43	33	28	25	23	22	20	20	20	19	18	19	19	20	27	33	38	43	31	45	18
26	40	46	48	47	52	45	44	37	28	25	23	22	20	17	16	19	29	43	35	46	45	33	38	49	35	52	16
27	49	50	53	49	54	64	54	42	35	32	25	22	21	20	17	17	23	63	64	45	31	42	41	43	40	64	17
28	44	54	58	61	58	56	55	48	30	26	23	21	19	18	18	17	19	19	21	21	22	29	29	36	33	61	17
29	32	31	30	40	44	44	40	31	27	24	22	20	18	18	17	16	16	18	20	21	20	21	23	23	26	44	16
30	25	26	31	31	30	32	35	31	25	23	20	19	19	18	17	16	14	11	12	19	26	30	21	30	23	35	11
31	28	34	41	43	35	25	38	32	20	16	14	12	11	11	11	11	11	11	12	22	26	34	33	31	23	43	11
Avg	54	56	58	59	59	61	59	50	41	36	33	29	27	25	23	24	24	27	30	37	41	45	47	51	42	--	--
Max	91	93	93	95	95	94	94	88	90	88	75	60	52	49	52	57	60	88	87	86	84	89	89	88	--	95	--
Min	25	26	30	31	30	25	35	31	20	16	14	12	11	11	11	10	10	9	12	19	20	21	21	23	--	--	9

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, RH_percent"
Month: Sep 2017

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	33	38	40	40	42	31	36	21	18	15	13	13	12	11	11	11	11	11	12	20	26	30	24	24	23	42	11
2	23	28	38	48	53	54	54	46	45	35	22	16	15	16	17	18	17	17	29	38	39	39	44	49	33	54	15
3	51	52	54	61	65	66	65	53	42	36	29	28	27	22	20	21	23	24	27	29	37	43	46	47	40	66	20
4	53	56	60	63	68	72	69	55	52	48	43	40	34	30	27	25	25	25	26	28	30	32	36	42	43	72	25
5	48	50	52	56	61	60	58	45	32	23	20	17	17	16	16	16	15	18	18	18	25	26	28	34	32	61	15
6	33	32	37	40	40	41	28	25	22	19	17	15	14	13	12	11	11	12	17	21	23	30	31	35	24	41	11
7	38	38	35	41	42	46	48	41	28	27	22	19	18	18	19	19	20	22	26	36	35	33	35	38	31	48	18
8	39	38	41	50	52	53	56	45	34	31	29	27	25	27	28	26	27	29	46	60	67	64	58	54	42	67	25
9	51	62	65	57	54	58	60	53	46	41	35	32	31	31	29	29	31	34	35	38	46	50	55	56	45	65	29
10	56	54	60	58	60	56	53	38	33	30	27	25	22	20	18	18	18	18	21	32	35	41	43	44	37	60	18
11	41	26	26	27	40	45	28	24	22	20	18	17	17	16	15	14	15	16	21	27	31	33	36	35	25	45	14
12	37	40	43	44	48	48	49	38	23	17	16	15	14	14	14	14	15	16	19	24	29	32	34	34	28	49	14
13	37	41	44	46	49	51	52	39	27	22	20	19	18	17	16	17	18	19	22	24	26	32	33	42	30	52	16
14	47	50	52	51	53	54	57	45	31	27	24	23	22	20	21	21	24	25	25	28	30	34	38	40	35	57	20
15	41	45	55	59	59	60	59	46	37	35	31	32	26	22	21	21	21	21	22	29	34	30	26	30	36	60	21
16	28	28	27	36	43	46	48	38	33	37	34	31	27	23	19	19	20	22	27	36	34	39	41	39	32	48	19
17	42	42	43	51	51	52	51	37	29	28	28	26	23	22	20	18	17	17	23	31	34	36	40	37	33	52	17
18	40	43	46	50	50	53	54	34	24	17	15	12	12	10	10	10	9	10	18	22	23	28	27	29	27	54	9
19	31	32	36	42	43	49	49	38	30	33	33	32	29	26	17	17	13	14	16	11	9	7	15	18	27	49	7
20	20	25	28	36	40	45	47	37	34	36	30	24	21	20	16	13	11	11	12	11	10	17	21	24	24	47	10
21	26	30	35	35	38	33	36	26	22	26	17	17	19	17	13	13	14	14	14	17	21	25	28	23	23	38	13
22	17	19	25	29	35	43	45	39	34	33	31	26	28	26	24	24	27	29	36	38	32	29	29	38	31	45	17
23	39	41	43	46	47	53	51	30	17	13	13	13	13	11	10	11	11	13	17	21	25	23	26	31	26	53	10
24	32	35	37	40	45	46	43	30	21	16	15	14	13	12	11	11	11	12	13	19	21	24	27	28	24	46	11
25	31	33	32	37	35	40	33	20	12	10	9	9	8	8	7	7	7	9	13	17	18	23	24	24	19	40	7
26	26	27	30	31	33	39	38	24	16	9	9	9	8	7	8	8	9	10	12	17	17	17	18	21	19	39	7
27	23	24	24	27	31	31	34	26	15	10	10	11	12	12	11	10	10	11	13	16	19	24	26	23	19	34	10
28	23	28	32	34	37	39	39	34	33	32	29	26	26	21	18	19	20	22	26	33	38	40	42	45	31	45	18
29	44	42	40	42	47	54	57	47	39	36	33	29	22	20	17	16	17	19	25	32	34	38	40	43	35	57	16
30	42	44	47	45	48	45	51	39	37	34	29	24	21	16	16	14	12	14	19	26	27	31	31	34	31	51	12
Avg	36	38	41	44	47	49	48	37	30	27	23	21	20	18	17	16	17	18	22	27	29	32	33	35	30	--	--
Max	56	62	65	63	68	72	69	55	52	48	43	40	34	31	29	29	31	34	46	60	67	64	58	56	--	72	--
Min	17	19	24	27	31	31	28	20	12	9	9	9	8	7	7	7	7	9	12	11	9	7	15	18	--	--	7

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, SR_wm2"
Month: Jul 2017

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	11.7	165	370	577	746	878	962	1,007	980	890	745	574	377	168	16.8	0	0	0	0	353	1,007	0
2	0	0	0	0	0	11	152	351	550	717	846	932	973	947	860	725	550	358	156	16.5	0	0	0	0	339	973	0
3	0	0	0.007	0	0	9.92	136	329	529	695	825	908	954	934	850	715	549	360	160	16.9	0	0	0	0	332	954	0
4	0	0	0	0	0	9.43	141	336	535	705	838	926	975	953	869	730	562	370	167	19.1	0	0	0	0	339	975	0
5	0	0	0	0	0	12.5	88.6	284	530	705	834	922	970	946	860	723	552	345	151	21.3	0	0	0	0	331	970	0
6	0	0	0	0	0	9.11	128	316	515	688	819	913	959	940	858	710	554	349	64	16.7	0	0	0	0	327	959	0
7	0	0	0	0	0	7.49	128	326	527	693	821	905	947	929	873	542	440	58.2	25.7	7.82	0	0	0	0	301	947	0
8	0	0	0.0135	0	0	8.57	127	321	517	682	813	905	922	398	612	264	220	216	77.9	8.41	0	0	0	0	254	922	0
9	0	0	0	0	0	5.7	97.7	125	247	396	755	887	947	926	848	779	379	102	75.4	16	0	0	0.0182	0	274	947	0
10	0.00575	0	0	0	0	2.63	52	341	528	663	860	786	952	932	855	717	547	427	219	23.6	0	0	0	0	329	952	0
11	0	0.021	0	0	0	10.8	--	--	184	207	157	198	176	244	257	203	248	184	74.7	16.8	0	0	0	0	98.2	257	0
12	0	0	0	0	0	5.59	133	327	558	576	922	928	969	924	832	698	535	306	102	4.63	0	0	0	0.00475	326	969	0
13	0	0	0	0	0	7.67	124	336	537	696	823	911	959	923	833	695	531	365	140	9.76	0	0	0	0	329	959	0
14	0	0	0	0	0	13	144	361	527	698	830	913	952	926	836	589	512	9.79	5.61	3.62	0.623	2.26	2.28	0.352	305	952	0
15	0	0.0685	0	0	0	10.1	139	325	524	703	833	919	957	855	875	772	177	4.76	8.11	4.35	6.55	1.67	0	0	296	957	0
16	0	0	0	0	0	7.96	103	311	539	708	835	919	993	951	851	721	565	359	81.6	14.7	0.007	0	0.00875	0	332	993	0
17	0	0	0	0.021	0.482	10.8	165	137	483	766	793	929	964	937	753	658	579	370	111	11.5	0	0	0.0575	0.0005	320	964	0
18	0.368	0.067	0	0	0	9.89	57.1	284	456	705	845	790	852	781	245	39.7	25.7	82.3	55.9	5.13	0	0	0	0	218	852	0
19	0	0	0	0	0	12	143	288	524	675	874	914	812	946	645	119	123	101	42.6	4.76	0	0	0	0.006	259	946	0
20	0	0	0	0	0	3.01	40	158	234	327	945	940	955	926	540	721	565	332	160	9.34	0	0	0	0	286	955	0
21	0	0	0	0	0	5.87	133	378	546	737	876	937	896	864	849	684	90	45.2	40.8	3.36	0.0642	1.78	2.13	0.68	295	937	0
22	0.568	0.169	0	0	0	5.26	126	281	518	677	815	917	942	965	843	521	56	112	109	3.06	0	0	0	0	287	965	0
23	0	0	0	0	0	5.06	95.9	123	357	575	670	745	698	934	802	724	413	26	0.796	0.752	0.00025	0	0	0	257	934	0
24	0	0	0	0	0	4.9	81.8	111	25.4	55.1	156	889	887	542	218	75.7	141	124	78.4	12	0	0	0	0	142	889	0
25	0	0	0	0	0	4.13	98.8	312	494	700	472	855	470	446	718	694	534	334	120	6.36	0	0	0	0	261	855	0
26	0	0	0	0	0	5.29	126	314	516	695	833	938	737	868	776	698	461	337	145	8.62	0	0	0	0	311	938	0
27	0	0	0.00525	0	0	2.63	112	311	513	697	837	902	826	856	768	513	192	123	21.2	2.6	0	0	0	0.0015	278	902	0
28	0.0268	0	0	0	0	0.421	68	161	319	730	797	969	953	925	841	700	482	288	55.6	4.48	0	0	0	0	304	969	0
29	0	0	0	0	0	3.79	56.1	244	363	527	747	565	873	838	244	286	480	103	63.8	0.433	0	0	0	0	225	873	0
30	0	0	0	0	0	0.823	17.6	72	108	260	523	833	984	948	888	775	393	237	54.3	9.18	0	0	0	0	254	984	0
31	0	0	0	0	0	1.48	96.2	198	341	547	761	883	953	951	862	693	527	197	93.3	5.59	0	0	0	0	296	953	0
Avg	0.0312	0.0105	0.00083	0.00068	0.0156	7.05	109	271	443	611	762	866	884	853	737	588	405	226	91.2	9.81	0.234	0.184	0.145	0.0337	286	--	--
Max	0.568	0.169	0.0135	0.021	0.482	13	165	378	577	766	945	969	1,007	980	890	779	579	427	219	23.6	6.55	2.26	2.28	0.68	--	1,007	--
Min	0	0	0	0	0	0.421	17.6	72	25.4	55.1	156	198	176	244	218	39.7	25.7	4.76	0.796	0.433	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, SR_wm2"
Month: Aug 2017

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	1.21	8.72	13.8	63.5	177	516	931	944	914	793	350	68.8	15.2	22.2	3.13	1.21	0.599	1.53	0.0538	201	944	0
2	0	0	0	0	0	1.69	38.9	125	87.4	243	319	544	532	437	206	165	163	83.8	41.6	2.57	0	0	0	0	125	544	0
3	0	0	0	0	0	1.81	19.1	105	344	702	619	573	874	933	876	732	555	90.9	7.64	0	0	0	0	0	268	933	0
4	0	0	0	0	0	1.62	100	302	508	691	830	911	944	917	834	684	512	308	105	1.79	0	0	0	0	319	944	0
5	0.00325	0	0	0.036	0	1.32	101	304	510	696	842	923	956	931	846	655	506	305	103	2.03	0	0	0	0	320	956	0
6	0	0	0	0	0	2.02	105	314	522	711	855	937	973	943	863	706	520	304	98.7	1.45	0	0	0	0	327	973	0
7	0	0	0	0	0	2.19	107	309	515	703	847	929	962	939	854	705	525	306	97.1	1.03	0	0	0	0	325	962	0
8	0	0	0	0	0	1.83	108	313	523	708	846	904	919	885	847	685	504	295	95.2	1.22	0	0	0	0	318	919	0
9	0	0	0	0	0	1.67	101	314	369	719	838	914	946	952	857	685	501	295	93.2	0.916	0	0	0	0	316	952	0
10	0	0	0	0	0.0703	0.684	20.9	56.4	69.1	153	409	657	659	648	604	659	446	173	30.4	0.268	0	0	0	0	191	659	0
11	0	0	0.101	0	0	1.19	98.2	287	501	683	819	896	931	907	548	714	523	288	86.9	0.973	0	0	0	0	304	931	0
12	0	0	0	0.098	0.0875	0.0345	85.8	191	112	89.8	210	494	946	912	810	629	483	280	76.5	0.519	0	0	0.0617	0.00175	222	946	0
13	0.197	0	0.0455	0	0	0.212	30.1	238	527	689	791	908	936	903	815	665	487	278	80	0.463	0	0	0	0	306	936	0
14	0	0	0	0.00425	0.0515	1.2	87.1	261	502	684	802	902	935	908	822	674	497	285	81.1	0.222	0	0	0	0	310	935	0
15	0	0	0.0015	0	0	1.1	90.1	290	500	691	799	922	952	914	824	672	489	275	75	0.0882	0	0	0	0	312	952	0
16	0	0	0	0	0	1.12	89.8	294	509	702	838	926	957	930	831	669	489	274	76.4	0.001	0	0	0	0	316	957	0
17	0	0	0	0	0	0.871	92.5	299	513	707	851	943	977	948	855	696	509	288	76.6	0	0	0	0	0	323	977	0
18	0	0	0	0	0	0.858	89.3	298	510	702	844	932	960	925	830	673	493	278	71	0	0	0	0	0	317	960	0
19	0	0	0	0	0	0.376	55.9	219	339	638	825	869	732	601	756	685	468	287	87.5	0.766	0	0	0	0	274	869	0
20	0	0	0	0.0473	0.0605	0.33	40.1	120	253	551	653	913	975	892	802	678	327	91	27.9	0	0	0	0	0	263	975	0
21	0	0	0	0	0	0.38	78.4	275	485	581	333	698	920	889	800	622	446	247	60	0.003	0	0	0	0	268	920	0
22	0	0	0	0	0	1.11	57.6	275	482	674	807	896	921	891	800	649	461	250	58.8	0	0.0075	0	0	0.653	301	921	0
23	0.197	0	0	0	0	0.34	32.6	183	408	665	799	923	909	524	572	417	207	54.3	15	0	0	0	0	0	238	923	0
24	0	0	0	0	0	0.188	71.9	275	490	681	813	902	930	872	866	706	458	247	55	0	0	0	0	0	307	930	0
25	0	0	0	0	0	0.197	73.9	273	484	676	808	901	903	475	561	551	465	185	49.5	0	0	0	0	0	267	903	0
26	0.0045	0	0	0	0	0.126	66.5	267	485	678	811	830	929	899	518	432	70.4	21.4	15.1	0	0	0	0	0	251	929	0
27	0	0	0	0	0	0.554	66.1	276	346	386	806	901	914	878	785	642	346	14	22.5	2.14	0	0	0	0	266	914	0
28	0	0	0	0	0	0.192	63.6	265	469	656	791	877	905	871	598	593	228	158	52.3	0	0	0	0	0	272	905	0
29	0	0	0	0	0	0.123	59.2	284	458	658	789	876	900	863	763	614	417	243	41.5	0	0	0	0	0	290	900	0
30	0	0	0	0	0	0.038	58	249	460	649	783	873	895	857	767	561	310	206	34.4	0	0	0	0.073	0	279	895	0
31	0	0	0	0	0.00425	0	53.5	245	460	657	799	895	918	875	772	610	416	203	31.9	0	0	0	0	0	289	918	0
Avg	0.013	0	0.00478	0.00598	0.00884	0.857	69.3	243	413	600	732	855	905	846	751	619	416	214	60.3	0.631	0.0392	0.0193	0.0536	0.0229	280	--	--
Max	0.197	0	0.101	0.098	0.0875	2.19	108	314	527	719	855	943	977	952	876	732	555	308	105	3.13	1.21	0.599	1.53	0.653	--	977	--
Min	0	0	0	0	0	0	8.72	13.8	63.5	89.8	210	494	532	437	206	165	68.8	14	7.64	0	0	0	0	0	--	--	0

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, SR_wm2"
Month: Sep 2017

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	0.291	55.3	245	453	646	784	864	888	858	758	595	393	188	27	0	0	0	0.0105	0	281	888	0
2	0	0	0	0	0	0.228	43.7	246	419	645	747	512	579	319	397	318	215	139	15	0	0.018	0	0	0	191	747	0
3	0	0	0	0	0	0.017	39	221	395	639	772	705	791	852	749	594	400	166	13.7	0	0	0	0	0	264	852	0
4	0	0	0	0	0	0.16	50.5	226	426	618	676	685	868	830	687	422	335	115	36.4	0	0	0	0	0	249	868	0
5	0	0	0	0	0	0	47.1	227	425	610	749	838	857	827	726	563	377	170	23.1	0	0	0	0	0	268	857	0
6	0	0	0	0	0	0.13	42.8	211	413	603	743	823	843	801	692	533	342	150	15.9	0	0	0	0	0	259	843	0
7	0	0	0.0645	0	0	0	47.5	211	406	593	732	812	832	794	694	542	365	121	5.18	0	0	0	0	0	256	832	0
8	0	0.0537	0	0	0	0.0005	42.6	204	382	575	676	611	743	696	698	545	371	81.6	4.08	0	0	0	0	0	235	743	0
9	0	0	0	0	0	0	20.1	127	262	401	783	794	857	633	761	561	335	72.9	11.6	0	0	0	0	0	234	857	0
10	0	0	0	0	0	0	42.6	163	425	624	761	845	891	861	600	403	265	143	13.8	0	0	0	0	0	252	891	0
11	0.009	0.272	0	0	0	0.0672	42.3	226	436	624	759	844	867	735	750	586	370	156	13.2	0	0	0	0	0	267	867	0
12	0	0	0	0	0	0.00075	41.1	226	432	619	758	845	870	837	722	565	322	149	12.1	0	0	0	0	0	267	870	0
13	0	0	0	0	0	0	41.2	223	423	611	750	817	863	821	717	550	350	139	2.36	0	0	0	0	0	263	863	0
14	0	0	0	0	0	0	27.6	169	453	638	760	831	802	783	387	351	288	77.4	13.7	0	0	0	0	0	233	831	0
15	0	0	0	0	0	0	39.1	230	443	629	776	729	867	833	721	542	354	148	9.41	0	0	0	0	0	263	867	0
16	0.00075	0	0	0	0	0	39.6	235	441	613	771	753	772	798	721	556	350	141	7.19	0	0	0	0	0.0725	258	798	0
17	0.0272	0	0	0	0	0	36.8	224	428	612	754	841	866	818	712	554	349	140	6.65	0	0	0	0	0	264	866	0
18	0	0	0	0	0	0	38.3	237	445	628	768	865	885	842	729	567	359	138	5.02	0	0	0	0	0	271	885	0
19	0	0	0	0	0	0	36.9	228	432	606	753	851	867	746	706	534	333	129	5.51	0	0	0	0	0	259	867	0
20	0	0	0	0	0	0	35.4	226	432	616	759	839	859	809	702	544	343	128	4.38	0	0	0	0	0	262	859	0
21	0	0	0	0	0	0	33.3	228	437	629	771	846	856	803	696	535	332	120	4.05	0	0	0	0	0.00525	262	856	0
22	0	0	0	0	0	0	21.6	166	417	606	756	837	813	806	694	529	322	112	2.46	0	0	0	0	0	253	837	0
23	0	0	0	0	0	0	29.6	223	437	629	774	866	883	835	720	547	335	119	2.1	0	0	0	0	0	267	883	0
24	0	0	0	0	0	0	30.2	218	429	618	765	851	872	822	708	540	331	116	1.9	0	0	0	0	0	263	872	0
25	0	0	0	0	0	0	29.2	229	441	637	780	867	879	827	712	542	328	111	0.199	0	0	0	0	0	266	879	0
26	0	0	0	0	0	0	27.1	189	423	627	694	691	673	843	751	469	266	63.7	0.653	0	0	0	0	0	238	843	0
27	0	0	0	0	0	0	23.4	138	418	601	742	828	843	793	683	516	307	98.5	0.461	0	0	0	0	0	250	843	0
28	0	0	0	0	0	0	19.2	197	410	590	725	834	334	673	695	502	295	91.9	0.36	0	0	0	0	0	224	834	0
29	0	0	0	0	0	0	16.4	183	397	581	714	750	833	769	670	498	293	89	0.174	0	0	0	0	0	241	833	0
30	0	0	0	0	0	0	17.7	180	395	576	713	797	821	766	657	498	291	85.1	0.073	0	0	0	0	0	242	821	0
Avg	0.00123	0.0109	0.00215	0	0	0.0298	35.2	209	419	608	749	796	816	781	687	520	331	123	8.59	0	0.0006	0	0.00035	0.00259	253	--	--
Max	0.0272	0.272	0.0645	0	0	0.291	55.3	246	453	646	784	867	891	861	761	595	400	188	36.4	0	0.018	0	0.0105	0.0725	--	891	--
Min	0	0	0	0	0	0	16.4	127	262	401	676	512	334	319	387	318	215	63.7	0.073	0	0	0	0	0	--	--	0

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Temp_2m_C"
Month: Jul 2017

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	18.3	16.4	16.1	15.2	15.3	15.2	21.0	27.8	32.2	35.0	37.3	38.9	40.0	40.6	40.6	40.7	40.3	40.0	38.9	34.5	34.2	34.1	29.4	25.9	30.3	40.7	15.2
2	22.5	20.7	19.0	17.9	17.6	16.7	21.8	28.9	33.6	35.2	36.3	37.3	38.2	39.0	39.5	39.8	39.7	38.8	37.4	34.8	30.0	26.8	27.7	28.4	30.3	39.8	16.7
3	27.5	26.4	29.1	27.9	23.9	22.6	26.2	29.7	31.3	33.1	34.8	36.0	37.1	37.9	38.5	38.7	38.4	37.9	36.7	35.0	33.2	30.7	28.3	26.6	32.0	38.7	22.6
4	25.6	23.6	23.0	23.1	21.9	21.5	25.0	30.4	33.0	34.5	36.0	37.5	39.1	39.9	40.6	40.9	40.7	40.1	38.8	36.8	34.5	29.4	27.4	24.9	32.0	40.9	21.5
5	24.2	24.1	22.9	21.2	22.3	22.6	24.5	28.4	32.9	34.4	36.1	37.4	38.9	39.7	40.2	40.8	40.9	40.1	38.9	36.6	32.7	29.8	27.9	25.5	31.8	40.9	21.2
6	24.7	23.9	22.9	24.0	23.8	23.3	25.9	31.1	32.9	34.5	36.0	38.0	39.8	41.0	41.6	41.9	41.7	41.3	39.2	37.8	36.8	33.5	31.0	28.2	33.1	41.9	22.9
7	27.9	26.7	26.8	27.1	24.7	26.9	29.2	35.1	37.8	39.2	40.7	42.0	42.5	43.9	44.3	43.9	43.7	39.6	38.6	37.7	37.8	36.3	32.5	35.4	35.8	44.3	24.7
8	34.7	33.0	33.9	34.4	33.1	28.8	31.5	35.4	36.9	38.0	39.3	40.2	41.1	40.2	41.5	37.5	38.2	38.8	37.7	33.7	31.3	31.9	32.0	30.5	35.6	41.5	28.8
9	28.7	26.6	26.1	25.4	25.8	25.4	27.3	27.9	29.5	31.0	34.1	35.5	36.7	37.8	38.8	39.3	38.4	37.0	37.0	36.5	33.9	31.9	27.1	27.5	31.9	39.3	25.4
10	28.3	27.9	25.5	24.7	24.4	25.3	27.0	30.4	32.3	33.6	35.5	36.4	37.9	39.4	39.7	39.7	39.4	39.0	38.0	36.3	35.8	33.2	30.3	30.0	32.9	39.7	24.4
11	27.5	25.4	24.7	24.8	24.7	24.9	--	--	27.3	27.5	27.4	27.9	28.1	28.8	30.8	31.5	32.4	32.9	32.9	32.3	30.6	29.0	28.8	28.2	28.6	32.9	24.7
12	26.5	24.2	23.9	23.5	22.7	23.3	26.1	30.5	32.2	33.4	35.7	36.7	37.7	38.3	38.9	39.3	39.3	38.3	37.0	35.7	32.8	31.3	29.7	30.2	32.0	39.3	22.7
13	29.4	27.0	25.6	25.1	24.3	23.9	26.7	30.3	32.0	33.2	34.6	36.2	37.8	38.6	39.0	39.8	39.8	39.5	38.4	35.5	32.9	33.3	31.8	30.3	32.7	39.8	23.9
14	28.8	26.5	25.4	24.9	24.6	23.4	26.4	30.8	32.9	34.4	35.4	37.1	38.0	38.8	39.3	38.7	38.9	25.7	23.7	24.7	25.2	26.2	27.1	27.5	30.2	39.3	23.4
15	26.6	26.8	26.3	24.9	24.2	24.0	26.1	29.7	32.6	34.0	35.1	36.6	37.8	38.4	39.1	39.5	30.9	23.5	24.4	25.3	27.2	27.8	27.2	26.0	29.8	39.5	23.5
16	24.7	24.4	24.4	24.2	23.9	23.3	24.6	26.8	28.9	30.2	31.4	32.7	34.1	35.2	35.9	36.6	36.8	33.6	27.9	27.1	27.0	26.3	26.0	26.4	28.8	36.8	23.3
17	24.7	21.0	21.3	21.5	21.9	22.5	22.9	23.2	25.3	27.6	29.2	31.0	32.4	33.2	34.2	34.5	34.9	34.4	32.9	30.7	29.6	28.4	27.4	24.9	27.9	34.9	21.0
18	20.8	21.1	21.3	21.7	21.6	22.0	23.1	25.3	27.4	29.1	30.5	31.6	32.9	33.2	32.3	27.5	25.2	25.5	26.5	25.8	25.8	26.1	26.2	24.8	26.1	33.2	20.8
19	24.0	23.6	23.3	23.8	24.0	23.6	25.8	27.9	29.8	31.0	32.4	33.4	33.8	35.3	35.3	33.1	32.5	32.5	30.0	28.9	27.2	25.9	25.8	27.6	28.8	35.3	23.3
20	27.0	25.5	24.3	24.8	25.8	26.2	25.7	27.0	28.6	29.4	31.6	32.2	33.5	34.5	34.7	36.0	36.1	35.3	34.7	31.3	27.3	24.8	24.9	25.1	29.4	36.1	24.3
21	25.0	24.8	24.7	23.7	23.5	22.9	24.9	27.7	29.6	30.4	31.6	32.6	33.0	34.1	35.1	35.4	30.3	22.0	22.4	23.1	23.5	24.2	24.7	24.6	27.2	35.4	22.0
22	24.8	24.1	23.5	23.5	23.4	23.1	24.6	26.8	29.2	30.3	31.4	32.8	33.7	34.7	35.2	34.2	24.4	25.5	27.5	27.0	26.3	26.7	26.0	25.8	27.7	35.2	23.1
23	25.1	24.8	24.8	23.7	23.3	22.9	24.8	26.0	27.7	29.3	30.1	31.5	31.5	33.2	34.3	34.9	34.6	26.2	23.3	23.3	23.4	23.5	23.5	23.5	27.0	34.9	22.9
24	23.4	23.6	23.7	23.9	23.8	23.9	24.4	24.1	22.9	23.1	23.5	26.1	28.6	29.1	28.9	27.8	27.6	27.8	27.4	26.6	25.1	24.5	24.1	23.6	25.3	29.1	22.9
25	23.5	23.2	23.4	23.4	23.3	22.8	24.2	27.5	29.5	30.7	30.6	32.2	31.7	30.7	32.6	33.5	33.9	33.6	31.9	28.6	27.1	25.7	25.5	25.1	28.1	33.9	22.8
26	24.3	23.9	23.1	23.1	22.9	22.7	24.6	27.9	30.6	32.2	33.2	34.2	34.6	35.5	35.9	36.3	35.9	35.3	34.3	31.9	29.6	28.3	26.9	26.8	29.8	36.3	22.7
27	26.1	25.7	25.3	25.4	24.8	23.9	25.4	28.3	31.0	32.5	33.9	35.1	35.5	36.2	36.5	36.4	34.6	33.9	28.8	29.0	29.9	29.7	26.9	27.0	30.1	36.5	23.9
28	24.9	25.7	25.3	24.2	23.5	22.8	22.9	23.8	25.6	28.2	29.8	31.2	32.0	33.1	33.7	33.9	33.7	33.7	31.5	30.5	30.2	28.9	28.0	27.9	28.5	33.9	22.8
29	26.2	25.4	24.3	23.9	23.6	23.9	24.6	26.3	27.9	28.8	30.7	30.7	32.0	32.6	31.3	31.3	33.0	32.0	30.0	28.3	26.1	26.1	25.8	24.7	27.9	33.0	23.6
30	23.9	24.1	24.5	24.2	24.1	24.2	24.1	24.4	25.1	26.0	27.7	29.5	31.3	32.0	32.8	33.0	31.7	31.8	30.6	29.0	28.8	29.1	28.0	27.7	27.8	33.0	23.9
31	27.5	26.7	26.2	26.5	25.0	24.8	25.1	27.6	29.3	31.4	32.7	33.9	35.0	36.1	36.5	36.7	37.2	35.3	33.0	32.6	31.2	31.0	30.1	29.6	30.9	37.2	24.8
Avg	25.7	24.7	24.3	24.1	23.6	23.3	25.2	28.2	30.3	31.7	33.1	34.3	35.4	36.2	36.7	36.5	35.7	33.9	32.6	31.2	29.9	28.8	27.7	27.1	30.0	--	--
Max	34.7	33.0	33.9	34.4	33.1	28.8	31.5	35.4	37.8	39.2	40.7	42.0	42.5	43.9	44.3	43.9	43.7	41.3	39.2	37.8	37.8	36.3	32.5	35.4	--	44.3	--
Min	18.3	16.4	16.1	15.2	15.3	15.2	21.0	23.2	22.9	23.1	23.5	26.1	28.1	28.8	28.9	27.5	24.4	22.0	22.4	23.1	23.4	23.5	23.5	23.5	--	--	15.2

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Temp_2m_C"
Month: Aug 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	29.2	27.6	26.0	26.9	27.5	25.3	23.7	22.7	22.9	24.2	26.4	29.6	31.3	32.8	33.6	31.4	28.3	22.5	23.5	23.6	24.5	25.0	24.8	25.0	26.6	33.6	22.5
2	25.8	26.0	26.7	26.8	26.7	26.1	26.0	27.0	24.6	25.6	27.8	29.7	31.3	31.3	30.8	30.0	29.5	27.8	26.8	25.4	25.4	24.9	25.1	24.9	27.2	31.3	24.6
3	24.5	24.3	24.2	24.2	24.1	23.8	23.9	24.9	27.5	29.9	30.8	31.7	33.1	34.4	35.0	35.0	35.0	32.4	28.8	26.6	26.3	26.3	25.5	24.8	28.2	35.0	23.8
4	24.4	23.0	22.5	22.5	22.5	21.8	22.8	26.1	27.9	29.9	31.3	32.5	33.5	34.1	34.7	34.8	34.6	34.0	32.4	27.6	26.7	25.6	24.5	24.4	28.1	34.8	21.8
5	26.8	26.0	25.1	25.6	25.3	23.3	23.8	27.5	29.6	31.0	31.8	32.8	33.6	34.2	34.8	34.8	34.6	34.1	32.5	28.3	26.7	25.5	24.3	24.4	29.0	34.8	23.3
6	23.2	22.0	21.1	20.4	19.9	19.4	21.0	25.1	28.4	30.7	31.7	32.8	33.8	34.5	34.9	35.0	34.8	34.1	32.3	27.6	26.1	23.5	23.5	23.2	27.5	35.0	19.4
7	21.2	20.9	20.7	19.5	19.5	18.6	20.6	25.6	29.3	31.9	33.1	34.3	35.1	35.5	35.9	36.0	35.7	35.1	32.6	26.7	26.3	23.6	23.2	21.8	27.6	36.0	18.6
8	21.7	19.7	20.0	17.9	18.0	17.1	19.4	25.0	29.9	32.9	34.6	36.1	36.5	36.9	37.5	37.4	36.9	36.1	33.7	29.1	26.6	24.8	23.3	22.3	28.1	37.5	17.1
9	21.4	21.1	20.5	20.2	20.4	22.1	23.7	28.0	32.1	35.2	36.7	37.0	38.0	38.6	39.1	38.8	38.4	37.4	35.3	31.6	28.4	25.8	25.5	24.3	30.0	39.1	20.2
10	23.3	22.6	23.1	23.3	23.4	26.2	29.6	27.0	27.0	28.7	31.4	33.4	34.6	36.0	37.3	38.4	38.6	37.2	35.7	34.3	31.3	28.7	27.6	27.4	30.3	38.6	22.6
11	26.5	26.6	27.5	29.5	29.1	28.6	28.8	30.1	32.7	34.2	35.7	36.4	37.0	37.4	37.2	38.0	37.8	36.6	35.0	31.9	28.4	28.3	26.4	25.4	31.9	38.0	25.4
12	25.3	25.6	25.8	25.6	27.4	27.3	25.9	27.6	28.6	24.6	26.6	28.9	31.5	33.2	34.2	34.7	35.0	34.2	32.2	28.7	28.0	27.6	29.3	28.8	29.0	35.0	24.6
13	22.4	22.6	22.5	22.5	22.7	22.4	22.3	23.6	26.8	29.1	29.9	30.5	31.3	32.1	32.8	33.0	33.1	32.7	31.3	29.8	28.6	26.3	25.2	24.9	27.4	33.1	22.3
14	25.1	24.8	24.6	24.3	24.0	23.2	24.0	27.2	29.1	30.1	31.0	32.1	33.0	33.5	34.1	34.4	34.3	33.8	31.9	27.8	26.0	24.1	22.8	21.9	28.2	34.4	21.9
15	22.2	21.4	20.9	22.1	20.7	19.6	21.6	25.8	29.0	30.5	31.4	32.7	33.5	34.0	34.4	34.6	34.5	33.9	31.8	27.0	24.2	24.0	21.7	20.5	27.2	34.6	19.6
16	18.4	17.1	16.5	16.2	16.1	15.7	18.1	23.7	28.5	31.1	31.9	32.9	34.0	34.5	34.9	34.9	34.9	34.1	32.3	26.1	24.4	21.6	19.9	18.4	25.7	34.9	15.7
17	17.0	16.3	16.0	16.1	15.6	14.8	16.8	23.4	28.3	31.3	32.8	33.9	34.9	35.4	35.6	35.6	35.3	34.6	31.3	24.5	22.5	20.8	20.1	19.7	25.5	35.6	14.8
18	18.0	16.5	15.6	15.4	15.3	15.1	16.6	22.8	28.2	31.6	33.7	34.8	35.8	36.8	37.1	37.1	36.6	35.6	33.3	29.1	26.0	23.2	21.6	21.0	26.5	37.1	15.1
19	19.2	19.6	19.0	18.2	17.5	17.2	18.6	23.5	26.5	30.3	32.2	33.9	34.2	34.3	36.0	36.3	35.7	35.1	33.6	30.4	26.7	25.6	24.0	22.7	27.1	36.3	17.2
20	23.1	22.3	21.1	21.2	22.2	22.1	22.8	24.9	27.9	30.4	31.4	32.8	34.0	34.6	35.0	35.0	34.0	32.2	31.8	29.5	28.7	28.9	26.7	25.5	28.3	35.0	21.1
21	25.5	26.6	27.4	26.2	23.6	22.5	23.0	27.5	30.7	31.7	31.1	32.3	34.0	35.1	35.7	35.7	35.4	34.4	32.8	29.8	26.0	25.7	23.4	22.7	29.1	35.7	22.5
22	21.9	21.8	21.0	20.0	19.9	19.7	20.3	25.9	30.2	32.9	34.7	36.0	36.9	37.5	38.3	38.5	38.1	36.9	35.0	31.8	28.3	29.1	27.4	25.3	29.5	38.5	19.7
23	24.5	23.8	23.4	22.2	21.4	20.5	20.5	24.5	28.1	31.7	33.6	35.0	36.2	35.2	35.8	36.1	35.5	33.7	30.5	30.1	29.2	28.6	27.5	26.9	28.9	36.2	20.5
24	27.5	27.6	25.4	25.7	25.3	24.6	24.3	26.7	28.2	29.9	31.9	33.6	34.7	35.7	36.4	36.8	36.1	35.1	33.0	30.4	29.0	27.3	25.5	25.0	29.8	36.8	24.3
25	25.0	24.7	24.0	23.9	24.1	23.9	24.8	29.6	32.4	33.9	35.5	36.6	37.7	36.7	37.1	37.9	38.2	36.7	35.5	33.7	30.1	27.4	25.9	24.7	30.8	38.2	23.9
26	25.1	23.9	23.4	24.0	22.5	24.6	25.3	29.7	33.7	35.5	36.7	37.4	38.6	39.4	38.9	37.4	33.3	28.6	31.1	29.1	28.8	30.0	28.3	25.5	30.5	39.4	22.5
27	26.1	26.1	25.4	25.8	24.8	22.6	24.7	28.8	30.9	31.9	35.0	36.5	37.7	38.7	39.9	40.2	37.8	24.9	25.5	29.1	30.8	28.2	28.3	27.3	30.3	40.2	22.6
28	26.5	24.5	24.2	23.3	23.3	23.3	23.4	27.2	32.2	34.1	35.8	37.0	38.1	38.7	38.6	39.4	37.5	36.9	35.1	33.6	32.5	29.9	29.7	26.8	31.3	39.4	23.3
29	27.7	28.6	29.3	25.7	24.4	24.5	26.2	30.1	32.3	34.3	35.7	36.7	37.7	38.7	39.2	39.5	39.1	38.0	35.8	34.2	33.8	33.1	31.9	32.4	32.9	39.5	24.4
30	31.4	30.5	28.0	28.1	28.5	27.4	26.9	29.9	32.6	34.6	36.1	37.2	37.5	38.2	39.4	39.2	38.7	38.8	36.4	30.5	27.0	25.1	29.0	24.9	32.3	39.4	24.9
31	26.0	23.5	21.3	20.4	22.9	26.4	21.8	26.7	32.0	34.4	36.0	37.2	37.9	38.2	38.5	38.9	38.4	37.7	35.8	29.0	26.5	23.0	22.6	23.3	29.9	38.9	20.4
Avg	24.1	23.5	23.0	22.7	22.5	22.2	22.9	26.4	29.3	31.2	32.7	34.0	35.1	35.7	36.2	36.3	35.7	34.1	32.4	29.3	27.6	26.2	25.3	24.4	28.9	--	--
Max	31.4	30.5	29.3	29.5	29.1	28.6	29.6	30.1	33.7	35.5	36.7	37.4	38.6	39.4	39.9	40.2	39.1	38.8	36.4	34.3	33.8	33.1	31.9	32.4	--	40.2	--
Min	17.0	16.3	15.6	15.4	15.3	14.8	16.6	22.7	22.9	24.2	26.4	28.9	31.3	31.3	30.8	30.0	28.3	22.5	23.5	23.6	22.5	20.8	19.9	18.4	--	--	14.8

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, Temp_2m_C"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	22.5	20.6	20.3	20.3	19.8	23.3	22.5	30.3	33.2	35.1	36.8	37.3	39.0	39.7	39.8	40.4	39.8	39.0	36.7	30.9	27.2	24.9	26.1	25.2	30.4	40.4	19.8
2	25.9	24.0	22.2	20.9	20.6	20.9	22.0	26.2	29.3	31.8	34.6	35.6	36.6	35.5	35.6	35.3	35.5	35.3	31.8	29.0	28.5	28.2	26.0	24.3	29.0	36.6	20.6
3	23.7	24.0	23.4	21.4	20.7	20.5	21.0	24.9	28.4	31.0	34.1	35.5	36.3	37.8	38.5	38.2	37.1	35.5	33.6	32.0	28.4	26.1	25.5	25.2	29.3	38.5	20.5
4	24.0	23.8	22.8	21.8	20.7	20.1	21.0	25.2	27.6	29.8	31.8	33.1	35.1	36.3	37.1	36.4	36.6	35.2	34.9	33.8	32.3	31.3	29.4	26.9	29.5	37.1	20.1
5	24.8	24.2	23.6	22.4	21.0	21.1	21.5	26.0	30.5	33.7	36.0	37.9	38.8	39.6	39.6	39.3	38.7	37.1	35.5	33.9	29.2	28.5	27.3	24.8	30.6	39.6	21.0
6	24.5	23.9	22.1	20.8	20.3	19.9	26.2	29.8	32.8	34.9	36.6	37.6	38.2	38.9	39.5	39.0	38.7	37.7	33.8	30.5	28.6	25.4	24.3	22.6	30.3	39.5	19.9
7	22.1	22.0	23.4	21.2	20.7	19.5	19.7	24.8	30.5	32.5	34.2	35.9	37.4	37.9	38.4	38.0	37.2	35.5	32.7	29.2	29.2	28.4	27.0	25.8	29.3	38.4	19.5
8	25.0	25.8	24.3	21.5	21.1	20.5	20.2	24.5	28.1	30.0	31.4	32.5	33.9	34.3	34.3	34.7	34.1	31.9	26.5	24.9	23.9	24.2	24.9	25.2	27.4	34.7	20.2
9	25.7	23.8	23.1	23.8	24.1	23.1	22.9	24.8	26.6	28.1	30.3	31.6	32.4	32.3	33.8	33.8	33.1	31.1	30.1	28.7	25.8	24.6	23.5	23.1	27.5	33.8	22.9
10	22.9	23.1	21.6	22.0	21.5	22.5	23.3	28.4	30.7	32.3	34.1	35.5	36.8	37.4	38.0	37.3	37.2	36.7	33.7	28.1	26.0	23.9	22.7	22.0	29.1	38.0	21.5
11	22.6	29.4	29.3	28.2	22.7	21.0	28.4	31.1	33.0	34.9	36.7	37.7	38.5	38.7	39.5	39.9	39.0	37.5	34.6	30.6	28.0	26.9	25.4	25.7	31.6	39.9	21.0
12	24.9	23.5	22.4	21.9	20.7	20.7	21.0	26.7	33.3	35.8	37.2	38.7	39.8	40.3	40.6	40.2	39.1	37.6	35.0	30.9	28.3	26.5	25.5	25.4	30.7	40.6	20.7
13	24.2	22.6	22.0	21.2	20.5	20.0	20.3	25.8	30.9	33.4	35.2	37.1	37.8	38.7	39.1	38.8	37.8	36.3	33.8	32.4	32.1	29.8	29.4	27.2	30.3	39.1	20.0
14	25.0	24.1	24.0	24.3	23.5	23.3	22.5	26.3	30.8	32.6	34.2	35.4	36.1	36.7	35.8	35.5	34.3	33.3	32.5	31.0	29.8	28.3	26.7	26.0	29.7	36.7	22.5
15	24.7	22.6	19.6	18.3	18.1	17.9	18.4	23.0	27.3	29.0	30.4	31.1	32.5	33.3	33.6	33.4	32.9	31.7	29.7	25.9	23.2	25.0	26.9	24.6	26.4	33.6	17.9
16	25.2	24.1	22.0	17.9	15.9	15.2	14.8	20.9	25.8	28.7	30.0	30.8	32.1	33.1	34.2	34.1	33.2	31.8	28.0	23.6	23.2	21.3	20.7	21.2	25.3	34.2	14.8
17	20.6	20.9	20.4	18.0	17.6	17.2	17.4	22.7	27.0	30.0	31.6	32.6	33.5	34.2	34.3	34.2	33.7	32.1	27.6	22.9	21.1	19.9	18.1	18.6	25.3	34.3	17.2
18	17.3	16.1	15.4	14.2	13.8	12.8	12.8	20.1	25.5	29.6	31.5	32.9	34.0	34.4	34.6	34.4	33.7	32.2	25.8	21.8	20.1	17.9	17.8	16.6	23.6	34.6	12.8
19	16.4	15.4	13.8	12.0	11.6	11.0	12.4	20.0	25.9	29.2	30.7	31.7	32.9	33.5	35.0	35.1	34.5	33.2	31.5	30.0	27.8	26.2	18.8	16.9	24.4	35.1	11.0
20	15.9	14.3	13.4	12.1	12.3	12.0	12.9	20.3	26.4	28.9	30.6	32.6	33.6	34.5	35.0	34.9	34.4	32.9	30.6	27.5	27.1	21.2	18.6	17.5	24.1	35.0	12.0
21	15.8	14.0	12.3	12.6	12.1	13.5	13.1	19.4	25.7	29.2	30.8	32.2	33.3	34.2	34.6	34.4	33.7	32.2	30.2	28.3	25.3	22.0	20.4	23.0	24.3	34.6	12.1
22	23.6	23.4	23.1	23.0	21.1	17.6	16.6	20.0	24.0	25.9	27.3	28.6	28.8	29.8	30.6	30.4	29.4	27.8	24.3	23.0	23.5	22.7	21.6	17.6	24.3	30.6	16.6
23	17.5	17.1	16.6	15.3	13.1	10.7	10.6	16.6	21.2	23.8	25.2	26.2	27.1	27.4	27.8	27.4	26.6	24.9	21.0	17.9	15.3	15.6	14.2	12.1	19.6	27.8	10.6
24	11.6	10.4	10.0	8.8	7.8	7.9	9.0	14.8	20.5	23.9	25.5	26.5	27.2	27.5	27.6	27.6	26.9	25.3	21.8	16.6	14.9	12.8	11.4	10.7	17.8	27.6	7.8
25	9.3	8.5	8.7	7.0	7.5	6.1	8.2	15.0	20.9	24.4	26.3	27.4	28.4	28.8	29.3	29.3	28.7	26.7	21.1	16.7	15.1	12.4	11.4	11.1	17.8	29.3	6.1
26	10.6	10.2	9.1	9.1	8.7	7.0	7.5	14.5	20.9	26.2	27.9	28.4	29.2	30.6	31.0	30.1	29.0	27.1	23.7	20.3	20.0	19.6	18.9	17.5	19.9	31.0	7.0
27	16.4	16.1	16.1	15.1	14.3	13.8	12.7	16.8	22.8	26.4	28.3	29.6	30.5	30.4	30.7	30.5	29.7	27.8	24.2	20.1	18.1	15.2	13.9	15.7	21.5	30.7	12.7
28	16.1	16.5	16.7	16.3	16.1	15.5	15.9	20.0	25.6	27.8	29.9	31.0	29.8	31.7	33.2	32.7	31.8	30.0	27.0	22.7	20.2	19.0	17.8	17.0	23.3	33.2	15.5
29	17.2	18.2	19.1	18.9	19.0	19.2	19.7	25.6	28.5	30.1	31.5	32.4	34.2	34.9	35.2	34.6	33.5	31.7	27.1	22.6	21.1	19.3	18.5	17.1	25.4	35.2	17.1
30	16.9	15.9	15.0	15.6	15.2	16.2	15.7	22.6	28.6	30.5	32.1	33.5	34.6	34.9	35.0	34.3	33.5	31.4	26.3	21.3	20.1	18.3	18.1	16.0	24.2	35.0	15.0
Avg	20.4	19.9	19.2	18.2	17.4	17.0	17.7	22.9	27.4	30.0	31.8	33.0	33.9	34.6	35.0	34.8	34.1	32.6	29.5	26.2	24.4	22.8	21.7	20.8	26.1	--	--
Max	25.9	29.4	29.3	28.2	24.1	23.3	28.4	31.1	33.3	35.8	37.2	38.7	39.8	40.3	40.6	40.4	39.8	39.0	36.7	33.9	32.3	31.3	29.4	27.2	--	40.6	--
Min	9.3	8.5	8.7	7.0	7.5	6.1	7.5	14.5	20.5	23.8	25.2	26.2	27.1	27.4	27.6	27.4	26.6	24.9	21.0	16.6	14.9	12.4	11.4	10.7	--	--	6.1

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_10m"
Month: Jul 2017

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	88	112	94	88	94	84	111	260	285	278	272	234	209	232	251	247	246	242	245	211	221	280	101	212	285	84
2	104	108	101	100	106	97	95	103	97	228	220	259	274	252	246	245	261	275	286	273	307	104	100	102	169	307	95
3	105	99	224	249	61	96	90	82	240	257	266	268	266	267	269	266	269	272	271	274	278	275	95	102	255	278	61
4	102	101	91	95	92	89	77	151	168	215	237	278	262	264	258	261	256	263	262	260	265	247	104	93	206	278	77
5	84	88	121	98	102	107	89	117	223	245	264	259	257	262	263	271	267	264	261	251	281	111	84	100	204	281	84
6	95	97	106	101	92	106	83	317	155	90	276	277	253	273	251	283	283	266	265	259	209	320	86	112	220	320	83
7	89	94	97	92	101	106	102	90	104	113	114	109	113	172	231	79	171	301	329	40	69	56	5	77	93	329	5
8	82	84	69	81	117	85	106	100	112	105	116	91	190	292	314	307	355	350	349	8	60	157	171	138	83	355	8
9	60	103	95	99	100	112	140	271	245	244	230	265	258	268	262	268	277	222	221	229	212	270	110	86	217	277	60
10	48	62	38	98	99	90	124	130	304	298	272	272	261	262	263	273	275	264	265	259	252	212	183	175	250	304	38
11	4	305	39	130	195	66	--	--	97	101	113	124	296	250	150	280	269	271	321	37	68	114	89	106	83	321	4
12	81	109	86	89	95	123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	97	123	81
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31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Avg	81	91	92	101	101	98	99	109	176	218	236	258	252	254	252	272	267	270	278	277	257	196	104	107	165	--	--
Max	105	305	224	249	195	123	140	317	304	298	278	278	296	292	314	307	355	350	349	274	307	320	280	175	--	355	--
Min	4	62	38	81	61	66	77	82	97	90	113	91	113	172	150	79	171	222	221	8	60	56	5	77	--	--	4

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_10m"
Month: Aug 2017

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
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-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_10m"
Month: Sep 2017

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
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Avg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Max	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Min	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_20m"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	93	95	108	112	303	228	152	258	252	258	317	35	75	124	84	126	118	317	35
12	91	117	102	110	87	143	106	85	272	288	264	262	253	253	272	268	270	298	313	358	32	131	110	141	193	358	32
13	109	88	153	113	106	102	95	170	236	264	262	282	257	264	276	266	267	287	360	302	234	114	128	135	209	360	88
14	138	43	252	210	135	142	145	109	293	245	208	258	248	263	271	292	283	42	112	75	120	122	117	128	175	293	42
15	100	203	7	92	109	112	110	112	115	83	252	195	315	347	252	264	359	99	126	109	131	177	119	103	116	359	7
16	112	327	185	109	106	76	121	272	272	255	274	275	256	256	255	262	254	254	112	99	26	325	19	168	249	327	19
17	97	128	126	112	133	98	320	294	284	231	266	227	266	299	265	248	240	228	233	193	129	104	133	123	201	320	97
18	117	80	121	131	32	142	135	97	114	230	278	242	239	233	228	97	93	124	123	123	109	128	109	104	130	278	32
19	108	76	116	109	120	183	105	79	6	313	279	258	242	249	211	194	191	217	213	20	109	104	101	94	144	313	6
20	101	75	126	113	107	93	110	118	102	97	123	114	131	200	318	271	262	254	249	40	117	65	75	107	111	318	40
21	104	118	122	136	100	130	111	47	213	172	178	212	246	246	236	251	69	100	98	119	113	128	114	109	136	251	47
22	92	141	107	107	113	127	110	138	98	19	259	243	232	260	260	266	95	108	127	102	47	108	106	103	120	266	19
23	99	102	78	106	100	104	91	108	84	15	338	118	26	340	67	291	266	147	3	92	192	319	33	104	73	340	3
24	123	62	112	198	4	123	228	252	291	50	129	124	81	309	343	181	147	118	89	80	110	97	101	106	109	343	4
25	121	108	104	102	91	99	110	103	114	123	180	100	237	225	246	272	271	282	273	230	109	117	117	113	139	282	91
26	100	96	95	109	44	121	110	115	140	297	241	250	245	350	248	261	252	257	267	249	292	108	101	94	173	350	44
27	113	102	94	93	79	121	111	80	331	300	263	248	253	272	277	259	255	348	78	109	89	84	90	96	91	348	78
28	101	96	66	120	85	176	187	103	87	108	265	258	255	258	269	267	267	337	304	284	242	203	54	128	199	337	54
29	114	106	101	117	104	83	3	91	38	201	235	260	323	340	268	187	236	218	194	294	245	264	271	265	227	340	3
30	293	136	102	108	263	303	300	290	83	147	125	251	261	272	234	37	56	21	341	43	69	84	104	101	52	341	21
31	122	132	104	97	162	122	109	121	102	149	57	132	41	7	166	205	42	30	86	88	109	112	131	123	108	205	7
Avg	108	102	110	117	99	120	113	107	90	203	238	225	262	275	255	253	258	263	98	75	109	114	100	117	131	--	--
Max	293	327	252	210	263	303	320	294	331	313	338	282	323	350	343	292	359	348	360	358	292	325	271	265	--	360	--
Min	91	43	7	92	4	76	3	47	6	15	57	100	26	7	67	37	42	21	3	20	26	65	19	94	--	--	3

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_20m"
Month: Aug 2017

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	109	95	89	94	95	116	124	116	107	102	110	131	8	144	185	78	67	123	120	106	98	102	116	93	106	185	8
2	96	113	92	85	74	91	81	108	111	106	99	64	85	123	129	139	134	260	308	277	119	115	102	129	105	308	64
3	110	99	147	127	107	121	94	152	106	325	292	215	138	169	208	167	141	140	225	252	114	347	148	101	143	347	94
4	80	137	119	104	110	104	116	124	284	277	295	290	275	262	244	252	282	286	284	218	112	115	107	71	185	295	71
5	266	74	155	145	102	97	107	117	82	187	257	226	204	255	251	267	282	275	279	281	112	109	116	101	176	282	74
6	60	118	93	132	106	103	104	116	128	107	226	243	239	259	239	256	244	242	235	222	111	124	108	105	155	259	60
7	93	84	143	106	108	89	110	110	134	72	278	251	234	230	239	261	259	245	263	144	105	118	105	100	144	278	72
8	99	94	95	85	115	87	96	107	110	177	206	197	303	273	281	270	281	283	273	269	110	112	105	102	135	303	85
9	94	103	98	95	95	111	104	107	109	53	130	255	343	312	266	265	279	274	280	266	96	109	111	109	103	343	53
10	117	123	101	108	101	117	91	316	161	135	42	332	345	34	52	60	44	45	60	100	124	127	97	91	83	345	34
11	123	68	43	86	75	53	77	84	84	99	117	129	161	147	122	200	271	276	266	271	187	105	113	93	111	276	43
12	108	114	112	103	132	155	134	170	158	109	86	96	48	0	282	233	290	282	278	273	102	123	128	219	134	290	0
13	130	104	237	12	119	119	93	87	135	167	240	217	238	260	264	256	264	272	259	226	208	113	113	113	186	272	12
14	118	98	99	119	85	127	88	107	169	194	157	136	229	208	237	248	285	273	276	229	95	110	111	107	149	285	85
15	103	100	105	95	112	119	106	112	122	219	220	223	208	226	236	255	256	259	276	263	109	102	104	100	159	276	95
16	96	107	147	117	105	93	98	122	113	114	157	164	195	196	216	176	202	210	243	213	108	104	102	91	142	243	91
17	116	125	114	100	104	102	101	107	113	111	160	170	217	215	252	258	262	207	225	145	111	115	106	103	141	262	100
18	103	91	102	112	106	98	92	110	121	311	296	276	241	243	253	247	248	264	249	259	111	106	100	99	153	311	91
19	96	98	94	108	88	116	104	101	53	229	260	251	259	257	260	268	271	264	265	234	118	105	100	113	158	271	53
20	106	114	111	64	337	175	131	94	133	137	113	196	224	249	251	260	263	287	275	44	88	74	114	130	138	337	44
21	123	122	114	123	102	103	120	112	117	110	246	275	233	262	262	276	273	266	265	267	264	115	105	103	169	276	102
22	100	102	101	92	96	97	73	109	220	276	295	308	306	273	260	270	269	275	268	256	3	105	113	112	238	308	3
23	110	111	114	113	108	106	123	111	160	84	142	237	240	250	248	248	194	158	128	150	134	105	96	59	137	250	59
24	351	45	83	64	55	72	85	65	63	66	70	38	101	221	279	271	276	271	278	277	248	102	142	114	57	351	38
25	113	114	117	116	123	122	123	121	96	78	107	253	286	276	233	271	256	259	255	230	131	102	118	109	146	286	78
26	101	108	110	110	115	123	123	123	107	107	141	88	138	150	312	29	87	335	37	116	98	80	101	128	103	335	29
27	122	104	121	118	119	113	122	124	120	115	120	131	115	113	166	259	281	329	275	50	104	92	94	91	115	329	50
28	105	117	105	118	111	115	116	120	80	66	118	80	160	161	302	298	303	106	82	69	101	72	95	110	102	303	66
29	92	94	87	113	108	108	105	83	77	83	78	82	191	205	307	312	235	242	255	43	87	78	90	89	97	312	43
30	70	77	117	104	94	107	104	94	75	85	122	145	184	132	148	141	134	99	108	115	116	116	109	116	112	184	70
31	99	73	109	98	94	86	101	91	62	97	114	123	118	125	146	136	164	145	146	95	114	104	111	115	111	164	62
Avg	102	101	110	103	101	108	105	109	113	112	152	195	216	221	243	250	257	258	261	227	114	104	109	105	125	--	--
Max	351	137	237	145	337	175	134	316	284	325	296	332	345	312	312	312	303	335	308	281	264	347	148	219	--	351	--
Min	60	45	43	12	55	53	73	65	53	53	42	38	8	0	52	29	44	45	37	43	3	72	90	59	--	--	0

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WD_20m"
Month: Sep 2017

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	108	121	159	130	166	134	72	73	59	130	114	61	82	60	67	122	114	135	131	116	73	104	114	106	106	166	59
2	119	75	136	112	108	110	103	108	137	85	122	145	145	147	157	177	133	128	245	249	246	131	107	108	131	249	75
3	116	78	114	109	113	112	112	127	129	280	299	268	285	272	276	274	272	272	269	262	316	92	308	108	240	316	78
4	244	102	114	113	105	97	114	90	332	290	285	291	297	288	284	278	267	273	270	281	259	277	230	106	270	332	90
5	100	106	108	111	151	117	109	113	136	123	97	130	218	253	279	288	275	271	314	354	313	110	120	110	127	354	97
6	132	158	129	119	109	117	101	100	100	107	120	129	134	108	118	158	152	135	144	192	118	114	107	105	125	192	100
7	117	147	122	341	109	102	84	113	119	133	160	206	211	280	266	274	261	277	236	310	312	261	43	132	181	341	43
8	107	171	65	113	114	116	100	97	265	276	307	264	232	242	251	272	265	329	86	283	22	136	104	117	164	329	22
9	110	102	102	101	86	135	143	124	101	97	56	50	134	342	265	276	276	271	270	261	46	119	111	102	104	342	46
10	100	93	104	110	110	118	117	81	58	46	46	51	147	135	134	48	77	141	105	108	125	102	101	119	100	147	46
11	100	77	71	101	142	99	73	79	68	62	118	135	128	10	181	219	244	288	275	272	87	107	103	105	104	288	10
12	101	92	100	105	94	96	87	90	124	131	340	152	273	281	257	273	257	279	267	268	91	104	105	99	116	340	87
13	103	106	102	103	92	122	98	240	311	81	328	240	251	262	261	268	279	270	262	258	259	195	111	105	215	328	81
14	124	98	104	116	94	105	115	99	159	209	220	225	225	227	233	229	260	253	236	246	242	232	209	213	195	260	94
15	216	185	94	110	107	102	104	91	157	211	205	234	238	235	243	250	247	255	255	259	156	112	217	243	197	259	91
16	197	203	198	121	109	95	106	116	94	144	164	167	181	224	224	221	255	254	269	185	108	105	100	104	161	269	94
17	95	9	91	104	113	111	103	116	117	170	200	208	241	242	229	226	238	270	276	132	111	100	107	106	147	276	9
18	100	98	92	115	98	96	101	111	131	110	186	189	224	242	233	255	219	239	242	113	109	110	103	107	140	255	92
19	108	110	114	120	117	109	106	107	137	220	233	216	226	240	236	239	231	218	224	223	213	218	129	113	178	240	106
20	97	115	104	109	105	108	98	106	125	196	185	227	220	226	227	218	232	237	231	214	213	189	114	110	168	237	97
21	112	111	121	112	103	101	94	108	110	196	214	219	225	227	223	231	234	236	236	239	220	255	112	206	181	255	94
22	217	206	206	206	239	46	111	93	29	244	241	225	217	221	229	243	283	289	280	249	254	248	251	47	237	289	29
23	96	108	191	143	113	107	116	92	143	349	254	233	242	235	250	256	269	285	270	272	251	114	102	92	187	349	92
24	96	99	97	99	101	106	109	102	25	352	255	308	265	282	265	281	277	270	257	312	116	110	102	102	83	352	25
25	99	98	89	96	96	89	102	108	304	287	263	275	278	254	243	232	246	263	233	109	111	100	101	100	145	304	89
26	101	98	99	99	92	99	106	92	121	68	306	278	260	280	264	264	277	271	277	277	113	109	100	96	110	306	68
27	98	103	97	88	95	115	98	112	193	28	289	239	244	228	252	253	263	278	262	156	110	108	106	105	145	289	28
28	114	122	120	123	121	116	114	110	67	79	124	172	262	338	282	248	281	267	268	297	114	109	105	101	125	338	67
29	103	109	108	109	107	104	100	91	120	117	116	98	198	197	226	254	252	267	274	187	107	105	99	92	130	274	91
30	96	92	111	99	107	95	90	115	98	111	118	173	221	229	237	231	242	244	270	194	117	101	99	96	136	270	90
Avg	114	111	113	111	111	106	103	104	109	125	201	207	224	247	240	246	252	258	254	240	135	127	112	110	146	--	--
Max	244	206	206	341	239	135	143	240	332	352	340	308	297	342	284	288	283	329	314	354	316	277	308	243	--	354	--
Min	95	9	65	88	86	46	72	73	25	28	46	50	82	10	67	48	77	128	86	108	22	92	43	47	--	--	9

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_10m"
Month: Jul 2017

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	1.0	1.2	1.0	0.8	1.2	1.0	0.5	1.2	1.5	2.1	2.6	3.6	3.8	3.9	3.9	3.2	3.0	3.5	1.7	2.7	3.3	1.1	1.4	2.1	3.9	0.5
2	1.1	1.1	0.8	1.0	1.0	0.9	1.3	0.8	0.9	2.7	3.0	3.5	3.5	3.9	3.3	3.8	4.0	3.8	3.3	2.4	0.6	0.7	1.3	1.2	2.1	4.0	0.6
3	1.3	0.9	2.8	2.0	0.3	0.6	1.0	0.7	0.9	2.0	2.9	3.0	3.8	4.1	4.3	4.7	5.5	4.9	4.7	3.4	2.0	0.7	0.8	1.2	2.4	5.5	0.3
4	1.2	0.9	1.0	1.1	1.0	1.1	0.6	0.8	1.1	1.9	2.4	2.7	3.6	4.3	4.5	4.2	4.6	4.2	3.9	3.1	2.0	0.7	1.2	0.8	2.2	4.6	0.6
5	1.0	1.0	0.7	0.6	1.4	0.9	0.9	0.7	3.0	2.6	3.2	3.2	4.1	4.1	4.5	4.6	4.2	4.0	3.3	2.1	1.0	1.4	0.9	0.6	2.3	4.6	0.6
6	0.9	0.9	0.8	0.9	0.8	0.9	0.6	0.7	1.1	1.2	1.6	2.4	3.0	3.2	3.1	4.0	3.5	3.8	3.4	2.3	2.1	0.8	0.8	0.8	1.8	4.0	0.6
7	1.0	1.2	1.1	1.3	0.8	2.2	1.8	2.4	4.0	4.3	3.7	3.2	2.7	2.7	2.5	2.1	1.9	4.3	2.6	1.7	2.3	1.6	0.9	2.4	2.3	4.3	0.8
8	2.2	1.4	2.3	2.3	2.2	0.7	1.9	3.2	3.4	3.2	2.9	2.3	2.5	1.8	2.6	3.2	3.0	3.0	1.9	1.0	0.8	2.5	1.7	1.7	2.2	3.4	0.7
9	0.9	0.6	1.0	0.7	1.1	0.6	0.4	0.9	0.6	2.1	2.8	3.2	3.0	3.0	4.0	4.1	3.0	1.9	2.7	3.2	4.8	2.4	0.7	0.9	2.0	4.8	0.4
10	1.5	0.7	0.4	0.7	0.9	0.6	1.1	0.7	0.9	1.5	2.2	2.6	3.2	4.3	5.0	4.8	4.6	4.7	4.0	2.9	2.9	5.4	2.4	2.0	2.5	5.4	0.4
11	1.9	1.3	2.0	1.3	1.2	0.9	--	--	1.3	1.8	1.5	1.1	0.4	0.7	0.8	2.3	2.1	1.9	1.3	3.2	1.4	1.4	2.2	1.0	1.5	3.2	0.4
12	0.7	0.8	0.7	0.7	0.5	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6	0.8	0.4
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Avg	1.2	1.0	1.2	1.1	1.0	0.9	1.1	1.1	1.7	2.3	2.6	2.7	3.0	3.2	3.5	3.8	3.6	3.6	3.1	2.5	2.0	1.9	1.3	1.3	2.1	--	--
Max	2.2	1.4	2.8	2.3	2.2	2.2	1.9	3.2	4.0	4.3	3.7	3.5	4.1	4.3	5.0	4.8	5.5	4.9	4.7	3.4	4.8	5.4	2.4	2.4	--	5.5	--
Min	0.7	0.6	0.4	0.6	0.3	0.4	0.4	0.5	0.6	1.2	1.5	1.1	0.4	0.7	0.8	2.1	1.9	1.9	1.3	1.0	0.6	0.7	0.7	0.6	--	--	0.3

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_10m"
Month: Aug 2017

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
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-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_10m"
Month: Sep 2017

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
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-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_20m"
Month: Jul 2017

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
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11	--	--	--	--	--	--	--	--	1.5	2.1	1.9	1.4	0.4	0.7	0.8	2.8	2.5	2.3	1.7	3.9	1.8	2.0	2.9	1.6	1.9	3.9	0.4
12	0.9	1.1	1.2	1.1	0.9	0.6	0.6	0.6	0.9	2.3	3.2	4.1	4.2	4.6	4.8	5.4	5.5	4.8	3.0	2.2	1.1	1.7	1.4	3.3	2.5	5.5	0.6
13	2.4	0.8	0.7	1.2	1.1	1.2	1.2	1.3	3.0	2.8	2.9	3.2	3.7	4.0	4.8	4.8	5.4	4.8	3.1	2.1	1.0	3.5	4.4	2.5	2.8	5.4	0.7
14	1.1	1.0	0.8	0.7	1.1	0.3	0.5	1.0	1.5	2.5	1.9	2.8	3.6	4.3	4.2	4.0	4.2	6.5	2.9	1.5	1.4	3.1	2.8	2.5	2.3	6.5	0.3
15	2.1	2.7	1.7	1.1	1.8	2.4	1.6	0.8	0.9	1.8	1.4	1.6	2.3	2.8	4.3	4.1	7.8	3.5	2.2	1.3	3.3	3.5	2.0	2.0	2.5	7.8	0.8
16	1.0	1.0	0.7	0.8	1.2	1.0	0.4	1.8	2.6	2.6	2.8	2.2	2.6	2.3	3.2	3.2	3.8	4.7	3.8	3.4	2.0	1.1	1.6	3.0	2.2	4.7	0.4
17	4.6	4.0	2.9	2.5	3.0	3.6	2.4	2.6	1.1	1.0	1.2	1.4	2.4	2.5	2.7	3.6	3.6	3.9	3.1	4.7	2.4	1.3	1.4	8.3	2.9	8.3	1.0
18	3.1	1.6	1.1	1.9	0.7	0.7	0.9	1.0	1.2	0.9	1.4	1.9	2.6	2.9	3.4	3.3	3.2	3.1	2.0	1.4	2.1	2.3	1.8	1.5	1.9	3.4	0.7
19	1.5	1.1	0.6	1.1	0.8	0.9	0.8	1.0	1.3	1.6	2.5	2.9	2.4	2.7	3.7	3.7	3.9	4.5	4.5	1.7	1.1	0.7	1.4	3.0	2.1	4.5	0.6
20	5.1	3.0	1.3	2.9	4.0	3.2	2.4	2.2	1.8	2.1	2.3	2.1	1.5	1.7	1.7	3.0	3.9	3.7	3.6	4.7	4.9	2.7	1.1	2.2	2.8	5.1	1.1
21	1.1	1.6	1.7	0.8	1.0	0.8	1.1	0.6	1.9	2.1	1.9	2.6	2.4	3.7	3.7	3.4	5.2	6.5	3.7	2.0	2.9	3.0	2.2	1.1	2.4	6.5	0.6
22	1.4	1.1	0.7	1.7	1.4	1.0	0.9	0.6	0.9	0.9	2.1	3.1	3.0	3.8	2.9	5.0	5.7	3.1	3.0	1.7	1.0	3.2	1.8	1.5	2.1	5.7	0.6
23	0.9	0.9	1.5	0.9	0.7	0.8	1.4	1.0	1.0	1.0	1.1	1.6	1.6	1.5	1.8	1.9	2.5	6.0	2.7	1.3	1.6	1.0	0.4	0.6	1.5	6.0	0.4
24	0.5	0.8	0.9	1.0	0.7	1.0	0.7	2.6	2.0	1.2	1.8	1.5	1.1	1.1	1.2	2.0	2.1	1.7	1.6	1.9	1.1	0.9	1.0	1.4	1.3	2.6	0.5
25	1.3	1.3	0.6	0.6	1.0	0.9	1.6	2.0	2.1	1.4	1.1	1.5	3.1	2.0	1.7	2.8	3.0	3.3	2.7	1.2	1.4	1.1	2.2	2.0	1.7	3.3	0.6
26	1.3	1.3	1.4	1.6	1.3	1.4	1.6	1.3	0.9	1.1	2.0	2.0	2.0	1.9	2.9	3.2	3.4	3.7	3.4	2.5	1.3	1.4	1.3	1.0	1.9	3.7	0.9
27	1.2	1.4	1.3	1.0	0.8	1.4	1.3	0.4	0.8	1.3	2.0	2.6	2.5	3.2	3.4	3.3	2.0	5.1	7.6	5.1	5.3	4.7	5.0	4.5	2.8	7.6	0.4
28	3.6	2.9	2.4	0.8	1.4	1.0	1.1	1.2	1.2	0.9	1.5	2.5	3.4	4.0	4.5	4.9	4.0	4.0	1.5	1.8	4.1	3.3	1.4	2.3	2.5	4.9	0.8
29	1.1	1.4	1.3	1.0	1.4	1.4	0.6	0.8	1.3	0.6	1.6	2.8	2.8	1.6	2.1	2.4	2.0	3.3	3.8	3.4	1.3	1.2	2.0	0.5	1.7	3.8	0.5
30	0.7	0.2	1.0	0.5	1.1	1.4	1.4	0.5	0.2	0.8	0.7	1.3	2.5	2.8	2.4	3.5	3.0	1.1	0.6	0.5	1.4	1.9	1.3	1.1	1.3	3.5	0.2
31	1.7	1.2	1.3	1.3	0.7	2.2	1.8	1.9	0.8	0.5	1.1	1.4	2.1	1.9	1.8	1.4	1.9	3.2	2.4	1.9	2.3	2.8	2.7	2.6	1.8	3.2	0.5
Avg	1.8	1.5	1.3	1.2	1.3	1.4	1.2	1.3	1.4	1.5	1.8	2.2	2.5	2.7	3.0	3.4	3.7	4.0	3.0	2.4	2.1	2.2	2.0	2.3	2.1	--	--
Max	5.1	4.0	2.9	2.9	4.0	3.6	2.4	2.6	3.0	2.8	3.2	4.1	4.2	4.6	4.8	5.4	7.8	6.5	7.6	5.1	5.3	4.7	5.0	8.3	--	8.3	--
Min	0.5	0.2	0.6	0.5	0.7	0.3	0.4	0.4	0.2	0.5	0.7	1.3	0.4	0.7	0.8	1.4	1.9	1.1	0.6	0.5	1.0	0.7	0.4	0.5	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_20m"
Month: Aug 2017

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

SAROAD for Resolution, Hewitt_Station
"Component, Channel: Table100, WS_ms_20m"
Month: Sep 2017

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	1.6	0.9	0.9	0.8	2.4	1.6	2.9	3.4	2.8	4.1	2.0	3.4	4.5	3.6	3.5	3.5	3.7	3.3	1.6	1.0	1.5	2.7	1.9	2.5	4.5	0.8
2	1.7	1.0	0.7	1.2	1.2	1.7	1.4	1.3	1.1	1.2	2.1	2.6	4.5	4.0	3.5	2.4	2.0	2.0	2.0	1.1	1.6	0.8	1.2	1.5	1.8	4.5	0.7
3	1.3	0.9	1.1	0.6	1.4	1.8	1.7	1.2	1.0	1.2	2.2	4.1	3.7	3.2	4.6	5.0	4.9	4.7	4.6	2.9	0.6	0.8	0.8	0.9	2.3	5.0	0.6
4	0.5	0.7	1.6	1.5	1.4	1.3	1.5	0.6	0.3	1.1	2.6	2.8	3.7	3.9	4.0	3.8	3.5	2.4	3.4	3.0	2.7	2.6	1.4	1.4	2.1	4.0	0.3
5	1.3	1.3	1.3	0.9	0.5	1.7	1.5	1.3	0.5	0.9	1.7	3.0	2.8	4.2	4.2	4.1	3.8	3.4	2.6	2.9	1.1	2.1	1.8	1.9	2.1	4.2	0.5
6	1.8	1.1	1.1	1.8	1.8	2.3	3.4	3.2	3.4	4.9	4.6	3.8	3.2	2.6	3.1	3.1	3.6	2.8	2.1	1.9	1.7	1.8	1.9	1.4	2.6	4.9	1.1
7	1.1	1.0	1.7	0.7	1.9	1.8	0.9	1.0	0.8	1.4	1.6	1.6	2.5	2.6	4.2	3.7	3.6	3.9	5.8	4.1	2.0	1.2	1.1	1.9	2.2	5.8	0.7
8	1.7	1.9	1.0	1.0	1.1	1.2	1.0	0.5	1.5	1.6	1.4	2.1	4.0	4.4	3.9	4.2	4.3	3.9	4.5	1.9	2.5	2.2	2.0	1.9	2.3	4.5	0.5
9	4.5	4.9	2.9	3.9	2.2	1.3	2.2	2.6	1.1	0.7	1.9	2.6	2.8	1.8	3.1	2.8	3.6	3.2	3.3	2.3	0.5	1.0	1.0	1.2	2.4	4.9	0.5
10	1.5	1.8	1.3	1.7	1.7	2.4	2.5	3.6	3.9	3.7	4.0	3.5	2.6	2.4	3.0	2.6	2.3	2.8	2.1	0.8	1.6	1.3	0.8	0.6	2.3	4.0	0.6
11	2.1	3.7	3.9	2.5	0.6	1.6	4.3	4.3	4.4	3.9	4.9	3.9	2.6	2.6	2.5	3.0	2.9	2.2	2.9	1.1	1.2	1.8	1.8	1.9	2.8	4.9	0.6
12	1.7	1.4	1.4	1.7	1.5	1.6	1.0	1.4	2.0	2.1	1.4	2.1	3.4	3.8	3.7	3.8	4.1	3.7	3.2	1.5	1.3	1.5	1.7	1.7	2.2	4.1	1.0
13	1.9	1.5	1.3	1.5	1.2	1.3	1.3	1.0	0.8	0.9	1.4	3.5	3.4	4.0	4.3	4.7	4.5	3.8	2.9	2.3	3.7	1.3	2.3	1.2	2.3	4.7	0.8
14	1.3	1.2	0.8	1.3	0.8	1.3	0.7	1.2	2.5	4.3	5.0	6.0	6.1	6.8	7.1	7.8	7.2	6.1	5.2	4.6	4.8	3.3	2.3	2.3	3.8	7.8	0.7
15	2.2	1.1	0.6	1.0	1.5	1.4	1.5	0.7	2.3	3.7	5.0	5.4	4.9	5.7	5.0	5.1	5.1	4.8	3.5	1.4	0.6	1.4	3.1	1.3	2.9	5.7	0.6
16	2.3	1.4	1.4	1.5	1.6	1.3	1.6	1.5	0.7	3.0	3.1	2.4	2.6	3.0	4.5	3.8	3.6	3.1	1.8	0.9	2.0	1.3	1.2	1.4	2.1	4.5	0.7
17	0.7	0.5	0.9	0.8	1.6	1.4	1.5	1.4	0.6	2.3	4.0	4.4	4.1	4.3	4.4	3.9	3.7	3.4	1.7	1.5	1.8	1.5	1.5	1.7	2.2	4.4	0.5
18	1.6	1.4	1.1	1.4	1.5	1.5	1.7	1.9	0.5	1.1	2.1	3.3	3.9	4.0	4.7	4.9	3.7	2.3	0.8	2.1	2.1	1.5	1.8	1.6	2.2	4.9	0.5
19	1.6	1.7	1.6	1.0	1.6	1.7	1.8	1.6	0.7	3.1	4.1	5.5	5.8	4.8	5.7	5.4	5.5	5.5	5.0	4.3	3.1	2.7	1.5	2.5	3.2	5.8	0.7
20	1.6	1.5	1.5	1.8	1.9	1.8	1.3	1.3	1.5	3.2	3.1	4.2	4.6	5.4	5.7	5.5	4.8	3.6	3.0	2.5	2.9	0.8	2.0	1.9	2.8	5.7	0.8
21	1.6	1.8	2.2	1.9	1.6	1.6	1.3	1.6	1.1	3.7	4.1	4.2	5.1	5.3	5.9	5.2	5.6	5.8	4.3	3.1	2.3	1.5	0.9	2.4	3.1	5.9	0.9
22	2.8	3.3	2.6	2.3	1.2	0.6	1.1	1.3	0.8	2.9	3.7	5.0	4.1	3.7	3.9	3.9	4.5	2.9	1.6	2.8	3.1	3.2	2.6	0.6	2.7	5.0	0.6
23	0.9	0.5	0.6	0.5	1.6	0.9	1.4	1.0	0.9	1.6	2.4	3.7	4.2	4.0	4.1	4.1	4.1	3.6	2.3	1.7	1.2	2.7	1.9	1.3	2.1	4.2	0.5
24	1.6	1.4	1.2	1.4	1.5	1.9	2.2	1.0	0.4	1.1	3.2	3.4	3.5	3.7	2.9	3.5	3.6	3.6	2.7	0.6	2.3	2.1	1.7	1.6	2.2	3.7	0.4
25	1.5	1.7	1.3	1.4	1.5	1.5	2.7	3.9	0.5	2.5	3.4	3.8	3.4	3.0	2.6	2.7	2.8	2.7	1.7	1.2	2.2	1.6	1.6	1.7	2.2	3.9	0.5
26	1.7	1.9	1.7	1.7	1.3	1.1	1.6	1.0	0.5	0.9	2.5	2.9	3.2	3.3	4.1	3.6	3.3	3.3	2.1	1.0	1.9	1.8	1.8	1.5	2.1	4.1	0.5
27	1.4	1.6	1.2	1.0	0.6	1.8	1.5	2.0	0.5	0.5	2.2	2.8	3.8	3.4	3.9	3.2	3.4	3.0	2.7	1.2	1.8	1.7	1.5	1.9	2.0	3.9	0.5
28	3.1	3.1	3.6	3.8	3.7	3.6	2.8	3.0	3.9	3.2	3.0	2.1	1.7	2.2	3.1	3.5	3.7	3.0	2.8	0.8	1.2	1.5	1.6	1.5	2.7	3.9	0.8
29	1.5	2.6	2.2	2.6	2.8	2.4	2.5	2.4	4.2	5.1	3.9	2.3	3.2	4.2	4.4	4.4	4.2	3.6	1.8	1.1	1.7	1.5	1.6	1.3	2.8	5.1	1.1
30	1.5	1.3	1.7	1.5	1.5	1.5	1.5	1.6	3.8	4.8	4.0	2.6	3.9	3.9	3.8	4.5	4.0	3.2	1.9	1.0	2.3	1.8	1.8	1.6	2.5	4.8	1.0
Avg	1.7	1.7	1.6	1.6	1.5	1.7	1.8	1.8	1.7	2.4	3.1	3.4	3.7	3.8	4.1	4.1	4.0	3.5	2.9	2.0	2.0	1.7	1.7	1.6	2.5	--	--
Max	4.5	4.9	3.9	3.9	3.7	3.6	4.3	4.3	4.4	5.1	5.0	6.0	6.1	6.8	7.1	7.8	7.2	6.1	5.8	4.6	4.8	3.3	3.1	2.5	--	7.8	--
Min	0.5	0.5	0.6	0.5	0.5	0.6	0.7	0.5	0.3	0.5	1.4	1.6	1.7	1.8	2.5	2.4	2.0	2.0	0.8	0.6	0.5	0.8	0.8	0.6	--	--	0.3

SAROAD for Resolution, Far_West
"Component, Channel: Table100, BP_mmHg"
Month: Jul 2017

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	711	711	711	711	711	712	712	713	713	713	713	712	712	712	712	711	711	711	711	711	712	712	713	713	712	713	711
2	713	713	713	714	714	715	716	716	717	717	717	716	716	716	715	714	714	713	713	714	714	714	715	715	715	717	713
3	715	716	716	716	716	717	717	717	717	717	717	717	716	716	715	714	714	713	713	713	713	714	714	714	715	717	713
4	714	714	714	714	714	715	715	716	716	716	716	715	715	714	713	712	712	711	711	712	712	712	712	712	714	716	711
5	713	713	713	713	714	715	715	716	716	716	716	715	715	714	714	713	712	712	712	712	713	713	714	714	714	716	712
6	714	714	714	715	715	716	717	717	717	717	717	716	715	715	714	713	712	712	712	712	713	713	713	713	714	717	712
7	713	713	713	713	713	713	714	714	715	714	714	714	713	713	712	711	710	711	711	711	712	712	713	713	713	715	710
8	713	713	713	713	713	714	714	715	715	715	715	714	714	713	712	712	712	711	711	712	712	713	714	715	713	715	711
9	715	715	715	716	716	716	717	717	717	716	716	716	715	714	713	713	712	712	712	712	713	714	714	714	715	717	712
10	714	714	714	714	714	714	714	715	715	715	714	714	713	713	712	711	711	711	710	711	711	713	714	714	713	715	710
11	714	715	714	714	714	715	715	715	715	715	715	715	714	713	713	712	712	711	712	712	712	712	713	713	714	715	711
12	713	713	713	713	713	714	714	714	714	714	714	714	714	713	712	712	711	711	711	711	712	713	713	714	713	714	711
13	714	715	714	714	714	715	715	715	716	716	--	--	--	--	--	713	712	712	712	712	713	714	715	716	714	716	712
14	716	716	716	715	716	716	716	716	716	716	716	716	715	714	714	713	713	714	714	714	713	714	714	714	715	716	713
15	715	715	715	715	715	715	716	716	716	716	716	715	715	714	713	712	713	713	713	713	714	715	716	716	715	716	712
16	716	716	715	715	715	715	715	716	716	716	715	715	714	713	712	712	711	711	711	712	713	713	714	714	714	716	711
17	715	714	713	713	713	714	714	715	715	715	715	714	714	713	712	712	712	712	712	713	713	714	714	715	714	715	712
18	715	715	714	714	714	715	715	716	716	716	716	715	715	714	714	714	714	713	713	714	714	715	715	715	715	716	713
19	715	715	715	715	715	716	716	716	716	716	716	716	715	715	714	714	714	714	714	714	714	715	715	716	715	716	714
20	716	715	715	715	716	716	716	717	717	717	717	716	715	715	714	713	713	713	713	713	714	715	715	715	715	717	713
21	715	715	715	714	715	715	715	716	716	716	716	715	715	714	713	712	712	713	713	713	713	713	713	713	714	716	712
22	714	714	714	714	714	714	714	714	715	715	715	714	713	712	712	711	712	712	711	712	713	713	713	713	713	715	711
23	713	713	713	713	713	713	714	714	714	714	714	714	713	712	712	711	711	712	713	714	714	714	714	714	713	714	711
24	714	714	713	714	714	714	715	715	715	715	715	715	714	714	714	714	713	713	713	713	714	714	714	714	714	715	713
25	714	715	715	715	715	715	715	716	716	716	716	716	715	715	715	715	714	714	714	714	714	715	715	715	715	716	714
26	715	715	715	715	716	716	716	717	717	717	716	716	716	715	714	714	713	713	713	713	713	714	714	714	715	717	713
27	714	714	714	714	714	714	714	715	715	715	714	714	713	713	712	712	712	711	712	712	713	713	714	714	713	715	711
28	714	715	715	714	715	715	716	716	716	716	715	715	715	714	713	713	713	713	713	713	714	714	715	715	714	716	713
29	715	715	715	714	715	715	715	716	716	716	716	715	715	714	714	714	713	713	714	715	716	716	716	716	715	716	713
30	716	716	715	715	716	716	717	717	717	717	717	717	716	715	715	714	714	714	714	714	714	715	715	715	715	717	714
31	715	715	714	714	714	715	715	715	715	715	715	715	714	713	713	712	712	712	712	713	713	714	714	714	714	715	712
Avg	714	714	714	714	714	715	715	716	716	716	715	715	715	714	713	713	712	712	712	713	713	714	714	714	714	--	--
Max	716	716	716	716	716	717	717	717	717	717	717	717	716	716	715	715	714	714	714	715	716	716	716	716	--	717	--
Min	711	711	711	711	711	712	712	713	713	713	713	712	712	712	712	711	710	711	710	711	711	712	712	712	--	--	710

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, BP_mmHg"
Month: Aug 2017

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	714	714	714	714	714	715	716	716	716	716	716	716	715	714	714	713	715	714	714	715	715	716	716	715	715	716	713
2	715	715	715	715	715	715	716	716	716	717	717	716	716	715	715	715	714	714	715	715	716	716	716	716	715	717	714
3	716	715	715	715	716	716	716	717	717	717	717	716	716	715	714	714	714	714	715	715	715	716	716	716	716	717	714
4	715	715	715	715	715	716	716	716	716	716	716	716	715	714	714	713	713	713	712	713	713	713	714	714	715	716	712
5	714	714	714	714	714	714	715	715	715	715	715	714	714	713	713	712	712	712	711	712	712	712	712	713	713	715	711
6	713	713	713	713	713	714	714	714	715	715	714	714	714	714	713	712	712	712	712	712	712	713	713	713	713	715	712
7	713	713	713	713	713	713	714	714	715	715	715	715	714	714	713	713	712	712	712	712	713	713	713	713	713	715	712
8	713	713	713	714	714	714	714	715	715	715	714	714	714	713	713	712	712	712	712	712	712	712	713	712	713	715	712
9	713	712	712	712	713	713	713	714	714	714	714	714	713	713	713	712	712	712	711	712	712	712	712	713	713	714	711
10	713	713	713	713	713	714	715	715	715	715	715	715	714	714	713	712	711	711	711	712	714	715	715	715	714	715	711
11	714	714	714	714	714	714	714	714	714	714	713	713	712	712	711	711	710	710	710	710	711	711	711	712	712	714	710
12	712	712	712	712	713	714	714	715	715	715	715	715	714	714	713	713	712	712	712	712	713	713	713	715	713	715	712
13	715	715	716	716	716	716	716	715	715	715	715	715	715	714	714	713	712	712	712	712	712	713	713	713	714	716	712
14	713	713	713	713	713	713	713	713	714	714	714	713	713	712	712	711	710	710	710	710	710	711	711	711	712	714	710
15	711	711	711	711	711	712	712	713	713	713	713	713	712	712	711	711	710	710	710	710	711	711	712	712	711	713	710
16	712	712	713	713	713	714	714	714	715	--	--	715	714	714	713	713	712	712	712	712	713	713	713	714	713	715	712
17	714	714	714	714	715	715	715	716	716	716	716	716	716	715	715	714	714	714	714	714	714	714	714	714	715	716	714
18	714	714	714	714	715	715	715	716	716	716	716	716	715	715	714	714	713	713	713	713	713	714	714	713	714	716	713
19	713	713	713	714	714	714	715	715	715	715	715	715	714	714	713	712	712	712	712	712	712	713	713	713	713	715	712
20	713	713	713	713	714	714	714	715	715	715	715	715	714	714	713	712	712	712	712	712	713	713	713	714	713	715	712
21	713	714	714	714	714	714	714	715	715	715	715	715	715	715	714	714	714	713	713	714	714	714	715	715	714	715	713
22	715	715	715	715	715	715	716	716	716	716	716	716	715	715	714	714	713	713	713	713	713	714	714	714	714	716	713
23	714	714	714	714	714	715	715	715	716	716	715	715	714	713	712	712	711	712	713	714	714	715	715	715	714	716	711
24	715	714	714	714	714	714	714	714	714	714	713	713	712	712	711	710	710	709	709	710	710	710	711	711	712	715	709
25	711	711	711	711	711	711	712	712	712	712	712	712	711	711	710	710	710	710	710	710	711	711	712	712	711	712	710
26	712	712	712	712	713	713	714	714	714	714	714	714	714	713	712	712	712	713	713	713	713	714	714	714	713	714	712
27	714	714	714	714	715	715	715	715	716	716	715	715	714	713	713	712	712	712	712	713	713	713	713	714	714	716	712
28	714	714	714	714	714	714	714	715	715	715	715	714	714	713	712	712	711	712	712	713	714	713	713	713	713	715	711
29	713	714	714	714	714	714	714	715	715	715	715	715	714	713	712	712	711	711	711	711	712	713	712	712	713	715	711
30	712	712	712	712	712	713	713	714	714	714	714	714	713	712	711	711	710	710	710	711	712	712	712	712	712	714	710
31	713	713	713	713	713	713	714	714	714	714	714	713	713	712	712	711	711	710	710	711	712	712	712	712	712	714	710
Avg	713	713	713	714	714	714	714	715	715	715	715	714	714	713	713	712	712	712	712	712	713	713	713	713	713	--	--
Max	716	715	716	716	716	716	716	717	717	717	717	716	716	715	715	715	715	714	715	715	716	716	716	716	--	717	--
Min	711	711	711	711	711	711	712	712	712	712	712	712	711	711	710	710	710	709	709	710	710	710	711	711	--	--	709

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, BP_mmHg"
Month: Sep 2017

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	712	712	712	712	713	713	713	714	714	714	714	713	713	712	711	710	710	710	710	711	712	712	712	712	712	714	710
2	713	713	713	714	714	714	715	715	716	716	716	715	715	715	715	714	714	714	714	715	715	716	716	716	715	716	713
3	716	716	716	716	717	717	717	717	717	717	717	717	716	715	715	714	714	714	714	714	715	715	715	715	716	717	714
4	715	715	715	715	715	715	715	716	716	716	715	715	714	713	713	712	712	711	711	712	712	713	713	713	714	716	711
5	713	713	713	713	714	714	714	715	715	715	715	715	714	714	713	712	712	712	712	712	713	713	714	714	713	715	712
6	714	714	714	714	714	714	715	715	715	715	715	715	714	714	713	712	712	712	712	712	713	713	713	713	714	715	712
7	713	713	713	714	714	714	715	715	715	715	715	715	714	713	712	711	711	711	712	712	713	713	713	713	713	715	711
8	713	713	713	713	713	713	714	715	715	716	715	715	714	714	713	712	712	713	714	715	715	714	715	715	714	716	712
9	715	715	715	715	715	715	716	716	717	717	716	716	716	715	714	714	713	713	714	714	714	714	715	715	715	717	713
10	714	715	714	715	714	715	715	715	716	716	715	715	714	714	713	712	712	712	712	712	713	713	713	713	714	716	712
11	713	713	713	713	714	714	714	715	715	715	715	715	714	714	713	712	712	712	712	713	713	713	713	713	714	715	712
12	713	713	713	713	713	714	714	714	714	714	714	713	713	712	711	711	710	710	710	710	711	711	711	711	712	714	710
13	711	711	711	711	711	712	712	712	713	713	712	712	711	711	710	710	709	709	709	710	710	710	711	711	711	713	709
14	711	711	711	711	711	712	712	712	712	712	712	711	711	710	709	709	709	709	709	710	711	711	711	712	711	712	709
15	712	712	712	712	712	712	712	713	713	713	713	712	712	711	711	710	710	710	710	711	711	711	712	712	712	713	710
16	712	712	712	713	713	713	714	714	714	715	714	714	713	713	712	712	711	711	711	711	712	712	712	712	713	715	711
17	713	713	713	713	713	713	714	714	714	715	715	714	714	713	713	712	712	712	712	712	713	713	713	713	713	715	712
18	714	714	714	714	714	714	714	715	715	715	715	715	715	714	714	713	712	712	712	712	712	712	713	713	714	715	712
19	713	713	713	713	713	713	713	714	714	714	714	714	713	712	711	711	710	710	710	711	711	712	712	712	712	714	710
20	712	712	712	712	713	713	713	713	714	714	713	713	712	712	711	711	710	710	710	710	711	711	711	712	712	714	710
21	712	712	712	712	712	712	712	712	712	712	712	711	711	710	709	709	708	708	708	709	709	709	710	710	710	712	708
22	710	710	710	710	710	710	710	711	711	711	711	711	710	710	709	709	708	708	708	708	709	709	709	709	710	711	708
23	709	709	709	709	709	709	710	710	711	711	711	711	710	710	710	709	709	709	709	710	710	710	710	710	710	711	709
24	710	711	711	711	711	711	712	712	712	712	712	712	712	711	711	711	711	711	711	711	711	711	711	711	711	712	710
25	711	711	711	711	711	711	712	712	712	712	712	712	711	711	710	710	710	709	710	710	710	711	711	711	711	712	709
26	711	711	711	711	711	711	712	712	712	712	712	712	711	711	710	710	710	710	710	710	711	711	711	711	711	712	710
27	711	711	712	712	712	712	713	713	714	714	714	713	713	713	712	712	712	712	713	713	713	714	714	714	713	714	711
28	714	714	714	714	714	714	714	714	715	715	714	714	713	713	712	712	712	712	712	712	713	713	713	713	713	715	712
29	713	713	713	713	713	713	714	714	714	714	714	714	713	713	712	712	712	711	712	712	712	712	713	713	713	714	711
30	713	713	712	712	713	713	713	714	714	714	714	713	713	712	711	711	711	711	711	711	711	712	712	712	712	714	711
Avg	713	713	713	713	713	713	713	714	714	714	714	714	713	712	712	711	711	711	711	711	712	712	712	712	713	--	--
Max	716	716	716	716	717	717	717	717	717	717	717	717	716	715	715	714	714	714	714	715	715	716	716	716	--	717	--
Min	709	709	709	709	709	709	710	710	711	711	711	711	710	710	709	709	708	708	708	708	709	709	709	709	--	--	708

SAROAD for Resolution, Far_West
"Component, Channel: Table100, DeltaTemp_C"
Month: Jul 2017

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	--	--	--	--	--	--	-0.09	-0.44	-0.75	-0.81	-0.99	-1.16	-1.13	-1.27	-1.18	-1.01	-0.82	-0.62	-0.35	--	--	--	--	--	-0.82	-0.09	-1.27
2	--	--	--	--	--	--	0.04	-0.45	-0.67	-0.89	-1.04	-1.22	-1.23	-1.16	-1.16	-1.22	-0.94	-0.73	--	--	--	--	--	--	-0.89	0.04	-1.23
3	--	--	--	--	--	--	0.04	-0.49	-0.75	-0.99	-1.23	-1.27	-1.37	-1.40	-1.35	-1.27	-1.09	-0.78	--	--	--	--	--	--	-0.99	0.04	-1.40
4	--	--	--	--	--	--	-0.08	-0.52	-0.76	-0.88	-0.85	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.62	-0.08	-0.88
5	--	--	--	--	--	--	-0.07	-0.55	-0.81	-0.95	-1.02	-1.29	-1.47	-1.31	-1.31	-1.26	-1.03	-0.76	-0.42	--	--	--	--	--	-0.94	-0.07	-1.47
6	--	--	--	--	--	--	-0.15	-0.53	-0.71	-0.78	-1.00	-1.13	-1.09	-1.30	-1.33	-1.19	-1.07	-0.78	-0.42	--	--	--	--	--	-0.88	-0.15	-1.33
7	--	--	--	--	--	--	1.06	-0.38	-0.71	-0.95	-1.16	-1.13	-1.17	-1.07	-0.96	-0.94	-1.01	0.01	--	--	--	--	--	--	-0.70	1.06	-1.17
8	--	--	--	--	--	--	0.20	-0.42	-0.77	-0.93	-1.11	-1.30	-1.20	-1.38	-1.27	-0.92	-0.50	-0.27	-0.24	--	--	--	--	--	-0.78	0.20	-1.38
9	--	--	--	--	--	--	-0.23	-0.30	-0.52	-0.95	-1.04	-1.36	-1.37	-1.36	-1.33	-1.29	-1.18	-0.68	-0.57	--	--	--	--	--	-0.94	-0.23	-1.37
10	--	--	--	--	--	--	-0.12	-0.52	-0.69	-0.86	-1.13	-1.24	-1.44	-1.41	-1.42	-1.30	-1.09	-0.86	-0.53	--	--	--	--	--	-0.97	-0.12	-1.44
11	--	--	--	--	--	--	-0.26	-0.44	-0.65	-0.59	-0.65	-0.61	-0.79	-1.00	-0.86	-0.67	-0.61	-0.49	-0.33	--	--	--	--	--	-0.61	-0.26	-1.00
12	--	--	--	--	--	--	-0.20	-0.61	-0.57	-0.89	-1.21	-1.43	--	--	--	--	--	--	--	--	--	--	--	--	-0.82	-0.20	-1.43
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.21	-1.17	-0.84	-0.47	-0.07	0.49	0.86	-0.16	-0.15	-0.30	0.86	-1.21
14	-0.13	-0.11	-0.07	0.03	0.14	0.05	-0.29	-0.54	-0.88	-0.98	-1.18	-1.21	-1.33	-1.34	-1.22	-1.15	-1.17	-0.64	0.47	0.12	0.08	0.19	0.43	0.42	-0.43	0.47	-1.34
15	0.33	0.29	0.44	0.32	0.35	0.40	0.07	-0.31	-0.58	-0.71	-0.80	-0.94	-1.19	-1.28	-1.12	-1.14	-1.03	0.03	0.10	0.02	0.17	0.10	0.05	0.09	-0.27	0.44	-1.28
16	0.10	0.32	0.35	0.15	0.50	0.43	-0.08	-0.41	-0.51	-0.67	-0.63	-0.88	-0.86	-0.93	-1.04	-0.97	-1.01	-0.84	-0.44	-0.35	-0.32	-0.23	-0.17	0.24	-0.34	0.50	-1.04
17	0.16	-0.04	0.04	0.18	0.21	-0.05	-0.17	-0.18	-0.31	-0.45	-0.55	-0.80	-0.86	-0.89	-0.93	-0.84	-0.88	-0.73	-0.47	-0.26	-0.16	-0.08	-0.04	-0.19	-0.34	0.21	-0.93
18	0.00	-0.08	0.00	-0.03	0.02	0.19	-0.19	-0.29	-0.46	-0.52	-0.68	-0.82	-1.05	-1.14	-0.98	-0.42	-0.33	-0.32	-0.20	-0.10	-0.04	-0.03	0.11	0.14	-0.30	0.19	-1.14
19	0.08	0.21	0.15	0.16	0.16	0.30	-0.16	-0.39	-0.61	-0.83	-0.94	-1.01	-1.15	-1.16	-1.03	-0.69	-0.49	-0.51	-0.37	-0.20	-0.18	-0.09	-0.03	-0.02	-0.37	0.30	-1.16
20	-0.06	-0.06	0.00	-0.08	-0.07	0.17	-0.08	-0.25	-0.57	-0.88	-0.81	-0.84	-1.05	-0.78	-0.93	-1.11	-1.09	-0.88	-0.56	-0.23	-0.26	-0.21	-0.27	-0.29	-0.47	0.17	-1.11
21	-0.18	-0.17	-0.13	-0.10	-0.08	-0.11	-0.23	-0.37	-0.59	-0.70	-1.09	-1.10	-1.24	-1.20	-1.27	-1.14	-1.18	-0.92	-0.62	-0.38	-0.24	-0.18	-0.17	-0.16	-0.56	-0.08	-1.27
22	-0.08	-0.08	0.04	-0.01	0.03	0.04	-0.23	-0.26	-0.71	-0.90	-0.86	-1.22	-1.46	-1.35	-1.29	-1.24	-1.17	-0.45	-0.38	-0.25	-0.24	-0.18	-0.19	-0.17	-0.52	0.04	-1.46
23	-0.13	-0.13	-0.11	-0.12	-0.06	-0.02	-0.25	-0.31	-0.67	-0.71	-0.83	-1.01	-1.20	-1.09	-1.00	-1.14	-1.11	-0.42	-0.05	-0.04	-0.06	-0.13	-0.03	-0.08	-0.45	-0.02	-1.20
24	-0.15	-0.11	-0.09	-0.06	-0.07	-0.11	0.02	-0.11	-0.24	-0.46	-0.45	-0.63	-0.73	-0.77	-0.65	-0.44	-0.55	-0.35	-0.24	-0.05	0.07	0.18	0.11	0.07	-0.24	0.18	-0.77
25	0.20	0.16	0.06	0.10	0.11	0.26	-0.06	-0.27	-0.50	-0.73	-0.83	-0.85	-1.12	-0.77	-1.05	-1.02	-0.96	-0.69	-0.45	-0.01	0.20	0.24	0.17	0.31	-0.31	0.31	-1.12
26	0.25	0.27	0.30	0.34	0.17	0.09	-0.17	-0.39	-0.62	-0.66	-0.96	-0.91	-1.21	-1.18	-1.08	-1.17	-1.06	-0.83	-0.52	-0.10	0.17	0.39	0.48	0.48	-0.33	0.48	-1.21
27	0.23	0.12	0.15	0.32	0.14	0.29	0.01	-0.41	-0.59	-0.77	-1.07	-1.07	-1.09	-1.20	-1.30	-1.14	-0.94	-0.78	-0.43	-0.23	-0.12	-0.15	-0.17	-0.19	-0.43	0.32	-1.30
28	-0.10	-0.19	-0.15	-0.17	-0.04	0.08	0.12	-0.25	-0.45	-0.47	-0.80	-0.83	-1.09	-1.21	-1.27	-1.19	-0.99	-0.79	-0.40	-0.17	-0.07	0.31	0.08	0.07	-0.42	0.31	-1.27
29	0.11	0.11	0.16	0.31	0.08	-0.03	-0.18	-0.40	-0.62	-0.60	-0.76	-0.92	-1.09	-0.74	-0.25	-0.50	-0.76	-0.44	-0.27	-0.17	-0.15	-0.14	-0.12	-0.11	-0.31	0.31	-1.09
30	-0.15	-0.12	-0.14	-0.11	-0.13	-0.04	-0.14	-0.20	-0.32	-0.41	-0.52	-0.78	-1.04	-1.20	-1.17	-1.07	-0.90	-0.50	-0.32	-0.13	0.00	-0.04	-0.09	-0.11	-0.40	0.00	-1.20
31	-0.11	-0.03	-0.04	-0.06	0.09	0.38	-0.19	-0.58	-0.62	-0.75	-0.79	-0.94	-1.01	-1.03	-0.94	-0.96	-0.93	-0.83	-0.53	-0.19	-0.10	-0.15	-0.09	-0.07	-0.44	0.38	-1.03
Avg	0.02	0.02	0.05	0.06	0.09	0.13	-0.07	-0.38	-0.61	-0.76	-0.90	-1.03	-1.14	-1.14	-1.10	-1.02	-0.93	-0.61	-0.35	-0.15	-0.04	0.03	0.00	0.01	-0.49	--	--
Max	0.33	0.32	0.44	0.34	0.50	0.43	1.06	-0.11	-0.24	-0.41	-0.45	-0.61	-0.73	-0.74	-0.25	-0.42	-0.33	0.03	0.47	0.12	0.49	0.86	0.48	0.48	--	1.06	--
Min	-0.18	-0.19	-0.15	-0.17	-0.13	-0.11	-0.29	-0.61	-0.88	-0.99	-1.23	-1.43	-1.47	-1.41	-1.42	-1.30	-1.18	-0.92	-0.62	-0.38	-0.32	-0.23	-0.27	-0.29	--	--	-1.47

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, DeltaTemp_C"
Month: Aug 2017

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	-0.06	-0.11	-0.14	-0.16	-0.06	-0.11	-0.07	0.06	-0.05	-0.28	-0.55	-0.80	-0.86	-0.87	-0.86	-1.07	-0.50	0.11	0.03	0.11	0.20	0.20	0.19	0.21	-0.23	0.21	-1.07
2	0.25	0.41	0.59	0.81	0.80	0.44	0.48	0.06	0.04	-0.06	-0.20	-0.22	-0.50	-0.60	-0.31	-0.12	-0.22	-0.26	-0.17	0.05	0.13	0.10	0.12	0.82	0.10	0.82	-0.60
3	0.35	0.60	0.78	0.24	0.14	0.19	0.00	-0.23	-0.34	-0.69	-0.77	-0.72	-0.84	-0.95	-0.93	-1.06	-0.65	-0.26	-0.38	-0.21	-0.02	-0.04	-0.01	0.09	-0.24	0.78	-1.06
4	0.25	0.22	0.09	0.40	0.14	0.16	-0.11	-0.41	-0.78	-0.79	-1.01	-1.09	-1.10	-1.17	-1.06	-1.07	-0.92	-0.67	-0.36	0.32	0.69	0.82	0.09	-0.01	-0.31	0.82	-1.17
5	-0.06	-0.08	0.01	0.13	0.03	0.11	-0.05	-0.41	-0.64	-0.80	-0.94	-1.01	-1.10	-1.14	-1.15	-1.15	-0.92	-0.70	-0.40	0.39	1.31	1.30	0.18	0.63	-0.27	1.31	-1.15
6	0.65	0.33	0.26	0.43	0.58	0.90	0.09	-0.37	-0.63	-0.82	-0.96	-1.01	-1.01	-1.18	-1.12	-0.98	-0.90	-0.54	-0.27	0.55	1.25	0.50	0.30	0.31	-0.15	1.25	-1.18
7	0.46	0.59	0.91	0.76	0.61	0.57	0.02	-0.35	-0.64	-0.73	-0.94	-1.06	-1.16	-1.03	-1.10	-1.00	-0.89	-0.58	-0.36	1.38	1.55	0.47	0.39	0.75	-0.06	1.55	-1.16
8	0.79	0.71	0.65	0.58	0.38	0.62	0.49	-0.35	-0.64	-0.76	-0.85	-0.95	-1.06	-1.02	-1.06	-0.90	-0.96	-0.71	-0.30	0.65	2.14	1.42	0.50	0.76	0.01	2.14	-1.06
9	0.70	0.63	0.72	0.62	0.93	2.37	1.31	-0.34	-0.41	-0.59	-0.83	-1.04	-1.08	-1.13	-1.12	-1.03	-0.88	-0.62	-0.26	0.72	2.55	2.25	0.55	0.45	0.19	2.55	-1.13
10	0.30	0.43	0.46	0.23	0.28	0.33	0.15	0.23	-0.02	-0.19	-0.58	-0.58	-0.79	-0.84	-0.99	-1.08	-0.62	-0.38	0.02	0.28	-0.16	-0.20	-0.15	-0.10	-0.17	0.46	-1.08
11	-0.05	-0.05	0.00	-0.07	-0.14	-0.10	-0.21	-0.41	-0.54	-0.80	-1.10	-1.14	-1.06	-1.10	-1.19	-1.10	-1.06	-0.70	-0.38	0.30	1.00	1.36	1.83	0.42	-0.26	1.83	-1.19
12	0.43	0.52	0.61	0.27	0.39	0.36	0.02	0.10	0.03	-0.08	-0.29	-0.98	-0.95	-1.20	-1.23	-1.04	-0.89	-0.75	-0.43	0.23	0.71	0.63	-0.01	-0.14	-0.15	0.71	-1.23
13	-0.06	0.02	0.00	-0.01	-0.01	-0.03	-0.03	-0.13	-0.25	-0.60	-0.78	-0.83	-0.93	-0.93	-0.94	-0.89	-0.79	-0.61	-0.26	0.35	0.91	0.60	0.31	0.12	-0.24	0.91	-0.94
14	0.21	0.21	0.19	0.16	0.16	0.26	0.02	-0.30	-0.58	-0.67	-0.83	-0.97	-1.10	-0.98	-1.05	-1.04	-0.93	-0.65	-0.32	0.49	1.15	0.41	0.33	0.35	-0.23	1.15	-1.10
15	0.37	0.40	0.43	0.47	0.54	0.79	0.22	-0.29	-0.53	-0.77	-0.85	-1.12	-1.22	-1.27	-1.09	-0.96	-0.86	-0.63	-0.20	1.17	1.78	1.65	1.92	1.70	0.07	1.92	-1.27
16	0.97	0.76	0.52	0.56	0.88	0.56	0.22	-0.30	-0.60	--	--	-1.05	-1.10	-1.17	-1.13	-1.06	-0.81	-0.57	0.06	1.55	2.36	0.61	1.36	0.71	0.15	2.36	-1.17
17	0.72	1.23	1.84	1.18	0.80	0.76	0.27	-0.30	-0.49	-0.81	-1.01	-1.07	-1.18	-1.15	-1.12	-0.92	-0.83	-0.60	-0.07	2.76	1.26	0.60	0.69	1.07	0.15	2.76	-1.18
18	0.60	0.66	0.98	1.23	0.51	0.51	0.20	-0.32	-0.54	-0.68	-0.85	-1.12	-1.08	-1.10	-0.91	-1.08	-0.94	-0.58	0.03	1.73	3.81	1.90	1.34	0.60	0.20	3.81	-1.12
19	0.59	1.38	1.25	1.75	0.84	1.04	0.77	-0.27	-0.53	-0.81	-0.89	-0.94	-1.23	-0.88	-1.01	-1.08	-0.98	-0.69	-0.28	1.06	1.73	1.86	0.93	1.04	0.19	1.86	-1.23
20	0.58	0.44	0.62	0.22	0.32	0.27	0.27	-0.14	-0.19	-0.78	-0.95	-1.01	-1.08	-1.07	-1.29	-0.99	-0.93	-0.52	-0.17	0.17	-0.16	0.07	0.17	0.25	-0.25	0.62	-1.29
21	0.75	0.39	0.04	0.15	0.45	0.53	0.08	-0.35	-0.65	-0.77	-0.60	-0.78	-0.78	-1.20	-1.10	-1.15	-0.93	-0.72	-0.28	0.36	1.36	2.13	1.22	0.54	-0.06	2.13	-1.20
22	0.48	0.59	0.72	1.40	1.23	0.35	0.29	-0.33	-0.65	-0.87	-0.92	-0.97	-1.00	-0.99	-0.98	-1.20	-1.02	-0.69	-0.27	0.50	1.06	0.94	0.84	0.58	-0.04	1.40	-1.20
23	0.39	0.52	0.46	0.25	0.51	0.50	0.52	-0.16	-0.67	-0.83	-0.95	-1.03	-1.08	-0.75	-0.99	-0.88	-0.74	-0.31	-0.23	-0.24	-0.19	-0.15	-0.06	0.08	-0.25	0.52	-1.08
24	0.00	0.06	0.25	0.32	0.65	0.41	0.08	-0.38	-0.63	-0.84	-0.93	-1.08	-1.13	-1.19	-1.12	-1.08	-0.97	-0.66	-0.33	0.06	0.53	1.21	1.04	0.80	-0.21	1.21	-1.19
25	0.98	1.02	0.87	0.55	0.92	1.14	1.01	-0.35	-0.87	-0.97	-1.09	-1.18	-1.18	-1.16	-1.27	-1.15	-0.93	-0.62	-0.22	0.81	1.73	1.13	0.91	0.39	0.02	1.73	-1.27
26	0.60	0.47	0.95	1.42	1.04	0.68	0.29	-0.34	-0.56	-0.93	-1.01	-0.92	-1.07	-1.04	-1.17	-1.02	-0.89	-0.46	-0.13	0.07	-0.04	0.03	0.09	0.28	-0.15	1.42	-1.17
27	0.25	0.28	0.29	0.22	0.27	0.31	0.36	-0.18	-0.48	-0.83	-0.92	-0.93	-1.13	-1.03	-1.16	-1.08	-0.90	-0.64	0.24	0.52	0.14	0.28	0.43	0.29	-0.23	0.52	-1.16
28	0.29	0.31	0.38	1.12	2.25	1.26	0.33	-0.26	-0.57	-0.82	-1.07	-1.16	-1.12	-1.00	-1.00	-0.92	-1.04	-0.42	-0.31	-0.16	-0.07	0.07	0.30	0.22	-0.14	2.25	-1.16
29	0.39	0.39	0.23	0.36	0.74	0.99	0.62	-0.19	-0.61	-0.85	-1.03	-1.09	-1.01	-1.03	-1.08	-1.09	-0.87	-0.63	-0.23	0.62	0.14	0.20	0.61	0.13	-0.18	0.99	-1.09
30	0.14	0.15	0.28	1.57	1.35	0.49	0.37	-0.27	-0.60	-0.85	-1.19	-1.13	-1.07	-1.13	-1.11	-0.84	-0.75	-0.44	-0.06	0.45	0.34	0.30	0.32	0.26	-0.14	1.57	-1.19
31	0.36	0.35	0.36	0.45	1.10	0.95	0.74	-0.10	-0.48	-0.79	-1.09	-1.18	-1.19	-1.17	-0.95	-0.83	-0.70	-0.38	0.02	0.81	1.69	1.82	1.95	2.17	0.16	2.17	-1.19
Avg	0.41	0.45	0.50	0.57	0.60	0.57	0.28	-0.24	-0.49	-0.70	-0.87	-0.97	-1.04	-1.05	-1.05	-1.00	-0.85	-0.54	-0.20	0.58	1.00	0.79	0.60	0.51	-0.09	--	--
Max	0.98	1.38	1.84	1.75	2.25	2.37	1.31	0.23	0.04	-0.06	-0.20	-0.22	-0.50	-0.60	-0.31	-0.12	-0.22	0.11	0.24	2.76	3.81	2.25	1.95	2.17	--	3.81	--
Min	-0.06	-0.11	-0.14	-0.16	-0.14	-0.11	-0.21	-0.41	-0.87	-0.97	-1.19	-1.18	-1.23	-1.27	-1.29	-1.20	-1.06	-0.75	-0.43	-0.24	-0.19	-0.20	-0.15	-0.14	--	--	-1.29

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, DeltaTemp_C"
Month: Sep 2017

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	2.60	3.60	1.89	1.59	2.53	2.73	1.81	-0.15	-0.51	-0.72	-1.04	-1.14	-1.13	-1.04	-0.93	-0.85	-0.68	-0.36	0.04	0.71	0.89	1.95	1.09	0.36	0.55	3.60	-1.14
2	-0.07	0.03	0.06	0.22	0.42	0.74	-0.01	-0.41	-0.52	-0.65	-0.72	-0.80	-0.92	-0.75	-0.87	-0.61	-0.74	-0.43	-0.10	0.30	0.17	0.15	0.39	0.31	-0.20	0.74	-0.92
3	0.39	0.45	1.19	0.87	0.63	0.31	-0.08	-0.40	-0.77	-0.99	-1.00	-1.30	-1.37	-1.26	-1.34	-1.20	-0.86	-0.56	-0.17	0.18	0.48	0.05	0.05	0.00	-0.28	1.19	-1.37
4	0.22	0.22	0.20	0.31	0.46	0.33	-0.02	-0.37	-0.74	-0.94	-1.21	-1.23	-1.26	-1.25	-1.24	-1.17	-0.88	-0.67	-0.33	-0.08	0.03	0.15	0.80	0.46	-0.34	0.80	-1.26
5	0.77	0.19	0.32	0.47	0.52	0.67	0.11	-0.32	-0.46	-0.55	-0.76	-0.90	-1.06	-1.17	-1.28	-1.11	-0.85	-0.52	-0.15	0.00	0.16	0.64	0.84	0.70	-0.16	0.84	-1.28
6	1.05	0.54	0.69	1.43	1.52	3.20	1.46	0.47	-0.40	-0.75	-0.99	-1.11	-1.15	-1.03	-0.93	-0.79	-0.60	-0.40	0.19	1.51	2.05	0.61	0.47	0.84	0.33	3.20	-1.15
7	1.26	0.73	0.81	0.46	0.59	0.87	0.22	-0.25	-0.59	-0.74	-0.81	-1.01	-1.05	-1.12	-1.10	-0.95	-0.82	-0.38	-0.01	0.56	0.35	0.55	0.75	0.84	-0.04	1.26	-1.12
8	0.56	1.36	0.68	1.55	0.52	0.65	0.83	-0.26	-0.53	-0.52	-0.65	-0.79	-0.99	-1.05	-1.15	-1.04	-0.84	-0.56	0.09	0.61	0.10	0.08	0.22	0.20	-0.04	1.55	-1.15
9	0.15	0.18	0.18	0.46	0.45	0.29	0.06	-0.18	-0.37	-0.57	-0.71	-0.84	-0.83	-0.93	-0.80	-0.88	-0.66	-0.29	0.00	0.21	0.84	0.72	0.83	1.09	-0.07	1.09	-0.93
10	0.97	0.51	0.63	0.99	1.32	0.87	1.29	0.27	-0.44	-0.64	-0.79	-0.73	-0.90	-0.87	-0.91	-0.74	-0.57	-0.21	0.23	1.19	1.43	1.47	2.13	0.80	0.31	2.13	-0.91
11	0.90	1.68	1.15	1.82	0.82	0.71	0.44	-0.07	-0.44	-0.72	-0.96	-0.97	-0.94	-1.01	-0.94	-0.80	-0.75	-0.43	0.02	0.43	1.24	1.57	1.49	0.98	0.22	1.82	-1.01
12	1.03	0.81	0.53	1.00	1.31	1.73	1.12	-0.19	-0.70	-0.85	-0.91	-1.05	-1.15	-1.20	-1.10	-1.03	-0.82	-0.48	0.13	1.06	2.10	2.11	1.65	1.92	0.29	2.11	-1.20
13	2.55	3.61	1.04	0.77	0.58	0.88	0.55	-0.14	-0.58	-0.79	-0.88	-1.10	-1.12	-1.26	-1.15	-1.10	-0.81	-0.40	0.11	0.27	0.04	0.46	0.22	0.17	0.08	3.61	-1.26
14	0.25	0.52	0.45	0.59	0.51	0.26	0.21	-0.25	-0.60	-0.82	-1.04	-1.12	-1.25	-1.09	-0.90	-0.53	-0.57	-0.31	-0.08	0.02	0.05	0.14	0.37	0.81	-0.18	0.81	-1.25
15	0.91	1.23	1.01	1.29	1.16	0.64	0.16	-0.30	-0.63	-0.89	-1.00	-1.22	-1.30	-1.33	-1.12	-1.10	-0.84	-0.42	0.01	0.70	1.76	0.73	1.00	0.51	0.04	1.76	-1.33
16	0.39	0.55	0.93	1.74	2.00	1.36	1.13	-0.30	-0.58	-0.81	-0.91	-1.01	-1.15	-1.20	-0.93	-1.05	-0.76	-0.48	0.24	1.51	1.07	0.81	0.45	0.29	0.14	2.00	-1.20
17	0.27	0.25	0.36	0.72	0.63	0.46	0.33	-0.34	-0.41	-0.71	-0.93	-1.19	-1.22	-1.21	-1.18	-1.02	-0.81	-0.41	0.47	1.38	1.35	1.64	2.38	1.00	0.07	2.38	-1.22
18	1.29	0.99	1.76	1.57	1.20	0.78	0.44	-0.32	-0.39	-0.62	-0.85	-0.97	-1.19	-1.16	-1.09	-0.86	-0.62	-0.25	0.73	2.59	2.98	1.30	1.00	1.05	0.39	2.98	-1.19
19	0.88	1.19	0.90	1.00	1.65	1.33	0.42	-0.28	-0.51	-0.77	-0.99	-1.22	-1.27	-1.21	-1.16	-0.94	-0.67	-0.26	0.04	0.23	0.76	1.36	1.32	1.55	0.14	1.65	-1.27
20	1.06	1.79	1.19	0.95	0.97	0.82	0.30	-0.25	-0.59	-0.85	-0.99	-1.06	-1.21	-1.19	-1.06	-0.98	-0.68	-0.25	0.12	0.71	1.19	1.11	1.11	1.38	0.15	1.79	-1.21
21	1.12	1.17	1.51	2.43	0.52	0.61	0.49	-0.18	-0.55	-0.70	-1.01	-1.09	-1.21	-1.14	-1.08	-0.99	-0.60	-0.25	0.09	0.53	0.75	1.50	1.24	0.23	0.14	2.43	-1.21
22	0.57	0.43	0.36	0.15	0.29	1.18	1.77	-0.19	-0.55	-0.84	-1.04	-1.22	-1.22	-1.22	-1.14	-1.12	-0.85	-0.43	-0.10	0.00	0.09	0.48	0.80	1.36	-0.10	1.77	-1.22
23	0.63	0.61	0.52	0.30	0.88	0.67	0.94	-0.27	-0.51	-0.75	-1.00	-1.11	-1.22	-1.14	-1.12	-1.03	-0.80	-0.40	0.03	0.45	1.09	1.61	2.14	2.42	0.12	2.42	-1.22
24	1.42	1.01	1.94	0.79	0.70	0.41	0.25	-0.28	-0.75	-0.83	-1.03	-1.15	-1.20	-1.11	-1.14	-1.02	-0.79	-0.38	0.31	1.35	2.41	2.78	1.02	0.70	0.23	2.78	-1.20
25	0.72	0.74	1.75	1.80	0.94	1.35	1.29	-0.26	-0.50	-0.74	-0.97	-1.00	-1.03	-1.11	-0.85	-0.86	-0.68	-0.37	1.01	2.45	2.54	1.59	0.63	0.54	0.38	2.54	-1.11
26	0.41	0.52	0.85	0.53	0.63	1.33	0.68	-0.25	-0.39	-0.48	-0.75	-1.06	-1.03	-1.14	-0.96	-0.64	-0.65	-0.29	0.11	0.13	0.26	0.63	1.21	2.76	0.10	2.76	-1.14
27	2.47	1.50	0.98	1.07	0.89	1.60	0.88	-0.13	-0.36	-0.76	-0.95	-0.97	-1.11	-1.05	-1.05	-0.92	-0.75	-0.34	0.54	1.41	2.35	2.44	0.93	0.76	0.39	2.47	-1.11
28	0.91	1.04	1.32	1.95	3.77	4.62	2.40	0.07	-0.53	-0.84	-0.91	-0.96	-1.02	-1.09	-0.98	-0.89	-0.72	-0.42	0.12	0.79	1.24	1.73	2.53	1.11	0.64	4.62	-1.09
29	0.83	0.81	1.48	1.64	2.25	1.98	2.12	-0.14	-0.62	-0.81	-0.94	-0.83	-1.01	-1.02	-1.07	-0.96	-0.72	-0.34	0.30	1.42	1.67	1.67	1.12	0.81	0.40	2.25	-1.07
30	0.64	1.03	1.28	1.07	1.61	0.52	1.38	-0.15	-0.51	-0.79	-0.92	-1.11	-1.14	-1.18	-1.02	-0.88	-0.56	-0.24	0.48	1.30	1.53	1.95	1.61	1.00	0.29	1.95	-1.18
Avg	0.91	0.98	0.93	1.05	1.07	1.13	0.77	-0.19	-0.53	-0.75	-0.92	-1.04	-1.12	-1.12	-1.05	-0.94	-0.73	-0.38	0.15	0.80	1.10	1.13	1.06	0.90	0.13	--	--
Max	2.60	3.61	1.94	2.43	3.77	4.62	2.40	0.47	-0.36	-0.48	-0.65	-0.73	-0.83	-0.75	-0.80	-0.53	-0.56	-0.21	1.01	2.59	2.98	2.78	2.53	2.76	--	4.62	--
Min	-0.07	0.03	0.06	0.15	0.29	0.26	-0.08	-0.41	-0.77	-0.99	-1.21	-1.30	-1.37	-1.33	-1.34	-1.20	-0.88	-0.67	-0.33	-0.08	0.03	0.05	0.05	0.00	--	--	-1.37

SAROAD for Resolution, Far_West
"Component, Channel: Table100, RH_Percent"
Month: Jul 2017

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

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, RH_Percent"
Month: Aug 2017

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

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, RH_Percent"
Month: Sep 2017

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	21	22	22	23	24	26	28	23	15	14	13	12	11	11	10	10	10	9	9	10	11	13	14	14	16	28	9
2	42	51	54	56	58	60	58	51	51	45	36	20	18	27	33	30	28	27	29	31	33	40	42	43	40	60	18
3	46	47	49	51	54	56	55	48	45	41	36	33	29	23	22	22	22	23	25	27	30	40	43	48	38	56	22
4	52	57	60	63	65	67	67	61	56	51	46	41	37	31	28	25	24	24	24	24	24	27	31	33	42	67	24
5	35	38	37	40	41	43	44	39	33	30	26	20	21	20	17	15	15	16	17	17	19	21	21	21	27	44	15
6	27	33	30	31	30	26	30	24	18	17	16	14	12	12	11	11	10	12	13	17	18	18	19	20	19	33	10
7	23	26	28	31	34	34	33	35	36	36	32	29	27	24	23	22	21	19	34	39	33	46	51	56	32	56	19
8	53	62	72	71	68	69	63	55	44	38	33	28	30	31	28	26	26	26	49	77	78	73	64	73	52	78	26
9	73	55	59	64	61	65	80	73	61	52	47	40	37	34	32	31	31	32	34	38	47	51	57	59	51	80	31
10	63	66	74	71	72	70	69	63	50	39	33	28	24	21	19	18	17	18	20	27	29	28	32	28	41	74	17
11	29	29	29	31	28	28	28	25	23	19	18	18	17	16	15	14	15	15	17	20	25	28	30	30	23	31	14
12	31	35	34	37	40	43	40	35	25	21	18	17	18	17	16	15	14	15	16	19	25	28	30	29	26	43	14
13	31	35	34	35	35	36	39	32	27	24	22	21	19	17	16	17	16	17	19	21	28	30	30	35	27	39	16
14	38	39	38	38	39	39	40	36	32	27	25	24	21	20	19	20	23	22	24	26	29	33	38	41	31	41	19
15	42	42	44	47	47	50	52	44	38	37	35	29	23	22	19	20	19	18	20	23	26	25	26	27	32	52	18
16	29	30	29	32	34	35	41	38	34	39	37	33	29	21	19	21	19	19	21	24	26	29	29	29	29	41	19
17	30	35	36	36	37	37	37	32	26	26	29	27	25	23	20	18	16	16	17	17	20	22	25	29	27	37	16
18	29	31	32	33	34	35	35	29	22	20	17	14	11	10	9	9	8	9	9	12	15	17	17	19	20	35	8
19	20	21	23	30	39	40	33	30	31	34	34	33	31	23	15	14	13	14	12	9	9	10	10	12	22	40	9
20	16	21	27	30	33	37	37	36	40	38	33	28	27	21	15	12	9	10	10	9	12	13	13	15	22	40	9
21	17	21	21	22	23	22	24	22	27	26	20	22	21	14	12	14	13	13	14	17	17	17	19	20	19	27	12
22	19	22	25	31	35	39	39	36	40	40	37	33	31	27	25	26	26	27	29	28	26	28	28	25	30	40	19
23	26	24	21	22	24	24	25	21	16	15	13	12	12	11	11	10	10	12	13	15	18	20	21	22	18	26	10
24	24	25	27	28	30	31	31	26	22	19	16	14	13	12	12	11	10	9	10	12	14	15	16	17	19	31	9
25	19	19	20	21	23	23	24	21	15	11	10	9	9	8	7	6	6	6	7	9	11	12	14	15	14	24	6
26	16	16	17	19	20	23	23	19	14	10	9	8	7	8	7	8	8	8	9	10	11	11	12	13	13	23	7
27	15	15	16	16	17	18	19	17	13	11	10	10	9	11	10	9	9	9	10	12	13	14	16	16	13	19	9
28	19	25	29	31	32	34	37	31	23	24	28	29	26	24	21	19	20	19	20	21	22	24	26	29	26	37	19
29	32	33	31	32	32	33	36	31	30	35	33	30	26	20	17	16	17	16	16	18	19	21	24	29	26	36	16
30	30	31	33	33	34	35	34	32	30	32	27	20	18	16	14	13	12	12	13	14	16	17	18	20	23	35	12
Avg	31	34	35	37	38	39	40	36	31	29	26	23	21	19	17	17	16	16	19	21	23	26	27	29	27	--	--
Max	73	66	74	71	72	70	80	73	61	52	47	41	37	34	33	31	31	32	49	77	78	73	64	73	--	80	--
Min	15	15	16	16	17	18	19	17	13	10	9	8	7	8	7	6	6	6	7	9	9	10	10	12	--	--	6

SAROAD for Resolution, Far_West
"Component, Channel: Table100, SR_Wm2_2m"
Month: Jul 2017

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	20.8	190	421	658	859	1,012	1,099	1,131	1,111	1,011	845	651	416	177	16.9	0	0	0	0	401	1,131	0
2	0	0	0	0	0	18.5	178	400	629	827	978	1,067	1,097	1,068	980	818	622	393	166	16.2	0	0	0	0	386	1,097	0
3	0	0	0	0	0	15.2	158	376	600	796	948	1,037	1,073	1,049	958	802	615	391	168	17.2	0	0	0	0	375	1,073	0
4	0	0	0	0	0	15.3	165	389	620	819	969	1,063	1,098	1,078	990	830	635	404	177	18.6	0	0	0	0	386	1,098	0
5	0	0	0	0	0	15.4	171	421	620	812	959	1,057	1,094	1,067	972	820	627	397	160	18	0	0	0	0	384	1,094	0
6	0	0	0	0	0	13.4	151	366	589	791	947	1,044	1,085	1,064	979	823	621	399	167	8.47	0	0	0	0	377	1,085	0
7	0	0	0	0	0	10.9	153	365	597	800	948	1,040	1,072	1,053	964	836	646	61.8	27.4	7.85	0	0	0	0	358	1,072	0
8	0	0	0	0	0	11.7	146	370	594	792	948	1,042	1,088	1,112	895	421	129	87.9	88.8	9.58	0	0	0	0	322	1,112	0
9	0	0	0	0	0	8.2	109	150	294	605	795	1,090	1,078	1,048	954	812	720	223	195	30.2	0	0	0	0	338	1,090	0
10	0	0	0	0	0	3.75	73.3	291	588	785	942	1,041	1,110	937	957	803	617	438	219	21	0	0	0	0	368	1,110	0
11	0	0	0	0	0	6.91	65.8	174	385	428	442	414	606	566	367	327	298	233	89.5	19.4	0	0	0	0	184	606	0
12	0	0	0	0	0	7.06	134	396	399	595	983	1,028	1,071	1,044	952	793	608	385	177	16.8	0	0	0	0	358	1,071	0
13	0	0	0	0	0	6.06	133	357	564	780	--	--	--	--	--	804	613	386	152	14.9	0	0	0	0	201	804	0
14	0	0	0	0	0	16.1	150	321	586	781	939	1,040	1,080	1,052	957	796	679	288	20	4.58	0	0	0	0	363	1,080	0
15	0	0	0	0	0	10.4	131	367	587	783	881	991	1,076	1,049	954	831	449	15.3	13.4	2.74	0.042	0	0	0	339	1,076	0
16	0	0	0	0	0	11.3	83.2	385	592	787	939	1,038	1,078	1,066	959	804	626	406	109	17.5	0	0	0	0	371	1,078	0
17	0	0	0	0	0.325	10.2	69.5	109	264	599	968	1,051	1,086	1,052	986	677	609	429	140	25.2	0	0	0	0	336	1,086	0
18	0	0	0	0	0	6.35	96.6	312	582	772	930	1,044	1,090	986	709	110	25.5	80.5	59.3	5.75	0	0	0	0	284	1,090	0
19	0	0	0	0	0	13.6	109	324	573	792	946	1,042	1,090	1,088	886	206	127	127	57.9	6.83	0	0	0	0	308	1,090	0
20	0	0	0	0	0	2.65	58.1	194	466	726	892	1,044	1,077	1,054	903	809	612	385	157	5.83	0	0	0	0	349	1,077	0
21	0	0	0	0	0	8	82	211	489	707	961	973	1,072	1,007	955	817	621	363	139	9.89	0	0	0	0	351	1,072	0
22	0	0	0	0	0	5.71	89.7	203	589	777	793	1,095	1,074	1,055	894	832	577	127	146	9.86	0	0	0	0	344	1,095	0
23	0	0	0	0	0	9.79	89.1	156	480	544	941	1,071	1,166	824	765	856	632	65.9	0.474	0	0	0	0	0	317	1,166	0
24	0	0	0	0	0	3.81	25.8	24	211	319	490	871	1,133	821	379	246	445	215	118	15.3	0	0	0	0	222	1,133	0
25	0	0	0	0	0	4.22	121	340	574	775	947	987	1,061	655	936	609	613	365	144	9.23	0	0	0	0	339	1,061	0
26	0	0	0	0	0	5.86	126	343	573	767	928	1,034	1,068	1,067	955	792	571	407	180	15.8	0	0	0	0	368	1,068	0
27	0	0	0	0	0	2.69	124	347	576	779	941	1,038	848	1,009	912	832	571	354	73.1	2.68	0	0	0	0	350	1,038	0
28	0	0	0	0	0	0	28.3	261	528	769	803	866	1,072	1,042	947	795	611	361	97.4	6.53	0	0	0	0	341	1,072	0
29	0	0	0	0	0	6.41	67.4	274	565	541	860	1,050	914	510	191	431	546	125	65.1	1.4	0	0	0	0	256	1,050	0
30	0	0	0	0	0	0.462	23.1	95.3	157	250	601	794	903	1,071	882	736	508	181	72.5	10.6	0	0	0	0	262	1,071	0
31	0	0	0	0	0	1.46	117	341	551	760	963	1,061	1,078	1,060	953	787	594	375	184	9.07	0	0	0	0	368	1,078	0
Avg	0	0	0	0	0.0105	8.78	110	293	519	707	886	1,004	1,052	989	870	700	542	287	121	12.1	0.0014	0	0	0	333	--	--
Max	0	0	0	0	0.325	20.8	190	421	658	859	1,012	1,099	1,166	1,112	1,011	856	720	438	219	30.2	0.042	0	0	0	--	1,166	--
Min	0	0	0	0	0	0	23.1	24	157	250	442	414	606	510	191	110	25.5	15.3	0.474	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, SR_Wm2_2m"
Month: Aug 2017

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	0.458	10.7	33.2	148	283	680	888	1,051	1,037	884	823	139	19.4	22.4	3.25	0	0	0	0	251	1,051	0
2	0	0	0	0	0	1.16	64.5	146	128	303	420	389	861	686	266	158	151	101	53.4	2.91	0	0	0	0	155	861	0
3	0	0	0	0	0	0.921	30.5	180	369	717	654	797	1,053	1,060	950	884	293	49.1	9.86	0.0322	0	0	0	0	294	1,060	0
4	0	0	0	0	0	1.79	108	328	559	765	926	1,031	1,072	1,041	948	787	587	353	125	3.05	0	0	0	0	360	1,072	0
5	0	0	0	0	0	1.44	111	338	572	778	939	1,046	1,087	1,055	959	803	556	355	122	3.14	0	0	0	0	364	1,087	0
6	0	0	0	0	0	1.51	116	342	582	792	955	1,063	1,102	1,074	970	798	595	351	119	2.4	0	0	0	0	369	1,102	0
7	0	0	0	0	0	2.27	115	335	576	784	946	1,055	1,096	1,065	972	804	599	356	115	1.9	0	0	0	0	368	1,096	0
8	0	0	0	0	0	1.95	113	338	582	790	942	1,047	1,069	1,023	890	769	580	346	117	2.27	0	0	0	0	359	1,069	0
9	0	0	0	0	0	1.53	106	279	478	770	932	1,037	1,073	1,041	944	777	577	343	115	1.62	0	0	0	0	353	1,073	0
10	0	0	0	0	0	0.248	31.4	91.7	90.1	231	382	353	418	484	676	796	378	199	34.3	0.422	0	0	0	0	173	796	0
11	0	0	0	0	0	1.95	101	328	549	749	909	1,028	1,075	1,040	935	769	562	327	106	1.75	0	0	0	0	353	1,075	0
12	0	0	0	0	0	1.49	51.5	68.3	82.4	194	322	1,097	912	1,026	926	759	554	323	99.3	0.918	0	0	0	0.111	267	1,097	0
13	0.131	0.0673	0	0.227	0.0927	0.0005	30.7	180	441	762	919	1,020	1,055	1,022	925	764	553	322	97.8	0.616	0	0	0	0	337	1,055	0
14	0	0	0	0	0	0.937	108	315	555	620	919	1,024	1,059	1,030	934	776	559	329	95.9	0.708	0	0	0	0	347	1,059	0
15	0	0	0	0	0	0.642	96.7	321	561	774	783	1,040	1,075	1,040	937	772	553	319	94.6	0.572	0	0	0	0	349	1,075	0
16	0	0	0	0	0	0.563	97.7	326	566	--	--	1,046	1,085	1,046	940	777	557	323	93.2	0.177	0	0	0	0	312	1,085	0
17	0	0	0	0	0	0.384	100	330	574	797	964	1,072	1,111	1,074	971	804	578	333	89.1	0	0	0	0	0	367	1,111	0
18	0	0	0	0	0	0.342	94.3	326	570	782	947	1,049	1,085	1,045	941	777	566	318	86.2	0.0507	0	0	0	0	358	1,085	0
19	0	0	0	0	0	0.0835	76.7	278	496	773	928	1,038	978	528	729	688	585	325	101	0.482	0	0	0	0	313	1,038	0
20	0	0	0	0	0	0.0075	39.7	127	153	741	908	987	986	1,039	912	744	466	112	37.1	0	0	0	0	0	302	1,039	0
21	0	0	0	0	0	0.276	85.3	299	538	652	381	774	1,036	1,004	903	740	522	291	74.1	0.0397	0	0	0	0	304	1,036	0
22	0	0	0	0	0	0.186	75	304	550	745	906	1,006	1,043	1,003	902	744	528	290	71.8	0.0137	0	0	0	0	340	1,043	0
23	0	0	0	0	0	0.00525	30.5	253	535	739	905	1,000	872	462	980	642	389	48.4	11.9	0.017	0	0	0	0	286	1,000	0
24	0	0	0	0	0	0.096	78.8	299	537	742	897	997	1,035	998	893	731	513	276	64.5	0	0	0	0	0	336	1,035	0
25	0	0	0	0	0	0.12	78.1	291	526	737	894	996	1,032	997	891	726	524	221	58.2	0	0	0	0	0	332	1,032	0
26	0	0	0	0	0	0.0457	74.8	290	525	736	893	989	1,033	985	938	590	552	126	33.3	0	0	0	0	0	324	1,033	0
27	0	0	0	0	0	0.00525	57.9	166	476	728	893	992	1,026	978	872	709	499	213	11.4	0	0	0	0	0	318	1,026	0
28	0	0	0	0	0	0.00225	57.1	280	515	723	886	985	1,017	976	867	692	501	190	60.9	0	0	0	0	0	323	1,017	0
29	0	0	0	0	0	0.0035	65	227	553	714	870	971	1,004	968	862	687	459	234	47.1	0	0	0	0	0	319	1,004	0
30	0	0	0	0	0	0	62.7	267	502	709	869	971	1,008	975	861	686	472	234	41.4	0	0	0	0	0	319	1,008	0
31	0	0	0	0	0	0	56.4	250	508	730	900	1,005	1,035	992	880	698	468	235	41	0	0	0	0	0	325	1,035	0
Avg	0.0042	0.00217	0	0.0073	0.003	0.659	75	256	464	679	822	961	1,014	961	886	731	497	254	72.5	0.85	0	0	0	0.0036	319	--	--
Max	0.131	0.0673	0	0.227	0.0927	2.27	116	342	582	797	964	1,097	1,111	1,074	980	884	599	356	125	3.25	0	0	0	0.111	--	1,111	--
Min	0	0	0	0	0	0	10.7	33.2	82.4	194	322	353	418	462	266	158	139	19.4	9.86	0	0	0	0	0	--	--	0

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, SR_Wm2_2m"
Month: Sep 2017

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	60.6	259	499	708	871	974	1,003	960	844	679	438	209	33	0	0	0	0	0	314	1,003	0
2	0	0	0	0	0	0.102	50	256	337	698	721	661	601	424	438	387	306	108	19.2	0	0	0	0	0	209	721	0
3	0	0	0	0	0	0.0808	62.8	272	516	643	860	961	1,000	963	849	677	376	185	14.7	0	0	0	0	0	307	1,000	0
4	0	0	0	0	0	0	56.2	242	427	684	844	933	976	939	828	644	432	268	60.1	0	0	0	0	0	306	976	0
5	0	0	0	0	0	0	47.1	237	467	669	826	929	968	932	816	641	417	196	30.1	0	0	0	0	0	299	968	0
6	0	0	0	0	0	0	41.9	229	466	669	825	927	962	916	799	606	392	172	21	0	0	0	0	0	293	962	0
7	0	0	0	0	0	0	39.8	213	433	641	796	898	926	891	774	599	365	99.1	7.99	0.427	0	0	0	0	278	926	0
8	0	0	0	0	0	0	47.5	234	415	644	714	713	638	660	800	628	426	172	6.69	1.01	0	0.0975	0	0	254	800	0
9	0	0.0005	0	0	0	0	17.4	169	460	619	666	723	734	931	834	616	338	89.4	13.4	0	0	0	0	0	259	931	0
10	0	0	0	0	0	0	34.4	117	478	682	840	940	970	941	824	661	421	102	19.4	0	0	0	0	0	293	970	0
11	0	0	0	0	0	0	38.1	246	477	692	853	948	975	938	826	651	420	178	16.8	0	0	0	0	0	302	975	0
12	0	0	0	0	0	0	41.1	247	483	690	851	949	977	934	822	648	415	186	17.3	0	0	0	0	0	302	977	0
13	0	0	0	0	0	0	42	244	476	688	834	942	968	924	811	630	400	140	3.46	0	0	0	0	0	296	968	0
14	0	0	0	0	0	0	36.4	246	480	688	848	935	937	725	567	292	263	157	18.5	0	0	0	0	0	258	937	0
15	0	0	0	0	0	0	42.6	254	495	706	857	870	999	946	824	644	411	175	13.6	0	0	0	0	0	301	999	0
16	0	0	0	0	0	0	43.7	254	488	699	858	956	978	936	817	632	402	164	10.9	0	0	0	0	0	302	978	0
17	0	0	0	0	0	0	40.5	243	477	687	849	948	978	929	813	629	401	165	10.3	0	0	0	0	0	299	978	0
18	0	0	0	0	0	0	43.9	256	491	710	876	976	1,007	956	830	642	405	160	8.2	0	0	0	0	0	307	1,007	0
19	0	0	0	0	0	0	41.6	246	482	689	851	949	966	921	800	603	386	152	9.52	0	0	0	0	0	296	966	0
20	0	0	0	0	0	0	41.1	243	485	692	850	944	962	914	799	623	396	153	7.22	0	0	0	0	0	296	962	0
21	0	0	0	0	0	0	41.5	249	488	702	865	945	965	916	798	613	380	142	6.11	0	0	0	0	0	296	965	0
22	0	0	0	0	0	0	28.7	231	462	663	842	936	962	876	789	604	370	113	3.91	0	0	0	0	0	287	962	0
23	0	0	0	0	0	0	33.3	244	489	706	870	970	997	941	810	623	384	139	4.47	0	0	0	0	0	300	997	0
24	0	0	0	0	0	0	36.5	237	479	691	852	951	981	927	804	618	382	140	4.24	0	0	0	0	0	296	981	0
25	0	0	0	0	0	0	37.4	245	493	712	870	965	989	938	810	615	378	133	0.978	0	0	0	0	0	299	989	0
26	0	0	0	0	0	0	38.8	226	483	649	696	938	910	914	593	324	369	114	3.07	0	0	0	0	0	261	938	0
27	0	0	0	0	0	0	26	216	462	678	835	926	949	901	779	590	356	118	1.79	0	0	0	0	0	285	949	0
28	0	0	0	0	0	0	30.2	217	454	659	809	902	898	867	750	567	337	110	1.79	0	0	0	0	0	275	902	0
29	0	0	0	0	0	0	28.2	210	440	651	804	891	920	869	751	566	331	108	1	0	0	0	0	0	274	920	0
30	0	0	0	0	0	0	27.5	207	438	646	800	895	922	872	745	561	330	102	1	0	0	0	0	0	273	922	0
Avg	0	0.000017	0	0	0	0.00608	39.9	233	467	678	824	913	934	890	778	594	381	148	12.3	0.0479	0	0.0033	0	0	287	--	--
Max	0	0.0005	0	0	0	0.102	62.8	272	516	712	876	976	1,007	963	849	679	438	268	60.1	1.01	0	0.0975	0	0	--	1,007	--
Min	0	0	0	0	0	0	17.4	117	337	619	666	661	601	424	438	292	263	89.4	0.978	0	0	0	0	0	--	--	0

SAROAD for Resolution, Far_West
"Component, Channel: Table100, Temp_2m_C"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	26.0	24.2	24.1	23.4	22.5	22.6	25.8	30.7	33.9	35.3	37.0	38.1	39.4	40.5	40.7	41.0	41.3	41.6	41.1	38.8	35.6	33.5	30.5	29.0	33.2	41.6	22.5
2	26.7	26.7	26.2	25.8	24.2	24.1	26.9	32.0	34.2	35.5	36.6	37.4	38.4	39.2	40.1	40.4	40.5	40.2	39.7	38.0	35.7	34.2	32.5	30.9	33.6	40.5	24.1
3	30.0	29.1	29.3	28.8	27.2	26.3	29.0	30.9	32.3	33.7	35.0	36.0	36.9	37.9	38.6	38.7	39.1	39.0	38.6	37.2	35.2	32.7	31.0	30.4	33.5	39.1	26.3
4	29.4	28.4	27.8	27.2	26.4	26.0	29.1	31.8	33.3	34.5	36.6	39.9	41.3	41.9	42.2	42.3	42.4	41.6	40.6	38.7	34.8	32.6	31.1	29.9	34.6	42.4	26.0
5	28.6	27.9	29.2	28.5	28.3	28.7	31.2	32.9	33.8	35.0	36.4	38.0	39.1	39.6	40.5	41.4	41.8	41.7	41.2	39.4	35.7	33.6	32.3	31.4	34.8	41.8	27.9
6	30.5	29.8	29.8	30.2	29.7	29.9	31.0	32.2	33.3	34.6	36.2	37.7	38.9	40.4	41.4	41.6	42.2	42.2	41.8	40.2	38.5	37.2	35.7	34.0	35.8	42.2	29.7
7	33.9	33.5	31.4	30.0	29.3	28.4	31.8	36.8	38.6	40.4	41.6	42.4	43.3	44.0	44.2	44.9	45.0	40.2	37.9	37.8	39.4	38.0	38.8	36.8	37.9	45.0	28.4
8	35.2	34.4	34.3	34.3	32.0	30.9	33.6	36.3	37.5	38.6	39.3	40.3	41.1	42.1	42.7	42.0	39.5	40.0	39.2	38.1	36.2	33.8	31.6	31.1	36.8	42.7	30.9
9	30.6	30.1	29.5	28.9	28.3	28.2	28.7	29.4	30.6	32.7	34.4	36.0	37.0	38.0	38.7	39.2	39.9	39.2	39.3	38.7	33.5	32.3	31.6	31.2	33.6	39.9	28.2
10	31.3	30.5	29.6	28.8	28.1	28.2	28.7	30.4	32.2	33.7	35.4	36.8	38.1	38.8	39.4	40.1	40.3	40.1	39.7	38.6	37.3	31.8	30.1	29.8	34.1	40.3	28.1
11	28.7	28.4	26.5	27.2	28.2	26.5	26.4	27.2	28.5	29.5	30.5	31.0	32.4	34.1	34.1	34.2	34.8	35.3	35.4	35.1	33.7	32.4	30.9	29.9	30.9	35.4	26.4
12	29.3	28.7	28.5	28.5	28.8	28.5	29.7	31.2	32.1	33.8	35.0	36.5	38.8	39.5	40.5	40.7	41.0	40.4	39.7	38.5	36.5	34.6	33.7	32.3	34.4	41.0	28.5
13	30.1	29.9	28.7	27.6	26.9	26.5	28.1	31.2	32.7	34.6	--	--	--	--	--	40.0	40.5	40.3	39.8	38.8	36.9	35.6	32.3	30.1	33.2	40.5	26.5
14	29.4	28.7	28.3	27.8	27.1	27.5	29.0	30.8	33.3	34.4	35.5	36.5	37.5	38.4	39.0	39.3	39.9	34.2	30.1	28.2	27.8	27.8	27.6	28.0	31.9	39.9	27.1
15	28.1	28.7	28.3	27.4	26.8	25.8	27.3	30.7	32.5	34.3	35.5	37.0	37.9	38.7	39.0	40.0	39.3	25.1	26.7	27.4	28.6	27.6	26.9	27.0	31.1	40.0	25.1
16	26.8	26.3	25.8	25.7	25.3	25.2	25.4	26.7	28.5	30.0	31.3	33.1	34.1	35.4	36.7	37.2	37.8	37.9	37.1	32.8	27.9	27.5	28.5	28.1	30.5	37.9	25.2
17	27.0	22.3	22.3	22.7	23.3	22.5	23.3	24.1	25.4	27.3	29.3	31.0	32.1	33.4	34.5	34.8	35.4	35.4	34.1	31.6	30.5	30.1	29.9	27.4	28.7	35.4	22.3
18	22.9	22.8	23.4	23.6	23.8	24.0	25.0	27.3	29.0	29.9	31.0	32.1	33.2	34.1	34.6	33.9	31.6	30.3	30.9	30.2	29.5	29.4	29.0	28.1	28.7	34.6	22.8
19	27.3	27.1	26.9	26.3	26.2	26.3	27.1	28.9	30.3	31.4	32.3	33.5	34.7	36.1	36.7	35.9	35.4	34.1	31.6	31.8	29.8	29.3	29.1	29.9	30.7	36.7	26.2
20	29.7	28.1	28.1	26.8	26.6	26.2	26.8	28.7	30.5	31.5	32.2	33.3	34.7	35.4	36.2	37.1	37.3	37.3	36.9	35.1	30.7	30.7	29.0	26.2	31.5	37.3	26.2
21	27.2	27.4	27.1	27.0	26.4	26.4	27.3	28.0	29.7	30.6	32.3	33.4	34.1	35.2	36.0	36.6	37.1	32.6	29.4	28.3	28.8	30.0	30.4	30.2	30.5	37.1	26.4
22	30.1	29.6	28.9	28.3	27.8	27.4	28.3	29.6	31.2	32.6	33.4	35.0	36.2	37.1	37.7	38.4	35.7	31.6	33.0	33.4	30.8	30.2	29.7	29.5	31.9	38.4	27.4
23	29.7	29.3	28.7	27.9	27.5	27.5	28.2	29.1	30.4	30.9	32.3	33.9	35.0	35.7	36.5	37.4	37.5	30.9	25.9	24.6	24.1	24.5	24.5	24.7	29.9	37.5	24.1
24	25.0	25.0	25.3	25.6	25.7	25.3	23.6	23.3	23.9	25.1	25.8	27.7	29.2	30.1	29.7	29.1	29.4	29.6	29.2	28.6	27.8	27.4	27.0	26.5	26.9	30.1	23.3
25	26.1	25.9	26.0	25.8	25.5	25.1	25.9	28.3	30.7	31.6	32.6	33.7	34.9	34.1	35.9	35.9	36.2	36.0	35.7	34.5	33.1	31.8	30.5	29.6	31.1	36.2	25.1
26	28.7	28.3	28.0	27.4	26.6	26.2	27.7	30.0	31.5	32.9	34.9	35.8	37.2	37.9	38.2	38.5	38.6	38.4	37.8	36.6	35.1	34.0	32.9	32.3	33.1	38.6	26.2
27	31.1	30.9	30.7	30.4	29.7	28.9	29.1	31.3	33.1	34.6	36.1	36.9	37.8	38.8	39.7	40.1	40.3	40.0	35.2	33.0	33.5	32.8	31.5	29.8	34.0	40.3	28.9
28	28.8	27.5	27.4	27.4	26.6	25.5	24.2	24.6	26.8	29.0	30.3	31.1	32.9	34.5	35.2	35.9	36.3	36.1	35.3	34.7	31.6	29.2	29.1	28.6	30.4	36.3	24.2
29	28.2	28.0	27.1	26.7	26.4	26.4	26.7	28.1	29.4	30.1	31.2	32.9	34.1	34.1	31.9	32.9	35.2	33.4	31.2	30.0	27.0	27.9	27.9	27.6	29.8	35.2	26.4
30	27.0	27.2	26.5	26.3	26.0	25.6	25.9	26.4	27.0	27.7	28.7	30.3	31.6	33.3	34.1	34.7	35.0	34.4	34.1	33.8	33.0	31.9	31.4	30.8	30.1	35.0	25.6
31	30.3	29.7	29.1	28.7	28.0	27.2	27.9	30.0	31.4	33.1	34.7	35.8	37.1	37.9	38.5	39.1	39.1	39.1	37.9	36.1	35.7	33.9	33.0	32.2	33.6	39.1	27.2
Avg	28.8	28.2	27.8	27.5	27.0	26.6	27.7	29.6	31.2	32.5	33.8	35.1	36.3	37.2	37.8	38.2	38.2	36.7	35.7	34.5	32.7	31.5	30.6	29.8	32.3	--	--
Max	35.2	34.4	34.3	34.3	32.0	30.9	33.6	36.8	38.6	40.4	41.6	42.4	43.3	44.0	44.2	44.9	45.0	42.2	41.8	40.2	39.4	38.0	38.8	36.8	--	45.0	--
Min	22.9	22.3	22.3	22.7	22.5	22.5	23.3	23.3	23.9	25.1	25.8	27.7	29.2	30.1	29.7	29.1	29.4	25.1	25.9	24.6	24.1	24.5	24.5	24.7	--	--	22.3

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, Temp_2m_C"
Month: Aug 2017

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	31.6	30.6	29.8	28.7	29.4	28.9	27.4	25.1	25.2	27.1	29.3	31.4	33.4	34.8	35.5	36.2	29.8	24.0	25.5	26.7	27.3	27.3	27.5	27.3	29.2	36.2	24.0
2	27.0	26.7	26.7	26.4	27.0	27.3	28.1	28.8	28.2	28.7	30.0	31.0	32.5	33.6	33.0	32.5	29.0	27.8	27.9	27.0	26.9	27.2	27.0	27.0	28.6	33.6	26.4
3	26.7	26.6	26.5	26.3	26.2	26.0	26.0	27.1	28.7	30.5	31.8	33.0	34.8	35.7	36.4	36.4	34.3	32.9	27.5	26.0	26.2	26.0	26.2	26.1	29.3	36.4	26.0
4	26.0	25.4	24.6	24.2	24.2	23.8	24.5	27.0	29.0	30.3	32.1	33.6	34.6	35.6	35.9	36.6	36.9	36.8	36.2	34.9	33.5	33.0	31.2	30.5	30.8	36.9	23.8
5	29.2	29.0	29.2	28.8	28.0	26.4	27.1	29.4	30.7	32.0	32.9	34.1	35.1	36.0	36.8	37.2	37.6	37.2	36.6	34.9	33.2	31.7	30.8	30.2	32.3	37.6	26.4
6	29.3	28.4	28.5	27.5	26.7	25.8	26.0	29.2	30.8	32.0	33.1	34.3	35.5	36.3	36.7	37.1	37.0	36.6	36.1	34.6	32.6	31.0	31.0	30.1	31.9	37.1	25.8
7	28.9	28.0	27.2	27.2	25.8	25.0	25.7	29.4	32.1	33.3	34.6	35.9	36.9	37.4	38.0	38.1	38.4	38.2	37.7	35.0	32.2	30.9	29.6	29.3	32.3	38.4	25.0
8	29.3	28.1	27.2	26.6	25.1	25.0	26.3	29.5	31.8	34.1	35.9	37.1	38.3	38.9	39.3	39.4	39.5	39.2	38.3	36.0	33.4	31.5	30.5	29.6	32.9	39.5	25.0
9	30.5	29.8	29.1	27.7	26.2	25.5	25.7	28.8	31.7	34.4	37.2	38.7	39.8	40.4	40.9	41.0	41.0	40.6	39.8	37.3	34.4	32.4	31.6	31.9	34.0	41.0	25.5
10	31.6	30.9	29.9	29.6	30.2	30.3	30.8	31.0	31.7	32.3	33.2	33.6	34.2	35.2	36.8	38.4	39.1	39.3	38.3	35.7	31.8	28.4	28.4	29.0	32.9	39.3	28.4
11	29.5	28.8	27.9	27.5	26.8	26.5	26.6	28.7	31.4	33.4	35.3	37.3	38.3	39.1	39.4	39.5	39.8	39.2	38.6	37.0	35.1	33.6	32.0	31.7	33.5	39.8	26.5
12	30.7	30.0	29.7	30.0	29.5	26.7	27.0	28.5	27.9	28.6	29.9	33.1	34.2	35.7	36.5	36.7	37.1	37.0	36.3	35.1	34.1	33.1	32.6	28.2	32.0	37.1	26.7
13	22.8	23.6	23.4	23.8	23.6	23.5	23.8	24.8	27.5	29.1	29.3	29.7	31.0	32.2	33.3	34.2	34.8	34.9	34.1	32.3	30.7	30.0	29.2	28.9	28.8	34.9	22.8
14	29.2	28.6	28.4	27.9	27.3	26.9	27.2	28.7	30.1	30.7	31.6	32.5	33.7	34.2	35.2	35.9	36.3	36.2	35.5	33.7	31.9	30.2	29.0	28.5	31.2	36.3	26.9
15	28.3	27.9	27.5	26.9	26.6	25.3	25.7	28.3	30.3	31.8	32.5	33.6	34.5	35.2	35.5	36.1	36.4	36.1	35.1	32.8	31.1	30.1	27.7	26.4	30.9	36.4	25.3
16	24.8	24.7	25.3	25.0	24.0	23.2	23.8	27.7	31.0	--	--	34.3	34.9	35.7	36.3	36.8	36.6	36.5	35.2	32.2	29.9	27.8	27.5	28.0	30.1	36.8	23.2
17	27.3	26.2	24.5	23.4	22.5	21.9	23.0	27.1	29.7	32.1	33.4	34.6	35.6	36.0	36.6	36.8	36.8	36.6	35.7	31.9	29.3	28.8	28.1	26.7	30.2	36.8	21.9
18	25.7	25.3	24.1	23.0	22.7	22.6	22.2	26.4	30.3	32.0	33.4	35.0	36.4	37.2	37.9	38.4	38.3	37.7	36.3	33.5	31.2	29.0	27.9	27.4	30.6	38.4	22.2
19	27.1	26.1	25.2	24.2	23.8	24.6	24.4	27.7	29.9	31.7	33.3	34.4	35.7	36.0	36.9	37.5	37.7	37.4	36.7	34.0	31.6	30.6	30.9	29.4	31.1	37.7	23.8
20	29.1	29.3	28.6	28.5	28.1	28.1	28.0	28.8	29.6	31.5	32.7	33.5	34.5	35.3	36.0	36.0	36.2	35.5	34.9	34.2	31.1	30.9	31.0	29.8	31.7	36.2	28.0
21	28.2	27.5	26.9	27.0	26.0	25.6	26.3	29.1	30.8	32.4	32.6	33.4	34.5	35.7	36.3	36.9	36.8	36.6	35.7	33.8	31.7	29.9	28.8	28.5	31.3	36.9	25.6
22	28.3	27.1	26.8	26.4	24.7	24.8	24.8	28.9	31.8	33.7	35.3	36.3	37.5	38.3	39.0	39.7	39.6	39.1	38.2	35.8	34.1	33.8	33.5	32.8	32.9	39.7	24.7
23	32.1	30.8	29.7	29.4	28.5	28.1	27.4	29.7	31.9	33.2	34.5	35.5	36.6	36.5	38.0	38.5	38.4	36.9	31.2	28.7	28.5	28.6	28.3	28.6	32.1	38.5	27.4
24	29.1	28.8	28.3	26.7	26.4	25.6	26.0	28.2	29.8	31.5	32.8	34.2	35.1	36.1	36.8	36.9	37.1	36.9	36.2	34.6	32.9	31.4	30.5	30.0	31.7	37.1	25.6
25	28.8	28.7	28.4	27.5	26.2	25.1	25.2	28.2	31.2	34.2	35.8	36.9	37.8	38.6	39.4	39.7	39.6	39.1	38.3	35.9	33.7	32.3	31.6	31.3	33.1	39.7	25.1
26	30.8	30.2	30.2	29.5	28.4	27.6	27.8	31.2	34.7	36.4	37.2	38.5	39.8	40.5	41.2	41.1	39.8	36.1	36.0	36.2	34.9	34.2	33.1	31.6	34.5	41.2	27.6
27	30.1	30.0	29.7	29.1	28.6	27.9	28.1	30.4	32.6	35.2	36.6	37.6	38.9	39.7	40.5	40.4	40.6	36.5	33.2	34.0	33.6	34.0	33.0	32.2	33.9	40.6	27.9
28	32.3	31.8	31.6	29.5	28.0	27.0	28.0	31.0	34.6	36.8	37.9	38.8	40.0	40.6	40.9	41.1	41.2	39.7	36.5	34.1	32.6	32.5	31.8	32.3	34.6	41.2	27.0
29	31.5	31.7	31.6	30.5	28.9	28.3	28.9	31.6	34.9	36.1	37.2	38.1	38.7	39.4	40.3	40.4	40.1	39.8	38.9	37.1	36.1	34.8	33.1	34.0	35.1	40.4	28.3
30	33.9	32.7	32.0	30.0	29.2	29.8	28.8	31.9	34.3	35.8	36.9	37.8	38.5	39.4	40.1	40.0	40.5	40.1	39.0	36.5	35.4	34.8	34.3	33.9	35.2	40.5	28.8
31	32.7	31.9	31.4	30.1	28.6	27.4	28.1	31.1	34.1	35.8	36.8	37.8	38.6	39.3	39.7	39.6	39.9	39.3	38.3	35.1	33.3	32.3	31.1	29.3	34.2	39.9	27.4
Avg	29.1	28.6	28.1	27.4	26.7	26.1	26.4	28.8	30.9	32.6	33.8	35.0	36.1	36.9	37.6	37.9	37.6	36.8	35.6	33.8	32.1	31.0	30.3	29.7	32.0	--	--
Max	33.9	32.7	32.0	30.5	30.2	30.3	30.8	31.9	34.9	36.8	37.9	38.8	40.0	40.6	41.2	41.1	41.2	40.6	39.8	37.3	36.1	34.8	34.3	34.0	--	41.2	--
Min	22.8	23.6	23.4	23.0	22.5	21.9	22.2	24.8	25.2	27.1	29.3	29.7	31.0	32.2	33.0	32.5	29.0	24.0	25.5	26.0	26.2	26.0	26.2	26.1	--	--	21.9

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, Temp_2m_C"
Month: Sep 2017

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	28.2	27.0	27.7	27.5	26.5	25.3	24.6	29.2	34.6	36.1	37.4	38.2	39.2	40.0	40.9	41.3	41.1	40.6	39.5	36.7	35.0	32.2	31.8	31.9	33.9	41.3	24.6
2	30.6	29.3	28.6	27.9	27.4	26.2	26.3	28.9	30.3	31.7	33.6	35.8	37.0	35.7	35.2	35.4	35.9	35.5	34.7	33.6	32.1	30.3	29.5	29.1	31.7	37.0	26.2
3	28.0	27.8	26.6	25.7	25.2	25.0	25.7	27.9	30.0	31.6	33.0	34.6	36.0	37.5	38.3	38.4	38.0	37.1	35.4	33.9	32.6	31.7	30.7	29.7	31.7	38.4	25.0
4	28.2	27.3	26.5	25.9	25.1	24.6	24.8	26.7	28.3	30.1	31.6	33.0	34.5	36.0	37.0	37.9	38.0	38.0	37.2	36.5	35.7	34.6	32.8	31.1	31.7	38.0	24.6
5	29.6	28.9	28.8	27.8	27.5	26.8	26.5	29.0	31.9	33.7	35.4	37.4	38.1	38.7	39.6	40.1	40.1	39.4	38.3	36.4	34.9	33.6	32.2	31.3	33.6	40.1	26.5
6	29.3	28.4	28.7	28.5	26.9	26.5	25.5	29.4	34.6	36.3	37.6	38.7	39.3	39.6	40.2	40.3	40.2	39.4	37.8	35.1	32.8	32.0	31.8	30.8	33.7	40.3	25.5
7	29.5	29.2	28.9	29.0	28.3	27.3	27.9	29.4	31.0	32.1	33.5	34.8	35.7	36.9	37.6	37.9	38.0	37.4	31.5	29.4	29.9	28.1	27.1	26.3	31.5	38.0	26.3
8	25.9	24.3	23.7	23.6	23.4	23.1	23.4	25.4	27.6	28.8	30.5	32.4	33.1	33.0	34.4	34.8	34.7	34.3	28.7	24.0	24.2	24.6	25.4	24.7	27.8	34.8	23.1
9	24.6	25.9	24.9	24.1	24.4	23.9	22.2	23.5	25.9	27.6	29.0	30.5	31.2	32.3	33.0	33.5	33.5	32.8	32.0	30.7	29.2	28.2	27.2	26.7	28.2	33.5	22.2
10	26.1	25.3	24.3	23.9	23.5	23.3	23.4	25.0	27.5	30.4	32.5	34.5	36.2	37.4	38.0	38.6	38.8	38.0	37.0	34.5	33.1	31.8	30.2	30.4	31.0	38.8	23.3
11	29.7	29.6	30.0	29.3	29.8	29.6	29.6	31.7	33.9	36.2	37.3	37.9	38.6	39.4	39.8	39.9	40.0	39.3	37.9	35.8	33.6	32.3	31.2	30.4	34.3	40.0	29.3
12	29.6	28.3	28.1	26.9	26.2	25.1	26.1	28.6	33.0	35.1	37.1	38.2	38.7	39.5	40.1	40.4	40.4	39.6	38.0	35.6	33.4	31.4	30.3	30.8	33.4	40.4	25.1
13	29.8	28.2	27.7	27.3	27.2	26.5	25.9	29.4	31.6	33.4	34.9	36.1	37.3	38.7	39.2	39.3	39.1	38.4	36.8	35.3	33.2	32.2	32.3	31.0	33.0	39.3	25.9
14	29.8	29.0	28.8	28.7	28.2	28.0	27.9	29.7	31.7	33.4	34.5	35.3	36.6	37.2	37.5	36.4	35.6	35.5	34.0	32.4	30.8	29.5	27.7	26.1	31.8	37.5	26.1
15	25.3	24.7	23.9	23.1	23.3	22.3	22.1	25.6	28.0	29.2	30.2	31.5	32.8	33.7	33.9	34.2	34.2	33.5	32.1	29.8	27.7	28.1	27.1	26.4	28.4	34.2	22.1
16	25.3	24.2	22.6	21.2	20.6	20.0	19.6	23.4	27.2	28.4	29.6	30.9	32.3	33.6	33.9	34.1	34.0	33.6	32.1	29.9	28.1	27.0	26.8	26.9	27.7	34.1	19.6
17	26.5	24.7	24.2	23.4	22.6	22.7	22.6	25.5	28.6	30.2	31.4	32.4	33.0	33.8	34.5	34.6	34.6	33.9	32.2	30.0	27.9	26.9	24.7	22.8	28.5	34.6	22.6
18	22.3	21.6	20.7	20.3	19.8	19.3	19.5	22.9	26.9	29.6	31.2	32.5	33.5	34.1	34.7	34.7	34.8	34.3	32.6	29.4	26.3	24.7	24.2	23.4	27.2	34.8	19.3
19	23.2	22.6	22.9	22.4	20.7	19.6	20.4	24.4	28.0	29.5	30.6	31.8	32.8	34.5	35.8	36.2	35.9	34.9	32.9	30.7	27.8	25.1	24.8	23.9	28.0	36.2	19.6
20	23.2	21.3	22.9	22.6	21.8	19.8	20.6	24.3	27.8	29.5	31.1	32.2	33.5	34.4	35.3	35.8	35.6	34.9	32.5	29.5	27.4	26.2	24.9	24.1	28.0	35.8	19.8
21	23.5	21.6	20.7	19.9	19.4	19.5	19.3	23.0	27.4	29.2	31.0	31.8	33.2	34.6	35.1	35.2	34.8	33.6	31.7	29.3	27.7	26.3	25.5	26.1	27.5	35.2	19.3
22	24.1	22.7	22.3	22.4	22.0	20.6	20.1	22.8	24.7	25.6	26.8	27.8	28.6	29.7	30.6	30.6	30.3	29.6	28.4	26.6	25.4	23.6	22.0	21.5	25.4	30.6	20.1
23	20.9	21.0	20.7	20.1	18.3	17.6	16.1	19.1	21.9	23.2	24.6	25.8	26.8	27.1	27.8	27.9	27.6	26.8	25.2	23.2	21.3	20.0	18.9	17.4	22.5	27.9	16.1
24	16.5	16.2	15.2	14.4	13.7	13.4	14.0	17.4	20.5	22.3	24.3	26.0	26.9	27.3	27.5	27.8	27.7	27.0	25.0	22.1	19.7	17.9	16.9	16.3	20.7	27.8	13.4
25	15.6	15.1	13.7	13.0	12.3	12.0	11.7	15.0	19.7	22.7	24.6	25.8	27.1	28.2	28.7	29.2	29.2	28.6	26.0	23.2	19.6	18.4	18.3	17.3	20.6	29.2	11.7
26	17.1	16.5	16.0	14.8	14.2	12.7	12.8	17.2	21.6	24.7	26.6	28.2	29.3	29.8	30.0	29.7	30.0	29.2	27.6	26.5	25.2	24.1	23.3	21.7	22.9	30.0	12.7
27	19.2	19.2	19.3	19.1	18.7	17.8	17.7	20.5	24.1	26.4	27.6	28.6	29.7	30.3	30.6	30.7	30.5	29.7	27.3	24.7	22.4	21.1	20.2	20.7	24.0	30.7	17.7
28	21.3	21.2	20.7	17.7	16.2	15.5	15.2	19.9	24.0	27.0	29.1	30.3	31.4	32.0	32.4	32.6	32.3	31.8	29.9	27.4	25.9	24.6	23.2	22.5	25.2	32.6	15.2
29	22.4	22.3	21.7	20.8	20.7	20.3	19.7	23.1	26.5	30.4	31.5	32.5	33.5	34.2	34.7	34.7	34.5	33.7	31.3	28.7	27.5	26.0	24.1	22.8	27.4	34.7	19.7
30	22.2	21.4	20.3	20.2	19.9	19.6	20.3	23.2	26.7	30.6	32.0	33.1	33.9	34.4	34.9	34.9	34.5	33.7	31.2	28.5	26.6	25.1	23.7	22.8	27.2	34.9	19.6
Avg	24.9	24.2	23.7	23.1	22.5	21.8	21.7	24.7	27.9	29.8	31.3	32.6	33.7	34.5	35.0	35.2	35.1	34.5	32.6	30.3	28.6	27.2	26.3	25.6	28.6	--	--
Max	30.6	29.6	30.0	29.3	29.8	29.6	29.6	31.7	34.6	36.3	37.6	38.7	39.3	40.0	40.9	41.3	41.1	40.6	39.5	36.7	35.7	34.6	32.8	31.9	--	41.3	--
Min	15.6	15.1	13.7	13.0	12.3	12.0	11.7	15.0	19.7	22.3	24.3	25.8	26.8	27.1	27.5	27.8	27.6	26.8	25.0	22.1	19.6	17.9	16.9	16.3	--	--	11.7

SAROAD for Resolution, Far_West
"Component, Channel: Table100, WD_10m"
Month: Jul 2017

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	87	116	119	92	76	80	100	138	162	180	216	249	227	223	227	208	240	229	248	225	223	274	359	23	187	359	23
2	90	149	144	138	85	76	75	104	168	201	213	243	224	230	255	271	262	284	307	330	334	329	325	245	232	334	75
3	17	204	227	195	106	92	39	170	342	335	287	306	292	275	303	302	295	298	295	296	289	214	132	93	289	342	17
4	107	86	100	101	91	104	154	169	184	202	229	244	270	277	285	292	293	283	285	271	285	37	81	67	216	293	37
5	87	131	156	154	143	138	155	187	218	238	289	286	296	292	271	285	291	305	286	273	225	200	146	81	223	305	81
6	87	157	154	149	157	162	170	178	182	183	216	246	274	263	274	275	303	300	310	307	211	193	191	64	210	310	64
7	59	94	143	126	65	73	63	80	115	122	122	135	127	131	164	163	272	314	345	55	90	60	76	89	97	345	55
8	80	80	73	110	112	163	142	148	143	149	206	267	253	256	258	327	309	68	252	30	48	193	157	152	148	327	30
9	175	167	168	150	158	165	158	147	7	311	321	306	307	307	261	279	284	263	253	264	214	171	124	153	222	321	7
10	115	159	261	11	135	166	153	164	180	236	271	246	294	282	287	289	294	298	305	291	259	178	174	165	234	305	11
11	145	48	71	102	171	186	147	158	144	115	88	46	6	294	252	279	317	266	340	45	57	86	120	128	100	340	6
12	136	98	92	131	143	142	140	157	169	247	261	259	265	268	276	264	278	290	298	302	357	89	136	173	206	357	89
13	154	171	195	151	68	8	171	200	211	226	--	--	--	--	--	298	300	302	302	289	288	232	164	155	221	302	8
14	153	160	158	107	158	136	91	21	332	315	320	273	242	267	250	284	283	31	119	122	67	97	103	258	151	332	21
15	198	174	105	68	77	89	112	130	155	162	177	198	214	245	239	281	327	128	104	70	169	170	155	131	151	327	68
16	137	145	356	30	74	146	177	199	167	163	156	161	156	193	208	290	293	276	293	129	176	139	87	143	163	356	30
17	138	121	95	55	307	216	167	83	69	77	88	228	209	214	208	206	208	208	217	194	167	153	150	128	164	307	55
18	149	145	86	76	57	27	36	70	138	119	184	158	214	226	216	155	53	73	70	55	63	193	242	104	113	242	27
19	81	83	171	162	83	124	149	168	181	198	224	226	235	241	203	212	223	252	217	201	146	143	135	102	177	252	81
20	103	106	79	172	131	116	114	124	129	147	117	119	111	156	226	286	277	278	290	233	158	154	140	102	142	290	79
21	79	101	165	148	133	100	109	139	149	148	167	215	228	265	277	291	278	60	61	53	56	88	115	142	129	291	53
22	142	179	142	100	108	88	87	156	155	196	203	262	263	302	288	295	53	58	72	107	162	148	144	128	140	302	53
23	106	100	145	149	130	116	98	130	155	187	134	181	242	255	230	231	260	156	15	354	335	5	38	17	140	354	5
24	77	117	105	71	69	4	31	44	11	296	34	42	95	261	255	231	197	149	131	141	107	88	70	73	80	296	4
25	77	97	87	72	89	81	95	116	136	158	171	213	242	144	260	276	293	296	302	309	330	18	65	65	91	330	18
26	73	75	76	156	90	76	89	129	163	157	270	272	273	308	312	266	267	256	264	273	279	304	65	98	257	312	65
27	83	87	136	164	130	130	134	166	180	257	236	242	252	259	277	265	267	297	60	76	96	118	88	100	159	297	60
28	153	127	167	126	108	84	54	61	64	95	259	301	274	280	280	287	300	307	282	282	208	202	180	156	214	307	54
29	112	77	114	129	176	137	111	129	161	159	192	192	224	278	131	192	196	201	191	251	32	152	173	190	164	278	32
30	319	5	201	177	210	214	168	91	116	80	156	162	227	247	234	309	300	54	62	64	92	148	127	147	153	319	5
31	138	191	172	166	137	132	143	148	148	132	120	100	60	164	331	265	322	291	44	51	84	138	112	133	130	331	44
Avg	110	122	132	124	114	116	119	136	151	176	202	231	246	253	254	268	283	287	305	321	132	147	123	120	162	--	--
Max	319	204	356	195	307	216	177	200	342	335	321	306	307	308	331	327	327	314	345	354	357	329	359	258	--	359	--
Min	17	5	71	11	57	4	31	21	7	77	34	42	6	131	131	155	53	31	15	30	32	5	38	17	--	--	4

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, WD_10m"
Month: Aug 2017

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	131	141	138	143	133	141	120	96	63	79	74	61	10	87	20	312	338	25	51	66	133	45	69	68	80	338	10
2	66	71	124	128	90	80	80	94	95	83	80	95	77	100	124	140	194	159	181	287	61	83	82	98	101	287	61
3	70	90	135	71	89	70	60	45	182	204	348	13	188	211	186	149	153	149	309	21	152	143	120	127	118	348	13
4	35	282	246	97	98	138	111	97	217	224	244	253	290	244	236	244	239	240	230	254	97	103	59	248	218	290	35
5	151	61	12	89	147	145	143	140	176	189	210	226	235	241	244	224	251	297	284	319	155	86	77	173	184	319	12
6	137	126	156	158	138	100	83	124	172	182	203	199	222	207	258	235	218	228	155	99	72	68	68	71	153	258	68
7	117	128	88	75	76	87	82	107	164	192	206	213	220	209	227	248	241	231	276	148	85	80	79	69	145	276	69
8	67	75	182	145	74	59	74	103	170	161	221	266	236	239	234	254	268	259	293	321	5	69	72	65	156	321	5
9	66	67	72	90	146	143	188	124	180	157	180	196	206	277	253	258	308	305	309	293	338	57	108	169	172	338	57
10	134	95	87	81	54	97	172	77	20	188	216	232	272	306	310	312	322	300	9	317	171	147	118	70	77	322	9
11	41	336	292	205	161	187	175	157	174	229	320	173	164	237	247	254	256	239	243	263	320	4	65	76	228	336	4
12	111	126	103	136	139	72	80	151	5	126	126	146	208	251	249	248	287	297	319	336	55	99	172	238	142	336	5
13	122	81	103	111	136	131	92	42	51	193	231	218	234	232	244	238	248	268	262	248	199	166	135	104	177	268	42
14	95	110	132	154	137	135	136	156	166	185	193	204	215	208	228	253	277	284	289	262	120	108	103	141	172	289	95
15	139	170	156	164	164	146	117	142	178	208	208	210	223	239	235	257	254	284	290	304	308	314	240	355	216	355	117
16	137	144	146	130	83	79	78	76	124	--	--	179	208	223	220	226	223	233	230	182	107	94	136	139	153	233	76
17	125	124	86	80	82	76	71	80	149	150	171	186	215	225	235	226	229	265	205	66	75	67	75	71	128	265	66
18	83	117	88	79	71	80	94	84	143	179	206	255	232	258	227	236	250	242	236	240	292	58	57	78	159	292	57
19	76	77	105	78	125	115	88	112	178	190	195	235	253	249	257	271	265	266	274	241	134	97	140	160	171	274	76
20	131	114	146	153	105	94	113	144	158	154	193	200	225	226	238	228	253	267	296	352	66	74	69	74	153	352	66
21	131	248	237	119	92	77	67	114	169	154	185	205	178	270	244	259	272	265	266	279	340	62	80	79	185	340	62
22	77	97	93	137	102	88	98	131	160	167	193	219	215	4	288	256	263	281	280	281	307	346	27	81	150	346	4
23	116	161	170	150	132	142	110	152	165	175	194	207	231	215	212	217	218	173	165	140	127	121	118	39	162	231	39
24	40	78	115	140	61	80	57	67	77	95	149	146	234	253	264	261	254	266	253	281	287	342	64	84	89	342	40
25	92	88	73	74	152	129	82	141	257	288	244	257	250	255	267	271	259	278	273	246	199	113	91	81	207	288	73
26	85	87	68	124	138	107	92	118	141	139	128	173	151	195	264	261	120	41	316	102	82	77	130	165	120	316	41
27	164	147	122	98	104	77	92	101	155	160	158	199	29	271	247	280	292	25	17	72	60	106	68	44	102	292	17
28	48	50	52	115	86	73	90	120	104	118	127	134	156	137	311	349	251	181	141	134	127	144	83	72	107	349	48
29	76	63	63	69	80	71	73	74	105	114	133	155	179	235	269	247	237	264	299	324	72	76	94	123	97	324	63
30	83	64	75	116	80	77	119	88	97	124	129	135	138	134	119	112	163	136	133	116	125	121	119	119	114	163	64
31	99	96	82	99	123	88	66	117	122	108	125	114	112	130	125	133	157	163	140	164	10	70	54	55	108	164	10
Avg	98	100	110	116	110	101	98	109	145	163	181	194	211	229	243	246	248	256	267	281	86	84	91	94	140	--	--
Max	164	336	292	205	164	187	188	157	257	288	348	266	290	306	311	349	338	305	319	352	340	346	240	355	--	355	--
Min	35	50	12	69	54	59	57	42	5	79	74	13	10	4	20	112	120	25	9	21	5	4	27	39	--	--	4

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, WD_10m"
Month: Sep 2017

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	205	37	69	171	176	172	74	85	86	126	123	144	153	199	181	139	115	122	138	131	126	75	70	97	126	205	37
2	186	158	176	136	128	72	81	71	22	208	188	149	154	215	234	198	252	245	264	282	226	292	17	61	184	292	17
3	217	290	237	160	131	132	110	67	338	313	271	262	271	264	258	260	273	278	267	269	274	286	277	254	262	338	67
4	177	185	163	155	166	138	149	163	304	334	287	284	273	298	280	296	294	310	289	319	297	286	225	236	257	334	138
5	115	142	137	127	109	72	82	101	53	125	147	173	194	230	253	249	268	297	303	10	343	36	93	94	117	343	10
6	158	138	95	113	100	80	159	125	100	105	131	142	125	123	113	137	132	241	246	229	125	65	72	92	124	246	65
7	187	108	118	130	121	130	147	144	155	173	182	197	237	222	248	257	255	257	198	243	264	342	69	126	183	342	69
8	214	296	99	82	94	74	81	164	165	149	64	287	231	242	245	286	271	250	186	97	22	52	111	210	162	296	22
9	79	103	95	105	58	87	176	152	141	50	338	314	276	271	232	283	292	280	287	305	350	297	7	23	342	350	7
10	45	80	86	104	83	111	102	252	200	212	201	67	166	141	160	167	101	140	126	43	75	63	60	77	112	252	43
11	69	58	99	66	63	65	60	76	177	127	126	147	127	230	199	264	269	289	281	301	347	14	52	80	79	347	14
12	71	117	127	108	127	106	96	104	152	168	161	184	228	239	245	266	262	282	277	284	343	47	85	341	158	343	47
13	44	127	157	128	147	115	84	145	159	162	181	224	230	281	285	282	288	282	272	278	297	31	144	148	190	297	31
14	140	113	149	142	131	164	154	141	162	191	213	215	230	227	231	232	267	238	241	246	233	241	189	194	197	267	113
15	174	177	120	99	106	86	88	120	179	205	208	230	230	234	237	255	251	251	273	274	228	230	111	185	197	274	86
16	172	161	161	115	92	84	92	87	155	175	180	179	194	201	205	247	224	247	306	15	71	78	104	146	152	306	15
17	159	169	143	116	78	76	83	74	115	177	206	228	237	231	238	248	262	316	320	287	325	335	43	96	185	335	43
18	101	98	112	95	90	81	79	70	112	173	180	178	215	215	233	222	196	187	315	10	73	63	109	98	125	315	10
19	151	133	140	131	114	72	76	72	139	190	209	200	218	221	237	227	232	225	221	225	206	185	161	140	177	237	72
20	115	115	138	132	113	79	75	83	148	161	187	202	209	209	225	222	232	231	229	221	209	170	152	156	170	232	75
21	143	132	112	99	78	78	76	83	165	191	203	213	212	223	226	234	225	231	237	253	269	135	184	188	181	269	76
22	173	157	145	169	158	117	62	105	187	222	214	229	230	243	245	270	285	281	289	311	306	293	117	253	220	311	62
23	150	172	183	155	160	156	140	111	179	208	230	239	233	244	255	244	276	302	301	319	346	6	45	61	213	346	6
24	73	100	88	70	66	86	79	72	250	255	271	277	252	272	275	269	283	299	287	293	6	59	78	96	347	299	6
25	86	85	90	86	86	74	84	100	170	192	232	257	239	270	263	273	265	253	269	333	86	81	76	77	121	333	74
26	78	91	94	83	83	97	94	111	120	164	201	250	235	237	278	287	301	310	326	317	319	328	14	35	20	328	14
27	130	135	116	165	126	91	78	87	154	207	219	220	249	227	269	287	287	286	287	309	33	58	70	64	163	309	33
28	65	58	77	161	6	70	106	189	226	240	306	225	235	271	273	244	272	263	287	308	335	26	44	71	293	335	6
29	66	86	113	123	136	117	125	134	244	110	143	141	222	211	233	234	256	270	312	10	342	359	67	77	134	359	10
30	92	87	92	84	77	89	84	108	209	151	180	223	222	240	223	221	220	290	303	319	357	22	72	85	129	357	22
Avg	128	120	122	120	108	98	98	108	159	178	197	212	220	233	239	247	258	265	273	299	330	21	84	106	169	--	--
Max	217	296	237	171	176	172	176	252	338	334	338	314	276	298	285	296	301	316	326	333	357	359	277	341	--	359	--
Min	44	37	69	66	6	65	60	67	22	50	64	67	125	123	113	137	101	122	126	10	6	6	7	23	--	--	6

SAROAD for Resolution, Far_West
"Component, Channel: Table100, WS_ms_10m"
Month: Jul 2017

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	3.6	3.1	2.9	3.3	3.8	3.4	1.9	2.5	3.3	2.4	2.4	2.5	3.1	4.7	4.0	3.3	3.1	4.8	3.3	3.3	4.1	2.9	2.0	2.3	3.2	4.8	1.9
2	2.8	2.5	2.7	2.8	3.0	3.5	3.2	2.4	2.8	3.5	4.0	3.4	3.6	3.1	3.8	3.9	4.1	4.4	4.0	3.7	3.0	2.9	1.8	0.9	3.2	4.4	0.9
3	0.6	1.5	2.4	2.7	2.4	1.9	0.6	1.5	1.2	2.1	2.7	3.0	3.5	4.1	4.7	4.8	5.2	5.9	6.1	4.9	2.4	1.5	1.5	2.2	2.9	6.1	0.6
4	2.4	2.6	2.3	2.4	2.5	2.6	2.4	3.3	2.8	2.6	2.4	2.3	2.8	4.3	4.6	4.7	4.9	5.1	5.4	3.6	1.6	0.6	1.2	1.5	3.0	5.4	0.6
5	2.6	2.8	3.3	2.9	3.2	3.1	3.4	4.4	5.1	2.8	2.2	3.4	4.7	4.2	4.7	5.0	4.7	4.8	4.1	2.4	1.6	2.1	2.1	2.1	3.4	5.1	1.6
6	2.3	2.7	2.9	3.1	3.1	3.9	3.5	3.2	2.3	1.4	1.6	1.9	2.1	3.0	3.6	3.2	3.9	4.7	4.5	3.5	2.4	4.7	3.3	3.4	3.1	4.7	1.4
7	4.2	2.4	2.3	3.1	1.9	2.9	2.3	2.9	4.8	6.8	6.5	4.8	3.4	3.8	2.3	2.7	3.2	7.0	3.9	4.0	5.5	4.8	5.9	3.9	4.0	7.0	1.9
8	3.5	3.3	3.3	2.7	1.9	2.8	3.5	4.9	4.2	3.4	3.4	3.5	3.0	3.4	3.4	4.8	3.2	1.8	2.0	3.2	3.0	5.0	3.8	4.6	3.4	5.0	1.8
9	3.8	2.8	2.7	1.9	1.5	1.9	2.4	0.7	1.2	2.4	3.5	4.3	3.9	4.1	4.6	4.4	4.0	3.0	3.4	4.1	6.8	3.9	3.3	2.6	3.2	6.8	0.7
10	1.8	1.2	1.5	1.4	2.3	2.0	2.0	2.5	1.5	1.5	2.0	2.6	3.8	4.7	5.1	5.1	6.0	5.9	5.2	4.0	2.5	8.7	4.6	3.6	3.4	8.7	1.2
11	1.6	3.4	4.6	2.5	3.9	4.1	2.8	3.0	2.5	2.1	0.9	1.5	1.8	3.5	3.0	1.9	1.7	1.6	1.2	1.7	5.3	2.1	1.0	1.1	2.4	5.3	0.9
12	1.0	1.9	1.7	2.5	2.6	2.2	1.9	2.3	1.7	2.1	2.7	3.8	4.2	4.4	4.7	5.6	5.7	5.2	5.1	5.2	3.4	1.7	2.8	6.2	3.4	6.2	1.0
13	3.6	2.4	1.5	1.3	0.9	1.1	2.2	3.1	3.1	2.3	--	--	--	--	--	4.3	4.7	5.2	4.3	3.9	1.8	2.1	8.2	5.5	3.2	8.2	0.9
14	4.8	4.2	3.1	1.5	1.7	1.8	1.4	1.1	1.9	2.1	2.6	2.5	3.7	3.6	2.9	2.9	3.4	8.7	7.4	5.0	2.2	1.9	1.1	1.6	3.0	8.7	1.1
15	2.5	3.1	1.3	3.0	3.5	2.7	2.1	2.8	4.0	2.8	2.4	1.9	3.6	3.7	3.2	2.6	6.0	10.5	4.9	2.3	3.8	4.9	2.9	3.9	3.5	10.5	1.3
16	3.9	1.4	1.3	1.3	1.0	2.2	2.3	2.2	1.4	1.9	1.7	2.0	2.2	2.5	2.4	2.7	2.9	3.8	2.6	5.5	4.1	3.2	3.8	1.8	2.5	5.5	1.0
17	6.8	9.4	6.8	4.9	2.9	2.2	1.6	2.3	2.1	2.0	1.0	1.3	1.6	2.1	2.7	2.8	3.2	4.3	5.1	5.8	4.6	3.1	2.9	8.1	3.7	9.4	1.0
18	4.2	2.7	2.7	3.1	1.5	1.1	1.1	1.5	1.7	1.4	1.3	2.0	2.7	3.7	3.3	1.8	4.7	5.3	3.7	4.0	2.6	1.8	0.6	2.1	2.5	5.3	0.6
19	1.9	1.5	1.9	1.8	1.9	1.8	2.0	3.1	2.9	2.3	2.6	2.6	2.5	2.4	3.5	3.8	4.7	5.3	4.8	3.1	4.2	3.0	2.8	4.0	2.9	5.3	1.5
20	6.0	4.1	1.6	2.5	3.4	1.7	2.0	1.2	2.5	3.0	2.2	1.8	2.0	1.8	2.2	3.4	3.8	4.4	4.3	5.1	7.9	4.3	4.0	3.7	3.3	7.9	1.2
21	2.3	1.6	1.6	2.1	2.2	1.4	1.8	1.8	1.6	1.8	2.9	3.0	3.2	3.4	3.4	3.2	4.2	10.1	8.6	7.2	5.7	2.6	0.9	2.8	3.3	10.1	0.9
22	3.7	3.6	1.9	2.0	1.8	1.6	2.2	2.6	2.1	2.3	2.4	2.8	3.9	4.3	4.0	4.4	6.8	6.7	4.3	2.8	5.7	4.9	4.4	4.0	3.5	6.8	1.6
23	2.5	2.0	2.4	2.9	2.7	2.0	2.5	3.5	3.3	2.5	1.8	2.4	2.2	2.4	2.4	3.7	4.1	7.2	4.8	5.1	2.5	1.9	2.1	1.7	2.9	7.2	1.7
24	0.3	0.9	1.2	1.4	1.4	1.6	1.4	2.4	2.9	1.6	2.9	2.2	1.2	1.8	3.1	3.3	2.1	2.7	2.7	2.3	1.2	1.2	1.8	2.2	1.9	3.3	0.3
25	1.8	1.5	1.3	1.7	1.8	1.8	1.6	1.0	3.3	3.4	2.5	1.6	3.1	2.7	3.0	3.2	2.9	2.7	2.7	2.4	2.2	2.2	2.7	2.2	2.3	3.4	1.0
26	1.3	2.2	2.5	1.9	2.5	2.1	2.0	1.7	2.4	1.3	1.7	1.7	3.0	3.7	3.8	4.3	4.9	4.3	4.3	3.7	2.3	1.7	1.1	0.9	2.6	4.9	0.9
27	2.3	2.5	2.0	1.2	2.0	2.1	2.1	2.8	1.8	1.2	1.9	2.8	3.1	3.6	4.2	3.5	3.8	3.4	10.0	7.8	4.2	6.7	6.8	4.9	3.6	10.0	1.2
28	6.6	4.3	3.1	2.5	2.8	2.6	2.3	1.8	1.5	1.1	1.9	1.9	2.6	4.3	5.3	5.1	4.5	3.5	4.7	4.7	3.4	3.3	4.0	3.6	3.4	6.6	1.1
29	1.7	1.5	1.1	0.7	1.4	2.1	1.6	1.6	1.9	1.4	1.9	1.9	2.8	2.0	3.5	2.9	3.3	6.4	6.1	3.3	2.8	1.7	1.1	1.1	2.3	6.4	0.7
30	1.7	1.0	1.4	2.0	1.8	1.2	0.2	0.8	1.0	1.7	1.2	1.4	2.2	2.7	3.3	2.2	1.7	2.9	2.3	1.1	0.9	1.5	1.6	2.2	1.7	3.3	0.2
31	2.1	1.7	1.6	0.6	1.3	1.5	2.3	2.6	2.1	1.5	2.0	2.1	2.2	1.8	2.0	2.8	3.5	3.3	3.8	2.7	3.5	5.9	3.8	3.4	2.5	5.9	0.6
Avg	2.9	2.6	2.3	2.2	2.3	2.2	2.1	2.4	2.5	2.3	2.4	2.5	2.9	3.3	3.6	3.6	4.0	5.0	4.5	3.9	3.4	3.2	2.9	3.0	3.0	--	--
Max	6.8	9.4	6.8	4.9	3.9	4.1	3.5	4.9	5.1	6.8	6.5	4.8	4.7	4.7	5.3	5.6	6.8	10.5	10.0	7.8	7.9	8.7	8.2	8.1	--	10.5	--
Min	0.3	0.9	1.1	0.6	0.9	1.1	0.2	0.7	1.0	1.1	0.9	1.3	1.2	1.8	2.0	1.8	1.7	1.6	1.2	1.1	0.9	0.6	0.6	0.9	--	--	0.2

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, WS_ms_10m"
Month: Aug 2017

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	3.2	2.6	2.2	2.7	3.9	5.3	3.6	3.8	3.9	3.9	3.1	1.5	1.9	1.8	3.4	6.7	4.5	4.2	1.9	3.2	3.3	4.9	3.6	3.5	6.7	1.5
2	4.5	3.2	1.5	1.3	1.8	2.2	2.2	3.2	5.1	4.9	4.8	4.2	3.9	5.2	4.8	4.0	5.0	2.4	1.8	0.7	1.8	1.8	1.5	1.3	3.0	5.2	0.7
3	1.4	1.3	0.5	1.5	1.1	1.3	1.2	0.6	1.2	0.6	0.6	1.0	1.7	2.3	2.9	5.7	5.6	4.0	7.1	3.6	3.5	2.5	2.3	1.9	2.3	7.1	0.5
4	1.8	1.4	1.4	0.9	2.1	1.9	1.3	0.8	0.7	1.1	1.4	1.9	2.1	2.8	2.9	3.1	2.6	3.0	2.0	0.8	0.5	0.8	1.8	3.5	1.8	3.5	0.5
5	3.0	3.9	2.6	1.1	2.4	1.9	2.5	3.2	2.9	2.7	2.2	2.1	2.3	2.8	3.2	3.7	3.9	3.6	3.0	1.6	1.0	1.7	2.1	1.5	2.5	3.9	1.0
6	1.9	2.8	3.1	2.6	2.1	2.2	2.2	2.1	2.1	2.6	2.1	2.1	2.2	2.8	2.6	3.4	3.6	1.5	1.2	0.5	1.7	2.8	3.4	3.3	2.4	3.6	0.5
7	2.6	2.1	2.0	2.2	2.6	2.4	2.3	1.8	2.5	2.1	2.4	2.5	2.9	2.6	3.3	2.9	2.9	2.3	1.5	1.0	2.7	2.6	3.2	3.5	2.5	3.5	1.0
8	3.6	3.3	3.2	2.8	3.4	3.0	2.3	2.2	2.9	2.4	1.4	1.8	2.2	1.8	2.9	2.6	2.8	3.4	3.0	2.1	1.9	2.3	3.0	3.1	2.6	3.6	1.4
9	3.3	3.3	3.5	2.9	2.2	1.1	1.2	1.3	1.1	1.1	1.9	2.9	2.3	2.4	2.9	2.8	3.0	3.2	3.3	2.2	1.2	2.4	3.0	3.1	2.4	3.5	1.1
10	3.4	3.0	2.6	2.5	2.6	2.6	3.0	1.2	2.1	2.4	2.7	2.1	2.5	3.0	3.8	4.9	4.5	4.8	3.2	2.8	9.9	7.3	5.9	4.8	3.7	9.9	1.2
11	4.1	3.2	1.6	1.5	2.4	1.7	1.0	1.6	1.4	1.1	2.0	3.5	2.7	3.0	3.5	3.4	4.1	3.6	3.4	1.5	1.5	1.3	1.4	2.5	2.4	4.1	1.0
12	1.9	1.9	2.0	2.8	4.0	3.2	3.9	2.0	2.3	4.9	4.5	3.6	2.3	2.7	3.6	2.2	2.1	2.7	2.3	1.4	0.9	1.5	2.7	7.6	2.9	7.6	0.9
13	5.0	3.0	2.6	3.2	4.2	2.2	2.1	3.7	2.8	2.2	2.8	2.8	1.7	1.8	2.2	2.3	2.3	3.0	3.0	1.6	1.7	1.5	1.7	2.1	2.6	5.0	1.5
14	2.2	2.5	2.3	2.5	2.1	2.5	2.7	3.3	2.8	3.2	3.0	2.9	3.4	2.7	3.1	3.2	3.2	3.9	1.9	0.6	1.3	2.0	1.9	1.4	2.5	3.9	0.6
15	2.3	3.1	2.9	2.9	2.9	2.0	2.6	3.4	3.4	3.1	3.4	4.0	4.8	5.0	2.9	3.0	3.0	3.5	3.3	1.9	1.5	1.6	2.3	1.7	2.9	5.0	1.5
16	2.6	2.8	3.4	2.7	2.9	3.1	2.8	2.4	2.8	--	--	3.5	3.5	4.4	4.8	4.5	3.3	3.4	2.4	1.2	2.1	2.5	2.7	3.2	3.0	4.8	1.2
17	3.4	3.2	2.3	2.7	2.9	3.1	2.8	2.4	1.3	3.1	3.3	3.4	3.5	3.3	3.0	2.9	2.3	1.8	0.6	1.6	3.0	3.7	3.5	3.3	2.8	3.7	0.6
18	3.1	3.0	3.0	3.2	3.4	3.0	2.1	1.3	1.9	2.0	2.1	1.9	2.2	2.0	2.1	3.5	3.7	3.2	2.7	1.7	0.5	2.2	2.8	2.8	2.5	3.7	0.5
19	3.2	1.9	2.5	2.1	2.3	2.1	2.2	1.5	2.8	2.9	1.8	1.8	2.8	2.7	3.5	4.1	4.1	3.8	3.1	1.3	1.5	1.9	2.9	2.2	2.5	4.1	1.3
20	2.8	2.7	2.9	3.2	2.3	2.0	2.0	2.2	2.2	3.3	2.9	2.7	2.5	2.3	4.1	3.4	3.6	4.0	2.5	0.8	6.9	3.0	3.5	2.7	2.9	6.9	0.8
21	1.8	1.6	2.1	1.7	2.2	2.7	2.7	1.5	2.9	2.5	2.1	1.7	1.6	3.0	3.1	3.6	3.1	3.4	3.6	2.2	1.4	1.8	2.6	3.0	2.4	3.6	1.4
22	3.2	1.9	2.5	1.4	1.7	2.3	2.3	2.6	2.8	3.0	2.2	1.7	2.0	2.0	2.2	3.9	3.8	3.4	3.3	2.1	1.8	1.6	1.4	2.0	2.4	3.9	1.4
23	1.7	1.8	3.0	3.2	2.5	2.6	2.3	2.8	3.2	3.1	2.8	2.5	2.8	2.6	2.8	2.5	3.3	5.3	9.3	6.3	6.7	7.8	4.9	2.9	3.7	9.3	1.7
24	3.4	3.9	4.5	2.7	1.2	2.8	3.6	4.6	4.8	4.0	2.4	3.1	2.5	2.3	3.3	3.3	2.8	2.5	2.6	2.8	1.8	1.5	2.6	1.6	2.9	4.8	1.2
25	1.9	2.9	2.9	3.0	1.9	1.5	1.0	0.5	0.8	2.2	2.4	2.8	2.8	3.0	3.5	3.6	3.2	3.8	3.6	2.0	0.6	2.3	2.4	3.0	2.4	3.8	0.5
26	2.5	2.4	2.5	1.9	1.9	2.9	1.9	1.6	2.1	4.4	3.4	2.2	2.9	2.7	3.4	3.5	8.9	8.4	5.5	3.8	3.7	2.8	2.8	2.8	3.4	8.9	1.6
27	1.7	1.4	1.1	1.6	1.1	2.5	2.4	1.7	1.9	3.2	2.6	2.1	2.0	2.5	3.5	2.9	3.6	9.4	7.4	5.3	3.7	2.9	2.8	3.7	3.0	9.4	1.1
28	3.9	4.1	3.5	1.7	2.4	3.1	3.1	2.3	3.0	4.7	5.6	4.4	3.9	3.1	2.2	2.9	4.3	3.3	6.8	7.9	4.3	2.5	2.2	3.4	3.7	7.9	1.7
29	2.9	4.0	4.8	3.6	2.8	3.2	2.7	2.3	4.2	4.1	3.8	3.5	2.8	2.1	3.1	3.5	3.5	2.7	2.7	2.5	5.0	3.8	2.1	4.0	3.3	5.0	2.1
30	3.9	4.5	3.1	0.7	2.7	3.2	2.6	3.2	4.1	5.0	5.3	4.2	3.5	3.2	4.2	2.3	4.3	4.8	4.2	3.5	4.2	4.8	5.1	5.7	3.8	5.7	0.7
31	4.3	3.7	4.1	3.8	2.6	3.1	2.4	2.3	4.6	6.1	7.7	7.5	5.7	5.4	3.6	2.8	3.8	3.5	3.1	2.2	1.0	2.5	3.0	2.4	3.8	7.7	1.0
Avg	2.9	2.8	2.7	2.3	2.4	2.5	2.4	2.2	2.7	3.1	3.0	2.9	2.8	2.9	3.2	3.4	3.8	3.7	3.5	2.3	2.7	2.7	2.9	3.0	2.9	--	--
Max	5.0	4.5	4.8	3.8	4.2	3.9	5.3	4.6	5.1	6.1	7.7	7.5	5.7	5.4	4.8	5.7	8.9	9.4	9.3	7.9	9.9	7.8	5.9	7.6	--	9.9	--
Min	1.4	1.3	0.5	0.7	1.1	1.1	1.0	0.5	0.7	0.6	0.6	1.0	1.5	1.8	1.8	2.2	2.1	1.5	0.6	0.5	0.5	0.8	1.4	1.3	--	--	0.5

-- Indicates Invalid Data

SAROAD for Resolution, Far_West
"Component, Channel: Table100, WS_ms_10m"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.2	2.7	3.6	2.1	1.6	1.0	2.1	1.2	2.9	3.2	5.2	4.8	3.6	2.4	2.8	4.5	4.6	3.3	3.4	3.0	2.8	2.6	3.5	3.6	3.0	5.2	1.0
2	4.7	2.9	2.4	1.0	1.2	1.8	1.7	1.9	1.0	1.0	1.2	2.6	4.0	3.8	4.1	1.9	3.0	3.4	2.2	1.4	2.2	1.9	1.5	2.1	2.3	4.7	1.0
3	1.9	1.0	0.9	1.6	1.6	1.8	2.0	1.7	2.0	2.1	1.8	3.2	3.6	4.1	4.3	4.9	4.6	4.9	4.5	1.8	2.0	2.9	2.2	1.8	2.6	4.9	0.9
4	1.7	1.2	1.4	1.3	1.5	1.6	1.6	0.9	1.0	1.5	2.2	2.4	2.4	2.9	3.3	3.5	3.4	3.3	4.5	3.9	3.9	3.2	1.3	2.0	2.3	4.5	0.9
5	1.7	2.7	2.5	2.2	2.4	2.6	2.2	1.3	0.8	1.0	1.5	1.6	3.0	3.4	4.0	4.2	3.2	4.1	3.3	5.3	2.7	2.8	2.4	2.5	2.6	5.3	0.8
6	2.4	2.5	2.7	2.3	2.0	1.8	1.0	1.6	5.0	5.8	5.6	4.9	4.8	4.2	4.1	3.3	3.6	4.1	2.8	2.0	1.7	3.5	3.6	2.0	3.2	5.8	1.0
7	2.0	3.0	2.9	3.2	3.0	2.7	3.1	3.8	3.5	2.5	2.2	2.2	2.8	3.2	3.3	2.5	3.5	4.2	7.6	6.9	4.2	1.9	3.3	2.6	3.3	7.6	1.9
8	2.2	1.2	2.3	2.2	2.6	2.7	1.8	1.6	2.5	1.4	1.3	1.8	4.2	4.1	3.8	3.8	3.4	2.3	6.1	3.4	3.3	3.9	3.2	1.9	2.8	6.1	1.2
9	1.7	6.1	4.6	2.8	2.2	2.7	2.3	1.2	1.5	0.8	1.5	1.9	1.8	1.6	1.8	2.4	3.2	2.6	2.8	2.4	1.6	1.6	1.5	1.6	2.2	6.1	0.8
10	1.4	1.9	1.4	1.8	2.3	1.9	1.5	1.2	1.2	0.8	0.8	1.3	1.9	2.8	2.5	2.5	2.9	2.5	2.0	1.9	2.0	2.7	2.8	3.5	2.0	3.5	0.8
11	3.5	3.5	1.0	3.6	3.8	4.2	4.2	3.4	2.3	5.0	5.2	3.5	2.4	2.5	2.5	1.3	2.9	3.2	3.7	2.5	2.1	2.2	2.7	2.7	3.1	5.2	1.0
12	2.6	1.9	2.4	1.9	1.7	2.0	2.5	1.4	2.9	2.8	3.3	3.2	3.2	3.3	4.1	3.4	3.4	3.7	3.3	1.6	1.5	2.0	1.7	1.3	2.6	4.1	1.3
13	1.1	1.6	2.5	2.3	2.8	2.4	2.6	2.6	3.0	2.8	2.5	2.6	2.4	3.9	4.0	4.4	4.2	4.5	2.9	3.6	4.3	1.8	2.7	2.2	2.9	4.5	1.1
14	1.9	2.4	2.1	1.9	2.4	3.5	3.5	3.6	4.1	4.5	7.0	6.0	7.1	8.0	9.5	9.6	7.4	7.9	7.1	6.3	5.2	3.8	2.6	2.7	5.0	9.6	1.9
15	1.7	2.3	1.7	2.0	1.9	2.3	2.1	2.3	3.8	5.6	6.4	6.4	6.8	6.2	5.3	5.2	5.5	5.7	3.6	1.9	0.6	2.3	0.9	2.4	3.5	6.8	0.6
16	2.5	2.7	2.4	1.6	2.3	2.7	2.5	2.1	2.5	2.9	3.0	3.1	3.7	4.2	3.8	3.8	3.2	2.9	1.9	1.8	2.0	2.2	2.2	2.7	2.7	4.2	1.6
17	2.5	2.8	2.4	2.1	2.5	3.3	2.6	2.4	1.1	1.1	3.5	4.3	3.7	3.6	4.7	3.4	3.5	2.6	1.7	1.9	1.9	1.9	1.6	2.6	2.7	4.7	1.1
18	2.5	2.1	2.2	2.6	3.1	3.1	3.4	2.5	0.9	2.1	2.2	3.0	4.5	4.0	4.5	2.6	2.3	1.4	2.0	2.3	2.0	2.7	2.3	2.3	2.6	4.5	0.9
19	2.5	2.3	2.5	2.8	2.4	3.1	3.3	2.8	2.0	2.5	3.7	5.2	5.1	5.7	6.6	6.5	6.6	6.3	5.8	4.4	3.1	2.2	2.3	2.8	3.9	6.6	2.0
20	2.9	2.8	3.2	3.1	2.8	3.3	3.3	2.5	3.7	3.2	4.3	4.2	4.7	4.9	5.5	5.5	6.0	5.2	4.2	3.1	2.4	1.7	2.6	2.4	3.6	6.0	1.7
21	2.6	3.1	2.9	2.7	3.6	3.5	3.3	2.4	3.2	3.2	4.9	3.9	4.7	6.2	6.9	7.2	8.0	7.5	4.5	2.5	2.2	1.0	1.7	3.3	4.0	8.0	1.0
22	3.1	2.8	2.2	2.0	1.8	1.2	1.8	1.2	1.8	2.7	3.3	4.9	3.4	4.4	4.2	4.2	3.9	3.3	3.3	3.8	3.1	2.0	0.8	1.2	2.8	4.9	0.8
23	2.1	1.8	2.3	2.2	2.4	3.0	2.1	1.8	1.8	1.8	2.1	3.3	4.4	3.4	3.9	3.8	3.8	3.3	3.2	2.6	2.7	2.4	2.2	2.1	2.7	4.4	1.8
24	2.5	2.4	2.5	2.7	2.4	3.0	2.8	1.7	1.1	1.0	1.5	1.9	2.9	2.7	3.0	3.4	3.8	3.6	2.9	2.1	1.6	2.6	3.0	2.5	2.5	3.8	1.0
25	2.8	3.0	2.8	2.8	3.0	2.7	2.4	1.2	1.8	2.8	2.1	2.0	2.2	2.4	1.9	1.8	2.0	2.0	1.6	1.6	2.3	2.9	3.4	2.8	2.3	3.4	1.2
26	3.6	2.9	2.9	2.9	2.6	2.2	2.4	1.7	1.2	0.9	1.6	1.7	1.8	2.9	3.2	2.7	3.7	3.0	3.1	3.3	2.6	1.8	1.8	0.8	2.4	3.7	0.8
27	1.2	1.9	1.8	1.4	1.7	1.9	2.5	2.4	0.7	1.9	2.1	2.0	2.1	2.9	3.5	3.3	3.4	3.1	2.5	2.2	2.2	2.9	3.2	3.6	2.4	3.6	0.7
28	3.7	3.5	3.0	1.0	1.3	1.4	1.5	0.8	1.9	1.7	2.1	2.3	2.2	2.7	3.0	3.2	2.7	3.2	3.0	2.2	2.2	2.3	2.4	2.7	2.3	3.7	0.8
29	2.8	3.1	1.8	2.0	1.9	1.7	1.6	1.4	1.4	4.5	4.1	2.6	2.7	2.7	3.8	4.2	4.2	3.8	2.7	2.6	1.9	1.9	2.6	2.4	2.7	4.5	1.4
30	2.6	2.4	2.4	2.7	2.7	2.3	2.5	1.6	1.4	4.6	4.3	3.9	3.8	4.1	4.2	3.9	3.3	3.3	2.7	2.5	2.7	2.8	3.0	3.7	3.1	4.6	1.4
Avg	2.4	2.5	2.4	2.2	2.3	2.5	2.4	1.9	2.1	2.6	3.1	3.2	3.5	3.8	4.1	3.9	4.0	3.8	3.5	2.9	2.5	2.4	2.4	2.4	2.9	--	--
Max	4.7	6.1	4.6	3.6	3.8	4.2	4.2	3.8	5.0	5.8	7.0	6.4	7.1	8.0	9.5	9.6	8.0	7.9	7.6	6.9	5.2	3.9	3.6	3.7	--	9.6	--
Min	1.1	1.0	0.9	1.0	1.2	1.0	1.0	0.8	0.7	0.8	0.8	1.3	1.8	1.6	1.8	1.3	2.0	1.4	1.6	1.4	0.6	1.0	0.8	0.8	--	--	0.6

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

SAROAD for Resolution, East_Plant
"Component, Channel: Table125, conc_PM10"
Month: Jul 2017

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	1.0	4.0	8.0	11.0	10.0	15.0	17.0	21.0	16.0	11.0	17.0	11.0	8.0	10.0	17.0	35.0	15.0	17.0	18.0	20.0	17.0	26.0	19.0	14.6	35.0	1.0
2	15.0	13.0	7.0	8.0	19.0	18.0	15.0	9.0	9.0	8.0	11.0	16.0	3.0	7.0	19.0	20.0	23.0	22.0	20.0	16.0	19.0	15.0	20.0	20.0	14.7	23.0	3.0
3	16.0	22.0	25.0	47.0	40.0	33.0	19.0	14.0	26.0	25.0	28.0	25.0	26.0	21.0	29.0	31.0	24.0	27.0	25.0	20.0	25.0	27.0	25.0	21.0	25.9	47.0	14.0
4	17.0	22.0	18.0	20.0	26.0	21.0	26.0	28.0	31.0	30.0	21.0	19.0	21.0	21.0	23.0	22.0	17.0	17.0	38.0	24.0	19.0	26.0	19.0	20.0	22.7	38.0	17.0
5	14.0	20.0	21.0	21.0	20.0	19.0	21.0	27.0	20.0	18.0	24.0	22.0	22.0	26.0	50.0	37.0	25.0	25.0	24.0	23.0	19.0	19.0	21.0	21.0	23.3	50.0	14.0
6	21.0	23.0	21.0	19.0	27.0	31.0	17.0	22.0	22.0	27.0	31.0	20.0	33.0	26.0	29.0	24.0	25.0	22.0	26.0	21.0	29.0	24.0	26.0	29.0	24.8	33.0	17.0
7	26.0	19.0	26.0	27.0	27.0	30.0	31.0	33.0	32.0	33.0	25.0	23.0	26.0	21.0	21.0	19.0	20.0	15.0	17.0	32.0	33.0	26.0	20.0	22.0	25.2	33.0	15.0
8	18.0	12.0	16.0	14.0	23.0	43.0	41.0	55.0	46.0	41.0	27.0	17.0	20.0	22.0	20.0	105.0	24.0	27.0	12.0	10.0	15.0	12.0	198.0	150.0	40.3	198.0	10.0
9	55.0	29.0	28.0	25.0	26.0	24.0	27.0	31.0	29.0	31.0	31.0	27.0	26.0	33.0	30.0	29.0	25.0	29.0	26.0	30.0	391.0	332.0	282.0	270.0	77.8	391.0	24.0
10	201.0	64.0	42.0	16.0	15.0	35.0	36.0	40.0	52.0	47.0	27.0	28.0	37.0	23.0	29.0	18.0	23.0	25.0	18.0	18.0	17.0	32.0	27.0	10.0	36.7	201.0	10.0
11	9.0	15.0	11.0	12.0	13.0	12.0	12.0	16.0	7.0	5.0	7.0	12.0	12.0	--	--	--	23.0	23.0	24.0	18.0	19.0	14.0	12.0	10.0	13.6	24.0	5.0
12	7.0	6.0	8.0	10.0	10.0	11.0	16.0	15.0	17.0	19.0	17.0	24.0	14.0	20.0	23.0	23.0	18.0	16.0	16.0	23.0	20.0	19.0	16.0	13.0	15.9	24.0	6.0
13	12.0	12.0	18.0	19.0	16.0	17.0	17.0	19.0	21.0	18.0	14.0	18.0	24.0	23.0	20.0	23.0	23.0	26.0	26.0	26.0	21.0	18.0	10.0	8.0	18.7	26.0	8.0
14	8.0	9.0	8.0	6.0	6.0	8.0	10.0	12.0	13.0	18.0	13.0	20.0	22.0	24.0	17.0	21.0	29.0	12.0	16.0	13.0	13.0	17.0	12.0	12.0	14.1	29.0	6.0
15	11.0	11.0	11.0	11.0	10.0	8.0	10.0	11.0	10.0	12.0	16.0	12.0	12.0	12.0	12.0	17.0	24.0	11.0	11.0	17.0	14.0	12.0	27.0	48.0	14.6	48.0	8.0
16	29.0	17.0	13.0	18.0	11.0	9.0	7.0	6.0	9.0	17.0	14.0	13.0	14.0	12.0	11.0	12.0	13.0	14.0	13.0	15.0	9.0	9.0	9.0	10.0	12.7	29.0	6.0
17	7.0	3.0	3.0	1.0	0.0	5.0	7.0	7.0	8.0	7.0	6.0	7.0	8.0	10.0	12.0	9.0	8.0	9.0	8.0	8.0	6.0	4.0	5.0	3.0	6.3	12.0	0.0
18	0.0	1.0	4.0	5.0	6.0	4.0	4.0	5.0	5.0	8.0	9.0	8.0	8.0	9.0	8.0	5.0	6.0	6.0	4.0	4.0	7.0	7.0	8.0	7.0	5.8	9.0	0.0
19	5.0	7.0	7.0	8.0	9.0	7.0	8.0	9.0	7.0	9.0	13.0	12.0	8.0	7.0	9.0	12.0	12.0	10.0	28.0	25.0	24.0	22.0	25.0	24.0	12.8	28.0	5.0
20	8.0	5.0	3.0	6.0	6.0	9.0	9.0	19.0	10.0	15.0	14.0	20.0	13.0	17.0	15.0	14.0	13.0	11.0	9.0	21.0	10.0	8.0	6.0	9.0	11.2	21.0	3.0
21	8.0	5.0	6.0	8.0	9.0	10.0	9.0	9.0	8.0	6.0	6.0	5.0	6.0	9.0	12.0	16.0	9.0	9.0	8.0	8.0	8.0	8.0	9.0	10.0	8.4	16.0	5.0
22	7.0	8.0	13.0	13.0	13.0	15.0	16.0	15.0	12.0	12.0	12.0	10.0	10.0	10.0	11.0	16.0	5.0	5.0	5.0	4.0	8.0	9.0	9.0	10.0	10.3	16.0	4.0
23	7.0	6.0	15.0	14.0	12.0	10.0	11.0	12.0	11.0	15.0	10.0	10.0	11.0	11.0	12.0	13.0	10.0	16.0	6.0	6.0	6.0	6.0	5.0	6.0	10.0	16.0	5.0
24	8.0	8.0	10.0	9.0	7.0	10.0	13.0	12.0	7.0	2.0	3.0	3.0	1.0	6.0	7.0	3.0	5.0	5.0	6.0	6.0	8.0	9.0	9.0	11.0	7.0	13.0	1.0
25	12.0	11.0	11.0	7.0	8.0	16.0	15.0	15.0	9.0	6.0	7.0	9.0	13.0	12.0	11.0	12.0	11.0	9.0	10.0	10.0	12.0	11.0	12.0	12.0	10.9	16.0	6.0
26	12.0	14.0	13.0	12.0	12.0	13.0	13.0	14.0	18.0	15.0	15.0	11.0	9.0	19.0	10.0	11.0	9.0	9.0	11.0	9.0	11.0	17.0	14.0	14.0	12.7	19.0	9.0
27	12.0	--	7.0	9.0	10.0	11.0	13.0	13.0	13.0	13.0	--	18.0	13.0	17.0	15.0	--	--	--	17.0	--	-2.0	2.0	6.0	5.0	10.7	18.0	-2.0
28	6.0	7.0	4.0	1.0	2.0	3.0	2.0	5.0	7.0	10.0	8.0	4.0	5.0	6.0	5.0	7.0	9.0	12.0	11.0	7.0	7.0	41.0	19.0	15.0	8.5	41.0	1.0
29	11.0	9.0	7.0	4.0	3.0	4.0	6.0	5.0	6.0	5.0	5.0	6.0	5.0	7.0	6.0	4.0	4.0	5.0	5.0	7.0	9.0	8.0	7.0	8.0	6.1	11.0	3.0
30	10.0	13.0	12.0	12.0	17.0	19.0	29.0	29.0	34.0	29.0	29.0	28.0	27.0	14.0	19.0	7.0	8.0	11.0	15.0	11.0	11.0	12.0	15.0	11.0	17.6	34.0	7.0
31	7.0	4.0	6.0	6.0	6.0	5.0	4.0	6.0	8.0	25.0	17.0	15.0	8.0	7.0	7.0	8.0	10.0	22.0	15.0	12.0	8.0	8.0	9.0	7.0	9.6	25.0	4.0
Avg	18.9	13.2	12.8	12.8	13.5	15.2	15.5	17.1	17.0	17.5	15.7	15.5	15.1	15.3	16.7	19.1	16.3	15.5	15.7	15.4	26.3	25.5	29.3	26.9	17.5	--	--
Max	201.0	64.0	42.0	47.0	40.0	43.0	41.0	55.0	52.0	47.0	31.0	28.0	37.0	33.0	50.0	105.0	35.0	29.0	38.0	32.0	391.0	332.0	282.0	270.0	--	391.0	--
Min	0.0	1.0	3.0	1.0	0.0	3.0	2.0	5.0	5.0	2.0	3.0	3.0	1.0	6.0	5.0	3.0	4.0	5.0	4.0	4.0	-2.0	2.0	5.0	3.0	--	--	-2.0

[1]-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table125, conc_PM10"
Month: Aug 2017

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	8.0	6.0	6.0	3.0	3.0	3.0	3.0	6.0	6.0	5.0	4.0	5.0	5.0	4.0	4.0	3.0	2.0	5.0	6.0	5.0	2.0	1.0	2.0	4.4	9.0	1.0
2	3.0	4.0	4.0	6.0	2.0	33.0	5.0	4.0	3.0	7.0	9.0	16.0	13.0	8.0	5.0	--	--	8.0	6.0	3.0	3.0	3.0	4.0	5.0	7.0	33.0	2.0
3	3.0	4.0	4.0	2.0	2.0	5.0	9.0	16.0	11.0	11.0	11.0	10.0	9.0	6.0	8.0	11.0	13.0	10.0	8.0	11.0	13.0	13.0	12.0	12.0	8.9	16.0	2.0
4	12.0	8.0	7.0	6.0	19.0	9.0	16.0	10.0	8.0	8.0	8.0	6.0	10.0	9.0	8.0	9.0	9.0	8.0	6.0	7.0	7.0	5.0	9.0	13.0	9.0	19.0	5.0
5	73.0	112.0	101.0	63.0	39.0	22.0	36.0	36.0	38.0	20.0	21.0	16.0	10.0	11.0	13.0	13.0	11.0	10.0	13.0	14.0	14.0	10.0	7.0	9.0	29.7	112.0	7.0
6	12.0	17.0	9.0	10.0	8.0	9.0	10.0	17.0	9.0	10.0	15.0	10.0	10.0	8.0	7.0	6.0	7.0	6.0	6.0	9.0	19.0	13.0	11.0	8.0	10.3	19.0	6.0
7	6.0	6.0	5.0	3.0	6.0	9.0	10.0	20.0	12.0	17.0	16.0	11.0	11.0	10.0	9.0	8.0	8.0	10.0	10.0	7.0	17.0	10.0	8.0	7.0	9.8	20.0	3.0
8	8.0	6.0	8.0	13.0	10.0	9.0	12.0	16.0	17.0	17.0	33.0	17.0	8.0	9.0	11.0	10.0	10.0	15.0	9.0	11.0	15.0	23.0	18.0	13.0	13.3	33.0	6.0
9	10.0	8.0	9.0	10.0	10.0	17.0	15.0	22.0	17.0	40.0	27.0	18.0	--	9.0	10.0	10.0	8.0	--	10.0	12.0	12.0	11.0	12.0	20.0	14.4	40.0	8.0
10	12.0	13.0	12.0	10.0	12.0	18.0	16.0	11.0	12.0	18.0	--	14.0	35.0	34.0	45.0	52.0	28.0	20.0	20.0	11.0	41.0	7.0	10.0	9.0	20.0	52.0	7.0
11	2.0	2.0	10.0	8.0	4.0	21.0	11.0	12.0	11.0	15.0	6.0	8.0	11.0	11.0	11.0	11.0	16.0	8.0	9.0	7.0	6.0	8.0	9.0	8.0	9.4	21.0	2.0
12	7.0	6.0	7.0	10.0	13.0	9.0	10.0	13.0	10.0	10.0	7.0	7.0	7.0	6.0	6.0	7.0	9.0	8.0	7.0	10.0	10.0	8.0	11.0	10.0	8.7	13.0	6.0
13	10.0	7.0	3.0	4.0	6.0	6.0	5.0	--	-2.0	1.0	5.0	3.0	0.0	0.0	--	--	--	--	2.0	4.0	6.0	7.0	6.0	8.0	4.3	10.0	-2.0
14	8.0	6.0	7.0	8.0	11.0	10.0	8.0	10.0	11.0	9.0	9.0	13.0	13.0	11.0	9.0	10.0	20.0	15.0	14.0	12.0	11.0	13.0	11.0	9.0	10.7	20.0	6.0
15	11.0	11.0	10.0	10.0	12.0	16.0	10.0	10.0	11.0	11.0	9.0	12.0	10.0	6.0	9.0	13.0	24.0	20.0	20.0	12.0	13.0	10.0	8.0	12.0	12.1	24.0	6.0
16	11.0	11.0	13.0	13.0	14.0	8.0	8.0	15.0	9.0	10.0	9.0	6.0	6.0	6.0	6.0	10.0	10.0	8.0	8.0	8.0	9.0	10.0	9.0	10.0	9.5	15.0	6.0
17	11.0	7.0	5.0	4.0	5.0	6.0	6.0	10.0	12.0	10.0	9.0	16.0	5.0	6.0	5.0	5.0	7.0	7.0	5.0	4.0	3.0	5.0	9.0	5.0	7.0	16.0	3.0
18	1.0	4.0	4.0	2.0	4.0	6.0	6.0	5.0	8.0	18.0	12.0	9.0	8.0	9.0	4.0	3.0	7.0	7.0	9.0	11.0	10.0	9.0	9.0	10.0	7.3	18.0	1.0
19	9.0	8.0	8.0	6.0	5.0	17.0	10.0	8.0	6.0	9.0	10.0	6.0	4.0	4.0	5.0	10.0	11.0	10.0	16.0	15.0	11.0	27.0	10.0	34.0	10.8	34.0	4.0
20	6.0	10.0	24.0	19.0	16.0	31.0	14.0	13.0	24.0	23.0	21.0	14.0	13.0	8.0	7.0	9.0	10.0	12.0	10.0	8.0	6.0	5.0	5.0	7.0	13.1	31.0	5.0
21	7.0	10.0	11.0	9.0	11.0	13.0	13.0	16.0	8.0	9.0	9.0	8.0	10.0	11.0	8.0	10.0	13.0	14.0	21.0	12.0	12.0	16.0	14.0	16.0	11.7	21.0	7.0
22	17.0	16.0	10.0	8.0	10.0	20.0	20.0	12.0	15.0	19.0	17.0	25.0	25.0	12.0	12.0	13.0	14.0	14.0	12.0	10.0	12.0	12.0	29.0	6.0	15.0	29.0	6.0
23	6.0	9.0	11.0	11.0	12.0	10.0	9.0	11.0	16.0	11.0	11.0	12.0	16.0	11.0	12.0	14.0	21.0	92.0	42.0	1.0	2.0	9.0	11.0	4.0	15.2	92.0	1.0
24	4.0	7.0	7.0	2.0	0.0	3.0	2.0	8.0	26.0	14.0	13.0	16.0	13.0	12.0	10.0	11.0	8.0	15.0	7.0	8.0	10.0	13.0	10.0	6.0	9.4	26.0	0.0
25	5.0	6.0	6.0	5.0	7.0	7.0	10.0	10.0	8.0	12.0	26.0	31.0	15.0	10.0	9.0	9.0	10.0	9.0	9.0	10.0	17.0	15.0	12.0	9.0	11.1	31.0	5.0
26	8.0	9.0	9.0	8.0	9.0	9.0	5.0	3.0	6.0	10.0	9.0	7.0	6.0	6.0	7.0	9.0	37.0	10.0	7.0	8.0	19.0	7.0	6.0	6.0	9.2	37.0	3.0
27	6.0	2.0	7.0	10.0	7.0	5.0	6.0	7.0	9.0	9.0	--	14.0	12.0	8.0	9.0	9.0	7.0	56.0	8.0	11.0	17.0	17.0	10.0	8.0	11.0	56.0	2.0
28	5.0	4.0	6.0	11.0	16.0	17.0	15.0	9.0	19.0	--	--	--	--	5.0	10.0	17.0	19.0	50.0	11.0	12.0	8.0	5.0	7.0	6.0	12.6	50.0	4.0
29	5.0	8.0	8.0	6.0	6.0	10.0	13.0	19.0	13.0	34.0	23.0	--	--	--	13.0	18.0	13.0	16.0	23.0	18.0	14.0	11.0	19.0	11.0	14.3	34.0	5.0
30	10.0	10.0	16.0	16.0	10.0	--	11.0	11.0	29.0	13.0	15.0	10.0	35.0	19.0	23.0	17.0	15.0	15.0	11.0	9.0	8.0	20.0	11.0	11.0	15.0	35.0	8.0
31	11.0	15.0	19.0	15.0	15.0	13.0	13.0	23.0	27.0	18.0	28.0	16.0	19.0	15.0	12.0	27.0	19.0	7.0	10.0	16.0	12.0	10.0	10.0	20.0	16.2	28.0	7.0
Avg	9.9	11.4	11.8	10.1	9.8	12.4	10.9	12.7	13.2	14.0	14.0	12.2	12.1	9.5	10.2	12.2	13.3	16.6	11.4	9.6	11.7	10.8	10.3	10.1	11.6	--	--
Max	73.0	112.0	101.0	63.0	39.0	33.0	36.0	36.0	38.0	40.0	33.0	31.0	35.0	34.0	45.0	52.0	37.0	92.0	42.0	18.0	41.0	27.0	29.0	34.0	--	112.0	--
Min	1.0	2.0	3.0	2.0	0.0	3.0	2.0	3.0	-2.0	1.0	5.0	3.0	0.0	0.0	4.0	3.0	3.0	2.0	2.0	1.0	2.0	2.0	1.0	2.0	--	--	-2.0

[1]-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table125, conc_PM10"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	15.0	15.0	14.0	13.0	19.0	15.0	26.0	25.0	24.0	36.0	33.0	22.0	55.0	40.0	20.0	22.0	17.0	18.0	22.0	31.0	33.0	17.0	19.0	10.0	23.4	55.0	10.0
2	11.0	18.0	12.0	13.0	64.0	53.0	35.0	19.0	18.0	22.0	21.0	21.0	16.0	19.0	17.0	13.0	28.0	23.0	21.0	17.0	31.0	26.0	20.0	13.0	23.0	64.0	11.0
3	19.0	25.0	39.0	42.0	27.0	32.0	15.0	28.0	27.0	24.0	15.0	19.0	18.0	14.0	20.0	20.0	22.0	22.0	25.0	25.0	23.0	17.0	21.0	16.0	23.1	42.0	14.0
4	13.0	17.0	20.0	18.0	17.0	22.0	16.0	22.0	20.0	16.0	22.0	25.0	17.0	13.0	19.0	18.0	18.0	90.0	23.0	20.0	12.0	15.0	18.0	29.0	21.7	90.0	12.0
5	12.0	22.0	15.0	14.0	12.0	12.0	17.0	13.0	16.0	23.0	19.0	18.0	18.0	23.0	17.0	25.0	20.0	20.0	17.0	21.0	10.0	13.0	16.0	10.0	16.8	25.0	10.0
6	10.0	11.0	12.0	17.0	16.0	24.0	25.0	35.0	28.0	29.0	29.0	21.0	20.0	23.0	20.0	24.0	22.0	19.0	28.0	20.0	20.0	28.0	23.0	19.0	21.8	35.0	10.0
7	22.0	20.0	20.0	17.0	25.0	18.0	19.0	37.0	20.0	32.0	24.0	24.0	28.0	23.0	26.0	19.0	26.0	21.0	31.0	44.0	42.0	32.0	36.0	35.0	26.7	44.0	17.0
8	37.0	51.0	63.0	54.0	92.0	89.0	100.0	56.0	55.0	54.0	59.0	76.0	76.0	71.0	72.0	63.0	60.0	54.0	19.0	16.0	10.0	6.0	8.0	15.0	52.3	100.0	6.0
9	12.0	8.0	9.0	11.0	11.0	11.0	12.0	12.0	11.0	11.0	13.0	13.0	11.0	10.0	16.0	16.0	13.0	17.0	11.0	12.0	13.0	16.0	14.0	13.0	12.3	17.0	8.0
10	12.0	10.0	10.0	10.0	9.0	9.0	10.0	--	--	7.0	11.0	12.0	11.0	10.0	17.0	15.0	16.0	12.0	12.0	19.0	9.0	10.0	12.0	13.0	11.6	19.0	7.0
11	15.0	18.0	13.0	12.0	22.0	23.0	27.0	23.0	21.0	39.0	20.0	25.0	16.0	14.0	17.0	29.0	31.0	31.0	21.0	11.0	26.0	14.0	12.0	17.0	20.7	39.0	11.0
12	18.0	15.0	13.0	19.0	18.0	11.0	16.0	8.0	12.0	15.0	19.0	10.0	13.0	14.0	17.0	18.0	21.0	12.0	13.0	17.0	16.0	20.0	18.0	16.0	15.4	21.0	8.0
13	14.0	18.0	16.0	15.0	18.0	9.0	11.0	17.0	26.0	22.0	21.0	14.0	13.0	15.0	12.0	11.0	20.0	18.0	16.0	22.0	33.0	319.0	119.0	73.0	36.3	319.0	9.0
14	75.0	20.0	13.0	11.0	10.0	9.0	7.0	8.0	8.0	10.0	9.0	22.0	29.0	127.0	203.0	260.0	157.0	54.0	142.0	80.0	66.0	30.0	14.0	13.0	57.4	260.0	7.0
15	9.0	6.0	6.0	8.0	9.0	9.0	12.0	10.0	6.0	8.0	10.0	11.0	15.0	18.0	24.0	23.0	24.0	17.0	17.0	17.0	17.0	17.0	10.0	18.0	13.4	24.0	6.0
16	10.0	7.0	6.0	8.0	6.0	9.0	9.0	10.0	12.0	7.0	5.0	16.0	16.0	10.0	9.0	6.0	7.0	11.0	10.0	8.0	9.0	10.0	8.0	8.0	9.0	16.0	5.0
17	9.0	10.0	17.0	12.0	17.0	22.0	14.0	22.0	11.0	12.0	13.0	11.0	11.0	11.0	11.0	12.0	11.0	9.0	12.0	14.0	14.0	25.0	13.0	11.0	13.5	25.0	9.0
18	8.0	9.0	13.0	12.0	19.0	6.0	7.0	26.0	16.0	18.0	17.0	12.0	12.0	8.0	6.0	11.0	11.0	11.0	9.0	8.0	10.0	12.0	12.0	12.0	11.9	26.0	6.0
19	9.0	15.0	10.0	8.0	5.0	6.0	4.0	6.0	8.0	10.0	10.0	9.0	12.0	20.0	44.0	43.0	58.0	54.0	47.0	34.0	23.0	9.0	8.0	6.0	19.1	58.0	4.0
20	6.0	8.0	9.0	6.0	6.0	16.0	13.0	14.0	12.0	9.0	9.0	9.0	10.0	11.0	12.0	27.0	26.0	22.0	18.0	17.0	19.0	20.0	17.0	11.0	13.6	27.0	6.0
21	10.0	8.0	4.0	3.0	7.0	8.0	8.0	16.0	7.0	10.0	9.0	7.0	9.0	11.0	37.0	51.0	45.0	33.0	23.0	20.0	25.0	27.0	11.0	20.0	17.0	51.0	3.0
22	9.0	7.0	6.0	5.0	3.0	4.0	5.0	7.0	6.0	8.0	9.0	10.0	10.0	7.0	17.0	13.0	17.0	26.0	20.0	23.0	27.0	33.0	25.0	19.0	13.2	33.0	3.0
23	20.0	19.0	19.0	16.0	18.0	44.0	12.0	10.0	9.0	11.0	11.0	8.0	9.0	17.0	13.0	14.0	14.0	15.0	23.0	17.0	12.0	16.0	23.0	15.0	16.0	44.0	8.0
24	13.0	12.0	12.0	13.0	12.0	16.0	16.0	17.0	14.0	14.0	13.0	13.0	16.0	11.0	12.0	16.0	11.0	11.0	11.0	9.0	9.0	12.0	12.0	8.0	12.6	17.0	8.0
25	11.0	11.0	7.0	7.0	9.0	8.0	17.0	15.0	18.0	15.0	11.0	7.0	8.0	16.0	21.0	17.0	7.0	10.0	12.0	13.0	15.0	14.0	17.0	12.0	12.4	21.0	7.0
26	13.0	13.0	13.0	15.0	14.0	13.0	13.0	24.0	12.0	17.0	19.0	14.0	14.0	14.0	12.0	23.0	21.0	20.0	16.0	15.0	23.0	20.0	18.0	14.0	16.3	24.0	12.0
27	12.0	11.0	11.0	11.0	11.0	19.0	19.0	19.0	18.0	20.0	20.0	16.0	11.0	12.0	12.0	11.0	12.0	14.0	15.0	16.0	20.0	11.0	21.0	20.0	15.1	21.0	11.0
28	9.0	11.0	11.0	8.0	15.0	11.0	15.0	13.0	21.0	10.0	8.0	--	8.0	11.0	11.0	11.0	17.0	18.0	17.0	18.0	13.0	13.0	17.0	13.0	13.0	21.0	8.0
29	18.0	9.0	6.0	6.0	7.0	7.0	10.0	6.0	3.0	6.0	8.0	10.0	7.0	9.0	13.0	15.0	11.0	10.0	20.0	25.0	12.0	66.0	22.0	16.0	13.4	66.0	3.0
30	17.0	10.0	11.0	11.0	17.0	9.0	10.0	12.0	14.0	10.0	10.0	13.0	8.0	7.0	10.0	11.0	13.0	14.0	19.0	17.0	16.0	14.0	15.0	12.0	12.5	19.0	7.0
Avg	15.6	14.5	14.3	13.8	17.8	18.1	17.3	18.3	16.3	17.5	16.6	16.8	17.2	20.3	25.2	28.6	25.9	23.5	23.0	20.9	20.3	29.4	20.0	16.9	19.5	--	--
Max	75.0	51.0	63.0	54.0	92.0	89.0	100.0	56.0	55.0	54.0	59.0	76.0	76.0	127.0	203.0	260.0	157.0	90.0	142.0	80.0	66.0	319.0	119.0	73.0	--	319.0	--
Min	6.0	6.0	4.0	3.0	3.0	4.0	4.0	6.0	3.0	6.0	5.0	7.0	7.0	7.0	6.0	6.0	7.0	9.0	9.0	8.0	9.0	6.0	8.0	6.0	--	--	3.0

[1]-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, East_Plant_conc_PM10_STP"
Month: Jul 2017

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	1.2	4.7	9.3	12.7	11.6	17.4	20.0	24.8	19.0	13.1	20.4	13.2	9.6	12.0	20.5	42.1	18.0	20.4	21.5	23.8	20.2	30.7	22.4	17.3	42.1	1.2
2	17.6	15.3	8.2	9.3	22.1	20.9	17.5	10.5	10.6	9.4	13.0	18.9	3.6	8.3	22.6	23.9	27.5	26.3	23.8	19.0	22.5	17.7	23.5	23.5	17.3	27.5	3.6
3	18.8	25.8	29.1	54.3	46.1	38.0	21.9	16.2	30.2	29.2	32.8	29.5	30.8	24.9	34.5	36.9	28.6	32.2	29.7	23.7	29.5	31.8	29.4	24.7	30.4	54.3	16.2
4	20.0	25.8	21.1	23.4	30.4	24.5	30.3	32.7	36.2	35.2	24.8	22.5	25.0	25.1	27.6	26.4	20.4	20.4	45.6	28.7	22.6	30.9	22.6	23.7	26.9	45.6	20.0
5	16.6	23.6	24.7	24.6	23.4	22.1	24.5	31.5	23.4	21.1	28.3	26.1	26.2	31.0	59.9	44.4	30.1	30.0	28.8	27.5	22.6	22.6	24.9	24.9	27.6	59.9	16.6
6	24.8	27.0	24.6	22.2	31.5	36.1	19.8	25.6	25.7	31.7	36.6	23.8	39.4	31.2	34.9	28.9	30.1	26.4	31.2	25.1	34.6	28.6	30.8	34.3	29.4	39.4	19.8
7	30.7	22.3	30.6	31.8	31.7	35.2	36.4	39.0	38.0	39.4	29.9	27.7	31.4	25.4	25.5	23.1	24.2	18.1	20.5	38.4	39.4	31.0	23.7	26.1	30.0	39.4	18.1
8	21.3	14.1	18.9	16.5	27.0	50.4	48.1	64.8	54.3	48.7	32.2	20.4	24.1	26.4	24.1	126.0	28.6	32.4	14.4	11.9	17.8	14.2	233.0	175.0	47.7	233.0	11.9
9	64.1	33.7	32.5	29.0	30.1	27.7	31.2	35.9	33.6	36.1	36.2	31.8	30.8	39.2	35.8	34.6	29.7	34.5	30.9	35.6	462.0	389.0	330.0	315.0	91.2	462.0	27.7
10	234.0	74.6	48.9	18.6	17.4	40.7	41.8	46.5	60.9	55.1	31.8	33.2	44.0	27.4	34.7	21.6	27.6	30.0	21.5	21.5	20.2	37.8	31.5	11.6	43.1	234.0	11.6
11	10.4	17.3	12.7	13.8	15.0	13.8	13.8	18.4	8.0	5.7	8.1	--	--	--	--	--	27.0	27.0	28.2	21.1	22.2	16.4	13.9	11.6	16.0	28.2	5.7
12	8.1	7.0	9.3	11.6	11.6	12.7	18.5	17.5	19.9	22.3	20.0	28.4	16.6	23.8	27.4	27.5	21.5	19.0	19.0	27.3	23.7	22.5	18.7	15.1	18.7	28.4	7.0
13	13.9	13.9	20.9	22.0	18.6	19.7	19.7	22.1	24.4	21.0	16.4	21.2	28.4	27.4	23.9	27.5	27.5	30.7	30.9	30.9	24.8	21.0	11.6	9.3	22.0	30.9	9.3
14	9.3	10.4	9.2	6.9	6.9	9.2	11.6	14.0	15.2	21.1	15.3	23.7	26.1	28.6	20.3	25.1	34.2	13.8	18.4	15.0	15.0	19.7	13.9	13.9	16.5	34.2	6.9
15	12.7	12.7	12.7	12.7	11.5	9.2	11.6	12.8	11.7	14.1	18.9	14.2	14.3	14.3	14.4	20.2	28.0	12.7	12.7	19.8	16.3	13.9	31.1	55.2	17.0	55.2	9.2
16	33.3	19.5	14.9	20.7	12.6	10.3	8.1	7.0	10.5	19.8	16.3	15.2	16.5	14.2	13.0	14.3	15.5	16.4	15.1	17.3	10.4	10.4	10.4	11.5	14.7	33.3	7.0
17	8.0	3.4	3.4	1.1	0.0	5.7	8.0	8.1	9.2	8.1	6.9	8.2	9.4	11.8	14.2	10.6	9.5	10.6	9.4	9.3	7.0	4.6	5.8	3.4	7.3	14.2	0.0
18	0.0	1.1	4.6	5.7	6.9	4.6	4.6	5.8	5.8	9.3	10.4	9.3	9.3	10.6	9.3	5.8	6.9	6.9	4.6	4.6	8.1	8.1	9.2	8.1	6.6	10.6	0.0
19	5.7	8.0	8.0	9.2	10.3	8.0	9.2	10.4	8.1	10.4	15.1	14.0	9.4	8.2	10.6	14.1	14.1	11.7	32.6	29.0	27.8	25.5	28.8	27.5	14.8	32.6	5.7
20	9.2	5.7	3.4	6.9	6.9	10.3	10.3	21.8	11.5	17.3	16.3	23.4	15.2	20.0	17.7	16.6	15.4	12.9	10.5	24.4	11.5	9.2	6.9	10.3	13.1	24.4	3.4
21	9.2	5.7	6.9	9.2	10.3	11.4	10.3	10.4	9.2	6.9	7.0	5.8	7.0	10.6	14.1	18.9	10.5	10.3	9.2	9.2	9.2	9.2	10.4	11.6	9.7	18.9	5.7
22	8.1	9.2	15.0	14.9	14.9	17.2	18.4	17.3	13.9	14.0	14.0	11.7	11.8	11.8	13.0	18.9	5.7	5.8	5.8	4.6	9.2	10.3	10.3	11.5	12.0	18.9	4.6
23	8.1	6.9	17.2	16.1	13.8	11.5	12.6	13.8	12.7	17.4	11.6	11.6	12.8	12.9	14.2	15.4	11.8	18.6	6.9	6.9	6.9	6.9	5.7	6.9	11.6	18.6	5.7
24	9.2	9.2	11.5	10.3	8.0	11.5	14.9	13.8	8.0	2.3	3.4	3.5	1.2	6.9	8.1	3.5	5.8	5.8	6.9	6.9	9.2	10.3	10.3	12.6	8.0	14.9	1.2
25	13.7	12.6	12.6	8.0	9.1	18.3	17.2	17.3	10.4	7.0	8.1	10.5	15.2	14.0	12.9	14.1	12.9	10.6	11.7	11.7	14.0	12.7	13.9	13.9	12.6	18.3	7.0
26	13.9	16.2	15.0	13.8	13.8	14.9	14.9	16.2	21.0	17.5	17.6	12.9	10.6	22.4	11.8	13.1	10.7	10.7	13.0	10.6	12.9	20.0	16.4	16.4	14.8	22.4	10.6
27	14.1	--	8.2	10.5	11.7	12.8	15.1	15.2	15.2	15.2	--	21.2	15.4	20.2	17.9	--	--	--	19.8	--	-2.3	2.3	6.9	5.7	12.5	21.2	-2.3
28	6.9	8.0	4.6	1.1	2.3	3.4	2.3	5.7	8.1	11.6	9.3	4.7	5.8	7.0	5.9	8.3	10.6	14.2	12.9	8.2	8.2	47.7	22.0	17.3	9.8	47.7	1.1
29	12.7	10.3	8.0	4.6	3.5	4.6	6.9	5.8	6.9	5.8	5.8	7.0	5.8	8.2	7.0	4.7	4.7	5.9	5.8	8.1	10.4	9.2	8.1	9.2	7.0	12.7	3.5
30	11.5	14.9	13.8	13.8	19.5	21.7	33.1	33.1	38.9	33.3	33.4	32.4	31.4	16.3	22.3	8.1	9.3	12.9	17.5	12.8	12.8	13.9	17.4	12.7	20.3	38.9	8.1
31	8.1	4.6	6.9	6.9	6.9	5.7	4.6	6.9	9.3	29.2	19.9	17.7	9.4	8.3	8.3	9.5	11.9	26.1	17.7	14.1	9.4	9.3	10.5	8.1	11.2	29.2	4.6
Avg	22.0	15.3	14.9	14.8	15.7	17.5	17.9	19.9	19.9	20.5	18.4	18.4	18.0	18.2	19.9	22.8	19.4	18.4	18.6	18.2	31.0	29.9	34.3	31.4	20.6	--	--
Max	234.0	74.6	48.9	54.3	46.1	50.4	48.1	64.8	60.9	55.1	36.6	33.2	44.0	39.2	59.9	126.0	42.1	34.5	45.6	38.4	462.0	389.0	330.0	315.0	--	462.0	--
Min	0.0	1.1	3.4	1.1	0.0	3.4	2.3	5.7	5.8	2.3	3.4	3.5	1.2	6.9	5.9	3.5	4.7	5.8	4.6	4.6	-2.3	2.3	5.7	3.4	--	--	-2.3

'-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, East_Plant_conc_PM10_STP"
Month: Aug 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	10.4	9.2	6.9	6.9	3.5	3.5	3.4	3.4	6.9	6.9	5.8	4.7	5.9	5.9	4.7	4.7	3.5	2.3	5.8	6.9	5.7	2.3	1.2	2.3	5.1	10.4	1.2
2	3.5	4.6	4.6	6.9	2.3	37.8	5.7	4.6	3.4	8.1	10.4	18.6	15.2	9.3	5.8	--	--	9.3	7.0	3.5	3.5	3.5	4.6	5.8	8.1	37.8	2.3
3	3.5	4.6	4.6	2.3	2.3	5.7	10.4	18.4	12.7	12.8	12.8	11.7	10.6	7.1	9.5	12.9	15.3	11.7	9.4	12.7	15.0	15.0	13.8	13.8	10.4	18.4	2.3
4	13.8	9.2	8.1	6.9	21.8	10.3	18.4	11.5	9.3	9.3	9.3	7.0	11.8	10.6	9.4	10.6	10.6	9.5	7.1	8.2	8.2	5.8	10.5	15.1	10.5	21.8	5.8
5	84.6	129.0	117.0	72.9	45.2	25.4	41.4	41.7	44.2	23.3	24.5	18.7	11.8	13.0	15.4	15.4	13.0	11.8	15.4	16.5	16.5	11.7	8.2	10.5	34.5	129.0	8.2
6	14.0	19.8	10.4	11.6	9.3	10.4	11.5	19.7	10.5	11.7	17.5	11.7	11.8	9.5	8.3	7.1	8.3	7.1	7.1	10.6	22.3	15.1	12.8	9.3	12.0	22.3	7.1
7	7.0	7.0	5.8	3.5	6.9	10.4	11.5	23.2	14.0	19.9	18.8	13.0	13.0	11.9	10.7	9.5	9.5	11.9	11.8	8.3	19.9	11.7	9.3	8.2	11.5	23.2	3.5
8	9.3	7.0	9.3	15.1	11.6	10.4	13.9	18.6	19.9	20.0	39.2	20.2	9.5	10.7	13.1	11.9	11.9	17.9	10.7	13.0	17.7	27.0	21.1	15.2	15.6	39.2	7.0
9	11.7	9.3	10.5	11.6	11.6	19.7	17.4	25.7	20.0	47.3	32.1	21.4	--	10.8	12.0	12.0	9.6	--	11.9	14.3	14.2	13.0	14.1	23.4	17.0	47.3	9.3
10	14.1	15.2	14.0	11.7	14.0	20.9	18.5	12.8	14.0	21.0	--	16.5	41.5	40.5	53.8	62.3	33.6	23.9	23.8	13.0	47.6	8.1	11.5	10.4	23.6	62.3	8.1
11	2.3	2.3	11.6	9.3	4.6	24.3	12.8	14.0	12.9	17.7	7.1	9.5	13.1	13.1	13.2	13.2	19.2	9.6	10.7	8.3	7.1	9.5	10.6	9.4	11.1	24.3	2.3
12	8.2	7.0	8.2	11.6	15.1	10.4	11.6	15.1	11.6	11.5	8.0	8.1	8.1	7.0	7.1	8.3	10.7	9.5	8.3	11.8	11.7	9.3	12.8	11.6	10.1	15.1	7.0
13	11.4	8.0	3.4	4.6	6.8	6.8	5.7	--	-2.3	1.2	5.8	3.5	0.0	0.0	--	--	--	--	2.4	4.7	7.0	8.2	7.0	9.3	4.9	11.4	-2.3
14	9.3	6.9	8.1	9.3	12.7	11.5	9.2	11.6	12.8	10.4	10.5	15.2	15.3	13.0	10.7	11.8	23.7	17.8	16.5	14.1	12.9	15.2	12.8	10.5	12.6	23.7	6.9
15	12.8	12.8	11.6	11.6	13.9	18.5	11.6	11.6	12.8	12.8	10.5	14.1	11.8	7.1	10.7	15.4	28.5	23.7	23.6	14.1	15.3	11.7	9.3	14.0	14.2	28.5	7.1
16	12.7	12.7	14.9	14.9	16.0	9.2	9.2	17.3	10.4	11.7	10.5	7.0	7.1	7.1	7.1	11.8	11.8	9.5	9.4	9.4	10.5	11.7	10.4	11.7	11.0	17.3	7.0
17	12.8	8.1	5.8	4.6	5.7	6.9	6.9	11.5	14.0	11.7	10.5	18.8	5.9	7.1	5.9	5.9	8.3	8.3	5.9	4.7	3.5	5.8	10.4	5.8	8.1	18.8	3.5
18	1.2	4.6	4.6	2.3	4.6	6.9	6.9	5.8	9.3	21.2	14.1	10.6	9.5	10.7	4.8	3.6	8.3	8.3	10.6	13.0	11.8	10.6	10.6	11.7	8.6	21.2	1.2
19	10.5	9.4	9.3	7.0	5.8	19.6	11.5	9.3	7.0	10.5	11.7	7.0	4.7	4.7	5.9	11.9	13.0	11.9	18.9	17.7	12.9	31.6	11.7	39.6	12.6	39.6	4.7
20	7.0	11.6	27.8	22.0	18.5	35.8	16.2	15.0	27.9	26.8	24.5	16.4	15.3	9.4	8.3	10.6	11.8	14.2	11.7	9.2	7.0	5.8	5.8	8.1	15.3	35.8	5.8
21	8.1	11.5	12.7	10.4	12.6	14.9	14.9	18.5	9.3	10.5	10.5	9.3	11.8	13.0	9.5	11.8	15.4	16.5	24.7	14.1	14.1	18.7	16.3	18.6	13.6	24.7	8.1
22	19.7	18.5	11.6	9.3	11.5	23.0	23.1	13.9	17.6	22.3	20.0	29.5	29.7	14.3	14.3	15.5	16.7	16.7	14.3	11.8	14.2	14.2	33.8	6.9	17.6	33.8	6.9
23	6.9	10.4	12.7	12.7	13.9	11.6	10.4	12.7	18.6	12.8	12.9	14.1	18.9	13.1	14.3	16.6	24.9	108.0	48.9	1.2	2.3	10.4	12.6	4.6	17.7	108.0	1.2
24	4.6	8.1	8.0	2.3	0.0	3.4	2.3	9.2	30.0	16.3	15.2	18.9	15.4	14.3	11.9	13.1	9.6	17.9	8.3	9.5	11.8	15.3	11.7	7.0	11.0	30.0	0.0
25	5.8	7.0	7.0	5.8	8.1	8.1	11.6	11.6	9.4	14.1	30.8	36.9	17.9	12.0	10.8	10.8	12.0	10.8	10.7	11.9	20.1	17.7	14.1	10.6	13.1	36.9	5.8
26	9.4	10.5	10.5	9.3	10.4	10.4	5.8	3.5	7.1	11.8	10.7	8.3	7.2	7.2	8.4	10.7	43.3	11.7	8.2	9.4	22.2	8.1	7.0	7.0	10.7	43.3	3.5
27	7.0	2.3	8.1	11.6	8.1	5.8	6.9	8.1	10.4	10.5	--	16.6	14.3	9.6	10.8	10.8	8.4	65.7	9.5	12.9	19.9	19.9	11.6	9.3	13.0	65.7	2.3
28	5.8	4.7	7.0	12.8	18.5	19.7	17.4	10.5	22.2	--	--	--	--	6.0	12.0	20.5	22.8	59.7	13.0	14.1	9.4	5.9	8.2	7.0	14.8	59.7	4.7
29	5.8	9.3	9.3	6.9	6.9	11.6	15.0	22.0	15.2	39.9	27.2	--	--	--	15.6	21.6	15.6	19.2	27.4	21.3	16.5	12.9	22.3	12.9	16.9	39.9	5.8
30	11.7	11.7	18.6	18.6	11.6	--	12.7	12.8	33.9	15.3	17.7	11.9	41.7	22.8	27.6	20.4	18.0	17.9	13.1	10.6	9.4	23.5	12.9	12.9	17.7	41.7	9.4
31	12.9	17.5	22.1	17.4	17.4	15.0	15.0	26.7	31.6	21.2	33.1	19.0	22.6	17.9	14.4	32.4	22.8	8.4	11.9	18.9	14.1	11.7	11.7	23.4	19.1	33.1	8.4
Avg	11.5	13.2	13.7	11.7	11.3	14.3	12.5	14.7	15.4	16.3	16.5	14.4	14.3	11.3	12.2	14.6	15.9	19.7	13.5	11.3	13.7	12.6	12.0	11.8	13.6	--	--
Max	84.6	129.0	117.0	72.9	45.2	37.8	41.4	41.7	44.2	47.3	39.2	36.9	41.7	40.5	53.8	62.3	43.3	108.0	48.9	21.3	47.6	31.6	33.8	39.6	--	129.0	--
Min	1.2	2.3	3.4	2.3	0.0	3.4	2.3	3.4	-2.3	1.2	5.8	3.5	0.0	0.0	4.7	3.6	3.5	2.3	2.4	1.2	2.3	2.3	1.2	2.3	--	--	-2.3

'-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table100, East_Plant_conc_PM10_STP"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	17.5	17.4	16.2	15.0	22.0	17.4	30.1	29.1	28.2	42.5	39.2	26.2	65.8	48.0	24.0	26.4	20.4	21.6	26.3	36.8	38.9	20.0	22.3	11.7	27.6	65.8	11.7
2	12.8	21.1	14.0	15.1	74.0	61.0	40.3	22.0	21.1	25.8	24.8	24.8	18.9	22.4	20.1	15.4	33.1	27.2	24.7	20.0	36.3	30.3	23.3	15.1	26.8	74.0	12.8
3	22.1	29.0	45.0	48.3	31.0	36.7	17.2	32.0	31.3	28.2	17.7	22.6	21.5	16.7	23.9	23.8	26.2	26.1	29.5	29.3	26.9	19.9	24.5	18.7	27.0	48.3	16.7
4	15.1	19.7	23.1	20.8	19.6	25.4	18.5	25.5	23.3	18.7	25.6	29.3	20.0	15.4	22.6	21.4	21.4	107.0	27.3	23.7	14.2	17.7	21.1	33.9	25.4	107.0	14.2
5	14.0	25.6	17.4	16.2	13.9	13.9	19.6	15.1	18.7	27.1	22.5	21.4	21.5	27.5	20.4	30.0	24.0	23.9	20.2	24.8	11.7	15.2	18.7	11.7	19.8	30.0	11.7
6	11.6	12.8	14.0	19.7	18.5	27.7	28.9	40.6	32.7	34.1	34.2	24.9	23.8	27.5	23.9	28.7	26.3	22.7	33.3	23.6	23.6	32.9	26.9	22.2	25.6	40.6	11.6
7	25.7	23.3	23.3	19.8	29.1	20.8	22.0	42.9	23.3	37.6	28.3	28.5	33.3	27.5	31.1	22.8	31.1	25.0	36.7	51.5	49.2	37.4	42.0	40.7	31.4	51.5	19.8
8	43.0	59.2	73.0	62.4	106.0	103.0	115.0	64.7	63.6	62.7	68.9	89.1	89.3	83.7	84.8	74.3	70.8	62.3	21.8	18.4	11.5	6.9	9.2	17.2	60.9	115.0	6.9
9	13.7	9.1	10.2	12.5	12.5	12.5	13.6	13.6	12.6	12.6	15.0	15.1	12.8	11.7	18.7	18.8	15.3	19.9	12.8	14.0	15.1	18.4	16.1	15.0	14.2	19.9	9.1
10	13.8	11.5	11.5	11.5	10.3	10.3	11.5	--	--	8.2	12.9	14.2	13.0	11.9	20.2	17.8	19.0	14.2	14.2	22.3	10.5	11.7	14.0	15.1	13.6	22.3	8.2
11	17.5	20.9	15.0	13.8	25.4	26.6	31.2	26.7	24.5	45.8	23.6	29.6	19.0	16.7	20.3	34.6	37.0	37.0	24.9	13.0	30.6	16.4	14.0	19.9	24.3	45.8	13.0
12	21.0	17.5	15.1	22.1	20.9	12.8	18.6	9.3	14.1	17.8	22.6	11.9	15.6	16.8	20.4	21.6	25.2	14.4	15.5	20.2	19.0	23.7	21.3	19.0	18.2	25.2	9.3
13	16.5	21.2	18.7	17.5	21.0	10.5	12.8	19.8	30.6	25.9	24.8	16.6	15.5	17.9	14.4	13.2	23.9	21.5	19.0	26.1	39.1	376.0	139.0	85.2	42.8	376.0	10.5
14	87.9	23.4	15.2	12.8	11.6	10.5	8.1	9.3	9.4	11.7	10.6	26.0	34.3	151.0	242.0	309.0	186.0	63.8	168.0	94.0	77.2	34.9	16.3	15.1	67.8	309.0	8.1
15	10.4	6.9	6.9	9.2	10.3	10.3	13.8	11.5	6.9	9.3	11.6	12.8	17.5	21.1	28.2	27.1	28.2	20.0	19.9	19.9	19.8	19.8	11.6	20.8	15.6	28.2	6.9
16	11.6	8.1	6.9	9.2	6.9	10.3	10.3	11.5	13.8	8.1	5.8	18.6	18.7	11.8	10.6	7.1	8.3	12.9	11.7	9.3	10.5	11.6	9.2	9.2	10.5	18.7	5.8
17	10.4	11.5	19.6	13.8	19.5	25.1	16.0	25.3	12.8	14.0	15.2	12.9	12.9	12.9	13.0	14.1	13.0	10.6	14.0	16.3	16.3	29.0	15.0	12.7	15.7	29.0	10.4
18	9.2	10.3	14.9	13.7	21.6	6.8	8.0	29.7	18.5	20.9	19.8	14.0	14.1	9.4	7.1	13.0	13.0	12.9	10.5	9.4	11.6	13.9	13.9	13.9	13.8	29.7	6.8
19	10.4	17.4	11.5	9.2	5.7	6.9	4.6	6.9	9.2	11.6	11.6	10.5	14.0	23.5	51.9	50.8	68.6	63.7	55.3	39.8	26.9	10.5	9.3	6.9	22.4	68.6	4.6
20	6.9	9.2	10.3	6.9	6.9	18.3	14.8	16.0	13.8	10.4	10.5	10.5	11.8	13.0	14.2	31.9	30.7	25.9	21.2	19.9	22.2	23.3	19.7	12.7	15.9	31.9	6.9
21	11.5	9.2	4.6	3.4	8.0	9.2	9.1	18.4	8.1	11.6	10.5	8.2	10.6	13.0	43.8	60.4	53.2	38.9	27.0	23.4	29.2	31.4	12.8	23.1	20.0	60.4	3.4
22	10.4	8.1	6.9	5.7	3.4	4.6	5.7	8.0	6.9	9.2	10.4	11.6	11.6	8.2	19.9	15.2	19.9	30.3	23.2	26.7	31.2	38.0	28.7	21.8	15.2	38.0	3.4
23	22.9	21.7	21.7	18.3	20.5	49.9	13.6	11.4	10.3	12.6	12.7	9.2	10.4	19.7	15.1	16.2	16.2	17.3	26.4	19.5	13.7	18.3	26.2	17.0	18.4	49.9	9.2
24	14.7	13.5	13.5	14.6	13.5	18.0	17.9	19.2	16.0	16.0	14.9	15.0	18.5	12.7	13.9	18.5	12.7	12.7	12.6	10.3	10.3	13.7	13.7	9.1	14.4	19.2	9.1
25	12.5	12.4	7.9	7.9	10.1	9.0	19.1	17.0	20.6	17.3	12.7	8.1	9.3	18.6	24.5	19.8	8.2	11.6	13.9	15.0	17.2	16.0	19.4	13.7	14.2	24.5	7.9
26	14.8	14.7	14.7	17.0	15.8	14.7	14.7	27.3	13.7	19.6	22.0	16.2	16.3	16.3	14.0	26.9	24.5	23.2	18.5	17.3	26.4	22.9	20.6	16.0	18.7	27.3	13.7
27	13.8	12.6	12.5	12.5	12.5	21.7	21.6	21.6	20.7	23.1	23.2	18.6	12.8	14.0	14.0	12.8	14.0	16.2	17.3	18.4	22.9	12.6	23.9	22.8	17.3	23.9	12.5
28	10.2	12.4	12.4	9.0	16.9	12.4	16.9	14.8	24.0	11.5	9.3	--	9.3	12.9	12.9	12.9	19.9	21.0	19.8	20.9	15.0	15.0	19.5	14.9	15.0	24.0	9.0
29	20.7	10.3	6.9	6.9	8.0	8.0	11.4	6.9	3.5	7.0	9.3	11.7	8.2	10.6	15.3	17.7	13.0	11.7	23.4	29.1	13.9	76.4	25.4	18.4	15.6	76.4	3.5
30	19.6	11.5	12.6	12.6	19.4	10.3	11.4	13.8	16.2	11.6	11.7	15.3	9.4	8.3	11.8	13.0	15.3	16.5	22.2	19.9	18.6	16.2	17.3	13.8	14.5	22.2	8.3
Avg	18.1	16.7	16.5	15.9	20.5	20.8	19.9	21.0	18.9	20.4	19.4	19.8	20.3	24.0	29.9	33.9	30.6	27.7	27.0	24.4	23.7	34.3	23.2	19.6	22.8	--	--
Max	87.9	59.2	73.0	62.4	106.0	103.0	115.0	64.7	63.6	62.7	68.9	89.1	89.3	151.0	242.0	309.0	186.0	107.0	168.0	94.0	77.2	376.0	139.0	85.2	--	376.0	--
Min	6.9	6.9	4.6	3.4	3.4	4.6	4.6	6.9	3.5	7.0	5.8	8.1	8.2	8.2	7.1	7.1	8.2	10.6	10.5	9.3	10.3	6.9	9.2	6.9	--	--	3.4

[1]-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table126, conc_PM25"
Month: Jul 2017

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	2	2	1	3	5	4	3	4	8	8	4	2	3	4	4	7	10	9	9	6	4	4.33	10	0
2	5	5	3	3	5	5	5	6	4	4	6	5	3	5	5	4	5	6	7	8	6	7	7	7	5.25	8	3
3	5	5	7	9	12	12	11	7	4	8	8	7	9	9	9	10	9	6	7	9	9	9	7	7	8.12	12	4
4	7	8	7	5	8	7	8	10	11	10	7	6	6	6	5	4	5	6	8	8	7	6	6	6	6.96	11	4
5	6	8	8	7	9	8	8	8	7	7	6	6	7	7	7	7	6	5	7	7	7	6	6	6	6.92	9	5
6	7	9	8	7	7	7	9	8	8	10	8	6	7	8	8	9	8	7	9	10	10	10	10	9	8.29	10	6
7	8	8	9	15	15	10	10	10	10	10	11	9	8	8	8	9	6	6	7	7	7	6	9	8	8.92	15	6
8	6	8	9	5	6	11	15	15	13	11	10	9	9	6	6	11	10	9	10	10	8	6	29	30	10.9	30	5
9	9	9	8	9	10	10	9	7	9	11	9	7	17	10	11	11	12	12	12	11	46	47	43	39	15.7	47	7
10	30	12	11	6	6	7	9	11	10	8	10	10	7	7	7	5	5	6	6	6	6	5	7	9	8.58	30	5
11	6	7	6	3	4	5	5	4	5	3	2	3	4	--	--	--	9	10	5	3	5	6	4	1	4.76	10	1
12	1	4	6	7	8	5	5	4	4	6	7	5	5	5	5	7	7	6	7	8	9	8	5	7	5.88	9	1
13	9	6	5	7	7	6	5	5	7	5	3	6	7	9	8	7	7	6	10	12	9	8	7	6	6.96	12	3
14	5	2	4	5	3	5	5	3	3	5	3	2	6	6	6	6	5	6	6	6	6	6	6	7	4.88	7	2
15	7	5	6	3	2	5	4	3	3	2	3	3	4	6	3	4	5	2	3	5	6	6	6	6	4.25	7	2
16	8	8	7	5	0	1	6	5	3	3	4	7	8	8	8	7	7	6	1	1	5	4	3	1	4.83	8	0
17	-1	0	-1	-2	-1	0	4	7	5	3	3	2	3	6	5	4	2	0	0	1	2	1	-1	1	1.79	7	-2
18	1	1	4	2	0	0	-1	1	1	-3	-1	2	2	5	6	3	2	1	1	0	1	3	2	1	1.42	6	-3
19	2	3	2	3	6	5	2	3	4	4	6	6	4	3	3	1	3	3	1	3	1	3	6	4	3.38	6	1
20	1	-1	2	4	1	3	4	5	6	5	5	4	3	3	2	3	2	2	4	2	3	4	3	1	2.96	6	-1
21	3	4	1	-1	-2	-1	2	3	4	5	3	2	5	5	4	3	3	4	3	5	6	5	6	5	3.21	6	-2
22	1	3	5	5	5	4	3	4	2	3	5	6	6	5	4	4	4	2	3	4	1	1	2	2	3.5	6	1
23	4	2	1	2	2	1	2	1	-2	1	4	4	4	4	6	3	4	6	2	1	2	3	3	2	2.58	6	-2
24	1	3	3	4	3	1	0	0	-1	0	2	1	-1	1	1	-1	-1	0	2	1	2	3	1	2	1.13	4	-1
25	1	1	2	2	2	0	-1	1	1	1	3	5	3	3	4	3	3	4	7	6	5	5	4	2	2.79	7	-1
26	4	7	7	5	4	4	7	7	6	6	4	3	4	5	5	5	6	7	6	4	5	6	5	4	5.25	7	3
27	4	--	5	5	3	4	3	3	5	4	--	5	4	4	8	--	--	--	3	--	-1	-1	-1	-1	3.11	8	-1
28	0	2	2	0	-1	0	1	3	3	2	4	2	1	1	2	2	1	4	4	1	2	7	7	5	2.29	7	-1
29	3	3	4	4	3	3	5	2	2	5	3	2	3	2	1	1	0	1	2	1	1	1	1	0	2.21	5	0
30	0	2	3	2	2	3	2	1	1	1	1	2	2	3	4	3	1	2	2	2	1	1	3	4	2	4	0
31	1	1	1	2	0	-2	-1	-2	1	5	6	5	1	-1	1	3	1	1	2	1	2	-1	-1	0	1.08	6	-2
Avg	4.68	4.5	4.71	4.35	4.23	4.19	4.81	4.84	4.61	4.77	4.97	4.84	5.13	5.1	5.13	4.86	4.7	4.67	4.97	5.1	6.06	6.13	6.48	5.97	4.98	--	--
Max	30	12	11	15	15	12	15	15	13	11	11	10	17	10	11	11	12	12	12	12	46	47	43	39	--	47	--
Min	-1	-1	-1	-2	-2	-2	-1	-2	-2	-3	-1	1	-1	-1	1	-1	-1	0	0	0	-1	-1	-1	-1	--	--	-3

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table126, conc_PM25"
Month: Aug 2017

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	1	1	0	-1	-1	0	1	2	0	0	3	4	2	0	2	3	1	0	1	3	1	0	2	1.13	4	-1
2	2	4	1	-2	-2	-1	-2	-1	2	2	0	2	3	1	1	--	--	1	0	0	-1	0	2	0	0.545	4	-2
3	0	1	1	1	-2	-1	2	3	3	3	2	3	4	4	6	4	2	2	3	1	3	6	5	4	2.5	6	-2
4	4	3	4	3	6	7	4	3	4	3	3	1	1	2	1	0	0	0	1	1	1	1	0	1	2.25	7	0
5	3	5	9	10	7	2	3	6	4	4	3	3	2	1	1	1	1	2	4	5	6	5	2	3	3.83	10	1
6	5	5	5	4	1	0	4	5	5	5	3	2	2	1	0	-1	1	2	3	5	5	5	6	3	3.17	6	-1
7	2	1	3	5	5	5	5	5	4	4	5	6	5	3	3	3	1	3	5	5	2	4	5	3	3.83	6	1
8	0	0	4	5	3	3	3	5	6	6	4	3	5	5	5	5	2	2	4	5	6	7	7	5	4.17	7	0
9	3	4	4	2	4	6	8	5	4	5	4	5	--	6	6	4	4	--	1	3	5	4	5	6	4.45	8	1
10	4	3	1	3	5	2	2	3	3	4	--	1	4	5	5	3	2	4	5	4	3	3	0	-1	2.96	5	-1
11	0	3	4	1	0	1	3	2	1	3	3	4	3	2	4	4	0	2	4	3	2	3	3	2	2.38	4	0
12	1	2	3	5	8	6	2	1	2	3	3	1	-1	-4	0	4	2	0	2	3	5	3	2	2	2.29	8	-4
13	-1	-2	-1	0	1	1	2	--	-4	-1	1	0	0	1	--	--	--	--	3	2	2	2	1	1	0.421	3	-4
14	1	2	2	2	5	5	4	2	1	3	4	5	4	3	3	2	5	5	5	5	3	3	6	5	3.54	6	1
15	3	3	4	3	2	1	0	3	5	4	4	3	3	2	3	4	6	8	5	2	4	5	5	4	3.58	8	0
16	4	6	5	3	3	7	6	2	4	4	1	1	3	2	2	2	2	1	0	2	3	2	0	0	2.71	7	0
17	1	1	1	0	0	1	2	2	3	3	4	4	2	0	1	2	1	0	1	0	1	2	1	0	1.38	4	0
18	0	1	1	0	3	3	2	1	1	2	2	1	0	0	2	1	0	2	4	2	2	0	-1	0	1.21	4	-1
19	1	1	1	3	2	2	5	4	2	2	0	0	2	3	4	5	3	3	2	3	4	4	3	4	2.63	5	0
20	5	5	2	2	2	1	4	4	1	2	2	5	6	5	4	6	5	2	4	5	3	1	1	1	3.25	6	1
21	3	4	4	3	2	6	6	6	4	3	2	3	3	2	4	5	4	4	4	2	2	3	3	5	3.63	6	2
22	5	4	5	1	2	6	4	4	5	5	4	3	5	5	2	4	6	5	3	2	4	1	1	4	3.75	6	1
23	4	3	1	3	5	8	6	2	2	1	1	3	3	3	4	5	5	6	5	3	4	2	3	4	3.58	8	1
24	2	1	2	2	0	0	3	3	5	4	1	1	1	1	2	1	1	3	4	4	3	3	4	3	2.25	5	0
25	2	1	2	3	4	5	4	--	3	4	4	3	2	1	3	6	1	0	3	5	6	5	5	3	3.26	6	0
26	1	1	0	2	2	2	1	0	0	2	3	1	-1	1	2	0	1	2	2	1	1	2	2	3	1.29	3	-1
27	3	3	3	2	3	3	4	3	1	1	--	-2	0	1	2	3	3	7	8	4	5	3	0	2	2.7	8	-2
28	4	4	2	2	2	1	4	5	6	--	--	--	--	7	6	3	4	5	5	5	3	2	-1	-1	3.4	7	-1
29	2	3	3	4	4	5	5	6	4	3	5	--	--	5	3	5	6	6	7	6	5	5	6	6	4.73	7	2
30	4	1	2	6	6	--	3	3	4	4	5	6	6	5	5	3	5	7	4	3	4	6	7	4	4.48	7	1
31	4	3	3	4	6	7	7	6	2	3	6	8	7	5	5	8	7	6	6	4	3	4	4	4	5.08	8	2
Avg	2.39	2.48	2.65	2.65	2.84	3.1	3.42	3.24	2.87	3.03	2.82	2.72	2.79	2.58	2.97	3.24	2.86	3.14	3.45	3.1	3.29	3.13	2.81	2.65	2.91	--	--
Max	5	6	9	10	8	8	8	6	6	6	6	8	7	7	6	8	7	8	8	6	6	7	7	6	--	10	--
Min	-1	-2	-1	-2	-2	-1	-2	-1	-4	-1	0	-2	-1	-4	0	-1	0	0	0	0	-1	0	-1	-1	--	--	-4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: Table126, conc_PM25"
Month: Sep 2017

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	6	8	6	7	7	7	10	11	10	11	11	9	8	7	6	6	6	6	6	8	8	8	8	7.71	11	5
2	7	7	8	5	5	9	10	7	6	9	6	5	6	5	5	7	8	7	4	4	6	8	7	5	6.5	10	4
3	4	5	6	9	7	4	3	2	5	8	8	6	6	5	6	6	7	9	7	5	6	6	5	4	5.79	9	2
4	4	2	2	1	3	6	6	6	7	6	4	6	6	3	4	6	7	7	6	6	5	5	7	9	5.17	9	1
5	8	8	7	7	7	6	5	6	4	5	7	9	11	10	8	9	11	8	7	9	9	8	9	10	7.83	11	4
6	6	7	8	7	7	7	8	10	12	11	11	11	11	9	6	9	12	12	12	12	11	12	17	15	10.1	17	6
7	12	9	7	10	11	10	11	10	10	12	10	9	9	12	15	14	16	14	12	12	18	9	8	8	11.2	18	7
8	11	13	13	13	16	17	15	17	12	13	13	31	29	19	17	17	15	13	12	8	4	6	9	10	14.3	31	4
9	7	5	4	4	6	5	6	6	5	7	6	5	6	7	9	9	9	9	9	8	7	7	9	10	6.87	10	4
10	7	9	9	7	6	3	3	--	--	5	5	5	6	5	3	3	5	6	7	9	8	8	8	10	6.23	10	3
11	7	6	9	9	9	11	11	8	6	7	8	6	6	6	7	7	7	8	7	8	8	8	9	6	7.67	11	6
12	6	7	5	6	6	3	3	3	4	5	6	5	6	6	6	7	6	5	5	6	9	9	5	6	5.62	9	3
13	6	3	2	6	8	8	7	6	4	5	3	2	4	6	6	3	2	4	6	9	10	25	14	13	6.75	25	2
14	11	6	3	3	3	4	6	5	4	4	2	3	6	9	19	17	16	7	17	9	9	6	4	4	7.38	19	2
15	3	4	3	3	5	4	3	4	5	5	4	4	5	3	1	1	3	3	3	3	0	2	4	4	3.29	5	0
16	4	4	4	4	2	2	1	1	2	3	5	4	5	5	3	2	0	1	4	5	4	4	4	4	3.21	5	0
17	6	5	5	5	4	5	5	5	5	4	3	2	2	3	4	2	3	6	5	2	1	4	4	3	3.88	6	1
18	5	6	5	3	4	6	6	8	6	3	3	2	1	1	0	2	3	4	3	2	2	2	1	1	3.29	8	0
19	3	3	2	1	1	2	4	4	2	2	2	2	3	4	6	6	6	7	6	4	2	2	3	3	3.33	7	1
20	3	3	3	3	2	3	5	5	3	3	5	3	2	2	3	5	4	4	4	2	0	1	1	1	2.92	5	0
21	3	1	-1	0	2	1	0	4	6	3	2	1	1	2	1	2	4	6	6	4	2	3	3	2	2.42	6	-1
22	0	0	1	1	1	2	2	2	1	-1	1	3	2	1	1	3	4	3	1	3	7	7	5	5	2.29	7	-1
23	5	6	4	3	2	2	4	4	3	4	2	0	-1	1	3	1	1	3	3	1	2	4	5	6	2.83	6	-1
24	5	4	4	5	5	4	4	7	7	4	4	3	1	2	2	3	4	5	4	2	4	3	1	0	3.63	7	0
25	1	3	5	5	3	4	4	2	1	2	3	1	3	4	3	3	1	3	5	3	1	1	3	6	2.92	6	1
26	6	4	2	3	4	4	2	2	4	5	7	9	7	5	3	3	3	4	5	5	3	6	6	3	4.38	9	2
27	3	3	3	5	2	1	2	2	2	4	4	2	3	2	1	1	2	2	2	3	3	3	4	3	2.58	5	1
28	2	1	3	3	1	4	6	4	4	5	5	--	3	3	4	3	3	4	6	9	7	5	6	3	4.09	9	1
29	3	4	3	3	3	4	3	4	6	5	3	2	-1	-1	3	4	4	5	3	3	5	10	11	5	3.92	11	-1
30	3	4	3	5	7	5	3	2	2	2	1	2	2	1	0	-1	0	2	2	2	3	4	3	4	2.54	7	-1
Avg	5.2	4.93	4.67	4.83	4.97	5.1	5.17	5.38	5.14	5.33	5.13	5.31	5.3	4.93	5.2	5.33	5.73	5.9	5.97	5.47	5.47	6.2	6.1	5.7	5.35	--	--
Max	12	13	13	13	16	17	15	17	12	13	13	31	29	19	19	17	16	14	17	12	18	25	17	15	--	31	--
Min	0	0	-1	0	1	1	0	1	1	-1	1	0	-1	-1	0	-1	0	1	1	1	0	1	1	0	--	--	-1

-- Indicates Invalid Data

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10"
Month: Jul 2017

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	11.0	9.0	6.0	7.0	10.0	11.0	20.0	14.0	12.0	12.0	13.0	10.0	8.0	6.0	22.0	29.0	27.0	17.0	10.0	17.0	19.0	27.0	26.0	25.0	15.3	29.0	6.0
2	25.0	29.0	12.0	11.0	22.0	23.0	104.0	12.0	10.0	16.0	13.0	10.0	18.0	32.0	14.0	22.0	24.0	21.0	24.0	22.0	17.0	15.0	16.0	20.0	22.2	104.0	10.0
3	25.0	31.0	23.0	51.0	49.0	33.0	32.0	23.0	19.0	35.0	60.0	32.0	42.0	70.0	63.0	80.0	98.0	38.0	35.0	27.0	30.0	27.0	24.0	34.0	40.9	98.0	19.0
4	16.0	24.0	18.0	18.0	18.0	22.0	43.0	26.0	27.0	29.0	52.0	32.0	19.0	54.0	98.0	44.0	35.0	29.0	20.0	23.0	60.0	60.0	20.0	14.0	33.4	98.0	14.0
5	19.0	17.0	19.0	18.0	22.0	38.0	69.0	22.0	27.0	31.0	40.0	54.0	34.0	54.0	64.0	56.0	56.0	--	21.0	20.0	21.0	21.0	20.0	37.0	33.9	69.0	17.0
6	17.0	19.0	17.0	23.0	26.0	32.0	78.0	35.0	29.0	20.0	27.0	23.0	31.0	23.0	47.0	34.0	29.0	16.0	24.0	26.0	28.0	21.0	22.0	36.0	28.5	78.0	16.0
7	22.0	22.0	15.0	15.0	25.0	25.0	32.0	87.0	56.0	23.0	20.0	20.0	20.0	20.0	--	--	--	--	--	--	--	--	--	--	--	87.0	15.0
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	66.0	57.0	--	12.0	23.0	--	--	--	--	--	--	--	66.0	12.0
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	28.0	--	31.0	23.0	20.0	47.0	22.0	25.0	21.0	16.0	20.0	20.0	--	47.0	16.0
13	14.0	11.0	17.0	15.0	16.0	15.0	26.0	19.0	20.0	27.0	27.0	27.0	18.0	83.0	38.0	34.0	47.0	30.0	18.0	20.0	24.0	17.0	13.0	12.0	24.5	83.0	11.0
14	9.0	8.0	6.0	7.0	8.0	7.0	10.0	12.0	12.0	10.0	24.0	21.0	68.0	32.0	38.0	45.0	82.0	24.0	18.0	17.0	9.0	17.0	10.0	11.0	21.0	82.0	6.0
15	10.0	8.0	8.0	10.0	17.0	13.0	12.0	11.0	12.0	13.0	10.0	20.0	14.0	13.0	12.0	22.0	54.0	12.0	13.0	12.0	11.0	12.0	76.0	15.0	17.1	76.0	8.0
16	27.0	17.0	27.0	27.0	23.0	25.0	19.0	11.0	16.0	16.0	10.0	9.0	9.0	8.0	9.0	16.0	7.0	22.0	14.0	13.0	11.0	12.0	9.0	7.0	15.2	27.0	7.0
17	7.0	6.0	7.0	6.0	2.0	4.0	8.0	8.0	4.0	4.0	7.0	10.0	11.0	34.0	13.0	18.0	9.0	7.0	7.0	8.0	7.0	5.0	4.0	5.0	8.4	34.0	2.0
18	4.0	4.0	6.0	3.0	2.0	4.0	7.0	9.0	8.0	5.0	6.0	9.0	27.0	26.0	16.0	6.0	4.0	4.0	4.0	5.0	8.0	9.0	7.0	6.0	7.9	27.0	2.0
19	6.0	6.0	5.0	7.0	9.0	9.0	17.0	8.0	9.0	11.0	23.0	10.0	20.0	38.0	34.0	8.0	8.0	10.0	32.0	27.0	23.0	25.0	27.0	22.0	16.4	38.0	5.0
20	7.0	7.0	5.0	4.0	5.0	5.0	27.0	17.0	18.0	16.0	16.0	20.0	15.0	25.0	30.0	46.0	10.0	8.0	7.0	53.0	11.0	10.0	7.0	7.0	15.7	53.0	4.0
21	7.0	6.0	6.0	7.0	10.0	11.0	12.0	8.0	9.0	9.0	5.0	5.0	7.0	9.0	9.0	13.0	14.0	14.0	7.0	2.0	7.0	9.0	7.0	8.0	8.4	14.0	2.0
22	11.0	11.0	8.0	8.0	11.0	10.0	11.0	13.0	10.0	6.0	8.0	10.0	11.0	13.0	12.0	36.0	8.0	5.0	4.0	10.0	10.0	6.0	5.0	7.0	10.2	36.0	4.0
23	8.0	6.0	8.0	10.0	12.0	11.0	8.0	10.0	11.0	10.0	17.0	22.0	10.0	9.0	12.0	14.0	11.0	10.0	8.0	5.0	7.0	8.0	7.0	6.0	10.0	22.0	5.0
24	6.0	5.0	4.0	4.0	6.0	7.0	16.0	12.0	7.0	7.0	6.0	1.0	2.0	2.0	3.0	4.0	3.0	3.0	4.0	8.0	9.0	8.0	7.0	7.0	5.9	16.0	1.0
25	6.0	4.0	5.0	6.0	4.0	5.0	8.0	8.0	7.0	7.0	8.0	15.0	8.0	24.0	15.0	19.0	10.0	11.0	17.0	12.0	16.0	13.0	13.0	13.0	10.6	24.0	4.0
26	12.0	11.0	10.0	7.0	9.0	13.0	21.0	15.0	13.0	22.0	22.0	26.0	30.0	31.0	25.0	13.0	12.0	15.0	8.0	8.0	9.0	19.0	13.0	13.0	15.7	31.0	7.0
27	13.0	12.0	11.0	9.0	10.0	39.0	76.0	26.0	15.0	17.0	19.0	17.0	14.0	32.0	14.0	12.0	19.0	30.0	26.0	10.0	7.0	6.0	7.0	7.0	18.7	76.0	6.0
28	7.0	6.0	4.0	5.0	4.0	4.0	--	5.0	5.0	5.0	6.0	7.0	8.0	11.0	13.0	21.0	12.0	13.0	12.0	9.0	9.0	37.0	22.0	14.0	10.4	37.0	4.0
29	15.0	13.0	9.0	7.0	10.0	11.0	10.0	--	--	--	--	--	--	--	5.0	5.0	6.0	7.0	7.0	10.0	11.0	7.0	7.0	9.0	--	15.0	5.0
30	16.0	14.0	18.0	11.0	21.0	44.0	28.0	23.0	15.0	40.0	34.0	44.0	25.0	24.0	23.0	9.0	11.0	13.0	11.0	12.0	17.0	11.0	13.0	11.0	20.3	44.0	9.0
31	7.0	8.0	8.0	5.0	5.0	5.0	4.0	6.0	8.0	6.0	7.0	23.0	16.0	24.0	8.0	9.0	9.0	7.0	6.0	6.0	7.0	9.0	9.0	7.0	8.7	24.0	4.0
Avg	12.6	12.1	10.8	11.6	13.7	16.4	27.9	17.6	15.2	15.9	19.2	19.1	19.7	29.3	26.9	24.5	23.6	16.8	14.6	15.7	15.7	16.4	15.8	14.3	17.5	--	--
Max	27.0	31.0	27.0	51.0	49.0	44.0	104.0	87.0	56.0	40.0	60.0	54.0	68.0	83.0	98.0	80.0	98.0	47.0	35.0	53.0	60.0	60.0	76.0	37.0	--	104.0	--
Min	4.0	4.0	4.0	3.0	2.0	4.0	4.0	5.0	4.0	4.0	5.0	1.0	2.0	2.0	3.0	4.0	3.0	3.0	4.0	2.0	7.0	5.0	4.0	5.0	--	--	1.0

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10"
Month: Aug 2017

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	3.0	5.0	5.0	3.0	3.0	5.0	--	6.0	9.0	9.0	21.0	6.0	9.0	8.0	7.0	8.0	11.0	11.0	8.0	7.0	8.0	7.0	7.5	21.0	3.0
2	4.0	3.0	6.0	5.0	1.0	3.0	2.0	1.0	4.0	3.0	5.0	7.0	4.0	4.0	4.0	6.0	6.0	5.0	5.0	5.0	7.0	11.0	9.0	6.0	4.8	11.0	1.0
3	6.0	6.0	6.0	7.0	5.0	4.0	8.0	16.0	19.0	10.0	17.0	14.0	9.0	6.0	8.0	8.0	19.0	6.0	4.0	18.0	15.0	14.0	13.0	10.0	10.3	19.0	4.0
4	10.0	13.0	17.0	9.0	10.0	20.0	32.0	17.0	8.0	8.0	12.0	24.0	19.0	18.0	17.0	6.0	7.0	8.0	7.0	6.0	4.0	6.0	8.0	7.0	12.2	32.0	4.0
5	53.0	116.0	60.0	52.0	45.0	32.0	13.0	22.0	39.0	40.0	27.0	11.0	10.0	9.0	8.0	22.0	3.0	5.0	8.0	11.0	14.0	13.0	12.0	10.0	26.5	116.0	3.0
6	10.0	11.0	10.0	10.0	10.0	28.0	15.0	9.0	10.0	10.0	9.0	7.0	6.0	6.0	6.0	6.0	6.0	8.0	22.0	11.0	9.0	7.0	7.0	7.0	10.0	28.0	6.0
7	7.0	8.0	6.0	6.0	6.0	18.0	51.0	12.0	19.0	15.0	14.0	16.0	23.0	32.0	45.0	43.0	14.0	8.0	5.0	11.0	13.0	10.0	8.0	6.0	16.5	51.0	5.0
8	5.0	8.0	11.0	11.0	12.0	21.0	67.0	43.0	20.0	17.0	20.0	25.0	10.0	9.0	21.0	35.0	14.0	13.0	13.0	12.0	19.0	17.0	10.0	9.0	18.4	67.0	5.0
9	11.0	9.0	6.0	8.0	7.0	10.0	16.0	17.0	32.0	25.0	16.0	30.0	11.0	10.0	11.0	9.0	5.0	9.0	27.0	7.0	20.0	12.0	11.0	11.0	13.8	32.0	5.0
10	13.0	9.0	9.0	13.0	13.0	13.0	17.0	12.0	16.0	17.0	21.0	10.0	12.0	13.0	11.0	11.0	10.0	7.0	8.0	9.0	58.0	8.0	5.0	2.0	13.2	58.0	2.0
11	2.0	2.0	2.0	2.0	6.0	12.0	12.0	10.0	10.0	8.0	7.0	9.0	11.0	10.0	9.0	5.0	5.0	6.0	9.0	13.0	11.0	9.0	9.0	11.0	7.9	13.0	2.0
12	11.0	9.0	9.0	11.0	10.0	8.0	8.0	11.0	13.0	11.0	8.0	6.0	7.0	9.0	6.0	5.0	7.0	23.0	6.0	6.0	8.0	8.0	4.0	6.0	8.8	23.0	4.0
13	8.0	5.0	4.0	7.0	7.0	3.0	3.0	3.0	2.0	2.0	1.0	-2.0	-2.0	0.0	2.0	5.0	6.0	5.0	6.0	7.0	10.0	12.0	9.0	5.0	4.5	12.0	-2.0
14	7.0	8.0	9.0	9.0	6.0	10.0	27.0	12.0	10.0	21.0	17.0	15.0	16.0	14.0	13.0	30.0	11.0	63.0	11.0	7.0	15.0	11.0	11.0	10.0	15.1	63.0	6.0
15	7.0	9.0	8.0	6.0	7.0	26.0	17.0	16.0	9.0	16.0	43.0	7.0	18.0	23.0	22.0	79.0	90.0	22.0	17.0	6.0	9.0	21.0	4.0	8.0	20.4	90.0	4.0
16	32.0	12.0	9.0	8.0	8.0	10.0	11.0	11.0	9.0	7.0	7.0	6.0	7.0	48.0	--	13.0	12.0	11.0	11.0	18.0	10.0	23.0	16.0	8.0	13.3	48.0	6.0
17	9.0	9.0	5.0	21.0	20.0	10.0	48.0	21.0	7.0	8.0	11.0	11.0	6.0	6.0	7.0	3.0	6.0	51.0	10.0	91.0	27.0	0.0	7.0	12.0	16.9	91.0	0.0
18	10.0	6.0	2.0	4.0	6.0	6.0	26.0	80.0	12.0	10.0	6.0	19.0	27.0	69.0	9.0	9.0	7.0	4.0	4.0	9.0	13.0	21.0	15.0	17.0	16.3	80.0	2.0
19	12.0	12.0	10.0	8.0	54.0	19.0	38.0	8.0	18.0	14.0	13.0	8.0	4.0	17.0	4.0	4.0	7.0	11.0	17.0	20.0	42.0	7.0	7.0	8.0	15.1	54.0	4.0
20	18.0	19.0	24.0	20.0	19.0	18.0	15.0	51.0	15.0	10.0	11.0	12.0	7.0	5.0	30.0	6.0	6.0	7.0	8.0	17.0	7.0	6.0	5.0	5.0	14.2	51.0	5.0
21	5.0	8.0	10.0	9.0	7.0	7.0	9.0	8.0	6.0	5.0	8.0	10.0	10.0	34.0	7.0	6.0	18.0	18.0	15.0	17.0	16.0	44.0	42.0	12.0	13.8	44.0	5.0
22	12.0	11.0	11.0	11.0	10.0	31.0	36.0	16.0	18.0	11.0	11.0	12.0	16.0	29.0	48.0	33.0	11.0	11.0	9.0	8.0	11.0	11.0	17.0	9.0	16.8	48.0	8.0
23	9.0	8.0	6.0	7.0	11.0	34.0	23.0	29.0	11.0	9.0	9.0	12.0	16.0	7.0	40.0	12.0	12.0	69.0	25.0	9.0	8.0	28.0	22.0	17.0	18.0	69.0	6.0
24	2.0	2.0	2.0	7.0	6.0	1.0	3.0	6.0	6.0	5.0	6.0	4.0	1.0	7.0	7.0	5.0	6.0	6.0	8.0	12.0	13.0	12.0	8.0	2.0	5.7	13.0	1.0
25	2.0	5.0	5.0	5.0	5.0	7.0	18.0	5.0	5.0	5.0	7.0	11.0	19.0	33.0	5.0	6.0	9.0	28.0	10.0	21.0	8.0	8.0	8.0	9.0	10.2	33.0	2.0
26	10.0	9.0	7.0	5.0	6.0	7.0	9.0	10.0	6.0	3.0	3.0	2.0	2.0	7.0	21.0	48.0	13.0	10.0	6.0	4.0	4.0	5.0	3.0	3.0	8.5	48.0	2.0
27	5.0	6.0	5.0	0.0	-1.0	4.0	5.0	2.0	2.0	5.0	5.0	2.0	4.0	5.0	7.0	6.0	3.0	66.0	11.0	12.0	8.0	4.0	5.0	6.0	7.4	66.0	-1.0
28	6.0	5.0	3.0	3.0	7.0	11.0	13.0	19.0	17.0	9.0	7.0	6.0	9.0	9.0	22.0	7.0	8.0	11.0	11.0	8.0	1.0	1.0	4.0	4.0	8.4	22.0	1.0
29	7.0	6.0	5.0	6.0	8.0	9.0	20.0	9.0	17.0	13.0	11.0	8.0	17.0	14.0	--	10.0	18.0	10.0	10.0	8.0	3.0	2.0	7.0	9.0	9.9	20.0	2.0
30	8.0	6.0	7.0	8.0	6.0	8.0	26.0	35.0	10.0	9.0	10.0	15.0	10.0	11.0	10.0	19.0	5.0	6.0	9.0	8.0	6.0	8.0	7.0	8.0	10.6	35.0	5.0
31	10.0	10.0	7.0	7.0	15.0	10.0	12.0	14.0	12.0	16.0	12.0	11.0	9.0	8.0	10.0	10.0	7.0	9.0	11.0	15.0	12.0	11.0	11.0	12.0	10.9	16.0	7.0
Avg	10.3	11.5	9.2	9.4	10.9	13.0	19.5	17.1	12.7	11.2	11.7	10.9	10.9	15.4	14.4	15.3	11.5	16.9	10.8	13.5	13.2	11.5	10.1	8.3	12.4	--	--
Max	53.0	116.0	60.0	52.0	54.0	34.0	67.0	80.0	39.0	40.0	43.0	30.0	27.0	69.0	48.0	79.0	90.0	69.0	27.0	91.0	58.0	44.0	42.0	17.0	--	116.0	--
Min	2.0	2.0	2.0	0.0	-1.0	1.0	2.0	1.0	2.0	2.0	1.0	-2.0	-2.0	0.0	2.0	3.0	3.0	4.0	4.0	4.0	1.0	0.0	3.0	2.0	--	--	-2.0

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, conc_PM10"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	19.0	14.0	14.0	15.0	14.0	16.0	20.0	27.0	16.0	17.0	30.0	12.0	27.0	13.0	15.0	15.0	16.0	29.0	15.0	13.0	13.0	15.0	13.0	19.0	17.4	30.0	12.0
2	11.0	17.0	63.0	67.0	64.0	57.0	54.0	57.0	47.0	49.0	31.0	13.0	17.0	16.0	9.0	10.0	13.0	13.0	13.0	33.0	31.0	29.0	23.0	17.0	31.4	67.0	9.0
3	27.0	26.0	43.0	35.0	20.0	23.0	21.0	37.0	20.0	19.0	16.0	9.0	10.0	9.0	11.0	21.0	26.0	21.0	23.0	24.0	28.0	20.0	19.0	22.0	22.1	43.0	9.0
4	22.0	19.0	20.0	23.0	17.0	19.0	34.0	19.0	24.0	21.0	14.0	14.0	19.0	22.0	11.0	13.0	15.0	14.0	17.0	17.0	14.0	17.0	30.0	15.0	18.8	34.0	11.0
5	29.0	10.0	12.0	14.0	14.0	23.0	42.0	46.0	25.0	50.0	18.0	17.0	24.0	24.0	28.0	28.0	22.0	18.0	25.0	14.0	12.0	11.0	18.0	20.0	22.7	50.0	10.0
6	11.0	15.0	14.0	14.0	15.0	20.0	48.0	42.0	31.0	27.0	22.0	20.0	21.0	24.0	16.0	28.0	16.0	22.0	20.0	23.0	23.0	20.0	21.0	17.0	22.1	48.0	11.0
7	19.0	18.0	23.0	25.0	17.0	22.0	97.0	63.0	21.0	25.0	18.0	36.0	18.0	16.0	22.0	34.0	32.0	23.0	31.0	34.0	50.0	42.0	44.0	36.0	31.9	97.0	16.0
8	34.0	44.0	69.0	51.0	45.0	72.0	65.0	66.0	58.0	55.0	78.0	75.0	64.0	77.0	68.0	81.0	51.0	47.0	22.0	19.0	12.0	13.0	13.0	13.0	49.7	81.0	12.0
9	18.0	14.0	14.0	9.0	6.0	9.0	7.0	8.0	11.0	11.0	11.0	10.0	12.0	13.0	11.0	12.0	14.0	12.0	11.0	12.0	11.0	9.0	9.0	11.0	11.0	18.0	6.0
10	10.0	10.0	10.0	9.0	10.0	9.0	9.0	10.0	11.0	10.0	8.0	7.0	5.0	7.0	9.0	8.0	7.0	7.0	11.0	9.0	9.0	14.0	13.0	13.0	9.4	14.0	5.0
11	14.0	14.0	15.0	11.0	13.0	15.0	16.0	18.0	17.0	16.0	14.0	15.0	6.0	8.0	16.0	17.0	6.0	7.0	8.0	10.0	16.0	13.0	14.0	12.0	13.0	18.0	6.0
12	11.0	12.0	12.0	12.0	11.0	17.0	14.0	39.0	18.0	16.0	9.0	11.0	13.0	29.0	13.0	13.0	13.0	48.0	10.0	15.0	20.0	14.0	14.0	62.0	18.6	62.0	9.0
13	13.0	13.0	13.0	12.0	11.0	20.0	26.0	21.0	18.0	11.0	15.0	11.0	26.0	27.0	38.0	17.0	17.0	11.0	21.0	23.0	55.0	346.0	194.0	64.0	42.6	346.0	11.0
14	45.0	42.0	18.0	14.0	10.0	8.0	18.0	16.0	11.0	9.0	6.0	7.0	20.0	141.0	172.0	170.0	139.0	55.0	129.0	64.0	59.0	31.0	19.0	11.0	50.6	172.0	6.0
15	7.0	4.0	4.0	7.0	9.0	10.0	12.0	13.0	12.0	9.0	6.0	4.0	27.0	31.0	25.0	15.0	24.0	31.0	12.0	19.0	17.0	20.0	15.0	18.0	14.6	31.0	4.0
16	13.0	11.0	7.0	9.0	11.0	15.0	16.0	12.0	9.0	7.0	6.0	5.0	7.0	12.0	8.0	5.0	6.0	6.0	8.0	8.0	8.0	9.0	8.0	7.0	8.9	16.0	5.0
17	7.0	12.0	14.0	14.0	14.0	12.0	12.0	12.0	10.0	10.0	10.0	10.0	8.0	8.0	9.0	8.0	7.0	17.0	11.0	32.0	7.0	10.0	10.0	7.0	11.3	32.0	7.0
18	26.0	19.0	9.0	7.0	9.0	16.0	54.0	13.0	17.0	17.0	6.0	5.0	5.0	7.0	12.0	8.0	47.0	10.0	7.0	5.0	9.0	12.0	14.0	14.0	14.5	54.0	5.0
19	10.0	10.0	13.0	9.0	5.0	7.0	30.0	24.0	8.0	18.0	12.0	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	30.0	5.0
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36.0	68.0	17.0	17.0	14.0	45.0	19.0	15.0	14.0	--	68.0	14.0
21	29.0	4.0	6.0	10.0	9.0	21.0	26.0	40.0	12.0	11.0	5.0	3.0	8.0	19.0	54.0	38.0	41.0	32.0	25.0	18.0	25.0	31.0	16.0	16.0	20.8	54.0	3.0
22	12.0	9.0	6.0	4.0	3.0	6.0	29.0	26.0	19.0	19.0	--	6.0	8.0	8.0	7.0	9.0	10.0	19.0	19.0	18.0	25.0	21.0	21.0	20.0	14.1	29.0	3.0
23	16.0	20.0	19.0	17.0	16.0	11.0	20.0	18.0	13.0	9.0	4.0	4.0	8.0	12.0	12.0	11.0	12.0	12.0	17.0	12.0	13.0	11.0	19.0	16.0	13.4	20.0	4.0
24	11.0	13.0	13.0	12.0	11.0	10.0	16.0	14.0	14.0	12.0	10.0	12.0	12.0	7.0	6.0	7.0	9.0	9.0	9.0	21.0	9.0	8.0	28.0	30.0	12.6	30.0	6.0
25	7.0	16.0	24.0	6.0	5.0	9.0	31.0	131.0	17.0	34.0	9.0	34.0	19.0	22.0	16.0	23.0	30.0	10.0	25.0	22.0	24.0	14.0	22.0	38.0	24.5	131.0	5.0
26	48.0	11.0	11.0	11.0	11.0	12.0	17.0	10.0	16.0	17.0	10.0	18.0	13.0	50.0	63.0	14.0	59.0	15.0	33.0	13.0	15.0	14.0	13.0	12.0	21.1	63.0	10.0
27	53.0	12.0	10.0	8.0	9.0	10.0	185.0	71.0	52.0	27.0	28.0	16.0	12.0	12.0	17.0	15.0	15.0	17.0	12.0	20.0	14.0	14.0	14.0	14.0	27.4	185.0	8.0
28	18.0	10.0	11.0	11.0	9.0	10.0	30.0	52.0	32.0	14.0	13.0	7.0	3.0	6.0	--	20.0	20.0	10.0	11.0	18.0	16.0	15.0	13.0	12.0	15.7	52.0	3.0
29	11.0	9.0	9.0	10.0	9.0	7.0	11.0	12.0	15.0	11.0	9.0	6.0	3.0	6.0	11.0	10.0	12.0	13.0	13.0	15.0	9.0	17.0	17.0	12.0	10.7	17.0	3.0
30	11.0	9.0	7.0	8.0	9.0	9.0	10.0	12.0	12.0	8.0	7.0	8.0	8.0	21.0	25.0	51.0	13.0	29.0	27.0	30.0	12.0	36.0	11.0	9.0	15.9	51.0	7.0
Avg	19.4	15.1	17.3	15.7	14.0	17.1	33.4	32.0	20.2	19.3	15.2	14.0	15.1	23.1	26.1	25.4	26.2	19.8	20.8	19.8	20.7	29.1	23.4	19.7	21.0	--	--
Max	53.0	44.0	69.0	67.0	64.0	72.0	185.0	131.0	58.0	55.0	78.0	75.0	64.0	141.0	172.0	170.0	139.0	55.0	129.0	64.0	59.0	346.0	194.0	64.0	--	346.0	--
Min	7.0	4.0	4.0	4.0	3.0	6.0	7.0	8.0	8.0	7.0	4.0	3.0	3.0	6.0	6.0	5.0	6.0	6.0	7.0	5.0	7.0	8.0	8.0	7.0	--	--	3.0

[1]-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, West_Plant_conc_PM10_STP"
Month: Jul 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	19.3	21.5	19.2	26.0	29.2	35.9	87.4	39.3	32.7	22.6	30.8	26.4	35.8	26.6	54.6	39.6	33.8	18.6	27.8	30.1	32.3	24.1	25.1	41.1	32.5	87.4	18.6
7	25.2	25.1	17.1	17.0	28.4	28.4	36.4	99.4	64.2	26.5	23.2	23.3	23.4	23.5	--	--	--	--	--	--	--	--	--	--	--	99.4	17.0
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	32.2	--	35.8	26.6	23.2	54.0	25.2	28.7	24.0	18.2	22.7	22.5	--	54.0	18.2
13	15.7	12.3	19.0	16.7	17.8	16.7	29.0	21.3	22.5	30.5	30.7	30.8	20.7	95.4	43.8	39.3	54.5	34.3	20.6	22.9	27.4	19.3	14.6	13.4	27.9	95.4	12.3
14	10.0	8.9	6.7	7.8	8.9	7.8	11.1	13.4	13.6	11.3	27.3	24.1	78.1	36.9	43.8	52.0	94.2	26.7	20.0	18.9	10.1	19.1	11.3	12.4	23.9	94.2	6.7
15	11.2	9.0	8.9	11.1	18.8	14.4	13.4	12.3	13.5	14.8	11.4	22.9	16.1	15.0	13.9	25.4	60.6	13.3	14.5	13.4	12.3	13.4	84.6	16.6	19.2	84.6	8.9
16	30.0	18.9	29.9	29.9	25.4	27.6	21.1	12.3	17.9	18.0	11.3	10.2	10.2	9.2	10.3	18.4	8.1	25.1	15.6	14.5	12.3	13.4	10.0	7.8	17.0	30.0	7.8
17	7.7	6.6	7.7	6.6	2.2	4.4	8.8	8.8	4.4	4.4	7.8	11.3	12.4	38.6	14.8	20.6	10.3	8.0	7.9	9.0	7.9	5.6	4.5	5.5	9.4	38.6	2.2
18	4.4	4.4	6.6	3.3	2.2	4.4	7.7	10.0	8.9	5.6	6.7	10.1	30.5	29.5	18.1	6.7	4.4	4.5	4.5	5.6	8.9	10.0	7.8	6.7	8.8	30.5	2.2
19	6.7	6.7	5.6	7.8	10.0	10.0	18.9	8.9	10.1	12.3	25.9	11.3	22.7	43.3	38.8	9.1	9.1	11.3	36.0	30.3	25.7	27.9	30.1	24.4	18.4	43.3	5.6
20	7.8	7.8	5.6	4.4	5.5	5.5	29.9	18.9	20.0	17.8	17.9	22.5	17.0	28.4	34.3	52.7	11.5	9.2	8.0	59.3	12.1	11.1	7.7	7.7	17.6	59.3	4.4
21	7.8	6.7	6.7	7.7	11.0	12.1	13.2	8.9	10.0	10.1	5.6	5.6	7.9	10.2	10.3	14.8	15.8	15.4	7.7	2.2	7.8	10.0	7.8	8.9	9.3	15.8	2.2
22	12.2	12.2	8.9	8.9	12.2	11.1	12.2	14.5	11.2	6.7	9.0	11.3	12.5	14.8	13.7	40.9	8.8	5.6	4.5	11.2	11.1	6.7	5.6	7.8	11.4	40.9	4.5
23	8.9	6.7	8.9	11.1	13.3	12.2	8.8	11.1	12.3	11.2	19.1	24.7	11.3	10.2	13.7	16.0	12.6	11.1	8.9	5.5	7.7	8.8	7.7	6.6	11.2	24.7	5.5
24	6.6	5.5	4.4	4.4	6.6	7.7	17.7	13.3	7.7	7.7	6.6	1.1	2.2	2.2	3.4	4.5	3.3	3.3	4.5	8.9	10.0	8.9	7.8	7.8	6.5	17.7	1.1
25	6.7	4.4	5.6	6.7	4.4	5.5	8.9	8.9	7.8	7.9	9.0	16.9	9.0	27.1	17.0	21.6	11.4	12.5	19.3	13.6	18.0	14.6	14.5	14.5	11.9	27.1	4.4
26	13.4	12.2	11.1	7.8	10.0	14.4	23.3	16.7	14.6	24.8	24.9	29.5	34.2	35.5	28.7	14.9	13.8	17.2	9.2	9.1	10.2	21.5	14.7	14.7	17.8	35.5	7.8
27	14.7	13.5	12.3	10.1	11.2	43.6	84.9	29.2	16.9	19.3	21.6	19.4	16.1	36.8	16.1	13.8	21.9	34.4	29.4	11.3	7.9	6.7	7.7	7.8	21.1	84.9	6.7
28	7.8	6.7	4.4	5.5	4.4	4.4	--	5.5	5.5	5.6	6.7	7.9	9.0	12.5	14.8	23.9	13.7	14.8	13.6	10.2	10.1	41.5	24.6	15.6	11.7	41.5	4.4
29	16.7	14.4	10.0	7.8	11.1	12.2	11.1	--	--	--	--	--	--	--	5.7	5.7	6.8	8.0	7.9	11.2	12.3	7.8	7.8	10.0	--	16.7	5.7
30	17.7	15.5	19.9	12.2	23.2	48.5	30.8	25.3	16.5	44.2	37.8	49.2	28.1	27.1	26.1	10.1	12.4	14.7	12.4	13.5	19.1	12.3	14.5	12.3	22.6	49.2	10.1
31	7.8	8.9	8.9	5.6	5.6	5.6	4.4	6.7	9.0	6.8	7.9	26.2	18.3	27.5	9.2	10.4	10.4	8.1	6.9	6.8	8.0	10.2	10.1	7.9	9.9	27.5	4.4
Avg	12.3	10.8	10.8	10.4	12.5	15.8	24.0	19.2	16.0	15.4	17.1	19.2	21.3	27.5	22.2	22.2	21.0	16.7	14.5	16.0	14.1	14.8	16.2	13.0	16.2	--	--
Max	30.0	25.1	29.9	29.9	29.2	48.5	87.4	99.4	64.2	44.2	37.8	49.2	78.1	95.4	54.6	52.7	94.2	54.0	36.0	59.3	32.3	41.5	84.6	41.1	--	99.4	--
Min	4.4	4.4	4.4	3.3	2.2	4.4	4.4	5.5	4.4	4.4	5.6	1.1	2.2	2.2	3.4	4.5	3.3	3.3	4.5	2.2	7.7	5.6	4.5	5.5	--	--	1.1

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, West_Plant_conc_PM10_STP"
Month: Aug 2017

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	7.8	6.7	3.4	5.6	5.6	3.4	3.3	5.5	--	6.6	10.0	10.1	23.7	6.8	10.2	9.0	7.9	8.9	12.2	12.3	8.9	7.8	8.9	7.8	8.4	23.7	3.3
2	4.5	3.4	6.7	5.6	1.1	3.3	2.2	1.1	4.4	3.3	5.6	7.9	4.5	4.5	4.5	6.8	6.8	5.6	5.6	5.6	7.8	12.2	10.0	6.7	5.4	12.2	1.1
3	6.7	6.7	6.7	7.8	5.5	4.4	8.9	17.8	21.1	11.2	19.1	15.8	10.2	6.9	9.2	9.1	21.7	6.8	4.5	20.0	16.7	15.6	14.4	11.1	11.6	21.7	4.4
4	11.1	14.4	18.8	10.0	11.0	22.0	35.3	18.9	9.0	9.0	13.5	27.2	21.6	20.5	19.4	6.9	8.0	9.2	8.0	6.8	4.5	6.8	9.0	7.8	13.7	35.3	4.5
5	59.1	129.0	67.2	58.1	50.2	35.6	14.4	24.6	43.9	45.1	30.5	12.5	11.4	10.3	9.2	25.3	3.4	5.7	9.2	12.5	15.9	14.7	13.5	11.2	29.7	129.0	3.4
6	11.2	12.3	11.2	11.1	11.1	31.1	16.6	10.0	11.2	11.3	10.2	8.0	6.8	6.9	6.9	6.9	6.9	9.2	25.1	12.5	10.2	7.9	7.9	7.9	11.3	31.1	6.8
7	7.9	9.0	6.7	6.7	6.7	20.1	56.8	13.4	21.4	17.0	15.9	18.2	26.3	36.7	51.7	49.5	16.1	9.2	5.7	12.5	14.7	11.3	9.0	6.8	18.7	56.8	5.7
8	5.6	9.0	12.3	12.3	13.4	23.4	74.4	48.1	22.6	19.3	22.9	28.7	11.5	10.4	24.3	40.5	16.2	15.0	15.0	13.7	21.6	19.3	11.3	10.2	20.9	74.4	5.6
9	12.4	10.1	6.8	9.0	7.9	11.2	18.0	19.2	36.4	28.6	18.4	34.6	12.7	11.6	12.8	10.5	5.8	10.4	31.2	8.0	22.8	13.7	12.5	12.5	15.7	36.4	5.8
10	14.7	10.2	10.2	14.6	14.7	14.6	19.1	13.5	18.0	19.1	23.8	11.4	13.7	15.0	12.7	12.7	11.6	8.1	9.2	10.3	65.0	8.9	5.6	2.2	15.0	65.0	2.2
11	2.2	2.2	2.2	2.2	6.7	13.4	13.5	11.3	11.3	9.1	8.0	10.3	12.7	11.6	10.5	5.8	5.8	7.0	10.4	14.9	12.6	10.3	10.2	12.5	9.0	14.9	2.2
12	12.5	10.2	10.2	12.4	11.2	9.0	9.0	12.4	14.6	12.2	8.9	6.7	7.9	10.2	6.9	5.7	8.0	26.4	6.9	6.8	9.1	9.0	4.5	6.7	9.9	26.4	4.5
13	8.8	5.5	4.4	7.7	7.7	3.3	3.3	3.3	2.2	2.2	1.1	-2.3	-2.3	0.0	2.3	5.7	6.8	5.7	6.8	7.9	11.3	13.5	10.1	5.6	5.0	13.5	-2.3
14	7.8	9.0	10.1	10.1	6.7	11.1	30.0	13.4	11.2	23.6	19.2	17.0	18.2	16.0	14.9	34.4	12.6	72.3	12.6	8.0	17.0	12.4	12.4	11.3	17.1	72.3	6.7
15	7.9	10.1	9.0	6.7	7.8	29.0	18.9	17.9	10.1	18.1	48.7	8.0	20.6	26.4	25.2	90.8	103.0	25.2	19.4	6.8	10.2	23.7	4.5	9.0	23.2	103.0	4.5
16	35.7	13.4	10.0	8.9	8.9	11.1	12.2	12.3	10.1	7.9	7.9	6.8	8.0	--	--	14.9	13.7	12.6	12.5	20.4	11.3	25.8	17.9	9.0	13.2	35.7	6.8
17	10.1	10.0	5.6	23.3	22.1	11.0	52.9	23.4	7.9	9.0	12.5	12.5	6.9	6.9	8.0	3.4	6.9	58.4	11.4	103.0	30.3	0.0	7.8	13.5	19.0	103.0	0.0
18	11.2	6.7	2.2	4.5	6.7	6.7	28.7	89.3	13.5	11.3	6.8	21.7	30.9	79.3	10.4	10.4	8.1	4.6	4.6	10.2	14.7	23.7	16.9	19.1	18.4	89.3	2.2
19	13.4	13.4	11.2	9.0	60.2	21.1	42.3	9.0	20.3	15.8	14.7	9.1	4.6	19.5	4.6	4.6	8.0	12.6	19.5	22.8	47.6	7.9	7.9	9.0	17.0	60.2	4.6
20	20.2	21.3	26.9	22.4	21.3	20.1	16.7	57.0	16.8	11.3	12.4	13.6	8.0	5.7	34.3	6.9	6.9	8.0	9.1	19.1	7.9	6.7	5.6	5.6	16.0	57.0	5.6
21	5.6	8.9	11.2	10.0	7.8	7.8	10.0	8.9	6.7	5.7	9.0	11.3	11.4	38.8	8.0	6.9	20.6	20.6	17.1	19.3	18.1	49.5	47.2	13.4	15.6	49.5	5.6
22	13.4	12.3	12.3	12.3	11.1	34.5	40.0	17.9	20.3	12.5	12.5	13.7	18.4	33.4	55.5	38.2	12.7	12.7	10.4	9.2	12.5	12.5	19.2	10.2	19.1	55.5	9.2
23	10.2	9.0	6.7	7.9	12.3	37.9	25.6	32.4	12.4	10.2	10.2	13.7	18.3	8.1	46.1	13.8	13.8	78.7	28.2	10.1	9.0	31.3	24.4	18.9	20.4	78.7	6.7
24	2.2	2.2	2.2	7.8	6.7	1.1	3.3	6.7	6.7	5.6	6.8	4.6	1.1	8.0	8.1	5.8	6.9	6.9	9.2	13.7	14.8	13.6	9.1	2.3	6.5	14.8	1.1
25	2.3	5.6	5.6	5.6	5.6	7.9	20.1	5.6	5.7	5.7	8.0	12.7	21.9	38.2	5.8	7.0	10.5	32.5	11.5	24.1	9.1	9.1	9.1	10.2	11.6	38.2	2.3
26	11.4	10.2	7.9	5.7	6.8	7.9	10.1	11.3	6.8	3.4	3.4	2.3	2.3	8.1	24.4	54.2	14.7	11.3	6.8	4.5	4.5	5.7	3.4	3.4	9.6	54.2	2.3
27	5.6	6.7	5.6	0.0	-1.1	4.5	5.6	2.2	2.3	5.6	5.7	2.3	4.6	5.8	8.1	7.0	3.5	75.4	12.6	13.7	9.1	4.5	5.7	6.8	8.4	75.4	-1.1
28	6.8	5.7	3.4	3.4	7.9	12.4	14.6	21.4	19.2	10.2	8.0	6.9	10.4	10.4	25.5	8.2	9.3	12.7	12.6	9.1	1.1	1.1	4.5	4.5	9.6	25.5	1.1
29	7.9	6.8	5.6	6.8	9.0	10.1	22.4	10.1	19.2	14.7	12.5	9.2	19.6	16.2	--	11.6	20.9	11.6	11.5	9.2	3.4	2.3	8.0	10.2	11.3	22.4	2.3
30	9.1	6.8	7.9	9.0	6.8	9.0	29.1	39.3	11.3	10.2	11.4	17.2	11.5	12.7	11.6	22.0	5.8	6.9	10.4	9.2	6.9	9.1	8.0	9.1	12.1	39.3	5.8
31	11.3	11.3	7.9	7.9	16.9	11.2	13.4	15.8	13.6	18.2	13.7	12.6	10.4	9.2	11.6	11.6	8.1	10.4	12.7	17.2	13.7	12.5	12.5	13.6	12.4	18.2	7.9
Avg	11.5	12.9	10.3	10.5	12.1	14.5	21.6	19.1	14.3	12.7	13.3	12.4	12.5	16.5	16.6	17.6	13.3	19.4	12.3	15.3	14.9	13.0	11.3	9.3	14.0	--	--
Max	59.1	129.0	67.2	58.1	60.2	37.9	74.4	89.3	43.9	45.1	48.7	34.6	30.9	79.3	55.5	90.8	103.0	78.7	31.2	103.0	65.0	49.5	47.2	19.1	--	129.0	--
Min	2.2	2.2	2.2	0.0	-1.1	1.1	2.2	1.1	2.2	2.2	1.1	-2.3	-2.3	0.0	2.3	3.4	3.4	4.6	4.5	4.5	1.1	0.0	3.4	2.2	--	--	-2.3

'-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table125, West_Plant_conc_PM10_STP"
Month: Sep 2017

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	21.6	15.9	15.9	17.0	15.8	18.0	22.5	30.4	18.1	19.4	34.3	13.8	31.2	15.1	17.4	17.4	18.6	33.6	17.3	14.9	14.9	17.1	14.8	21.6	19.9	34.3	13.8
2	12.5	19.2	70.7	74.8	71.3	63.4	59.8	63.5	52.6	55.1	35.2	14.8	19.5	18.3	10.3	11.4	14.9	14.8	14.8	37.4	35.0	32.6	25.8	19.0	35.3	74.8	10.3
3	30.1	29.0	47.8	38.8	22.1	25.4	23.1	41.0	22.2	21.4	18.2	10.3	11.5	10.4	12.7	24.2	29.9	24.1	26.2	27.2	31.7	22.6	21.4	24.7	24.8	47.8	10.3
4	24.6	21.2	22.2	25.5	18.8	21.0	37.6	21.1	26.7	23.5	15.8	15.9	21.7	25.2	12.6	15.0	17.3	16.1	19.5	19.5	15.9	19.3	33.9	16.9	21.1	37.6	12.6
5	32.7	11.3	13.5	15.7	15.7	25.7	46.9	51.5	28.2	56.7	20.6	19.6	27.7	27.8	32.4	32.5	25.5	20.8	28.8	16.0	13.7	12.5	20.5	22.7	25.8	56.7	11.3
6	12.4	17.0	15.8	15.8	16.9	22.5	53.9	47.1	35.0	30.6	25.1	22.9	24.2	27.7	18.5	32.4	18.5	25.4	23.0	26.3	26.2	22.7	23.9	19.3	25.1	53.9	12.4
7	21.6	20.4	26.0	28.2	19.1	24.7	108.0	70.7	23.7	28.3	20.5	41.3	20.8	18.5	25.5	39.3	36.9	26.4	35.4	38.3	56.4	47.2	49.4	40.3	36.1	108.0	18.5
8	38.1	49.4	77.3	57.0	50.0	80.0	72.1	73.5	64.7	61.8	88.1	85.0	72.8	87.6	77.4	92.4	58.2	52.9	24.7	21.1	13.3	14.4	14.4	14.4	55.9	92.4	13.3
9	19.9	15.4	15.4	10.0	6.6	9.9	7.7	8.8	12.2	12.2	12.3	11.2	13.5	14.7	12.5	13.6	15.9	13.6	12.4	13.5	12.3	10.1	10.0	12.3	12.3	19.9	6.6
10	11.1	11.1	11.1	10.0	11.1	10.0	10.0	11.2	12.3	11.3	9.1	8.0	5.7	8.1	10.4	9.2	8.1	8.1	12.6	10.3	10.2	15.9	14.7	14.7	10.6	15.9	5.7
11	15.8	15.8	16.9	12.4	14.6	16.9	18.0	20.3	19.2	18.2	16.0	17.2	6.9	9.3	18.5	19.7	6.9	8.1	9.2	11.4	18.2	14.7	15.8	13.6	14.7	20.3	6.9
12	12.4	13.6	13.6	13.5	12.4	19.2	15.8	44.0	20.4	18.3	10.3	12.7	15.1	33.7	15.1	15.1	15.1	55.6	11.5	17.2	22.9	16.0	15.9	70.3	21.2	70.3	10.3
13	14.7	14.7	14.7	13.5	12.3	22.4	29.2	23.7	20.4	12.5	17.2	12.7	30.0	31.2	44.1	19.7	19.7	12.7	24.2	26.4	62.8	393.0	218.0	71.9	48.4	393.0	12.3
14	50.6	47.3	20.2	15.7	11.2	8.9	20.1	18.0	12.4	10.2	6.9	8.0	23.0	162.0	198.0	196.0	159.0	62.9	147.0	72.6	66.6	34.8	21.3	12.3	57.8	198.0	6.9
15	7.8	4.4	4.4	7.8	10.0	11.0	13.2	14.5	13.4	10.1	6.8	4.5	30.6	35.2	28.5	17.1	27.3	35.2	13.6	21.4	19.1	22.5	16.8	20.1	16.5	35.2	4.4
16	14.5	12.2	7.8	9.9	12.1	16.5	17.6	13.3	10.0	7.8	6.7	5.7	7.9	13.6	9.1	5.7	6.8	6.8	9.1	9.0	9.0	10.1	8.9	7.8	9.9	17.6	5.7
17	7.8	13.4	15.6	15.5	15.5	13.3	13.3	13.3	11.2	11.2	11.3	11.3	9.1	9.1	10.3	9.1	8.0	19.3	12.4	36.0	7.8	11.2	11.1	7.8	12.7	36.0	7.8
18	28.8	21.0	10.0	7.7	9.9	17.6	59.2	14.4	19.0	19.1	6.8	5.7	5.7	8.0	13.7	9.1	53.5	11.4	7.9	5.6	10.1	13.4	15.6	15.6	16.2	59.2	5.6
19	11.1	11.1	14.4	10.0	5.5	7.7	33.0	26.6	8.9	20.2	13.5	12.4	--	--	--	--	--	--	--	--	--	--	--	--	--	33.0	5.5
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41.3	77.8	19.4	19.3	15.8	50.4	21.3	16.7	15.5	--	77.8	15.5
21	32.1	4.4	6.6	11.0	9.9	23.1	28.6	44.3	13.4	12.4	5.7	3.4	9.1	21.7	62.0	43.6	47.0	36.5	28.4	20.3	28.1	34.7	17.9	17.8	23.4	62.0	3.4
22	13.3	10.0	6.6	4.4	3.3	6.6	31.9	28.7	21.1	21.2	--	6.7	9.0	9.0	7.9	10.2	11.3	21.4	21.3	20.1	27.8	23.3	23.2	22.1	15.7	31.9	3.3
23	17.7	22.0	20.9	18.7	17.5	12.0	21.8	19.7	14.3	10.0	4.5	4.5	8.9	13.4	13.4	12.3	13.4	13.4	18.8	13.2	14.3	12.1	20.8	17.5	14.8	22.0	4.5
24	12.0	14.1	14.2	13.1	12.0	10.8	17.3	15.3	15.4	13.2	11.1	13.3	13.4	7.8	6.7	7.8	10.1	10.0	10.0	23.2	9.9	8.7	30.6	32.7	13.9	32.7	6.7
25	7.6	17.4	26.0	6.5	5.4	9.7	33.5	142.0	18.7	37.6	10.0	38.0	21.3	24.7	18.0	25.9	33.8	11.2	27.9	24.4	26.4	15.4	24.1	41.6	27.0	142.0	5.4
26	52.4	12.0	12.0	12.0	12.0	13.1	18.6	11.0	17.6	18.9	11.2	20.2	14.7	56.4	71.1	15.8	66.4	16.8	36.9	14.5	16.6	15.5	14.3	13.2	23.5	71.1	11.0
27	58.3	13.2	11.0	8.8	9.9	10.9	202.0	77.9	57.5	30.0	31.3	18.0	13.5	13.5	19.1	16.9	16.9	19.0	13.4	22.2	15.4	15.4	15.4	15.4	30.2	202.0	8.8
28	19.7	10.9	12.0	12.0	9.8	10.9	32.8	57.0	35.4	15.6	14.6	7.9	3.4	6.8	--	22.7	22.7	11.3	12.4	20.1	17.8	16.6	14.4	13.3	17.4	57.0	3.4
29	12.2	10.0	10.0	11.1	10.0	7.8	12.2	13.3	16.7	12.3	10.1	6.8	3.4	6.9	12.6	11.4	13.7	14.8	14.7	16.9	10.1	18.9	18.9	13.3	12.0	18.9	3.4
30	12.2	10.0	7.8	8.9	10.0	10.0	11.1	13.3	13.4	9.0	7.9	9.1	9.1	24.0	28.5	58.3	14.8	33.0	30.5	33.7	13.4	40.1	12.2	10.0	17.9	58.3	7.8
Avg	21.6	16.8	19.3	17.4	15.5	18.9	36.9	35.5	22.6	21.7	17.2	15.9	17.2	26.4	29.9	29.1	29.9	22.6	23.6	22.4	23.3	32.8	26.2	22.0	23.6	--	--
Max	58.3	49.4	77.3	74.8	71.3	80.0	202.0	142.0	64.7	61.8	88.1	85.0	72.8	162.0	198.0	196.0	159.0	62.9	147.0	72.6	66.6	393.0	218.0	71.9	--	393.0	--
Min	7.6	4.4	4.4	4.4	3.3	6.6	7.7	8.8	8.9	7.8	4.5	3.4	3.4	6.8	6.7	5.7	6.8	6.8	7.9	5.6	7.8	8.7	8.9	7.8	--	--	3.3

[1]-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25"
Month: Jul 2017

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	6	2	0	3	4	5	5	4	2	2	0	-1	0	1	1	3	4	3	7	8	6	6	5	3.29	8	-1
2	6	5	6	6	4	7	10	8	5	4	2	2	3	5	5	4	2	4	6	7	10	8	8	11	5.75	11	2
3	7	6	8	11	11	10	7	2	4	5	7	7	5	6	7	6	7	7	8	8	10	10	10	8	7.38	11	2
4	6	6	5	6	8	11	12	9	6	5	6	6	4	5	8	7	7	8	7	7	10	13	9	7	7.42	13	4
5	6	7	9	8	7	6	9	8	4	4	3	6	8	7	6	6	8	9	7	10	9	7	9	6	7.04	10	3
6	5	7	9	8	7	9	11	9	7	4	5	7	8	9	8	7	5	6	9	10	7	10	13	12	8	13	4
7	9	7	8	10	18	9	9	10	9	8	8	--	8	8	8	8	7	7	7	10	11	11	11	16	9.43	18	7
8	11	9	8	9	7	6	9	9	7	6	5	5	5	7	8	6	6	8	6	5	7	7	38	26	9.17	38	5
9	17	13	11	10	9	8	6	9	13	12	10	10	8	9	11	11	11	11	17	15	101	50	46	30	18.7	101	6
10	34	32	25	19	10	13	11	10	10	--	--	--	9	50	25	14	32	43	8	9	7	8	12	7	18.5	50	7
11	5	9	7	6	6	3	4	5	5	7	8	8	6	5	3	3	6	4	3	6	6	5	4	5	5.38	9	3
12	4	1	1	2	3	6	6	6	5	3	5	5	3	1	5	8	7	6	6	7	7	7	7	7	4.92	8	1
13	6	6	6	5	6	5	4	5	5	6	7	6	6	6	6	5	5	11	11	11	12	11	9	5	6.87	12	4
14	3	4	2	3	6	4	3	4	1	0	5	5	3	6	8	8	9	10	7	7	7	7	8	5	5.21	10	0
15	5	5	2	2	5	7	4	3	4	3	4	3	2	3	3	5	9	7	4	3	3	6	9	9	4.58	9	2
16	6	6	5	5	5	7	11	7	6	7	4	3	5	4	2	4	5	6	6	5	4	3	4	3	5.13	11	2
17	2	3	0	-1	1	2	1	-1	2	5	2	0	1	2	3	3	2	1	2	2	0	1	1	3	1.54	5	-1
18	4	2	1	0	-2	-2	0	2	1	3	4	2	2	4	4	4	-3	-2	5	2	2	5	3	3	1.83	5	-3
19	3	1	3	2	0	1	4	4	5	6	6	7	5	4	5	3	0	-2	0	5	5	3	2	3	3.13	7	-2
20	4	3	1	1	1	2	7	7	4	2	0	4	6	4	3	2	2	3	6	6	3	-1	-3	-4	2.63	7	-4
21	-1	2	2	0	-1	-1	2	5	3	-1	-2	1	2	3	4	2	1	2	1	0	2	2	-1	-1	1.08	5	-2
22	1	3	3	-1	-2	1	0	1	3	5	6	4	4	3	4	3	1	2	2	1	1	0	0	4	2.04	6	-2
23	5	1	-1	-1	-2	-1	2	5	3	0	0	2	3	6	5	2	3	6	7	1	-2	-2	-1	3	1.83	7	-2
24	4	2	1	-1	0	1	-1	1	2	2	2	2	0	-3	-4	-4	-4	-2	-2	-1	2	2	0	2	0.0417	4	-4
25	2	0	0	2	3	1	0	2	0	-1	-1	-1	3	5	5	6	3	3	4	3	4	4	3	2	2.17	6	-1
26	3	3	5	7	6	6	2	3	7	5	4	4	5	6	5	2	1	3	3	3	6	8	6	4	4.46	8	1
27	7	7	6	5	4	7	7	7	7	2	1	3	2	2	3	4	5	5	5	4	4	4	2	1	4.33	7	1
28	1	1	1	1	3	3	6	-1	-5	0	3	2	0	-1	-1	2	4	5	6	4	0	0	2	3	1.63	6	-5
29	2	6	6	0	2	4	2	--	--	--	--	--	--	3	-1	-4	-6	-5	0	3	1	0	0	-2	0.611	6	-6
30	-2	-1	-1	0	0	0	0	-1	-1	0	0	0	0	2	4	1	1	2	0	0	1	0	0	-2	0.125	4	-2
31	-1	0	0	-3	0	3	0	-2	0	1	2	2	0	1	1	0	0	5	6	1	3	5	3	2	1.21	6	-3
Avg	5.39	5.23	4.55	3.9	4.13	4.58	4.94	4.7	4.2	3.62	3.72	3.75	3.83	5.55	4.97	4.16	4.48	5.71	5.16	5.19	8.1	6.45	7.1	5.9	5.01	--	--
Max	34	32	25	19	18	13	12	10	13	12	10	10	9	50	25	14	32	43	17	15	101	50	46	30	--	101	--
Min	-2	-1	-1	-3	-2	-2	-1	-2	-5	-1	-2	-1	-1	-3	-4	-4	-6	-5	-2	-1	-2	-2	-3	-4	--	--	-6

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25"
Month: Aug 2017

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	-2	-3	1	3	1	-1	-3	--	-5	-8	-4	-2	-2	-1	1	2	-2	-5	-4	-1	0	0	-1	-1.57	3	-8
2	-3	0	1	-1	-2	-1	-2	-1	2	1	-1	0	0	0	-1	-1	-1	-2	0	1	-2	-2	-1	-1	-0.708	2	-3
3	2	-1	-4	-4	-3	-1	-1	-1	-1	1	3	2	0	0	3	6	4	3	6	5	5	4	3	3	1.42	6	-4
4	4	2	0	-1	1	8	19	4	1	0	2	2	2	0	2	2	1	-1	0	2	5	7	3	0	2.71	19	-1
5	3	6	8	7	5	2	1	2	2	2	2	2	3	2	1	3	4	5	5	2	2	7	6	3	3.54	8	1
6	2	4	2	0	1	2	4	0	0	3	3	1	1	1	-2	-1	2	1	1	3	5	6	4	2	1.88	6	-2
7	3	2	3	3	2	5	7	6	5	2	0	0	1	2	2	3	4	2	1	4	5	5	5	3	3.13	7	0
8	1	4	3	2	4	5	5	4	2	0	0	1	1	2	0	2	4	3	1	2	4	5	7	5	2.79	7	0
9	1	3	3	2	4	5	4	1	1	1	-2	2	4	4	3	2	2	2	2	2	6	7	6	6	2.96	7	-2
10	6	3	2	2	3	6	3	3	4	0	-2	-1	2	3	0	0	1	1	3	5	7	5	0	1	2.38	7	-2
11	4	3	0	2	4	3	2	0	0	-1	-5	-3	1	1	2	0	0	0	0	1	3	5	3	3	1.17	5	-5
12	3	2	3	4	5	5	3	1	1	1	3	3	1	1	2	2	0	0	5	5	4	3	1	2	2.5	5	0
13	1	-3	-3	-1	-1	1	-2	-2	1	-1	-1	0	0	-4	-6	-1	0	0	2	3	7	8	2	3	0.125	8	-6
14	3	2	3	4	5	2	2	5	5	3	2	4	3	0	1	2	3	4	2	3	6	7	6	3	3.33	7	0
15	1	3	2	2	3	2	3	6	4	4	3	2	1	0	1	0	5	5	4	3	2	2	3	6	2.79	6	0
16	4	3	5	4	2	1	-1	1	2	1	0	-2	-2	-1	--	0	1	3	3	1	1	3	1	-1	1.26	5	-2
17	1	1	0	0	0	2	5	2	-2	-1	0	1	-1	0	1	-1	0	2	2	3	4	0	-2	-2	0.625	5	-2
18	-2	0	1	2	2	1	4	6	4	0	-2	-3	-4	1	2	-1	2	4	3	3	2	2	4	2	1.38	6	-4
19	-2	1	-1	0	5	6	3	-1	-3	-4	-1	4	5	3	4	3	0	5	6	2	6	7	2	0	2.08	7	-4
20	2	5	5	3	2	1	3	3	4	3	2	5	4	2	2	2	2	5	4	3	6	6	3	1	3.25	6	1
21	-1	0	1	3	4	3	3	2	-1	1	0	0	2	2	2	3	4	3	4	4	6	6	5	3	2.46	6	-1
22	1	2	3	5	5	3	3	4	2	0	-1	1	2	3	3	2	4	5	2	3	6	6	4	1	2.88	6	-1
23	1	1	3	5	4	2	1	3	5	5	-1	-4	-4	-1	4	6	6	5	6	7	5	1	0	1	2.54	7	-4
24	2	2	0	0	2	2	3	2	0	-2	-4	-2	0	1	1	-2	-3	-1	3	4	2	3	1	2	0.667	4	-4
25	3	2	3	2	4	4	4	3	2	1	2	1	-1	0	1	2	1	2	6	6	4	-1	1	4	2.33	6	-1
26	2	5	6	-1	-1	1	0	1	0	-1	-1	0	-1	-2	-1	6	9	4	0	0	1	0	-3	-2	0.917	9	-3
27	2	4	3	3	3	0	1	0	-1	-1	-1	-2	0	1	-2	-3	-2	3	5	0	0	2	3	3	0.875	5	-3
28	1	1	2	2	2	2	3	0	2	1	-3	1	3	1	0	1	3	5	5	4	1	0	1	2	1.67	5	-3
29	2	3	2	0	3	5	3	--	--	--	--	--	--	--	--	2	3	5	6	8	8	3	2	5	--	8	0
30	6	6	6	6	5	5	5	5	6	2	3	6	6	6	5	4	3	6	7	4	6	6	4	3	5.04	7	2
31	4	5	4	5	5	4	5	3	0	3	4	2	4	5	5	5	5	5	5	7	7	6	7	5	4.58	7	0
Avg	1.84	2.23	2.03	1.97	2.61	2.81	2.97	1.97	1.62	0.633	-0.133	0.633	1.03	1.03	1.17	1.58	2.23	2.65	3.03	3.1	3.97	3.84	2.61	2.1	2.03	--	--
Max	6	6	8	7	5	8	19	6	6	5	4	6	6	6	5	6	9	6	7	8	8	8	7	6	--	19	--
Min	-3	-3	-4	-4	-3	-1	-2	-3	-3	-5	-8	-4	-4	-4	-6	-3	-3	-2	-5	-4	-2	-2	-3	-2	--	--	-8

-- Indicates Invalid Data

SAROAD for Resolution, West_Plant
"Component, Channel: Table126, conc_PM25"
Month: Sep 2017

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	6	7	6	7	9	9	10	9	6	5	7	7	6	4	5	7	9	10	9	7	7	7	7	7.17	10	4
2	6	6	9	11	10	6	8	10	7	5	6	5	3	6	4	5	8	8	6	6	8	9	8	6	6.92	11	3
3	8	8	5	5	6	6	7	3	2	3	3	5	7	8	6	8	9	7	7	10	11	10	9	7	6.67	11	2
4	6	6	2	2	5	3	1	3	4	4	1	2	4	5	6	7	6	7	10	7	6	8	8	7	5	10	1
5	6	6	6	4	6	7	6	6	3	4	6	4	4	5	8	10	9	6	6	9	9	9	8	8	6.46	10	3
6	8	7	6	5	6	7	7	8	6	6	7	7	7	9	10	10	16	15	17	13	14	14	11	11	9.46	17	5
7	10	8	9	9	11	10	17	16	8	7	7	7	9	11	12	11	10	13	15	14	13	13	14	13	11.1	17	7
8	13	14	15	13	12	13	13	16	14	13	27	31	19	20	17	14	16	15	17	11	12	12	10	11	15.3	31	10
9	10	10	10	8	9	10	9	6	6	8	6	6	9	9	9	8	8	10	8	8	11	11	11	10	8.75	11	6
10	8	7	5	5	6	3	3	6	8	6	2	0	3	4	5	8	6	7	9	8	9	7	7	8	5.83	9	0
11	7	6	5	5	9	11	7	6	5	3	5	4	1	3	6	6	5	6	6	7	9	9	8	6	6.04	11	1
12	5	6	7	7	8	8	5	3	5	4	4	4	3	5	6	6	6	7	7	7	6	7	8	8	5.92	8	3
13	9	7	10	11	8	6	6	6	4	2	2	3	4	0	3	4	2	4	6	4	6	27	17	6	6.54	27	0
14	7	5	4	5	2	1	0	-2	0	3	2	1	2	8	18	17	8	7	10	10	4	2	2	0	4.83	18	-2
15	1	3	4	5	2	1	4	6	5	1	0	2	2	2	4	3	0	1	4	4	4	4	2	0	2.67	6	0
16	1	1	1	2	3	3	3	4	3	2	3	4	3	1	3	1	1	2	3	4	5	3	3	3	2.58	5	1
17	2	4	5	6	6	3	2	2	2	5	3	2	4	3	3	4	3	3	1	3	5	5	5	4	3.54	6	1
18	5	4	3	4	3	4	5	3	3	5	4	0	-1	-1	-1	0	3	4	4	2	1	2	1	3	2.5	5	-1
19	4	2	1	0	1	3	4	6	3	1	3	1	1	1	2	5	7	6	5	6	6	3	2	1	3.08	7	0
20	2	2	2	5	4	4	5	5	6	4	1	2	3	1	--	4	3	3	3	1	2	4	5	4	3.26	6	1
21	4	5	1	1	3	4	5	4	4	3	-1	-1	-2	-1	1	0	3	2	3	5	5	5	5	5	2.63	5	-2
22	3	3	3	2	0	-3	0	6	4	3	3	1	0	1	2	1	2	5	6	5	5	7	6	3	2.83	7	-3
23	4	5	6	7	6	6	5	2	1	1	1	2	2	1	2	4	3	0	2	5	5	4	3	4	3.38	7	0
24	2	0	4	2	3	5	4	6	6	5	4	3	2	3	2	2	3	2	1	3	3	3	6	3	3.21	6	0
25	-1	3	5	6	4	4	6	6	5	4	2	0	1	3	6	5	4	4	3	3	3	4	5	7	3.83	7	-1
26	6	5	4	5	3	3	4	4	5	5	4	4	2	2	4	2	3	3	6	6	3	4	4	2	3.88	6	2
27	6	9	6	6	5	3	8	8	3	2	3	2	0	1	3	3	3	2	3	3	3	3	3	2	3.75	9	0
28	1	3	3	5	4	4	4	3	2	2	-1	-2	0	0	--	1	3	5	4	4	7	7	4	2	2.83	7	-2
29	4	5	2	1	1	2	1	2	2	2	3	1	-1	0	0	2	4	4	4	6	8	4	3	3	2.63	8	-1
30	2	4	5	5	3	1	0	3	6	3	2	2	3	3	0	1	4	6	7	6	4	5	5	3	3.46	7	0
Avg	5.17	5.33	5.17	5.27	5.2	4.9	5.27	5.57	4.7	4.07	3.9	3.63	3.37	3.97	5.18	5.23	5.5	5.77	6.43	6.3	6.47	7.07	6.33	5.23	5.2	--	--
Max	13	14	15	13	12	13	17	16	14	13	27	31	19	20	18	17	16	15	17	14	14	27	17	13	--	31	--
Min	-1	0	1	0	0	-3	0	-2	0	1	-1	-2	-2	-1	-1	0	0	0	1	1	1	2	1	0	--	--	-3

-- Indicates Invalid Data

Appendix C – Gaseous Analyzer Data: Hourly

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Jul 2017

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	0.0267	0.0278	0.0279	0.0282	0.0294	0.0304	0.0308	0.0315	0.0318	0.0314	0.0307	0.0309	0.0307	0.0299	0.0303	0.0303	0.0312	0.0324	0.0335	0.0337	0.0329	0.0334	0.0336	0.0345	0.031	0.0345	0.0267
2	0.035	0.0349	0.034	0.0331	0.0326	0.0325	0.031	0.0303	0.0282	0.0271	0.0263	0.0263	0.0268	0.0268	0.0252	0.0237	0.0217	0.0194	0.0169	0.0139	0.011	--	--	--	0.0265	0.035	0.011
3	--	--	--	--	--	--	--	--	0.0096	0.01	--	--	--	--	--	--	--	--	--	0.0054	0.0049	--	--	--	--	--	--
4	--	--	--	--	--	--	0.0051	0.0065	0.0068	0.0079	0.0087	0.0103	0.011	0.0117	0.0129	0.0132	0.0127	0.0129	0.0127	0.0123	0.0114	0.0107	0.0097	0.0099	0.0103	0.0132	0.0051
5	0.0105	0.0104	0.0103	0.0103	0.0095	0.0096	0.0112	0.0129	0.013	0.0142	0.0164	0.0181	0.019	0.02	0.0205	0.0189	0.018	0.0184	0.0179	0.0161	0.0141	0.0128	--	--	0.0146	0.0205	0.0095
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.034	0.0377	0.0396	0.0408	0.0405	0.0389	0.0384	0.0381	0.0371	--	--	--
7	0.0361	0.0341	0.0328	0.0321	0.0331	0.0335	0.0339	0.0323	0.0311	0.0307	0.031	0.0314	0.0322	0.032	0.0323	0.0316	0.0324	0.0345	0.0351	0.0354	0.0355	0.0352	0.0338	0.0319	0.0331	0.0361	0.0307
8	0.0295	0.0276	0.0245	0.0212	0.0185	0.0156	0.0139	0.013	0.0134	0.0143	0.0156	0.0173	0.0208	0.0239	0.0266	0.0288	0.0311	0.0327	0.0346	0.0353	0.0359	0.0356	0.0355	0.0361	0.0251	0.0361	0.013
9	0.0353	0.0333	0.0311	0.0306	0.0304	0.0302	0.0295	0.0292	0.0291	0.0294	0.0306	0.0331	0.0333	0.0331	0.0338	0.0342	0.0348	0.0344	0.0348	0.0352	0.0343	0.0348	0.0348	0.0345	0.0326	0.0353	0.0291
10	0.0343	0.0334	0.0333	0.0327	0.0305	0.0279	0.0255	0.0252	0.0255	0.0267	0.0277	0.0286	0.0292	0.0307	0.0321	0.0332	0.033	0.0321	0.0304	0.0291	0.0274	0.0261	0.0255	0.025	0.0294	0.0343	0.025
11	0.0247	0.0243	0.025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.053	0.0504	0.0492	0.0458	0.0434	0.0425	--	--	--
12	0.0412	0.0401	0.0403	0.0406	--	--	--	--	--	--	--	--	--	--	--	0.0614	0.0592	0.0562	0.0535	0.05	0.0475	0.0449	0.0429	0.0412	--	--	--
13	0.0397	0.0389	0.0391	0.0403	0.042	0.0436	0.046	0.0493	0.0541	0.0571	0.0597	0.0618	0.0623	0.0616	0.0615	0.0601	0.058	0.0541	0.0522	0.0499	0.0458	0.0438	0.0428	0.042	0.0502	0.0623	0.0389
14	0.0422	0.0425	0.0427	0.0427	0.0434	0.0455	0.0469	0.0487	0.0499	0.0501	0.0486	0.0468	0.0444	0.0427	0.0414	0.0399	0.0374	0.035	0.0331	0.0325	0.033	0.0344	0.0343	0.0344	0.0414	0.0501	0.0325
15	0.0352	0.0371	0.0392	0.0418	0.0452	0.048	0.0511	0.0548	0.0571	0.0584	0.0578	0.0554	0.0537	0.0522	0.0504	0.0473	0.0436	0.0411	0.0384	0.0369	0.0373	0.0364	0.0347	0.0342	0.0453	0.0584	0.0342
16	0.0347	0.0363	0.0383	0.0416	0.0453	0.0486	0.0522	0.0561	0.0589	0.0608	0.0616	0.0602	0.0587	0.0573	0.0536	0.0512	0.0489	0.0468	0.0445	0.0424	0.0424	0.042	0.0406	0.0408	0.0485	0.0616	0.0347
17	0.0403	0.04	0.0404	0.0416	0.0434	0.045	0.0465	--	--	--	--	--	--	--	--	--	0.0527	0.0497	0.0464	0.0438	0.0402	0.0397	0.0391	0.0391	--	--	--
18	0.038	0.0381	0.0391	0.0407	0.0424	0.0453	0.0457	0.0464	0.0471	0.0471	0.0467	0.0459	0.0446	0.0435	0.0422	0.0417	0.0407	0.0393	0.0383	0.0366	0.035	0.0347	0.0336	0.0335	0.0411	0.0471	0.0335
19	0.0332	0.034	0.0359	0.0382	0.0414	0.0452	0.0481	0.0514	0.0536	0.0559	0.057	0.0568	0.0559	0.0541	0.0511	0.0496	0.0494	0.0491	0.0482	0.0478	0.0486	0.0498	0.0514	0.0538	0.0483	0.057	0.0332
20	0.0546	0.054	0.0538	0.0542	0.0552	0.0554	0.0559	0.0567	0.0576	0.0582	0.0585	0.0601	0.0608	0.0597	0.0585	0.0563	0.0537	0.0516	0.0499	0.0478	0.0441	0.0405	0.0383	0.0385	0.0531	0.0608	0.0383
21	0.0401	0.0417	0.0429	0.044	0.0457	0.0474	0.0501	0.0528	0.0529	0.0527	0.0528	0.0517	0.0497	0.0477	0.0458	0.0441	0.0418	0.0393	0.0376	0.0339	0.0311	0.03	0.0281	0.0275	0.043	0.0529	0.0275
22	0.0273	0.0283	0.03	0.0309	0.0337	0.037	0.0403	0.0446	0.0471	0.0483	0.0484	0.0477	0.0463	0.045	0.0434	0.0412	0.0388	0.0368	0.0341	0.0321	0.0302	0.0279	0.0264	0.0262	0.0372	0.0484	0.0262
23	0.0265	0.0265	0.0269	0.0284	0.0306	0.0335	0.0374	0.0404	0.0422	0.0437	0.0451	0.0459	0.0469	0.0467	0.0455	0.0437	0.042	0.0406	0.0386	0.0369	0.0358	0.0333	0.0314	0.0306	0.0375	0.0469	0.0265
24	0.0311	0.0313	0.0316	0.0325	0.0335	0.0341	0.0362	0.0381	0.039	0.0392	0.0395	0.0388	0.0374	0.0356	0.0344	0.0319	0.0291	0.0275	0.025	0.0232	0.0212	0.02	0.0191	0.0193	0.0312	0.0395	0.0191
25	0.0214	0.0236	0.0254	0.0281	0.0298	0.0324	0.0351	0.0377	0.0395	0.0405	0.0414	0.0424	0.0427	0.0416	0.0411	0.041	0.0403	0.0395	0.0384	0.0373	0.0358	0.0347	0.0347	0.0346	0.0358	0.0427	0.0214
26	0.0352	0.036	0.037	0.038	--	--	--	--	--	--	--	--	--	--	0.0567	0.0582	0.0585	--	--	--	--	--	--	--	--	--	--
27	--	--	0.0395	0.0403	0.0413	0.0426	0.0448	--	--	--	--	--	--	--	--	--	--	--	--	0.0443	0.0422	0.0414	0.0411	0.0397	--	--	--
28	0.0389	0.0393	0.0401	0.0407	0.0418	0.0437	0.0448	0.0455	0.0478	0.0502	0.0519	0.0528	0.0534	0.0529	0.0515	0.0501	0.0489	0.0466	0.0442	0.0419	0.0402	0.0383	0.0378	0.0376	0.0451	0.0534	0.0376
29	0.0379	0.0385	0.0402	0.0417	0.0432	0.0445	0.0463	0.0476	0.0492	0.0502	0.051	0.0513	0.0512	0.0508	0.0499	0.0486	0.0474	0.0461	0.0442	0.042	0.0398	0.0378	0.0363	0.0349	0.0446	0.0513	0.0349
30	0.0339	0.0333	0.0334	0.0343	0.0357	0.0374	0.0396	0.0414	0.0428	0.0446	0.0462	0.0462	0.0445	0.0422	0.04	0.0382	0.0362	0.0345	0.0328	0.0306	0.0293	0.0298	0.0304	0.031	0.037	0.0462	0.0293
31	0.0318	0.0334	0.0357	0.0376	0.0402	0.0429	0.0451	0.0474	0.0494	0.0503	0.0504	0.05	0.0494	0.0484	0.0474	0.0459	0.0443	0.0419	0.0398	0.0382	0.0374	0.0364	0.036	0.0359	0.0423	0.0504	0.0318
Avg	0.0339	0.034	0.0347	0.0358	0.0367	0.0381	0.0382	0.0392	0.0391	0.04	0.0418	0.0421	0.0419	0.0413	0.0411	0.0407	0.0401	0.0382	0.0375	0.0352	0.0337	0.0346	0.0346	0.0343	0.0376	--	--
Max	0.0546	0.054	0.0538	0.0542	0.0552	0.0554	0.0559	0.0567	0.0589	0.0608	0.0616	0.0618	0.0623	0.0616	0.0615	0.0614	0.0592	0.0562	0.0535	0.0504	0.0492	0.0498	0.0514	0.0538	--	0.0623	--
Min	0.0105	0.0104	0.0103	0.0103	0.0095	0.0096	0.0051	0.0065	0.0068	0.0079	0.0087	0.0103	0.011	0.0117	0.0129	0.0132	0.0127	0.0129	0.0127	0.0054	0.0049	0.0107	0.0097	0.0099	--	--	0.0049

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Aug 2017

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	0.0357	0.0358	0.0367	0.0383	0.0399	0.0411	0.0427	0.0437	0.0442	0.0451	0.0457	0.0459	0.0458	0.0455	0.045	0.0448	0.0447	0.0445	0.0444	0.0443	0.0443	0.0437	0.0436	0.0435	0.0429	0.0459	0.0357
2	0.0426	0.0413	0.0406	0.0407	0.041	0.0413	0.0416	0.0421	0.0429	0.0438	0.0447	0.0452	0.0448	0.0437	0.0425	0.0413	0.0396	0.0381	0.037	0.0359	0.0344	0.0325	0.0319	0.0318	0.0401	0.0452	0.0318
3	0.0327	0.0345	0.0362	0.0383	0.0411	0.0443	0.0482	0.0511	0.0539	0.0558	0.0568	0.0577	0.0572	0.0561	0.055	0.0534	0.051	0.0489	0.0483	0.0477	0.0468	0.0459	0.0446	0.0438	0.0479	0.0577	0.0327
4	0.045	0.0476	0.0506	0.0523	0.0539	0.0556	0.0579	0.0614	0.0643	0.0656	0.0663	0.0662	0.0644	0.0621	0.0595	0.0563	0.0542	0.0521	0.0493	0.0469	0.0452	0.0452	0.0439	0.043	0.0545	0.0663	0.043
5	0.0437	0.0432	0.0427	0.0427	0.042	0.0407	0.0394	0.0405	0.0418	0.0423	0.0427	0.0432	0.0438	0.0435	0.0438	0.0432	0.0424	0.041	0.039	0.037	0.0358	0.0344	0.0338	0.033	0.0407	0.0438	0.033
6	0.0336	0.034	0.0347	0.0358	0.0372	0.0377	0.0387	0.0404	0.0421	0.0431	0.0442	0.0452	0.0452	0.044	0.0431	0.0423	0.0419	0.0404	0.0393	0.0372	0.0351	0.0336	0.0327	0.032	0.0389	0.0452	0.032
7	0.0323	0.0325	0.0336	0.0346	0.0364	0.0382	0.0406	0.0433	0.046	0.0478	0.0492	0.0501	0.0497	0.0489	0.0486	0.0486	0.0481	0.0475	0.0468	0.0462	0.0461	0.0468	0.0476	0.0477	0.0441	0.0501	0.0323
8	0.0477	0.0485	0.049	--	--	--	--	--	--	--	--	--	--	0.0505	0.0493	0.0487	0.0484	0.0478	0.047	0.0464	0.046	0.0452	0.0448	0.0447	--	--	--
9	0.0449	0.0453	0.0464	0.0476	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0495	0.0479	0.0457	0.0436	0.0422	0.0417	--	--	--
10	0.0412	0.0406	--	--	--	--	--	--	--	--	--	0.0506	0.0506	0.0498	0.0493	0.0486	0.0483	0.0474	0.0469	0.0467	0.0468	0.0463	0.0456	0.045	--	--	--
11	0.045	0.0449	0.0452	0.0454	0.0456	0.0463	0.047	0.0479	0.0489	0.0499	0.0512	0.0523	0.0531	0.0533	0.0523	0.0515	0.0505	0.0489	0.0466	0.0443	0.0425	0.0408	0.0392	0.0385	0.0471	0.0533	0.0385
12	0.0378	0.0373	0.037	0.0374	0.0379	0.0387	0.0399	0.0417	0.0439	0.0455	0.0472	0.0494	0.0503	0.05	0.0493	0.0482	0.0473	0.0455	0.0438	0.0421	0.04	0.0389	0.0383	0.0374	0.0427	0.0503	0.037
13	0.0366	0.036	0.0373	0.0391	0.041	0.043	0.0448	--	--	--	--	--	--	--	--	--	--	--	0.0419	0.0406	0.0386	0.0365	0.0344	0.0323	--	--	--
14	0.0322	0.0319	0.0316	0.0312	0.0315	--	--	--	--	--	--	--	--	--	0.0464	0.0459	0.0455	0.0446	0.0431	0.0416	0.0397	0.0381	0.0372	0.0367	--	--	--
15	0.0366	0.0362	0.0364	0.0371	0.038	0.039	0.0406	0.0419	0.0431	0.044	0.045	0.0461	0.0466	0.0466	0.0459	0.0448	0.0427	0.0409	0.0392	0.0365	0.0339	0.0311	0.029	0.0274	0.0395	0.0466	0.0274
16	0.027	0.0281	0.0291	0.0302	0.0319	0.0336	0.0361	0.0382	0.0405	0.0413	0.0418	0.0422	0.0422	0.0414	0.0408	0.0407	0.0403	0.04	0.0396	0.0402	0.0395	0.0395	0.0399	0.0397	0.0377	0.0422	0.027
17	0.0394	0.0393	0.0396	0.0405	0.0405	0.0422	0.0432	0.0448	0.0471	0.0488	0.0499	0.0505	0.0502	0.0488	0.0458	0.0445	0.0431	0.0412	0.0389	0.0377	0.0366	0.0362	0.0373	0.0394	0.0427	0.0505	0.0362
18	0.0402	0.0411	0.0425	0.0442	0.045	0.0461	0.0471	0.0479	0.0488	0.0497	0.0511	0.0518	0.0521	0.0525	0.0531	0.0539	0.0546	0.055	0.0536	0.0525	0.0517	0.0508	0.0486	0.047	0.0492	0.055	0.0402
19	0.0452	0.0435	0.0422	0.0424	0.0414	0.0406	0.0406	0.0428	0.0449	0.0476	0.05	0.0516	0.0528	0.0535	0.0538	0.0527	0.0508	0.0477	0.0432	0.0392	0.0359	0.0339	0.0319	0.0307	0.0441	0.0538	0.0307
20	0.0306	0.0312	0.0324	0.0342	0.0355	0.0372	0.0381	0.0393	0.0401	0.0412	0.0416	0.0416	0.0417	0.0423	0.0422	0.0416	0.0412	0.0411	0.0411	0.041	0.0405	0.039	0.0368	0.0365	0.0387	0.0423	0.0306
21	0.0368	0.0378	0.0387	0.0391	0.0398	0.0411	0.043	0.0456	0.0471	0.049	0.051	0.0527	0.0539	0.0548	0.0551	0.0539	0.0531	0.0517	0.0498	0.0476	0.045	0.0426	0.0408	0.0396	0.0462	0.0551	0.0368
22	0.0408	0.0419	0.0437	0.0456	0.0471	0.0487	0.0506	0.0522	0.0537	0.0545	0.055	0.055	0.0549	0.055	0.0549	0.053	0.0507	0.0479	0.0444	0.0412	0.0387	0.0352	0.0307	0.0269	0.0468	0.055	0.0269
23	0.0259	0.0261	0.0271	0.0292	0.031	0.0324	0.0351	0.039	0.0429	0.0453	0.0465	0.0473	0.0474	0.0475	0.0474	0.0466	0.0456	0.0443	0.0434	0.0427	0.0422	0.0417	0.0411	0.0405	0.0399	0.0475	0.0259
24	0.0405	0.0407	0.0415	0.0425	0.0438	0.0452	0.0466	0.0481	0.05	0.0515	0.0524	0.0537	0.0548	0.0545	0.0533	0.0523	0.0508	0.0488	0.0462	0.0439	0.041	0.0376	0.036	0.0357	0.0463	0.0548	0.0357
25	0.0357	--	--	--	--	--	--	--	--	--	--	0.0863	0.0865	0.0866	0.0867	0.0868	0.0869	0.087	0.087	0.0871	0.0871	0.0871	0.0872	0.0872	--	--	--
26	0.0872	0.0873	0.0873	0.0873	0.0873	0.0873	0.0874	0.0874	0.0874	0.0874	0.0874	0.0874	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0874	0.0875	0.0872
27	0.0875	0.0875	0.0867	0.0808	0.0748	0.069	0.0631	0.0573	0.0516	0.0456	0.0397	0.0342	0.0328	0.0319	0.031	0.0304	0.0296	0.0289	0.0284	0.0278	0.0275	0.028	0.0282	0.0284	0.0471	0.0875	0.0275
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0539	0.0536	0.0531	0.0523	0.0514	0.0503	0.0491	0.0482	0.0476	0.0472	--	--	--
29	0.0458	0.0453	0.0455	0.0461	--	--	--	--	--	--	--	--	--	0.0582	0.0573	0.0566	0.0557	0.055	0.0539	0.0533	0.0528	--	--	--	--	--	--
30	--	--	--	--	--	--	0.0534	0.0541	0.055	0.0559	0.0565	0.056	0.0551	0.0535	0.0523	0.0514	0.0506	0.0501	0.0488	0.0478	0.0476	0.0476	0.0482	0.0485	0.0518	0.0565	0.0476
31	0.0489	0.0494	0.0495	0.05	0.0504	0.0506	0.0511	0.0516	0.0523	0.0524	0.0523	0.0517	0.0505	0.0492	0.0481	0.0475	0.0469	0.0459	0.0448	0.0438	0.044	0.0449	0.0458	0.0465	0.0487	0.0524	0.0438
Avg	0.042	0.0425	0.0431	0.0436	0.0439	0.0452	0.0465	0.0479	0.0492	0.0501	0.0508	0.0526	0.0526	0.0523	0.0515	0.0507	0.0498	0.0487	0.0472	0.046	0.0447	0.0434	0.0425	0.042	0.0469	--	--
Max	0.0875	0.0875	0.0873	0.0873	0.0873	0.0873	0.0874	0.0874	0.0874	0.0874	0.0874	0.0874	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	0.0875	--	0.0875	--
Min	0.0259	0.0261	0.0271	0.0292	0.031	0.0324	0.0351	0.0382	0.0401	0.0412	0.0397	0.0342	0.0328	0.0319	0.031	0.0304	0.0296	0.0289	0.0284	0.0278	0.0275	0.028	0.0282	0.0269	--	--	0.0259

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant, rolling 8-hour average
"Component, Channel: TableAmbient_Hourly, O3_ppm"
Month: Sep 2017

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	0.0469	0.0474	0.049	0.0507	0.0522	0.0532	0.0541	0.0552	0.0562	0.0568	0.0574	0.0565	0.0548	0.053	0.0518	0.0506	0.049	0.0478	0.045	0.0431	0.0414	0.0398	0.0387	0.0375	0.0495	0.0574	0.0375
2	0.0369	0.0367	0.0365	0.0381	0.0389	0.0403	0.0423	0.0442	0.0455	0.0459	0.0463	0.0464	0.0465	0.0463	0.0459	0.0451	0.0443	0.0435	0.042	0.0405	0.0391	0.0375	0.0357	0.0338	0.0416	0.0465	0.0338
3	0.0335	0.0341	0.035	0.0371	0.0395	0.0418	0.0443	0.0472	0.0508	0.053	0.0542	0.0545	0.0543	0.0536	0.0526	0.0516	0.0494	0.0465	0.0433	0.04	0.0383	0.0375	0.0368	0.0359	0.0444	0.0545	0.0335
4	0.0353	0.0359	0.0374	0.0396	0.0422	0.0438	0.0454	0.0476	0.0508	0.0533	0.0559	0.057	0.0578	0.0585	0.0586	0.057	0.0546	0.0523	0.0502	0.0473	0.0457	0.0438	0.0419	0.041	0.048	0.0586	0.0353
5	0.0415	0.0428	0.0439	0.0453	0.0473	0.0492	0.0512	0.0534	0.0552	0.0568	0.0575	0.0573	0.0572	0.0569	0.0562	0.0554	0.0542	0.0528	0.0512	0.0502	0.0496	0.0488	0.048	0.0474	0.0512	0.0575	0.0415
6	0.0473	0.0477	0.0485	0.0496	0.0507	0.0518	0.053	0.0545	0.0561	0.0575	0.0582	0.0581	0.0579	0.0568	0.0548	0.0532	0.0514	0.0498	0.0483	0.0472	0.0466	0.0456	0.0454	0.0453	0.0515	0.0582	0.0453
7	0.0455	0.046	0.0466	0.0473	0.0479	0.0488	0.0503	0.0516	0.0536	0.055	0.0561	0.0569	0.0577	0.0585	0.0587	0.058	0.0573	0.0566	0.0554	0.0539	0.0525	0.0506	0.049	0.0478	0.0526	0.0587	0.0455
8	0.0474	0.0475	0.0482	--	--	--	--	--	--	--	--	--	0.0679	0.0662	0.0637	0.0604	0.0571	0.0537	0.0518	0.0509	0.0494	0.0469	0.0452	0.0439	--	--	--
9	0.0436	0.0438	0.0439	0.0441	0.0446	0.0456	0.0478	0.0504	0.0535	0.0564	0.0586	0.0604	0.0616	0.0607	0.0595	0.0575	0.0552	0.0517	0.0482	0.0449	0.0419	0.0393	0.0386	0.0368	0.0495	0.0616	0.0368
10	0.0363	0.0371	0.0387	0.0404	0.0418	0.0432	0.0445	0.0457	0.048	0.0496	0.0498	0.0489	0.0479	0.0472	0.0463	0.0455	0.0447	0.0435	0.042	0.0412	0.0414	0.0416	0.0418	0.0421	0.0437	0.0498	0.0363
11	0.0426	0.043	0.0441	0.0453	0.0463	0.0471	0.0478	0.0484	0.0491	0.0496	0.0497	0.0498	0.0494	0.0481	0.0474	0.0469	0.0469	0.047	0.0469	0.0464	0.045	0.044	0.0437	0.0429	0.0466	0.0498	0.0426
12	0.0421	0.0406	0.0396	0.0392	0.0398	0.0412	0.0429	0.045	0.047	0.0488	0.0509	0.053	0.0554	0.058	0.0597	0.0598	0.0585	0.0563	0.0536	0.0505	0.0464	0.042	0.0369	0.0322	0.0475	0.0598	0.0322
13	0.0304	0.0303	0.0313	--	--	--	--	--	--	--	--	--	--	0.0518	0.0505	0.0486	0.0466	0.0434	0.0394	0.0372	0.0356	0.0341	0.0331	0.0322	--	--	--
14	0.032	0.0315	0.0314	0.032	0.0325	0.0327	0.033	0.0335	0.034	0.0342	0.0341	0.0336	0.0322	0.031	0.0301	0.0293	0.0287	0.0284	0.028	0.0279	0.028	0.0283	0.0287	0.0289	0.031	0.0342	0.0279
15	0.0291	0.0293	0.0295	0.0299	0.0305	0.0314	0.0326	0.0342	0.036	0.0381	0.0406	0.043	0.045	0.047	0.0486	0.0493	0.0496	0.0498	0.05	0.0491	0.0476	0.0462	0.0441	0.0416	0.0405	0.05	0.0291
16	0.0399	0.0381	0.0368	0.0358	0.0355	0.0359	0.0368	0.0387	0.0408	0.0423	0.0441	0.0454	0.0456	0.0449	0.0443	0.0426	0.0402	0.0392	0.0386	0.0376	0.0359	0.0338	0.0326	0.0312	0.039	0.0456	0.0312
17	0.0318	0.0325	0.0325	0.0322	0.0326	0.0341	0.036	0.0374	0.039	0.0398	0.0409	0.0419	0.0428	0.0428	0.0411	0.0405	0.0394	0.0385	0.0373	0.0362	0.034	0.0321	0.0309	0.0306	0.0365	0.0428	0.0306
18	0.0309	0.0328	0.0344	0.0362	0.0373	0.0394	0.0414	0.0431	0.0454	0.0464	0.0466	0.0463	0.045	0.0441	0.0434	0.0434	0.0435	0.0437	0.043	0.0417	0.0411	0.0414	0.0416	0.0412	0.0414	0.0466	0.0309
19	0.04	0.0385	0.037	0.0365	0.0368	0.0369	0.0369	0.0369	0.0378	0.0391	0.0403	0.0415	0.0424	0.0435	0.0447	0.0458	0.0463	0.0464	0.0464	0.0464	0.0463	0.0454	0.0438	0.0413	0.0415	0.0464	0.0365
20	0.0392	0.038	0.0369	--	--	--	--	--	--	--	--	--	--	0.0525	0.0528	0.053	0.0529	0.0526	0.0522	0.0518	0.0505	0.0489	0.0476	0.0457	--	--	--
21	0.0433	0.0419	0.0413	0.0403	0.0388	0.0376	0.0367	0.0362	0.0363	0.0367	0.0368	0.0361	0.0356	0.0358	0.0366	0.0372	0.0382	0.0395	0.0404	0.0406	0.0406	0.0405	0.04	0.0393	0.0386	0.0433	0.0356
22	0.0386	0.0372	0.0358	0.035	0.0347	0.0346	0.035	0.0356	0.0364	0.0375	0.0387	0.0397	0.0405	0.0412	0.0417	0.0421	0.0424	0.0424	0.0425	0.0428	0.0427	0.0418	0.0419	0.0424	0.0393	0.0428	0.0346
23	0.0437	0.0448	0.0461	0.0469	0.0476	0.049	0.0512	0.0524	0.0533	0.0534	0.0535	0.0538	0.0543	0.0546	0.054	0.0527	0.0508	0.0498	0.0486	0.0474	0.0462	0.0452	0.0437	0.0428	0.0494	0.0546	0.0428
24	0.0434	0.0451	0.0461	0.0472	0.0484	0.0494	0.0504	0.0521	0.0542	0.0556	0.0569	0.0582	0.0594	0.0604	0.0614	0.0618	0.0607	0.0592	0.0577	0.0548	0.0511	0.0482	0.0451	0.0428	0.0529	0.0618	0.0428
25	0.0417	0.0421	0.0432	0.0443	0.0462	0.049	0.0513	0.054	0.0562	0.0576	0.059	0.06	0.0605	0.059	0.0585	0.0573	0.0567	0.0546	0.0516	0.0499	0.0478	0.0457	0.0458	0.0452	0.0515	0.0605	0.0417
26	0.0457	0.0456	0.0473	0.0501	0.0512	0.0531	0.0555	0.0575	0.0592	0.0606	0.0621	0.0631	0.0627	0.0624	0.0619	0.0607	0.06	0.0592	0.0568	0.0541	0.0522	0.0521	0.0512	0.0495	0.0556	0.0631	0.0456
27	0.0497	0.0496	0.0496	0.0503	0.051	0.0515	0.0513	0.0522	0.0542	0.0552	0.0564	0.0574	0.0588	0.0588	0.0585	0.0581	0.0571	0.0552	0.0527	0.0504	0.0471	0.0444	0.0434	0.0425	0.0523	0.0588	0.0425
28	0.0412	0.0403	0.0399	0.04	--	--	--	--	--	--	--	--	--	0.0523	0.052	0.0516	0.0506	0.0486	0.0461	0.0434	0.0402	0.0372	0.0348	0.0329	--	--	--
29	0.0312	0.0303	0.0305	0.0314	0.0326	0.0339	0.0354	0.0372	0.0395	0.0417	0.0441	0.0459	0.0466	0.0468	0.0463	0.046	0.0454	0.0447	0.0424	0.0399	0.0375	0.0357	0.0343	0.0333	0.0389	0.0468	0.0303
30	0.0325	0.0321	0.032	0.0333	0.0349	0.037	0.039	0.0411	0.0437	0.0458	0.0477	0.0495	0.0506	0.0502	0.0482	0.0472	0.0468	--	--	--	--	--	--	--	--	--	--
Avg	0.0394	0.0394	0.0398	0.0407	0.0416	0.0427	0.0441	0.0456	0.0474	0.0487	0.0499	0.0505	0.0515	0.0514	0.051	0.0503	0.0493	0.0482	0.0466	0.0451	0.0435	0.042	0.0408	0.0397	0.0453	--	--
Max	0.0497	0.0496	0.0496	0.0507	0.0522	0.0532	0.0555	0.0575	0.0592	0.0606	0.0621	0.0631	0.0679	0.0662	0.0637	0.0618	0.0607	0.0592	0.0577	0.0548	0.0525	0.0521	0.0512	0.0495	--	0.0679	--
Min	0.0291	0.0293	0.0295	0.0299	0.0305	0.0314	0.0326	0.0335	0.034	0.0342	0.0341	0.0336	0.0322	0.031	0.0301	0.0293	0.0287	0.0284	0.028	0.0279	0.028	0.0283	0.0287	0.0289	--	--	0.0279

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Jul 2017

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	-1.16	-1.25	-1.11	-0.982	-0.787	-0.977	3.6	4.77	0.32	-0.364	-0.319	-0.799	-1.15	-0.996	-0.829	-0.882	-0.941	-0.76	-1.04	-0.899	-1.29	-0.874	0.38	0.295	-0.335	4.77	-1.29
2	-0.075	-0.672	-1.05	-0.87	0.765	-1.31	-0.429	-1.08	-1.07	-1.01	-0.991	-0.99	-0.857	-0.852	-0.74	-0.659	-0.86	-1.05	-0.904	-1	-0.795	-0.674	3.58	-0.885	-0.604	3.58	-1.31
3	-0.362	0.843	0.62	-0.131	-0.496	-0.107	0.209	-0.299	-0.078	-0.144	-0.209	-0.077	-0.186	-0.115	-0.024	-0.114	-0.265	-0.359	-0.429	-0.733	-0.452	-0.142	0.246	-0.061	-0.119	0.843	-0.733
4	-0.22	-0.35	-0.539	-0.371	0.354	0.135	-0.351	-0.066	0.066	-0.1	-0.351	-0.436	-0.484	-0.391	-0.617	-0.579	-0.404	-0.393	-0.553	-0.572	-0.353	-0.034	0.209	-0.073	-0.27	0.354	-0.617
5	-0.316	-0.559	-0.79	-0.809	-0.737	-0.586	-0.263	-0.28	-0.22	-0.26	-0.309	-0.428	-0.189	-0.222	0.078	0.106	-0.06	-0.255	-0.311	-0.043	0.814	0.225	0.05	-0.373	-0.239	0.814	-0.809
6	-0.801	-0.122	2.45	2.49	-0.459	-0.615	-0.239	-0.058	-0.006	0.312	--	--	--	--	0.795	-0.109	-0.356	-0.569	-0.286	-0.056	1.2	0.884	0.347	0.856	0.283	2.49	-0.801
7	1.65	1.31	1.04	0.757	1.93	1.51	0.343	0.684	1.73	1.34	1.87	1.27	0.894	1.3	0.704	-0.097	0.898	-0.181	-0.525	-0.157	2.02	0.006	0.331	0.345	0.874	2.02	-0.525
8	-0.237	0.081	-0.1	0.315	-0.266	-0.02	0.568	-0.027	0.561	0.686	-0.007	-0.065	0.458	0.072	-0.254	0.251	0.346	-0.112	-0.582	-0.39	-0.53	-0.356	1.41	0.966	0.116	1.41	-0.582
9	0.457	0.169	-0.039	0.042	0.294	0.037	0.529	0.931	0.582	0.814	0.596	0.421	0.41	0.142	-0.023	-0.105	-0.476	-0.44	-0.2	-0.231	-0.277	-0.365	0.002	1.95	0.218	1.95	-0.476
10	0.656	0.085	0.619	0.929	0.793	0.512	1.9	3.53	1.4	0.887	0.163	0.182	0.208	0.05	0.383	0.088	0.248	0.441	0.114	-0.057	0.443	0.204	-0.181	-0.526	0.544	3.53	-0.526
11	0.178	2.25	4.55	3.8	3.95	4.15	2.03	2.36	3.62	5.67	3.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.364	4.58	--	0.051	--	--	--
14	2.09	-0.483	--	0.38	9.58	3.95	5.62	0.496	--	--	--	--	--	--	--	--	--	--	2.91	2.96	4.57	5.12	3.15	5.83	--	--	--
15	5.47	1.38	2.9	4.28	-0.269	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.71	1.92	--	-0.789	-0.502	--	--	--
16	-0.371	1.14	2.52	1.58	--	-1.07	-0.355	-1.28	--	--	--	--	--	--	--	--	--	--	--	1.9	0.123	--	1.43	--	--	--	--
17	--	--	--	-0.339	--	--	0.092	2.39	--	--	--	--	--	--	1.1	0.932	0.054	-0.361	-0.367	-0.3	0.867	1.3	0.828	0.086	--	--	--
18	2.85	1.99	1.44	1.49	7.99	0.76	0.786	0.647	0.666	0.71	0.318	-0.115	0.019	0.072	-0.036	-0.477	-0.25	0.222	1.74	1.27	1.55	1.54	2.54	0.627	1.18	7.99	-0.477
19	3.95	3.21	2.92	2.53	3.46	0.429	1.63	1.56	0.572	0.604	0.447	0.289	0.251	-0.096	-0.436	-0.844	-0.393	-0.411	-0.394	-0.073	0.311	1.52	2.49	0.16	0.987	3.95	-0.844
20	-0.321	1.02	0.167	0.773	-0.485	2.26	0.358	0.602	0.077	0.461	0.145	0.243	-0.025	-0.112	-0.2	-0.433	-0.438	0.291	0.345	-0.77	-0.714	-0.454	-0.336	1.55	0.167	2.26	-0.77
21	1.67	-0.39	1.28	0.865	0.185	0.836	2.44	0.938	-0.195	0.037	-0.022	-0.095	-0.15	-0.249	-0.378	-0.509	-0.647	-0.807	0.341	0.942	1.77	2.27	4.5	1.78	0.684	4.5	-0.807
22	1.06	4.56	0.284	2.15	5.67	1.34	2.36	1.42	0.683	0.095	-0.184	-0.305	-0.313	-0.307	-0.334	-0.528	-0.713	0.113	-0.118	1.17	1.27	-0.218	-0.18	0.982	0.832	5.67	-0.713
23	-0.207	0.456	0.816	2.23	0.617	4.52	2.03	0.766	0.319	0.145	-0.338	0.288	0.271	-0.039	-0.188	-0.349	-0.664	-0.508	-0.931	-0.666	-0.133	0.665	1.39	1.1	0.483	4.52	-0.931
24	0.008	0.028	0.541	0	-0.041	1.21	1.22	0.845	-0.268	0.166	-0.247	0.474	-0.101	-0.247	-0.256	-0.397	-0.036	-0.093	-0.351	0.228	0.653	0.367	-0.069	2.9	0.272	2.9	-0.397
25	2.99	1.73	5.65	1.97	2.69	2.63	2.54	1.12	-0.189	-0.02	-0.446	-0.363	0.837	-0.536	-0.392	-0.556	-0.665	-0.75	-1.01	-1.04	-0.46	2.44	0.74	-0.189	0.779	5.65	-1.04
26	2.66	0.627	0.021	-0.233	1.79	2.42	3.15	1.59	0.182	--	--	--	1.14	0.109	-0.584	-0.999	-1.3	-1.54	-1.54	-1.33	-0.786	-0.745	-0.67	-0.508	0.164	3.15	-1.54
27	-0.917	--	-1.76	-1.41	-1.75	0.563	4.78	2.61	0.293	0.292	-0.287	-0.868	-0.902	-0.923	-0.984	--	--	--	--	--	-1.1	-0.673	-0.21	1.08	-0.121	4.78	-1.76
28	5.07	-0.671	-1.32	-0.753	0.81	-1.33	-0.652	6.85	0.747	0.116	-0.271	-0.418	-0.612	-0.694	-0.807	-0.997	-1.12	-1.16	-1.41	-1.59	-0.87	-0.46	3.21	3.03	0.196	6.85	-1.59
29	0.472	1.12	-0.296	2.79	1.91	2.98	0.83	0.88	0.293	-0.714	-1.01	-1.09	-0.825	-1.37	-1.32	-1.14	-1.41	-1.82	-1.7	-1.8	-1.74	-1.57	-0.841	-1.38	-0.365	2.98	-1.82
30	-1.39	-1.46	-0.443	-0.885	-0.691	0.368	-0.815	-0.533	-0.064	0.368	-0.069	-0.423	-0.584	-0.872	-0.971	-1.35	0.916	-0.941	-1.52	-0.535	-0.474	1.18	3.8	-0.254	-0.318	3.8	-1.52
31	3.91	5.93	2.06	5.28	7.93	2.97	4.53	1.79	0.276	1.44	0.143	-0.194	-0.777	-0.852	-0.937	-0.799	-0.963	-1.46	-1.71	-0.984	-0.98	-0.942	-1.03	1.52	1.09	7.93	-1.71
Avg	1.03	0.814	0.831	0.961	1.66	1.02	1.37	1.18	0.412	0.48	0.0713	-0.159	-0.116	-0.31	-0.29	-0.439	-0.396	-0.538	-0.418	0.0726	0.239	0.548	0.94	0.727	0.442	--	--
Max	5.47	5.93	5.65	5.28	9.58	4.52	5.62	6.85	3.62	5.67	3.02	1.27	1.14	1.3	1.1	0.932	0.916	0.441	2.91	6.71	4.57	5.12	4.5	5.83	--	9.58	--
Min	-1.39	-1.46	-1.76	-1.41	-1.75	-1.33	-0.815	-1.28	-1.07	-1.01	-1.01	-1.09	-1.15	-1.37	-1.32	-1.35	-1.41	-1.82	-1.71	-1.8	-1.74	-1.57	-1.03	-1.38	--	--	-1.82

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Aug 2017

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	0.34	1.68	2.9	-0.332	-0.818	-0.903	-0.69	-0.925	-1.01	-1.05	-0.802	-0.352	-0.399	-0.815	-1.01	-1.11	-1.27	-0.957	-1.09	1.11	-1.11	-1.01	-1.57	-1.73	-0.539	2.9	-1.73
2	-0.992	-1.09	-0.172	-1.34	-1.46	-0.441	-1.73	-1.56	-0.913	-0.491	7.01	3.84	-0.13	4.64	4.14	2.75	1.55	1.74	0.837	-0.178	0.001	0.61	1.73	2.23	0.858	7.01	-1.73
3	5.53	5.6	4.2	2.56	4.27	5.27	5	6.49	2.62	1.28	2.15	0.243	0.569	0.769	0.184	2.04	1.84	2.62	0.599	-0.212	0.226	3.06	0.672	1.91	2.48	6.49	-0.212
4	4.34	4.12	0.393	-0.06	0.734	1.86	5.03	2.01	2.07	0.218	0.203	-0.128	-0.105	-0.14	-0.374	-0.596	-0.596	-0.791	-0.859	-0.86	2.22	2.99	5.04	10.6	1.56	10.6	-0.86
5	0.664	-0.269	3.67	2.61	0.268	-0.861	4.52	2.22	1.58	0.24	-0.21	-0.495	-0.271	-0.537	-0.596	-0.72	-0.804	-0.958	-0.851	-0.812	-0.77	4.78	3.2	6.14	0.906	6.14	-0.958
6	-0.31	0.123	1.61	2.1	-1.28	0.13	3.46	1.97	-0.49	-0.785	-0.753	-0.954	-0.79	-0.895	-1.03	-1.12	-1	-1.22	-1.21	-1.25	1.64	4.24	2.51	1.77	0.27	4.24	-1.28
7	0.136	6.07	1.39	7.75	6.79	11.2	9.26	5.84	1.13	-0.171	-0.2	-0.589	-0.52	-0.737	-0.513	-0.956	-0.693	-0.653	-1.24	-0.485	5.24	7.96	1.16	-0.451	2.36	11.2	-1.24
8	2.06	0.931	-0.245	-0.45	-0.62	5.08	2.23	3.63	--	--	--	2.51	0.246	-0.428	-0.439	-0.52	-0.734	-0.77	-0.777	-0.7	-0.875	7.36	7.29	3.42	1.34	7.36	-0.875
9	2.72	0.25	-0.635	-0.124	0.452	2.95	11.4	5.87	4.77	5.28	1.46	1.18	--	0.232	0.536	1.6	-0.365	--	-0.784	-0.561	-0.515	3.32	4.46	2.48	2.09	11.4	-0.784
10	0.763	9.96	2.01	2.51	2.87	2.66	1.87	1.25	0.984	1.03	--	0.674	1.23	0.369	0.021	1.54	-0.047	-0.687	-0.854	1.17	0.408	1.28	1.11	3.59	1.55	9.96	-0.854
11	0.759	1.17	1.26	-0.653	-0.174	0.619	2.36	0.794	0.095	-0.026	0.094	-0.025	-0.097	0.315	0.474	-0.363	-0.263	-0.604	-0.934	-0.925	-0.932	-0.546	3	0.675	0.253	3	-0.934
12	0.763	3.27	5.69	3.62	1.5	0.536	0.65	1.21	1.83	0.67	0.772	0.769	1.65	1.27	0.501	0.549	-0.017	-0.218	-0.342	-0.499	0.967	3.57	4.29	5.42	1.6	5.69	-0.499
13	-0.772	2.02	0.401	0.317	1.03	0.975	0.421	0.817	3.97	6.59	0.217	0.212	0.408	0.233	0.435	--	--	--	-0.761	-0.29	-0.267	-0.072	-0.023	7.88	1.13	7.88	-0.772
14	2.47	1.38	1.1	0.009	-0.004	0.444	-0.051	0.058	0.407	--	--	--	--	0.63	-0.176	-0.545	-0.525	-0.988	-1.06	-1.01	0.97	1.68	1.89	3.16	0.491	3.16	-1.06
15	1	-0.917	-1.07	-1.08	-1.09	-0.876	-0.489	-0.714	-0.166	-0.579	-0.553	-0.648	-0.03	0.052	-0.584	-0.856	-0.697	-1.1	-1.18	-0.965	-0.748	-0.701	3.52	1.66	-0.368	3.52	-1.18
16	10	6.4	2.75	11.8	11.2	13.4	6.44	6.68	1.98	-0.798	-0.043	-0.744	-0.701	-0.838	-0.724	-0.943	-1.1	-1.09	-1.34	-1.31	-1.24	2.8	1.32	-1.13	2.62	13.4	-1.34
17	-1.29	-1.42	2.06	-1.34	3.76	-0.748	-0.305	1.65	0.316	-0.694	-0.456	-0.277	-0.856	-0.984	-1.04	-1.07	-0.976	-1.27	-1.39	-1.62	0.49	11.2	24.3	5.78	1.41	24.3	-1.62
18	4.32	4.85	6.73	-0.104	1.37	2.09	-0.524	1.01	1.73	0.601	-0.017	-0.882	-0.575	-0.434	-0.886	-1.08	-1.14	-1.17	-1.14	-0.993	-0.841	-1.09	-1.02	-1.1	0.405	6.73	-1.17
19	-1.04	-1.47	7.82	-1.3	-0.252	-0.12	9.39	-0.307	-0.569	-0.304	-0.766	-1.04	-0.919	-0.992	-1.01	-0.979	-0.816	-0.612	-0.61	-1.02	-0.98	0.091	1.12	7.21	0.439	9.39	-1.47
20	5.61	5.57	11.6	10.6	11.9	1.17	2.52	0.68	1.04	1.51	0.59	0.168	-0.742	-0.795	-0.875	-1.04	-1.2	-1.25	-1.41	-0.908	-0.421	-0.873	1.41	2.8	1.99	11.9	-1.41
21	2.35	1.91	0.372	1.58	2.9	5.05	8.8	2.37	0.385	-0.044	-0.581	-0.46	-0.476	-0.507	-0.537	-0.347	-0.755	-0.699	-0.761	-0.615	-0.201	0	2.6	16.4	1.61	16.4	-0.761
22	8.39	6.46	3.59	2.62	5.47	8.67	2.21	1.25	0.539	0.454	0.289	0.113	0.206	0.157	-0.171	-0.614	-0.842	-1.11	-1.32	-1.1	-1.13	-0.96	-0.55	5.63	1.59	8.67	-1.32
23	8.59	8.13	11.5	10.8	7.12	16.4	19.4	12.7	4.78	1.03	0.079	0.007	0.003	-0.218	-0.309	-0.363	-0.976	-0.72	-0.378	0.597	1.89	-0.224	-0.555	-0.36	4.12	19.4	-0.976
24	-0.492	0.265	-0.192	-0.478	0	0.104	0.617	1.49	0.72	0.113	-0.265	-0.297	0.371	-0.211	-0.409	-0.196	-0.718	-0.982	-0.913	-1.21	-1	-0.006	4.45	0.544	0.054	4.45	-1.21
25	6.33	5.14	10.4	5.44	6.02	12.4	4.71	6.86	1.9	1.85	2.46	1.09	0.686	1.19	-0.006	-0.029	-0.163	-0.36	-0.32	-0.077	0.827	2.41	1.57	6.94	3.22	12.4	-0.36
26	10.4	2.62	5.03	11.6	10.4	9.83	0.248	0.209	0.44	0.468	0.699	0.589	0.488	0.276	0.116	-0.318	-0.381	0.762	0.398	1.85	-0.119	0.083	0.923	2.11	2.45	11.6	-0.381
27	1	0.545	-0.213	-0.05	0.391	0.166	-0.102	0.408	0.271	0.762	0.85	0.519	0.703	0.533	0.267	0.185	-0.013	1.47	-0.148	3.31	18.2	7.07	3.2	0.433	1.65	18.2	-0.213
28	1.65	0.195	0.705	0.641	1.31	3.88	2.26	2.02	--	--	--	--	--	--	1.52	0.867	-0.143	-0.475	-0.493	-0.525	-0.164	-0.013	1.62	0.592	0.859	3.88	-0.525
29	-0.281	-0.169	-0.193	-0.063	0.81	0.56	0.783	1.2	--	--	--	--	1.54	0.582	0.648	0.264	0.102	0.084	0.167	0.546	0.462	-0.265	3.31	-0.011	0.504	3.31	-0.281
30	-0.526	-0.569	0.831	-0.511	0.083	--	0.294	1.01	1.57	0.48	1.26	0.315	1.73	1.87	0.891	0.406	-0.386	-0.338	-0.505	0.337	2.37	7.41	1.79	0.22	0.871	7.41	-0.569
31	0.985	-0.707	4.82	-0.091	0.347	0.379	0.897	2.12	0.855	0.359	1.93	0.942	0.341	-0.082	-0.145	0.976	0.538	-0.277	-0.359	2.24	4.61	7.03	5.08	2.54	1.47	7.03	-0.707
Avg	2.43	2.32	2.91	2.21	2.43	3.39	3.25	2.27	1.17	0.666	0.593	0.224	0.127	0.15	-0.036	-0.086	-0.42	-0.435	-0.679	-0.224	0.941	2.36	2.87	3.14	1.34	--	--
Max	10.4	9.96	11.6	11.8	11.9	16.4	19.4	12.7	4.78	6.59	7.01	3.84	1.73	4.64	4.14	2.75	1.84	2.62	0.837	3.31	18.2	11.2	24.3	16.4	--	24.3	--
Min	-1.29	-1.47	-1.07	-1.34	-1.46	-0.903	-1.73	-1.56	-1.01	-1.05	-0.802	-1.04	-0.919	-0.992	-1.04	-1.12	-1.27	-1.27	-1.41	-1.62	-1.24	-1.09	-1.57	-1.73	--	--	-1.73

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, NO2_ppb"
Month: Sep 2017

Hour of Day

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Avg	Max	Min
1	1.8	3.5	3.64	3.24	0.597	0.481	6.33	3.02	4.38	6.77	2.59	0.566	2.06	1.46	-0.034	0.571	0.696	1.89	0.527	4.68	6.14	6.64	2.06	1.03	2.69	6.77	-0.034
2	2.65	0.998	14.6	4.47	1.57	4.61	6.86	1.99	0.911	0.117	-0.179	1.06	0.233	0.224	0.033	0.033	0.641	3	1.15	-0.578	-0.47	-0.402	-0.309	1.08	1.84	14.6	-0.578
3	1.15	0.066	1.67	1.04	0.544	0.598	1.87	3.38	1.7	1.28	1.1	-0.028	0.145	-0.174	-0.179	-0.177	-0.225	-0.449	-0.417	-0.489	-0.59	-0.608	-0.191	0.333	0.474	3.38	-0.608
4	0.653	1.16	1.66	4.08	1.29	0.413	1.94	3.54	2.15	1.15	1.18	0.752	0.444	0.156	0.036	0.029	-0.11	-0.125	0.146	0.413	-0.072	0.203	0.449	6.13	1.15	6.13	-0.125
5	2.71	2.66	3.98	4.3	2.56	3.62	3.95	1.82	0.8	1.25	0.22	0.316	0.2	0.508	0.796	0.462	-0.107	-0.504	0.182	1.22	-0.035	-0.015	1.96	3.47	1.51	4.3	-0.504
6	3.69	3.45	5.75	2.4	1.63	1.49	1.21	1.2	0.683	0.981	0.664	0.184	0.285	0.514	0.238	0.113	-0.094	-0.149	0.941	0.507	0.478	5.47	7.52	4.62	1.82	7.52	-0.149
7	4.25	1.72	1.58	0.769	0.493	1.5	1	4.34	0.845	1.84	0.087	0.478	0.667	0.493	0.325	0.034	-0.266	-0.434	-0.209	-0.231	-0.405	-0.254	0.026	2.98	0.901	4.34	-0.434
8	2.36	2.19	1.83	2.65	1.76	3.08	1.92	1.18	1.81	--	--	1.74	0.911	0.515	0.653	0.592	0.44	0.438	1.8	-0.048	0.166	1.69	4.05	5.61	1.7	5.61	-0.048
9	4.94	0.664	0.847	0.781	0.7	4.04	5.02	6.38	2.56	0.861	0.897	1.53	1.53	1.13	1	0.592	0.576	0.15	0.2	0.225	0.787	5.86	6.11	6.92	2.26	6.92	0.15
10	4.89	7.01	1.99	2.73	2.2	1.84	1.2	1.38	0.384	0.924	0.709	0.693	1.13	0.634	0.39	0.187	-0.333	-0.171	0.444	1.75	1.32	0.773	1.32	1.11	1.44	7.01	-0.333
11	0.521	1.31	1.54	0.685	0.819	0.266	0.503	0.508	0.806	2.51	0.361	1.45	0.524	0.264	0.637	0.625	0.478	2.48	0.065	-0.289	4.8	6.81	2.41	5.25	1.47	6.81	-0.289
12	2.8	2.73	2.58	1.4	1.56	0.56	0.364	0.243	0.652	3.26	0.68	0.002	0.456	0.212	0.051	0.121	-0.186	-0.444	-0.381	0.032	0.182	1.17	1.11	1.48	0.859	3.26	-0.444
13	3.57	4.33	7.89	9.46	11.7	9.79	8.81	12.3	--	--	--	1.17	0.236	-0.007	-0.163	-0.229	-0.036	0.033	-0.675	-0.328	-0.36	-0.157	0.182	1.88	3.31	12.3	-0.675
14	-0.368	-0.387	-0.506	-0.67	-0.985	-0.653	-0.443	0.022	-0.333	-0.214	-0.122	0.078	-0.179	-0.359	-0.716	-0.908	-0.613	-0.598	-1.13	-1.14	-1.11	-0.964	-0.98	-0.948	-0.593	0.078	-1.14
15	-1.2	-1.17	-1.06	-1.22	-1.09	-1.02	-0.997	-0.462	-0.409	-0.058	-0.318	-0.609	-0.656	-0.608	-0.507	-0.668	-0.543	-0.806	-1.04	-0.851	-0.648	-0.795	-0.927	-0.314	-0.749	-0.058	-1.22
16	-0.807	-0.933	-0.881	-1.04	-0.79	-0.496	1.36	2.12	-0.693	-0.552	0.222	0.029	-0.099	-0.394	-0.593	-0.306	-0.88	-0.788	-0.886	-0.9	-0.055	3.03	0.606	3.58	-0.006	3.58	-1.04
17	7.67	0.483	-0.058	0.704	4.36	11.6	6.75	9	2.48	0.14	-0.35	-0.385	-0.352	-0.41	-0.7	0.009	-0.825	-1	-0.874	-0.217	-0.457	3.1	13.8	6.14	2.52	13.8	-1
18	13.1	6.75	9.53	4.01	14.4	12.6	10.2	13.1	6.48	1.87	1.02	-0.48	-0.426	-0.676	-0.55	-0.734	-0.744	-0.917	-1.03	-0.403	2.15	1.56	0.017	-0.421	3.77	14.4	-1.03
19	-0.457	-0.345	-0.001	-1.04	-1.24	-0.586	-0.996	-0.88	-0.576	-0.552	-0.587	-0.436	-0.554	-0.57	-0.732	-0.719	-0.819	-0.887	-1.19	-1.09	-1.17	-1.05	-1.19	-1.13	-0.784	-0.001	-1.24
20	-1.21	-1.12	-1.32	-1.04	-0.633	1.19	2.84	--	--	--	--	--	-0.014	-0.534	-0.679	-0.902	-1.08	-1.16	-1.01	-1.21	-1.29	-1.14	-1.05	-1.16	-0.659	2.84	-1.32
21	-1.36	-1.24	-1.3	-1.15	-0.955	-0.856	1.96	1.8	-0.351	-0.597	-0.712	-0.651	-0.673	-0.764	-0.933	-0.846	-0.989	-1.19	-1.11	-1.12	-1.08	-0.616	-0.72	-0.983	-0.685	1.96	-1.36
22	-1.18	-1.4	-1.33	-1.23	-1.27	-1.1	-1.12	-0.717	-0.48	-0.432	-0.675	-0.737	-0.763	-0.805	-0.717	-0.834	-0.781	-0.554	-0.883	-0.67	0.275	0.589	0.34	0.421	-0.669	0.589	-1.4
23	0.687	1.25	1.21	0.495	1.09	5	2.12	-0.133	-0.817	-0.751	-0.761	-1.05	-0.933	-0.791	-0.656	-0.618	-0.73	-0.618	-0.783	-0.864	-0.607	-0.278	6.03	10.9	0.767	10.9	-1.05
24	9.51	0.062	0.271	0.945	0.075	-0.599	5	5.13	2.67	-0.449	-0.686	-0.514	-0.737	-0.679	-0.781	-0.791	-0.701	-0.785	-0.479	-0.005	0.031	-0.087	-0.289	0.668	0.699	9.51	-0.791
25	8.26	8.5	5.2	11.1	17.7	11.1	12.5	5.72	1.03	1.7	0.288	0.607	-0.162	-0.397	-0.439	-0.398	-0.821	-0.893	-0.759	-0.625	-0.122	11	5.95	11.2	4.47	17.7	-0.893
26	4.75	12.2	21.7	9.34	12.6	14.2	7.65	3.04	1.4	3.41	4.03	0.313	0.152	-0.392	-0.288	-0.644	-0.623	-0.386	-0.274	0.007	4.47	2.65	0.66	0.938	4.21	21.7	-0.644
27	0.8	0.181	6.07	4.09	2.12	-0.324	2.33	8.04	0.779	0.791	0.096	-0.134	-0.455	-0.461	-0.596	-0.525	-0.593	-0.613	-0.427	1.13	1.56	7.4	6.73	4.61	1.78	8.04	-0.613
28	5.88	6.79	8.26	0.709	12.3	7.51	2.62	0.63	0.89	--	--	--	1.02	1.47	0.416	-0.093	-0.303	-0.52	-0.346	-0.173	0.275	3.93	6.81	6.01	3.05	12.3	-0.52
29	1.09	0.48	0.516	0.439	0.766	1.03	1.25	1.56	0.855	2.59	2.27	1.03	1.09	0.018	0.026	-0.288	-0.285	-0.428	-0.472	0.278	2.07	5.2	6.36	4.35	1.32	6.36	-0.472
30	8.88	4.54	9.56	7.05	4.51	1.2	0.894	0.901	0.725	0.941	2.05	1.16	0.128	-0.14	-0.357	-0.716	-0.738	-1.04	-0.9	-0.803	-0.49	8.77	20.5	10.7	3.22	20.5	-1.04
Avg	3	2.21	3.51	2.32	3.02	3.07	3.16	3.11	1.12	1.11	0.541	0.291	0.173	-0.019	-0.167	-0.234	-0.353	-0.249	-0.327	-0.06	0.524	2.32	2.98	3.22	1.44	--	--
Max	13.1	12.2	21.7	11.1	17.7	14.2	12.5	13.1	6.48	6.77	4.03	1.74	2.06	1.47	1	0.625	0.696	3	1.8	4.68	6.14	11	20.5	11.2	--	21.7	--
Min	-1.36	-1.4	-1.33	-1.23	-1.27	-1.1	-1.12	-0.88	-0.817	-0.751	-0.761	-1.05	-0.933	-0.805	-0.933	-0.908	-1.08	-1.19	-1.19	-1.21	-1.29	-1.14	-1.19	-1.16	--	--	-1.4

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Jul 2017

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	0.41	0.39	0.38	0.38	0.39	0.37	0.36	0.31	0.34	0.38	0.43	0.41	0.37	0.38	0.39	0.41	0.44	0.37	0.39	0.39	0.38	0.38	0.40	0.40	0.38	0.44	0.31
2	0.39	0.39	0.37	0.35	0.36	0.31	0.28	0.25	0.29	0.26	0.30	0.28	0.32	0.32	0.35	0.36	0.38	0.37	0.39	0.39	0.42	0.38	0.37	0.39	0.34	0.42	0.25
3	0.39	0.40	0.41	0.37	0.37	0.38	0.30	0.29	0.34	0.32	0.36	0.41	0.38	0.42	0.37	0.44	0.42	0.44	0.35	0.37	0.43	0.38	0.39	0.41	0.38	0.44	0.29
4	0.40	0.43	0.44	0.40	0.43	0.37	0.41	0.40	0.38	0.40	0.39	0.36	0.36	0.40	0.44	0.51	0.52	0.49	0.50	0.47	0.51	0.52	0.52	0.52	0.44	0.52	0.36
5	0.53	0.62	0.54	0.49	0.45	0.39	0.37	0.30	0.34	0.37	0.43	0.48	0.50	0.49	0.46	0.52	0.55	0.53	0.51	0.51	0.53	0.50	0.48	0.45	0.47	0.62	0.30
6	0.46	0.41	0.43	0.45	0.46	0.36	0.34	0.33	0.38	0.36	0.41	0.40	0.47	--	--	0.47	0.53	0.51	0.53	0.53	0.51	0.53	0.45	0.29	0.44	0.53	0.29
7	0.47	0.44	0.70	1.82	1.87	1.42	0.58	0.50	0.40	0.29	0.39	0.46	0.46	0.43	0.49	0.47	0.47	0.52	0.52	0.48	0.45	1.26	0.32	1.99	0.72	1.99	0.29
8	0.86	0.45	0.47	0.45	0.45	0.46	0.40	0.36	0.37	0.39	0.44	0.40	0.48	0.47	0.47	0.50	0.49	0.49	0.50	0.46	0.46	0.42	0.40	0.43	0.46	0.86	0.36
9	0.39	0.40	0.38	0.38	0.41	0.39	0.40	0.40	0.37	0.37	0.36	0.43	0.46	0.51	0.46	0.47	0.47	0.48	0.49	0.48	0.47	0.38	0.40	0.42	0.42	0.51	0.36
10	0.41	0.44	0.52	0.46	0.40	0.43	0.41	0.50	0.42	0.38	0.39	0.44	0.44	0.47	0.53	0.48	0.55	0.58	0.56	0.49	0.48	0.49	0.44	0.42	0.46	0.58	0.38
11	0.40	0.39	0.43	0.59	0.69	0.54	0.54	0.41	0.36	0.41	0.41	--	--	0.53	0.43	--	--	--	--	--	--	0.70	0.68	0.61	--	--	--
12	0.62	0.62	0.66	0.63	0.63	0.63	0.69	0.67	--	--	--	2.20	--	--	--	--	--	--	0.35	--	0.35	0.24	0.21	0.15	--	--	--
13	0.13	0.08	0.10	0.11	0.07	0.03	-0.03	0.12	0.07	0.02	0.06	0.05	0.13	0.14	0.13	0.17	0.24	0.16	0.27	0.21	0.17	0.28	0.03	0.01	0.11	0.28	-0.03
14	-0.03	-0.08	-0.04	-0.05	-0.07	-0.12	-0.07	0.80	0.07	-0.01	0.14	0.18	0.23	0.15	0.18	0.22	0.13	0.12	0.10	0.07	-0.02	0.08	0.17	0.26	0.10	0.80	-0.12
15	0.34	0.06	-0.01	0.01	0.18	0.17	0.10	0.31	0.21	0.14	0.02	0.05	0.12	0.11	0.17	0.16	-0.01	0.01	0.10	0.07	0.09	-0.06	-0.06	-0.04	0.09	0.34	-0.06
16	-0.07	-0.06	-0.02	0.03	0.94	0.78	0.32	0.21	0.23	0.34	0.16	0.16	0.12	0.13	0.21	0.21	0.23	0.08	0.05	0.04	-0.01	0.00	0.00	-0.07	0.17	0.94	-0.07
17	-0.07	-0.01	-0.10	-0.03	-0.06	-0.06	-0.05	-0.06	0.01	0.01	0.04	0.10	0.19	--	--	--	0.68	0.74	0.77	0.76	0.75	0.71	0.74	0.69	0.27	0.77	-0.10
18	0.70	0.69	0.66	0.66	0.71	0.66	0.66	0.61	0.63	0.65	0.68	0.67	0.68	0.73	0.74	0.72	0.69	0.74	0.76	0.69	0.65	0.65	0.66	0.72	0.68	0.76	0.61
19	0.70	0.69	0.98	1.03	1.09	1.26	2.23	2.16	1.25	1.41	1.37	1.01	1.02	0.91	0.92	0.84	0.84	0.85	0.77	0.78	0.77	0.72	0.63	0.82	1.04	2.23	0.63
20	0.70	0.66	0.79	1.07	0.87	1.26	2.26	1.61	1.85	1.21	0.78	0.77	0.80	0.78	0.89	0.84	0.87	0.81	0.86	0.81	0.73	0.74	0.73	0.70	0.97	2.26	0.66
21	0.67	0.67	0.72	0.73	0.63	0.66	0.72	0.70	0.44	0.84	0.84	0.88	0.91	0.91	0.90	0.88	0.81	0.84	0.65	0.67	0.82	1.03	1.69	1.21	0.83	1.69	0.44
22	1.03	1.18	1.13	0.97	0.94	0.94	0.95	0.94	0.93	0.84	0.92	0.91	0.87	0.89	0.82	0.89	0.82	0.87	0.80	0.80	0.79	0.76	0.93	0.92	0.91	1.18	0.76
23	0.91	0.94	0.88	0.89	0.84	0.85	0.85	0.86	0.92	0.86	0.86	0.87	0.86	0.99	0.96	0.98	0.94	1.27	0.90	0.84	0.86	0.84	0.84	0.85	0.90	1.27	0.84
24	0.83	0.89	0.87	0.82	0.75	0.80	0.74	0.82	0.81	0.78	0.80	0.81	0.75	0.79	0.78	0.75	0.75	0.76	0.81	0.86	0.80	0.78	0.76	0.78	0.80	0.89	0.74
25	0.80	0.73	0.54	0.69	0.72	0.80	0.81	0.73	0.71	0.70	0.69	0.80	0.94	0.99	1.01	0.88	0.85	0.76	0.78	0.84	0.78	0.80	0.78	0.77	0.79	1.01	0.54
26	0.77	0.74	0.79	0.73	0.75	0.70	0.72	0.77	0.76	0.80	0.74	--	--	0.74	0.81	0.77	0.81	0.82	0.83	0.81	0.81	0.81	0.83	0.79	0.78	0.83	0.70
27	0.87	--	0.84	0.84	0.81	0.80	0.77	0.81	0.87	0.89	0.87	0.83	0.86	0.88	0.91	--	--	--	--	0.57	0.69	0.93	0.72	0.78	0.82	0.93	0.57
28	1.22	0.91	0.83	0.78	0.77	0.79	0.72	0.74	0.73	0.80	0.75	0.76	0.78	0.78	0.76	0.80	0.82	0.82	0.83	0.67	0.79	0.80	0.81	0.79	0.80	1.22	0.67
29	0.82	0.84	0.83	0.78	0.78	0.77	0.77	0.84	0.85	0.83	0.79	0.82	0.86	0.80	0.88	0.87	0.89	0.85	0.87	0.83	0.80	0.80	0.71	0.76	0.82	0.89	0.71
30	0.79	0.78	0.80	0.81	0.80	0.79	0.79	0.76	0.76	0.78	0.76	0.74	0.83	0.80	0.84	0.85	0.88	0.76	0.80	0.84	0.81	0.83	0.91	0.90	0.81	0.91	0.74
31	0.82	0.84	1.09	0.90	0.78	0.84	0.96	1.59	1.66	1.40	1.61	1.33	1.16	1.02	0.98	0.98	1.05	0.96	0.87	0.94	1.06	1.05	0.97	1.28	1.09	1.66	0.78
Avg	0.57	0.53	0.56	0.60	0.62	0.61	0.62	0.65	0.59	0.57	0.57	0.62	0.58	0.61	0.62	0.61	0.61	0.61	0.58	0.57	0.57	0.60	0.58	0.63	0.60	--	--
Max	1.22	1.18	1.13	1.82	1.87	1.42	2.26	2.16	1.85	1.41	1.61	2.20	1.16	1.02	1.01	0.98	1.05	1.27	0.90	0.94	1.06	1.26	1.69	1.99	--	2.26	--
Min	-0.07	-0.08	-0.10	-0.05	-0.07	-0.12	-0.07	-0.06	0.01	-0.01	0.02	0.05	0.12	0.11	0.13	0.16	-0.01	0.01	0.05	0.04	-0.02	-0.06	-0.06	-0.07	--	--	-0.12

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Aug 2017

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	2.37	1.02	1.06	0.92	0.81	0.81	0.80	0.79	0.75	0.85	0.74	0.73	0.84	0.79	0.82	0.81	0.80	0.76	0.78	0.91	1.01	0.85	0.79	0.68	0.90	2.37	0.68
2	1.29	2.35	1.79	1.13	0.94	0.88	0.83	0.76	0.75	0.74	0.72	0.68	0.78	16.50	14.10	0.80	0.90	1.25	1.18	1.21	1.03	0.90	0.87	0.83	2.22	16.50	0.68
3	0.74	0.71	0.66	0.60	0.81	0.92	2.34	1.91	1.35	1.14	1.00	0.85	0.79	0.76	0.82	0.99	0.99	1.36	1.36	0.79	0.75	0.73	0.69	0.73	0.99	2.34	0.60
4	0.71	0.70	0.69	0.64	0.72	0.76	0.75	0.70	0.68	0.71	0.69	0.70	0.73	0.75	0.73	0.70	0.74	0.72	0.71	0.71	0.75	0.71	0.68	0.68	0.71	0.76	0.64
5	0.64	0.67	0.69	0.66	0.66	0.69	0.67	0.69	0.74	0.85	0.99	0.87	0.72	0.78	0.78	0.79	0.72	0.50	0.78	0.77	0.80	0.77	0.77	0.77	0.74	0.99	0.50
6	0.70	0.73	0.77	0.76	0.73	0.73	0.77	0.71	0.69	0.60	0.72	0.69	0.73	0.76	0.74	0.77	0.79	0.79	0.81	0.79	0.76	0.76	0.74	0.74	0.74	0.81	0.60
7	0.71	0.70	0.68	0.72	0.95	1.84	3.15	4.62	3.74	1.42	1.01	0.93	1.21	0.94	0.76	0.74	0.76	0.79	0.78	0.79	0.76	0.75	0.75	0.73	1.26	4.62	0.68
8	0.78	0.71	0.71	0.73	0.73	0.73	0.72	0.74	0.79	0.81	--	--	0.80	1.05	1.15	1.18	1.11	0.99	0.97	0.94	0.90	0.90	0.85	0.82	0.87	1.18	0.71
9	0.86	0.83	0.82	0.87	0.82	0.81	0.87	0.79	0.88	1.11	1.66	1.61	--	1.24	1.29	1.38	1.30	--	1.00	0.96	0.94	0.97	0.92	0.90	1.04	1.66	0.79
10	0.86	0.89	0.93	1.01	0.94	1.84	3.68	2.03	1.33	0.95	--	1.31	1.05	0.91	0.91	0.95	1.30	0.91	0.82	0.85	0.90	1.00	1.35	0.99	1.20	3.68	0.82
11	1.02	2.15	1.50	0.85	0.89	0.86	1.35	1.95	1.37	0.86	0.88	0.94	1.06	1.34	1.11	1.02	0.81	0.79	0.81	0.82	0.80	0.74	0.79	0.70	1.06	2.15	0.70
12	0.77	0.71	0.74	1.64	0.74	0.75	0.73	0.76	0.94	0.91	0.74	0.68	0.67	0.75	1.03	0.99	0.99	0.91	0.82	0.78	0.74	0.71	0.74	0.83	0.84	1.64	0.67
13	0.70	0.71	0.73	0.76	0.72	0.72	0.77	0.76	0.76	0.81	0.77	0.72	0.73	0.71	0.54	--	--	--	0.99	0.70	0.71	0.74	0.74	0.79	0.74	0.99	0.54
14	0.75	0.76	0.76	0.74	0.76	0.78	0.77	0.72	0.82	0.78	0.78	0.81	--	--	0.70	0.83	0.81	0.86	0.89	0.85	0.86	0.80	0.82	0.80	0.79	0.89	0.70
15	0.79	0.83	0.81	0.78	0.81	0.80	0.79	0.73	0.70	0.76	0.77	0.82	0.84	0.80	0.73	0.84	0.86	0.83	0.84	0.88	0.86	0.79	0.80	0.81	0.80	0.88	0.70
16	0.82	0.79	0.79	0.81	0.76	0.74	0.78	0.80	1.43	0.80	1.04	1.00	0.80	0.79	0.77	0.84	0.82	0.82	0.79	0.79	0.79	0.77	0.73	0.67	0.83	1.43	0.67
17	0.75	0.74	0.75	0.73	0.70	0.73	0.70	0.72	0.70	1.18	5.76	7.74	2.20	0.95	0.77	0.79	0.80	0.80	0.77	0.78	0.75	0.74	0.96	0.72	1.34	7.74	0.70
18	0.71	0.70	0.70	0.70	0.70	0.74	0.74	0.70	0.71	0.74	1.39	1.49	1.43	1.83	1.45	1.00	0.82	0.81	0.77	0.77	0.79	0.81	0.81	0.77	0.92	1.83	0.70
19	0.74	0.80	0.80	0.81	0.78	0.77	0.80	0.82	0.74	0.79	0.83	0.85	0.81	0.81	0.82	0.85	0.87	0.86	0.84	0.83	0.81	0.80	0.78	0.80	0.81	0.87	0.74
20	1.01	2.34	3.87	1.45	1.04	1.05	1.06	1.75	3.83	5.81	2.99	2.57	2.00	1.18	0.91	0.83	0.84	0.82	0.85	0.85	0.75	0.73	0.75	0.74	1.67	5.81	0.73
21	1.15	4.28	1.87	2.11	3.36	3.01	2.73	1.88	1.34	0.93	0.79	0.92	0.89	0.94	1.05	1.15	1.13	1.06	0.95	0.92	0.91	0.85	0.83	0.79	1.49	4.28	0.79
22	0.80	0.80	0.81	0.81	0.80	0.78	0.77	0.76	0.74	0.78	1.41	1.69	1.66	1.36	1.38	1.70	1.57	1.27	1.06	0.90	0.86	0.79	0.84	0.76	1.05	1.70	0.74
23	0.76	0.76	0.77	0.74	0.82	0.93	0.92	0.97	1.19	1.00	0.84	0.91	0.86	0.84	0.86	0.84	0.89	1.00	1.16	0.93	1.34	1.03	0.74	1.07	0.92	1.34	0.74
24	0.76	1.45	1.35	0.79	0.82	0.81	0.76	1.87	1.65	0.78	0.80	0.78	0.94	1.06	0.90	0.95	0.99	1.02	1.16	0.91	0.87	0.97	0.91	0.88	1.01	1.87	0.76
25	0.89	0.83	1.18	1.78	2.15	1.82	1.50	2.14	4.15	--	1.45	1.24	1.20	0.95	1.01	1.03	1.00	0.98	1.00	1.00	0.95	0.95	0.92	0.87	1.35	4.15	0.83
26	0.92	0.93	0.86	0.91	0.89	0.84	0.83	0.77	0.70	0.77	0.76	0.81	0.85	0.79	0.85	0.91	0.82	0.97	0.90	0.88	0.79	0.81	0.76	0.76	0.84	0.97	0.70
27	0.69	0.84	0.86	0.75	0.81	1.42	1.50	0.97	1.10	1.31	0.86	0.92	0.78	0.89	0.89	0.88	0.91	0.86	0.79	0.80	0.99	0.78	0.76	0.80	0.92	1.50	0.69
28	0.91	0.98	0.97	0.92	1.07	1.00	0.85	0.82	--	--	--	--	--	--	0.74	0.80	0.81	0.77	0.81	0.81	0.79	0.81	0.84	0.79	0.86	1.07	0.74
29	0.82	0.82	0.82	0.83	0.85	0.85	0.81	0.83	0.83	0.97	0.73	--	--	0.72	0.74	0.75	0.74	0.76	0.75	0.72	0.69	0.68	0.65	0.67	0.77	0.97	0.65
30	0.66	0.62	0.72	0.75	0.70	--	0.69	0.72	0.73	0.71	0.69	0.74	0.78	0.78	0.78	0.77	0.80	0.76	0.76	0.74	0.74	0.81	0.79	0.78	0.74	0.81	0.62
31	0.79	0.76	0.76	0.70	0.74	0.79	0.73	0.78	0.74	0.77	0.82	0.76	0.75	0.81	0.83	0.80	0.87	1.24	1.26	1.22	1.00	0.82	0.79	0.74	0.84	1.26	0.70
Avg	0.87	1.06	1.01	0.92	0.94	1.01	1.13	1.16	1.23	1.06	1.17	1.24	1.00	1.47	1.32	0.92	0.92	0.90	0.91	0.86	0.85	0.82	0.81	0.79	1.01	--	--
Max	2.37	4.28	3.87	2.11	3.36	3.01	3.68	4.62	4.15	5.81	5.76	7.74	2.20	16.50	14.10	1.70	1.57	1.36	1.36	1.22	1.34	1.03	1.35	1.07	--	16.50	--
Min	0.64	0.62	0.66	0.60	0.66	0.69	0.67	0.69	0.68	0.60	0.69	0.68	0.67	0.71	0.54	0.70	0.72	0.50	0.71	0.70	0.69	0.68	0.65	0.67	--	--	0.50

-- Indicates Invalid Data

SAROAD for Resolution, East_Plant
"Component, Channel: TableAmbient_Hourly, SO2_ppb"
Month: Sep 2017

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	0.76	1.46	1.11	0.83	0.86	0.83	0.85	1.46	2.75	2.03	2.14	0.98	0.84	0.88	0.86	0.87	0.88	0.84	0.88	0.84	0.83	0.74	0.79	0.72	1.08	2.75	0.72
2	0.45	1.61	1.31	1.24	0.92	0.77	0.88	0.96	0.81	0.88	0.83	0.99	2.07	3.88	1.95	2.09	1.60	1.05	0.97	0.84	1.01	0.90	0.77	0.73	1.23	3.88	0.45
3	0.73	0.71	0.66	0.69	0.69	0.66	0.63	0.64	2.55	3.03	1.21	1.05	1.09	1.08	1.17	1.44	1.46	1.37	1.14	0.87	0.83	0.78	0.77	0.77	1.08	3.03	0.63
4	0.72	0.70	0.72	0.69	0.74	0.74	0.76	0.79	0.74	0.73	0.72	0.79	0.81	0.79	0.84	0.88	0.87	0.78	0.83	0.83	0.85	0.84	0.82	0.81	0.78	0.88	0.69
5	0.78	0.86	0.81	0.82	0.93	1.03	2.13	1.89	1.76	1.84	1.26	1.00	1.07	1.68	1.74	1.95	1.47	1.31	1.13	1.25	0.76	0.72	0.87	0.90	1.25	2.13	0.72
6	0.99	1.40	1.36	1.23	1.22	1.10	1.01	0.82	0.80	0.82	0.82	0.83	0.86	0.85	0.97	1.47	1.08	0.92	0.88	1.01	0.91	0.85	0.83	0.79	0.99	1.47	0.79
7	0.76	0.77	0.72	0.80	0.82	0.76	0.80	0.87	3.61	4.79	1.65	1.84	2.31	2.13	1.50	1.08	1.12	0.96	0.77	0.77	0.75	0.73	0.73	0.78	1.33	4.79	0.72
8	0.72	0.72	0.78	1.33	0.85	0.81	1.06	2.53	3.04	3.05	--	--	1.79	1.11	0.91	0.91	0.94	0.85	0.95	0.79	0.79	0.79	0.73	1.04	1.20	3.05	0.72
9	1.10	1.01	0.82	1.00	1.20	0.93	0.83	0.83	0.83	0.82	0.85	0.85	0.87	0.87	0.90	0.90	0.86	0.87	0.89	0.87	0.85	0.83	0.80	0.81	0.89	1.20	0.80
10	0.87	3.30	2.88	3.14	3.00	4.07	3.44	3.22	2.42	1.89	0.88	0.82	0.85	0.85	0.81	0.87	0.88	0.85	0.84	0.83	0.83	0.88	0.87	0.84	1.67	4.07	0.81
11	0.87	0.87	0.88	0.84	0.94	1.04	1.03	0.90	0.90	0.96	0.88	0.89	0.82	0.88	0.91	0.99	1.01	1.12	1.14	0.96	1.02	1.35	1.04	1.00	0.97	1.35	0.82
12	1.01	0.93	1.27	4.47	2.77	1.34	1.00	0.94	0.93	1.00	0.98	0.94	1.18	1.52	1.72	1.52	1.31	1.10	1.10	1.14	1.09	1.14	1.05	0.94	1.35	4.47	0.93
13	0.99	0.97	0.88	0.93	0.89	0.85	0.89	0.97	0.89	0.87	--	--	0.65	0.74	0.74	0.77	0.78	0.77	0.77	0.82	0.78	0.73	0.71	0.70	0.82	0.99	0.65
14	0.69	0.71	0.67	0.64	0.70	0.66	0.65	0.65	0.66	0.66	0.68	0.66	0.66	0.73	0.69	0.70	0.74	0.71	0.70	0.66	0.70	0.65	0.64	0.64	0.68	0.74	0.64
15	0.67	0.66	0.64	0.62	0.63	0.65	0.67	0.64	0.65	0.67	0.65	0.63	0.68	0.69	0.70	0.66	0.69	0.71	0.70	0.70	0.68	0.65	0.68	0.68	0.67	0.71	0.62
16	0.64	0.68	0.63	0.66	0.65	0.62	0.63	0.61	0.62	0.60	0.70	0.99	1.27	0.81	0.69	0.68	0.59	0.68	0.67	0.64	0.62	0.62	0.61	0.62	0.69	1.27	0.59
17	0.65	0.63	0.66	0.65	0.65	0.61	0.67	0.68	1.05	1.35	1.57	1.41	0.79	0.69	0.67	0.70	0.67	0.66	0.62	0.63	0.61	0.57	0.53	0.60	0.76	1.57	0.53
18	0.65	0.59	0.61	0.62	0.63	0.62	0.60	0.65	0.91	0.80	1.40	2.33	2.45	0.67	0.62	0.61	0.61	0.64	0.65	0.63	0.60	0.61	0.63	0.60	0.82	2.45	0.59
19	0.61	0.59	0.63	0.60	0.64	0.59	0.61	0.62	0.59	0.58	0.58	0.58	0.62	0.67	0.67	0.67	0.69	0.63	0.61	0.63	0.62	0.57	0.59	0.59	0.62	0.69	0.57
20	0.62	0.59	0.61	0.62	0.62	0.59	0.57	0.68	0.65	1.11	0.88	--	0.63	0.68	0.67	0.64	0.65	0.63	0.63	0.66	0.64	0.67	0.64	0.62	0.67	1.11	0.57
21	0.62	0.62	0.60	0.61	0.60	0.61	0.63	0.65	0.62	0.66	0.68	0.65	0.69	0.68	0.73	0.68	0.70	0.67	0.74	0.73	0.73	0.69	0.67	0.66	0.66	0.74	0.60
22	0.62	0.66	0.63	0.66	0.72	0.74	0.72	0.72	0.66	0.69	0.71	0.70	0.70	0.73	0.73	0.75	0.74	0.74	0.76	0.79	0.80	0.81	0.76	0.75	0.72	0.81	0.62
23	0.77	0.74	0.78	0.81	0.76	0.74	0.74	0.73	0.72	0.75	0.69	0.68	0.73	0.72	0.74	0.70	0.72	0.72	0.75	0.72	0.75	0.75	0.73	0.70	0.74	0.81	0.68
24	0.69	0.70	0.67	0.66	0.73	0.68	0.71	0.65	0.65	0.70	0.73	0.80	0.95	0.93	0.86	0.80	0.72	0.72	0.70	0.71	0.64	0.63	0.62	0.67	0.72	0.95	0.62
25	0.68	0.61	0.66	0.66	0.72	0.67	0.70	0.67	0.61	0.67	0.68	0.59	1.15	2.66	3.12	2.22	1.40	1.03	0.88	0.76	0.77	0.75	0.67	0.76	1.00	3.12	0.59
26	0.73	0.72	0.76	0.75	0.76	0.76	0.70	0.70	2.03	8.29	6.42	8.16	2.63	2.82	1.83	1.11	0.89	0.80	0.75	0.75	0.75	0.69	0.66	0.67	1.88	8.29	0.66
27	0.67	0.69	0.66	0.64	0.80	2.71	1.02	1.15	3.50	5.12	3.04	1.19	1.08	0.99	0.77	0.68	0.66	0.63	0.61	0.57	0.58	0.67	0.65	0.65	1.24	5.12	0.57
28	0.68	0.65	0.68	0.67	0.91	1.59	2.34	1.46	1.71	1.37	0.97	--	--	0.90	0.92	1.01	0.97	0.97	0.98	0.86	0.80	0.73	0.71	0.87	1.03	2.34	0.65
29	3.17	1.20	0.77	0.62	0.62	0.60	0.61	0.59	0.65	0.60	0.36	0.64	0.77	0.96	0.93	0.74	0.72	0.68	0.82	0.94	0.88	0.80	0.74	0.76	0.84	3.17	0.36
30	5.95	4.99	2.94	2.77	1.53	0.90	0.72	0.66	0.64	0.62	0.66	0.90	1.27	1.09	0.76	0.75	0.73	0.71	0.71	0.75	0.68	0.72	0.70	0.66	1.37	5.95	0.62
Avg	1.00	1.04	0.93	1.04	0.95	0.98	0.95	0.98	1.30	1.60	1.20	1.23	1.11	1.16	1.04	0.99	0.91	0.84	0.82	0.80	0.77	0.76	0.73	0.74	0.99	--	--
Max	5.95	4.99	2.94	4.47	3.00	4.07	3.44	3.22	3.61	8.29	6.42	8.16	2.63	3.88	3.12	2.22	1.60	1.37	1.14	1.25	1.09	1.35	1.05	1.04	--	8.29	--
Min	0.45	0.59	0.60	0.60	0.60	0.59	0.57	0.59	0.59	0.58	0.36	0.58	0.62	0.67	0.62	0.61	0.59	0.63	0.61	0.57	0.58	0.57	0.53	0.59	--	--	0.36

-- Indicates Invalid Data

Appendix D – East Plant Site Check Forms

East Plant

MET SITE CHECK FORM

Resolution Copper Company

AIR SCIENCES INC.

Date: 07/06/17 Time: 10:10 Operator: P. 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 datalogger 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	3.27	2.99 +
Direction* 10m (deg)	SW	284.151	283 +
Ambient Temperature (°C)	32°	32.47	32 +
Relative Humidity (%)	26%	26.49	28.1 +
Aspirated Temperature 2m	32°	30.29	30 +
Aspirated Temperature 10m	31°	29.54	29.3 +
Delta Temperature (°C)	N/A	-0.70	-0.687 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	899.662	888 +
Barometric Pressure (mmHg)	N/A	656.971	657 +
Battery Voltage (V)	N/A	12.57	12.6 +
Time (MST)	N/A	10:15	10:15 L.T.+
Date	N/A	07/06/17	07/06/17 +

*Direction wind is from

* 0.043" of precip. invalidated @ 14:45 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, Filled evap pan. ✓

Site Operator Signature: Paul Ma

AIR SCIENCES INC.

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/06/17 Time: 10:18 Operator: P. Maducno

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). 06/29 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 BAM manual.*

66 -

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/06/17 Time: 10:23 Operator: P. 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). 06/29 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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
	✓	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	
	✓	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 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: _____

East Plant

NOx Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maducuo	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	10:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1:35
Date: 07/06/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	22.09

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.4	0.4	0.8	0.0	Zero Drift ≤ ±5 ppb	No
80 ppb	80	78.5	0.1	79.9	0.1	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	0.4	NO	0.49	± 2 ppb	No
	NO_2	0.4	NO_2	0.56		
	NO_x	0.8	NO_x	1.07		
80 ppb	NO	78.5	NO	78.56	± 2 ppb	No
	NO_2	0.1	NO_2	0.26		
	NO_x	79.9	NO_x	80.39		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	475	Moly Temp. (315 ± 5°C)	315.4	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	744	Span Gas Regulator Flow (psi)	21
NOx Slope (1 ± 0.3)	* 0.425	NO Slope (1 ± 0.3)	* 0.422	Zero Air Generator Pressure (psi)	30
NOx Offset (-20 to 150)	7.2	NO Offset (-20 to 150)	1.3	*Dilution Calibrator Flow (lpm)	3.973

* Document actual value during span activities.

Operator Comments:

* NOx + NO Slope - low!

Operator Signature:

66

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maducno	Teledyne API T100 SO_2 Analyzer S/N	197	Verification Start Time	1:38
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:10
Date: 07/06/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20- 30°C)	18.96

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.046	0.029	Zero Drift ≤ ±5 ppb	No
80 ppb	80	79.698	0.031	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	0.046	0.116	± 2 ppb	No
80 ppb	79.698	80.293	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%)	630	Sample Press. (Ambient ± 2 in-Hg)	26.0	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4406.3	Lamp Ratio (30 - 120%)	116.6	Span Gas Regulator Pressure (psi)	21
Slope (1 ± 0.3)	0.895	BOX Temp. (Ambient ± 5°C)	31.7	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	33.3	HVPS (400 - 900 V)	587	* Dilution Calibrator Flow (lpm)	3.978

* Document value during span activities.

Operator Comments:

* Shelter T - Low!

* Sample Flow - high!

Operator Signature: [signature]

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maduena	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	2:13
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	2:35
Date: 07/06/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	19.38

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.1	0.4	Zero Drift ≤ ±5 ppb	No
80 ppb	80	79.5	0.5	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	0.31	± 2 ppb	No
80 ppb	79.5	80.25	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	773	Sample Temp. (10 - 50°C)	37.3	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	580	BOX Temp. (10 to 50°C)	27.0	*Dilution Calibrator Flow (lpm)	3.976
Slope (1 ± 0.15)	1.042	O_3 Measure (2500 - 4800 mV)	3454.5		
Offset (0.0 ± 5 ppb)	3.7	O_3 Reference (2500 - 4800 mV)	3454.3		

* Document actual value during span activities.

Operator Comments:

* Shelter T - low!

Operator Signature:

66.

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 7-11-17 Time: 11 25 Operator: ATTEDGE

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)	1	0.71	0.548 +
Direction* 10m (deg.)	230 (SW)	228.7	178 ✗
Ambient Temperature (°C)	20	24.5	24.1 +
Relative Humidity (%)	50	62.8	64.1 +
Aspirated Temp 2m	20	23.3	23.2 +
Aspirated Temp 10m	20	23.3	22.7 +
Delta Temperature (°C)	N/A	-0.46	-0.465 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	162.4	147 +
Barometric Pressure (mmHg)	N/A	654.5	654 +
Battery Voltage (V)	N/A	12.7	12.7 +
Time (MST)	N/A	2017-07-11	11:30 - L.T. +
Date	N/A	11:29	07/11/17 +

77 - 11:00
82.4 - 11:15
267 - 11:45
263 - 12:00

6.6

*Direction wind is from

Comments/Unusual Occurrences or Weather:

Site Operator Signature:

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC

Date: 07/11/17 Time: 13:00 Operator: G.GYLYS

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 BAM manual.*

YES	NO	
✓		1. Inlet Flow check performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
✓		4. PM_{10} 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 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 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 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: 6.6

Signature:

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC

Date: 07/11/17 Time: 15:00 Operator: G. GYLYS

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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
✓		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	
	✓	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 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: _____

East: **Plant**
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/17/17 Time: 9:06 Operator: P. Madueno

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 datalogger 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	3.37	2.23 +
Direction* 10m (deg)	W	269.681	259 +
Ambient Temperature (°C)	25°	25.04	24.9 +
Relative Humidity (%)	60%	59.80	59.3 +
Aspirated Temperature 2m	25°	23.24	23.4 +
Aspirated Temperature 10m	24°	22.57	22.8 +
Delta Temperature (°C)	N/A	-0.49	-0.582 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	488.684	765 *
Barometric Pressure (mmHg)	N/A	654.273	654 +
Battery Voltage (V)	N/A	12.65	12.7 +
Time (MST)	N/A	09:16	09:15 L.T. +
Date	N/A	07/17/17	07/17/17 +

808 - 8:45
621 - 9:00
550 - 9:30
476 - 9:45

*Direction wind is from

* 0.02" of precip. invalidated @ 09:15 hrs!
*' no indication of evap. pan being filled!

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, Filled evap pan *'

Site Operator Signature: [signature]

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 07/17/17 Time: 09:22 Operator: D. 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). 07/11 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 BAM manual.*

6.6.

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 07/17/17 Time: 09:18 Operator: P. Maducno

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). 07/11 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 BAM manual.*

66.

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

66.

YES	NO	
	✓	1. Filter tape replaced
	✓	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.*

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 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: _____

East Plant

NOx Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.

erator: P. Maducno	Teledyne API T200 NOx Analyzer S/N	197	Calibration Start Time	07:25
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1:34
te: 7/17/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	18.42

veekly Manual Level 1 Zero and Span Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NOx Response	Analyzer Stability	Acceptance Criteria	Final NOx/Zero Response
ro Air	0	0.3	0.2	0.6	0.0	Zero Drift ≤ ±5 ppb	0.4
ppb	80	78.5	0.5	79.2	0.1	Span Drift ≤ ±10 %	80.2

l-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
o Air	NO	0.1	NO	0.21	± 2 ppb	No
	NO_2	0.3	NO_2	0.31		
	NO_x	0.4	NO_x	0.43		
ppb	NO	79.3	NO	79.48	± 2 ppb	No
	NO_2	0.5	NO_2	1.32		
	NO_x	80.2	NO_x	80.29		

lyzer Parameters

ple Flow (500 ± 50 cc/min)	486	Moly Temp. (315 ± 5°C)	316.1	Span Gas Tank Pressure (psi)	1900
ne Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	1.004	NO Slope (1 ± 0.3)	0.947	Zero Air Generator Pressure (psi)	30
Offset (-20 to 150)	12.2	NO Offset (-20 to 150)	0.4	*Dilution Calibrator Flow (lpm)	3.992

ument actual value during span activities.

ator Comments:

* Shelter Temp - a little low!

Operator Signature: [signature]

66

East Plant

SO_2 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Madueno	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	1:36
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	2:59
Date: 07/11/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	22.61

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	-0.776	0.028	Zero Drift ≤ ± 5 ppb	0.205
80 ppb	80	81.420	0.422	Span Drift ≤ ± 10 %	80.657

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.205	0.361	± 2 ppb	No
80 ppb	80.657	80.951	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) *	615	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4413.1	Lamp Ratio (30 - 120%)	116.7	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	1.179	BOX Temp. (Ambient ± 5°C)	34.2	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	33.8	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.987

* Document value during span activities.

Operator Comments:

* Sample Flow - a little high!

Operator Signature:

6.6

East Plant

O_3 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Madueno	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	3:01
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	3:51
Date: 07/17/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	23.25

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	0.2	0.3	Zero Drift ≤ ±5 ppb	0.5
80 ppb	80	79.0	0.3	Span Drift ≤ ±7%	80.3

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.5	1.40	± 2 ppb	No
80 ppb	80.3	81.31	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	760	Sample Temp. (10 - 50°C)	40.3	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	31.0	*Dilution Calibrator Flow (lpm)	3.992
Slope (1 ± 0.15)	1.046	O_3 Measure (2500 - 4800 mV)	3437.7		
Offset (0.0 ± 5 ppb)	4.0	O_3 Reference (2500 - 4800 mV)	3437.6		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

NO_X Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: ATTRIDGE	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	1000
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1400
Date: 7/17/207			T200 Analyzer Range	500
	NIST-Traceable Gas Conc. EXP 3/2/2020	40.3 ppm	Shelter Temperature (20 - 30°C)	21.7

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	ZERO	-0.4	-27.9	-28.3	1.0	Zero Drift ≤ ± 5 ppb	-0.3
80 ppb	80	80.3	0.6	82.1	0.7	Span Drift ≤ ± 10 %	84.6

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	~~0.1~~	0.1	± 2 ppb	NO
	NO_2	-0.3	NO_2	~~0.6~~	-0.2		
	NO_x	-0.3	NO_x	~~0.7~~	-0.2		
80 ppb	NO	82.7	NO	81.7	82.8	± 2 ppb	NO
	NO_2	1.7	NO_2	0.9	2.0		
	NO_x	84.6	NO_x	82.9	84.8		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	489	Moly Temp. (315 ± 5°C)	315.7	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	744	Span Gas Regulator Pressure (psi)	20.0
NO_X Slope (1 ± 0.3)	* 0.519	NO Slope (1 ± 0.3)	* 0.443	Zero Air Generator Pressure (psi)	28.6
NO_X Offset (-20 to 150)	74.7	NO Offset (-20 to 150)	-0.2	*Dilution Calibrator Flow (lpm)	3.990

* Document actual value during span activities.

Operator Comments:

* NO_x + NO Slope - low!

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/26/17 Time: 09:00 Operator: P. 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 datalogger 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)	S	1.12	0667 +
Direction* 10m (deg)	S	335.106	520 +
Ambient Temperature (°C)	29°	29.84	30.7 +
Relative Humidity (%)	42%	42.29	38.9 +
Aspirated Temperature 2m	29°	27.87	27.9 +
Aspirated Temperature 10m	28°	27.04	27.3 +
Delta Temperature (°C)	N/A	-0.67	-0.543 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	671.760	647 +
Barometric Pressure (mmHg)	N/A	656.657	657 +
Battery Voltage (V)	N/A	12.60	12.7 +
Time (MST)	N/A	09:06	09:00 L.T. +
Date	N/A	07/26/17	07/26/17 +

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

*Direction wind is from

*' No indication of evap pan being filled?

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, filled evap pan*'

Site Operator Signature:

AIR SCIENCES INC.

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/26/17 Time: 09:11 Operator: P. 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). 07/11 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 BAM manual.*

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/26/17 Time: 09:17 Operator: P. 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). 07/11 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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
	✓	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	
	✓	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 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: _____

East Plant

NO_X Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Maduero	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	9:25
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:54
Date: 07/26/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	20.65

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	-0.3	0.6	0.4	0.1	Zero Drift ≤ ± 5 ppb	No
80 ppb	80	79.7	-0.1	79.9	0.2	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	-0.3	NO	0.06	± 2 ppb	No
	NO_2	0.6	NO_2	0.97		
	NO_x	0.4	NO_x	0.69		
80 ppb	NO	79.7	NO	80.07	± 2 ppb	No
	NO_2	-0.1	NO_2	0.19		
	NO_x	79.9	NO_x	80.44		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	488	Moly Temp. (315 ± 5°C)	315.8	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Flow (psi)	20
NO_X Slope (1 ± 0.3)	0.628	NO Slope (1 ± 0.3)	0.620	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	6.7	NO Offset (-20 to 150)	0.0	*Dilution Calibrator Flow (lpm)	3.978

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Madueno	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	11:56	
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12:48	
Date: 07/26/17			T100 Analyzer Range	500	
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20- 30°C)	18.55	

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.005	0.058	Zero Drift ≤ ±5 ppb	No
80 ppb	80.	80.269	0.149	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	0.005	0.332	± 2 ppb	No
80 ppb	80.269	80.496	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) *	623	Sample Press. (Ambient ± 2 in-Hg)	26.0	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4425.7	Lamp Ratio (30 - 120%)	117.2	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	1.075	BOX Temp. (Ambient ± 5°C)	31.8	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	33.8	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.976

* Document value during span activities.

Operator Comments:

* Sample Flow - little high!

Operator Signature:

66.

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Maduero	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	12:50
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1:41
Date: 07/26/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	18.31

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.1	0.4	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.1	0.5	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	0.43	± 2 ppb	No
80 ppb	80.1	81.06	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	777	Sample Temp. (10 - 50°C)	37.0	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	27.4	*Dilution Calibrator Flow (lpm)	3.980
Slope (1 ± 0.15)	1.056	O_3 Measure (2500 - 4800 mV)	3428.9		
Offset (0.0 ± 5 ppb)	3.8	O_3 Reference (2500 - 4800 mV)	3431.1		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/08/17 Time: 08:10 Operator: P. Maducno

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 datalogger 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	1.84	1.41 +
Direction* 10m (deg)	NW	100.178	111 +
Ambient Temperature (°C)	28°	28.75	28.8 +
Relative Humidity (%)	24%	24.18	24 +
Aspirated Temperature 2m	28°	27.54	27.5 +
Aspirated Temperature 10m	27°	27.12	27.2 +
Delta Temperature (°C)	N/A	-0.46	-0.356 +
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	549.113	506 +
Barometric Pressure (mmHg)	N/A	654.778	655 +
Battery Voltage (V)	N/A	12.62	12.7 +
Time (MST)	N/A	08:15	08:15 +
Date	N/A	08/08/17	08/08/17 +

*Direction wind is from

* No indication of precip. gauge being tripped?

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, filled evap pan

Site Operator Signature:

AIR SCIENCES INC.

East Plant
BAM PM_{10} WEEKLY SITE CHECK FORM
Resolution Copper Mining

Date: 08/08/17 Time: 08:23 Operator: P. Maducno

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). 08/02 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 BAM manual.*

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

East Plant
BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM
Resolution Copper Mining

Date: 08/08/17 Time: 08:18 Operator: P. Maducno

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). 08/02 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 BAM manual.*

66.

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

East Plant

NO_X Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Maducna	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	08:26
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	10:30
Date: 08/08/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	21.36

Biweekly Manual Level 2 Zero and Span Precision Check

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	0.2	0.1	0.2	Zero Drift ≤ ± 5 ppb	No
80 ppb	80	80.3	-2.7	80.6	0.2	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	0.12	± 2 ppb	No
	NO_2	0.2	NO_2	0.44		
	NO_x	0.1	NO_x	0.32		
80 ppb	NO	80.3	NO	80.57	± 2 ppb	No
	NO_2	-2.7	NO_2	-2.13		
	NO_x	80.6	NO_x	80.72		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	495	Moly Temp. (315 ± 5°C)	316.7	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Flow (psi)	20
NO_X Slope (1 ± 0.3)	0.972	NO Slope (1 ± 0.3)	0.971	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.4	NO Offset (-20 to 150)	0.7	*Dilution Calibrator Flow (lpm)	3.988

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Maduena	Teledyne API T100 SO_2 Analyzer S/N	1.93	Verification Start Time	10:32
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:20
Date: 08/08/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20- 30°C)	22.61

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.090	0.027	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.023	0.193	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	0.090	1.027	± 2 ppb	No
80 ppb	80.023	80.443	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%)	620	Sample Press. (Ambient ± 2 in-Hg)	25.6	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4432.8	Lamp Ratio (30 - 120%)	117.4	Span Gas Regulator Pressure (psi)	21
Slope (1 ± 0.3)	0.878	BOX Temp. (Ambient ± 5°C)	31.7	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.2	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.984

* Document value during span activities.

Operator Comments:

* Sample Flow - little high!

Operator Signature:

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maducno	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	11:25
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12:31
Date: 08/08/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	22.66

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.4	0.3	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.5	0.5	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	0.4	0.632	± 2 ppb	NO
80 ppb	80.5	80.862	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	774	Sample Temp. (10 - 50°C)	37.7	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	27.8	*Dilution Calibrator Flow (lpm)	3.989
Slope (1 ± 0.15)	1.064	O_3 Measure (2500 - 4800 mV)	3420.9		
Offset (0.0 ± 5 ppb)	3.8	O_3 Reference (2500 - 4800 mV)	3423.1		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/14/17 Time: 09:00 Operator: P. 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 datalogger 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	1.74	2.36 P
Direction* 10m (deg)	S	245.805	240 P
Ambient Temperature (°C)	25°	24.63	24.8 P
Relative Humidity (%)	54%	54.51	53.6 P
Aspirated Temperature 2m	25°	24.12	24.3 P
Aspirated Temperature 10m	24°	23.67	23.8 P
Delta Temperature (°C)	N/A	-0.49	-0.478 P
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	387.160	408 P
Barometric Pressure (mmHg)	N/A	653.571	654 P
Battery Voltage (V)	N/A	12.63	12.7 P
Time (MST)	N/A	09:09	09:15 L.T. P
Date	N/A	08/14/17	08/14/17 P

*Direction wind is from

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

Comments/Unusual Occurrences or Weather: Triggered precip gauge, *

Site Operator Signature:

AIR SCIENCES INC.

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/14/17 Time: 08:17 Operator: P. Maducno

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). Power fail 08/13
✓		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	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 08/14/17 Time: 09:13 Operator: P. Maducus

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). 08/13 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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
	✓	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	
	✓	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 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: _____

East Plant

NO_X Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maduena	Teledyne API T200 NO_X Analyzer S/N	191	Calibration Start Time	09:20
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	197	Calibration Stop Time	12:35
Date: 08/14/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	17.30

8/14/17 CC.

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	0.6	0.6	0.1	Zero Drift ≤ ± 5 ppb	0.0
80 ppb	80	75.0	-0.7	74.0	0.0	Span Drift ≤ ± 10 %	80.1

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	0.452	± 2 ppb	No
	NO_2	-0.3	NO_2	0.143		
	NO_x	0.0	NO_x	0.334		
80 ppb	NO	79.8	NO	79.922	± 2 ppb	No
	NO_2	0.6	NO_2	0.994		
	NO_x	80.1	NO_x	80.371		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	316.2	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	79	HVPS (400 - 900 V)	674	Span Gas Regulator Pressure (psi)	20
NO_X Slope (1 ± 0.3)	0.973	NO Slope (1 ± 0.3)	0.970	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.5	NO Offset (-20 to 150)	0.9	*Dilution Calibrator Flow (lpm)	3.981

* Document actual value during span activities.

Operator Comments:

* Shelter T - a little low!

CC.

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • FORT LAUDERDALE • LOS ANGELES

Operator: P. Maduena	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	12:38
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1:26
Date: 08/14/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	18.07

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	0.062	0.043	Zero Drift ≤ ±5 ppb	0.061
80 ppb	80	80.031	0.191	Span Drift ≤ ±10 %	80.200

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.061	0.328	± 2 ppb	No
80 ppb	80.200	80.621	± 2 ppb	NO

Analyzer Parameters

Sample Flow (550 ± 10%)	620	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4428.7	Lamp Ratio (30 - 120%)	117.2	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.879	BOX Temp. (Ambient ± 5°C)	31.5	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.3	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	5.985

* Document value during span activities.

Operator Comments:

Shelter T - a little low!
Sample Flow - a little high!

Operator Signature:

East Plant

O_3 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • FORT COLLINS • LOS ANGELES

Operator: P. Maduena	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	1:28
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	1:59
Date: 08/14/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	17.96

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	0.1	0.4	Zero Drift ≤ ±5 ppb	0.0
80 ppb	80	78.6	0.4	Span Drift ≤ ±7%	80.6

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.0	0.637	± 2 ppb	No
80 ppb	80.6	80.969	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	774	Sample Temp. (10 - 50°C)	37.2	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	26.3	*Dilution Calibrator Flow (lpm)	3.899
Slope (1 ± 0.15)	1.064	O_3 Measure (2500 - 4800 mV)	3419.5		
Offset (0.0 ± 5 ppb)	3.8	O_3 Reference (2500 - 4800 mV)	3419.3		

* Document actual value during span activities.

Operator Comments:

* Shelter T - a little low!

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/25/17 Time: 07:03 Operator: P. 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 datalogger 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	2.96	2.42 +
Direction* 10m (deg)	NE	119.956	135 *
Ambient Temperature (°C)	24°	24.60	24.1 +
Relative Humidity (%)	39%	38.66	40 +
Aspirated Temperature 2m	24°	23.62	23.3 +
Aspirated Temperature 10m	23°	23.22	23 +
Delta Temperature (°C)	N/A	-0.38	-0.208 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	233.607	178 +
Barometric Pressure (mmHg)	N/A	652.140	652 +
Battery Voltage (V)	N/A	12.70	12.7 +
Time (MST)	N/A	07:07	07:00 L.T. +
Date	N/A	08/25/17	08/25/17 +

*Direction wind is from * 0.02" of precip. immediated @ 07:15 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge, * Filled evap pan ✓ 66

Site Operator Signature: [signature]

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 08/25/17 Time: 07:13 Operator: P. Maducno

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). 08/13 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 BAM manual.*

66.

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/25/17 Time: 07:10 Operator: P. 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). 08/13 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 BAM manual.*

66

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

66

YES	NO	
	✓	1. Filter tape replaced
	✓	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.*

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 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: _____

East Plant

NOx Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Madrero	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	07:15
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	9:23
Date: 08/25/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	19.27

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	-0.3	0.4	0.2	0.0	Zero Drift ≤ ±5 ppb	No
80 ppb	80	79.5	0.5	80.4	0.1	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	-0.3	NO	0.01	± 2 ppb	No
	NO_2	0.4	NO_2	0.63		
	NO_x	0.2	NO_x	0.49		
80 ppb	NO	79.5	NO	79.84	± 2 ppb	No
	NO_2	0.5	NO_2	1.02		
	NO_x	80.4	NO_x	80.87		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	493	Moly Temp. (315 ± 5°C)	315.6	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	79	HVPS (400 - 900 V)	674	Span Gas Regulator Flow (psi)	20
NO_X Slope (1 ± 0.3)	1.051	NO Slope (1 ± 0.3)	1.037	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.5	NO Offset (-20 to 150)	0.9	*Dilution Calibrator Flow (lpm)	3.987

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maducno	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	09:25
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	09:52
Date: 08/25/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20- 30°C)	20.50

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.131	0.045	Zero Drift ≤ ± 5 ppb	No
80 ppb	80	80.005	0.075	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	0.131	0.512	± 2 ppb	No
80 ppb	80.005	80.152	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) *	621	Sample Press. (Ambient ± 2 in-Hg)	25.8	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4437.7	Lamp Ratio (30 - 120%)	117.5	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.879	BOX Temp. (Ambient ± 5°C)	31.6	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.3	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.984

* Document value during span activities.

Operator Comments:

* Sample Flow - little high!

Operator Signature:

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maduena	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	09:55
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	10:21
Date: 08/25/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	17.58

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.1	0.2	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.5	0.1	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	0.89	± 2 ppb	No
80 ppb	80.5	81.2	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	779	Sample Temp. (10 - 50°C)	36.8	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	26.3	*Dilution Calibrator Flow (lpm)	3.988
Slope (1 ± 0.15)	1.085	O_3 Measure (2500 - 4800 mV)	3413.0		
Offset (0.0 ± 5 ppb)	3.8	O_3 Reference (2500 - 4800 mV)	3412.9		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/29/17 Time: 08:30 Operator: P. Maduero

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 datalogger 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	4.30	5.34 +
Direction* 10m (deg)	S	58.56	49.8 +
Ambient Temperature (°C)	27°	27.17	26.9 +
Relative Humidity (%)	34°	34.04	34.7 +
Aspirated Temperature 2m	27°	26.94	26.5 +
Aspirated Temperature 10m	26°	25.84	25.4 +
Delta Temperature (°C)	N/A	-1.11	-1.09 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	566.348	540 +
Barometric Pressure (mmHg)	N/A	655.460	655 +
Battery Voltage (V)	N/A	12.63	12.7 +
Time (MST)	N/A	08:36	08:30 L.T. +
Date	N/A	08/29/17	08/29/17 +

*Direction wind is from * 0.02" of precip. inmediated @ 08:45 hrs! 6.6

Comments/Unusual Occurrences or Weather: Triggered precip gauge * Filled evap pan

Site Operator Signature: [signature]

AIR SCIENCES INC.

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/29/17 Time: 08:42 Operator: P. 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). 08/28 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 BAM manual.*

YES	NO	
✓		1. Inlet Flow check performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
✓		4. PM_{10} 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 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 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 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: Monthly Flow Verifications.

Signature:

AIR SCIENCES INC

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM_{10}: S/N: M8714

Firmware:

Calibrator: DeHaCal S/N: 1034

Date of Flow Audit: 08/29/17

Time of Flow Audit: 12:40

	BAM	STD
Ambient Temperature (AT) °C	655	655.5
Barometric Pressure (BP) mmHg	33.6	33.8

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.04	0.3
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.42	0.1
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.69	0.1
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM	
(2) Leak Test	0.6	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed.

* PM10 conc. + flow invalidated for 12:00 through 14:00 hrs!

Signature:

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 08/29/17 Time: 08:38 Operator: P. Maducna

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). 08/28 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 BAM manual.*

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

YES	NO	
✓		1. Filter tape replaced
✓		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.*

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 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: Monthly Flow Verifications

66.

Signature:

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020 $PM_{2.5}$: S/N: M64466

Firmware:

Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 08/29/17

Time of Flow Audit: 12:15

	BAM	STD
Ambient Temperature (AT) °C	33.3	33.0
Barometric Pressure (BP) mmHg	656	655.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	14.98	0.1
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.45	0.3
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.68	0.1
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM	
(2) Leak Test	0.6	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed.

* PM2.5 conc. + flow invalidated @ 12:00 and 13:00 hrs!

Signature: [illegible]

East Plant

NO_X Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Maduena	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	08:48
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	11:12
Date: 08/29/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	17.78 *

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	-0.2	0.3	0.2	0.1	Zero Drift ≤ ±5 ppb	0.1
80 ppb	80	79.5	0.3	79.8	0.3	Span Drift ≤ ±10 %	80.3

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	0.41	± 2 ppb	No
	NO_2	0.2	NO_2	0.59		
	NO_x	0.1	NO_x	0.48		
80 ppb	NO	79.8	NO	80.4	± 2 ppb	No
	NO_2	0.5	NO_2	0.56		
	NO_x	80.3	NO_x	80.51		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	487	Moly Temp. (315 ± 5°C)	315.3	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Pressure (psi)	20
NO_X Slope (1 ± 0.3)	1.048	NO Slope (1 ± 0.3)	1.044	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.1	NO Offset (-20 to 150)	0.1	*Dilution Calibrator Flow (lpm)	3.985

* Document actual value during span activities.

Operator Comments:
- System Reset
- Filter replaced.

* Shelter Temp - a little low!

Operator Signature:

E.G.

East Plant

SO_2 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Madueno	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	11:15
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	12:08
Date: 08/29/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	21.57

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	0.003	0.031	Zero Drift ≤ ±5 ppb	0.015
80 ppb	80	79.532	0.065	Span Drift ≤ ±10 %	80.219

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.015	0.318	± 2 ppb	No
80 ppb	80.219	80.330	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) ☆	622	Sample Press. (Ambient ± 2 in-Hg)	26.0	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4427.3	Lamp Ratio (30 - 120%)	117.2	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.880	BOX Temp. (Ambient ± 5°C)	33.3	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.3	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.985

* Document value during span activities.

Operator Comments:
- System Reset
- Filter Replaced.

Operator Signature:

☆ Sample Flow - a little high!

66.

East Plant

O_3 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER · PORTLAND · LOS ANGELES

Operator: P. Maducno	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	12:10
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	12:47
Date: 08/29/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	18.82

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	-0.1	0.3	Zero Drift ≤ ±5 ppb	0.2
80 ppb	80.	80.2	0.5	Span Drift ≤ ±7 %	80.78

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.2	1.32	± 2 ppb	No
80 ppb	80.5	80.78	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	780	Sample Temp. (10 - 50°C)	37.4	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	27.2	*Dilution Calibrator Flow (lpm)	3.981
Slope (1 ± 0.15)	1.083	O_3 Measure (2500 - 4800 mV)	3403.3		
Offset (0.0 ± 5 ppb)	3.9	O_3 Reference (2500 - 4800 mV)	3403.1		

* Document actual value during span activities.

Operator Comments:
- System Reset
- Filter replaced.

* Shelter Temp - a little low!

6.6

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.
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Date: 09/08/17 Time: 08:45 Operator: P. Madueno

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 datalogger 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	2.15	2.35 ✓
Direction* 10m (deg)	S	257.252	255 ✓
Ambient Temperature (°C)	25°	25.54	25 ✓
Relative Humidity (%)	35%	35.55	36.4 ✓
Aspirated Temperature 2m	25°	23.82	23.8 ✓
Aspirated Temperature 10m	24°	23.35	23.3 ✓
Delta Temperature (°C)	N/A	-0.46	-0.488 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	529.248	453 ✓
Barometric Pressure (mmHg)	N/A	654.815	655 ✓
Battery Voltage (V)	N/A	12.65	12.7 ✓
Time (MST)	N/A	08:50	08:45 LT
Date	N/A	09/08/17	09/08/17 ✓

*Direction wind is from

*0.02" of precip. inadvertent @ 08:00 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge *, filled evap pan ✓

GG.

Site Operator Signature:

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/08/17 Time: 08:58 Operator: P. Maduno

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). 08/30 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 BAM manual.*

66.

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/08/17 Time: 08:52 Operator: P. 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). 08/30 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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
	✓	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	
	✓	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 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: _____

East Plant

NOx Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Madueno	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	09:00
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	10:54
Date: 09/08/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	19.59

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.2	0.1	0.3	0.1	Zero Drift ≤ ± 5 ppb	No
80 ppb	80	80.5	-0.3	80.1	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	NO	0.2	NO	0.46	± 2 ppb	No
	NO_2	0.1	NO_2	0.38		
	NO_x	0.3	NO_x	0.67		
80 ppb	NO	80.5	NO	80.93	± 2 ppb	No
	NO_2	-0.3	NO_2	0.13		
	NO_x	80.1	NO_x	80.43		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	495	Moly Temp. (315 ± 5°C)	314.8	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Flow (psi)	20
NO_X Slope (1 ± 0.3)	1.058	NO Slope (1 ± 0.3)	1.053	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.3	NO Offset (-20 to 150)	0.2	*Dilution Calibrator Flow (lpm)	3.993

* Document actual value during span activities.

Operator Comments:

Operator Signature:

* NO_x + NO slopes and Offsets differ from the last visit and Level 1's on 08/29/17!?

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Madueno	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	10:56
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:27
Date: 09/08/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20- 30°C)	19.93

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.132	0.017	Zero Drift ≤ ± 5 ppb	No
80 ppb	80	80.440	0.140	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	0.469	± 2 ppb	No
80 ppb	80.440	80.694	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) *	626	Sample Press. (Ambient ± 2 in-Hg)	26.0	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4461.5	Lamp Ratio (30 - 120%)	118.0	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3) *'	0.864	BOX Temp. (Ambient ± 5°C)	30.2	Zero Air Generator Pressure (psi)	80
Offset (< 250 mV)	34.3	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.991

* Document value during span activities.

Operator Comments:

Operator Signature:

* Sample Flow a little high!

*' Slope differs from the last Level 1 on 08/28/17!?

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Madueno	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	11:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	197	Verification Stop Time	11:55
Date: 09/08/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	20.04

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.1	0.3	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.2	0.2	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	0.36	± 2 ppb	No
80 ppb	80.2	80.41	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	780	Sample Temp. (10 - 50°C)	36.0	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	25.9	*Dilution Calibrator Flow (lpm)	3.986
Slope (1 ± 0.15) *	1.078	O_3 Measure (2500 - 4800 mV)	3406.11		
Offset (0.0 ± 5 ppb)	3.9	O_3 Reference (2500 - 4800 mV)	3405.9		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

* Slope is different from last Level 1 on 08/25/17!?

East [redacted] Plant

MET SITE CHECK FORM

Resolution Copper Company

AIR SCIENCES INC.

Date: 09/13/17 Time: 08:00 Operator: P. Madueno

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 datalogger 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)	1m/s	1.33	1.12 ✓
Direction* 10m (deg)	N	105.618	131 ✓
Ambient Temperature (°C)	28°	28.47	27.3 ✓
Relative Humidity (%)	28°	28.30	30.9 ✓
Aspirated Temperature 2m	28°	27.32	26.2 ✓
Aspirated Temperature 10m	27°	26.42	25.5 ✓
Delta Temperature (°C)	N/A	-0.81	-0.668 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	411.237	360 ✓
Barometric Pressure (mmHg)	N/A	652.702	653 ✓
Battery Voltage (V)	N/A	12.62	12.7 ✓
Time (MST)	N/A	08:06	08:00, LTP
Date	N/A	09/13/17	09/13/17 ✓

133 - 7:30
107 - 7:45
110 - 8:15
98.7 - 8:30

✓ 0.043" of precip. invalidated @ 08:15 hrs!

*Direction wind is from

✓ No indication in evap date of refill?! 66

Comments/Unusual Occurrences or Weather: Triggered precip gauge ✓ filled evap pan. ✓

Site Operator Signature: [signature]

AIR SCIENCES INC.

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/13/17 Time: 08:12 Operator: P. Maducus

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 BAM manual.*

66

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/13/17 Time: 08:08 Operator: P. Maduero

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). 09/10 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 BAM manual.*

66.

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

66.

YES	NO	
	✓	1. Filter tape replaced
	✓	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.*

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 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: _____

East Plant

NO_X Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Madurro	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	08:15
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	10:50
Date: 09/13/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	19.60

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	0.1	0.7	0.6	0.1	Zero Drift ≤ ± 5 ppb	0.2
80 ppb	80	79.8	0.4	80.2	0.2	Span Drift ≤ ± 10 %	80.1

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	0.0	NO_2	0.32		
	NO_x	0.2	NO_x	0.39		
80 ppb	NO	80.3	NO	80.59	± 2 ppb	No
	NO_2	0.3	NO_2	0.43		
	NO_x	80.1	NO_x	80.45		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	315.4	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Pressure (psi)	20
NO_X Slope (1 ± 0.3)	1.000	NO Slope (1 ± 0.3)	0.977	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.3	NO Offset (-20 to 150)	0.2	*Dilution Calibrator Flow (lpm)	3.979

* Document actual value during span activities.

Operator Comments: System Reset

Operator Signature:

66.

East Plant

SO_2 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maducno	Teledyne API T100 SO_2 Analyzer S/N	173	Calibration Start Time	10:52
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	11:30
Date: 09/13/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	22.22

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	0.204	0.181	Zero Drift ≤ ±5 ppb	0.033
80 ppb	80	80.476	0.205	Span Drift ≤ ±10 %	80.109

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.033	0.181	± 2 ppb	No
80 ppb	80.109	80.227	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) *	620	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4460.2	Lamp Ratio (30 - 120%)	116.1	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.884	BOX Temp. (Ambient ± 5°C)	32.9	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.3	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.990

* Document value during span activities.

Operator Comments:

System Reset

Operator Signature:

* Sample Flow - high! G.G.

East Plant

O_3 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Maduena	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	11:33
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	12:03
Date: 09/13/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	21.26

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	0.3	0.3	Zero Drift ≤ ±5 ppb	0.1
80 ppb	80	80.4	0.6	Span Drift ≤ ±7%	80.5

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.1	0.38	± 2 ppb	No
80 ppb	80.5	80.96	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	773	Sample Temp. (10 - 50°C)	37.6	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	27.4	*Dilution Calibrator Flow (lpm)	3.988
Slope (1 ± 0.15)	1.078	O_3 Measure (2500 - 4800 mV)	3397.0		
Offset (0.0 ± 5 ppb)	3.9	O_3 Reference (2500 - 4800 mV)	3396.8		

* Document actual value during span activities.

Operator Comments:
System Reset

Operator Signature:

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/20/17 Time: 08:30 Operator: P Madueno

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 datalogger 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)	4 m/s	4.60	4.34 +
Direction* 10m (deg)	NE	210.993	184 +
Ambient Temperature (°C)	22°	22.74	22.8 +
Relative Humidity (%)	49 %	49.36	48.4 +
Aspirated Temperature 2m	22°	22.23	22.4 +
Aspirated Temperature 10m	21°	21.57	21.6 +
Delta Temperature (°C)	N/A	-0.66	-0.832 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	546.181	534 +
Barometric Pressure (mmHg)	N/A	653.055	653 +
Battery Voltage (V)	N/A	12.70	12.7 +
Time (MST)	N/A	08:40	08:45 L.T. +
Date	N/A	09/20/17	09/20/17 +

*Direction wind is from

~~No indication of precip gauge being tipped~~ ?! 0.012" of precip. indicated @ 08:45 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge, filled evap pan. ✓

G.G.

Site Operator Signature:

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/10/17 Time: 09:47 Operator: P. 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). 09/10 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 BAM manual.*

66.

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/10/17 Time: 08:43 Operator: P. Maducna

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). 09/10 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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
	✓	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	
	✓	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 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: _____

East Plant

NO_X Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Maducno	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	08:50
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:05
Date: 09/20/14			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	19.73

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.3	0.4	0.6	0.4	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.3	-0.9	80.5	0.1	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	0.3	NO	0.46	± 2 ppb	No
	NO_2	0.4	NO_2	0.61		
	NO_x	0.6	NO_x	0.73		
80 ppb	NO	80.3	NO	80.4	± 2 ppb	No
	NO_2	-0.9	NO_2	0.09		
	NO_x	80.5	NO_x	79.88		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	485	Moly Temp. (315 ± 5°C)	315.2	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	674	Span Gas Regulator Flow (psi)	20
NO_X Slope (1 ± 0.3)	0.973	NO Slope (1 ± 0.3)	0.954	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.1	NO Offset (-20 to 150)	0.7	*Dilution Calibrator Flow (lpm)	3.993

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: P. Madrueno	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	11:08
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	11:40
Date: 09/20/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20- 30°C)	21.22

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.027	0.016	Zero Drift ≤ ± 5 ppb	No
80 ppb	80	80.106	0.127	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	0.027	0.367	± 2 ppb	No
80 ppb	80.127	80.746	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%) *	623	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4482.7	Lamp Ratio (30 - 120%)	118.5	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.880	BOX Temp. (Ambient ± 5°C)	30.7	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.7	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.990

* Document value during span activities.

Operator Comments:

* Sample Flow - high!

Operator Signature:

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: P. Madueno	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	11:45
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	12:25
Date: 09/20/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	19.80

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	0	0.1	0.4	Zero Drift ≤ ±5 ppb	No
80 ppb	80	80.2	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	0.79	± 2 ppb	No
80 ppb	80.2	80.51	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	774	Sample Temp. (10 - 50°C)	36.6	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	26.3	*Dilution Calibrator Flow (lpm)	3.894
Slope (1 ± 0.15)	1.078	O_3 Measure (2500 - 4800 mV)	3345.2		
Offset (0.0 ± 5 ppb)	3.6	O_3 Reference (2500 - 4800 mV)	3345.1		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

66

East Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/28/17 Time: 09:45 Operator: P. Maducna

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 datalogger 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	3.17	4.84 +
Direction* 10m (deg)	S	68.69	53.6 +
Ambient Temperature (°C)	24°	24.09	22.8 +
Relative Humidity (%)	38%	38.20	40.3 +
Aspirated Temperature 2m	24°	23.62	22.7 +
Aspirated Temperature 10m	23°	22.11	21.3 +
Delta Temperature (°C)	N/A	-1.50	-1.45 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	735.927	682 +
Barometric Pressure (mmHg)	N/A	653.503	654 +
Battery Voltage (V)	N/A	12.70	12.8 +
Time (MST)	N/A	09:52	09:45 - C.T.P
Date	N/A	09/28/17	09/28/17 +

*Direction wind is from

* 0.032" of precip. immediately @ 10:00 hrs!
* Evap. pan filled, but leaked out completely come next morning? E.E.

Comments/Unusual Occurrences or Weather: Triggered precip * filled evap *

Site Operator Signature:

AIR SCIENCES INC.

East Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/28/17 Time: 09:58 Operator: P. Maduna

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). 09/10 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 BAM manual.*

YES	NO	
✓		1. Inlet Flow check performed
✓		2. Visual inspection and dust removal
✓		3. Leak check performed
✓		4. PM_{10} 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 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 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 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: Monthly flow ✓ GG.

Signature:

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

East Plant

PARTICULATE MONITORING PROJECT

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

Firmware:

Calibrator: DeltaCal S/N: 1034

Date of Flow Audit: 09/28/17

Time of Flow Audit: 10:50

	BAM	STD
Ambient Temperature (AT) °C	25.0	25.5
Barometric Pressure (BP) mmHg	654	654.0

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.04	0.3
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.30	0.5
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.63	0.4
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: Self Test Passed

* PM10 conc. & flow indicated for 12:00 hrs!

O.G.

Signature:

AIR SCIENCES INC.

East Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/28/17 Time: 09:54 Operator: P. Maduno

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). 09/10 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 BAM manual.*

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

YES	NO	
	✓	1. Filter tape replaced
✓		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	
	✓	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 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: Monthly flow ✓

Signature: [signature]

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

East Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020 $PM_{2.5}$: S/N: M6466
Firmware:
Calibrator: DeltaCal S/N: 1034

Date of Flow Audit: 09/26/17
Time of Flow Audit: 11:30

	BAM	STD
Ambient Temperature (AT) °C	26.0	25.7
Barometric Pressure (BP) mmHg	655	654.0

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	14.99	0.1
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.45	0.5
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.69	0.1
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:
(1) % Diff = [(BAM - Set Point)/Set Point]*100 (+/- 2%)
(2) % Diff = [(BAM - Calibrator)/Calibrator]*100 (+/- 5%)

	BAM	
(2) Leak Test	0.1	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed

* PM2.5 conc + flow invalidated for 12:00 hrs! EG.

Signature:

East Plant

NO_X Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Maduena	Teledyne API T200 NO_X Analyzer S/N	197	Calibration Start Time	09:58
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	11:24
Date: 09/28/17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc.	40%	Shelter Temperature (20 - 30°C)	20.07

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	0.3	0.0	0.3	0.1	Zero Drift ≤ ±5 ppb	0.1
80 ppb	80	77.7	0.3	78.1	0.1	Span Drift ≤ ±10 %	80.5

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	0.242	± 2 ppb	No
	NO_2	0.2	NO_2	0.391		
	NO_x	0.1	NO_x	0.432		
80 ppb	NO	80.1	NO	80.46	± 2 ppb	No
	NO_2	0.4	NO_2	0.92		
	NO_x	80.5	NO_x	81.19		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	494	Moly Temp. (315 ± 5°C)	317.4	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	79	HVPS (400 - 900 V)	674	Span Gas Regulator Pressure (psi)	20
NO_X Slope (1 ± 0.3)	1.009	NO Slope (1 ± 0.3)	0.979	Zero Air Generator Pressure (psi)	30
NO_X Offset (-20 to 150)	3.6	NO Offset (-20 to 150)	0.0	*Dilution Calibrator Flow (lpm)	3.981

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Madueno	Teledyne API T100 SO_2 Analyzer S/N	193	Calibration Start Time	11:26
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	12:23
Date: 09/28/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc.		Shelter Temperature (20 - 30°C)	20.42

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	0.045	0.078	Zero Drift ≤ ± 5 ppb	0.201
80 ppb	80	80.189	0.236	Span Drift ≤ ± 10 %	80.020

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.201	0.397	± 2 ppb	No
80 ppb	80.020	80.576	± 2 ppb	No

Analyzer Parameters

Sample Flow (550 ± 10%)	623	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4476.0	Lamp Ratio (30 - 120%)	118.6	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.881	BOX Temp. (Ambient ± 5°C)	30.7	Zero Air Generator Pressure (psi)	30
Offset (< 250 mV)	34.8	HVPS (400 - 900 V)	603	* Dilution Calibrator Flow (lpm)	3.988

* Document value during span activities.

Operator Comments:

* Sample Flow - high!

Operator Signature:

East Plant

O_3 Level 1 Zero and Span Check
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: P. Maduena	Teledyne API T400 O_3 Analyzer S/N	224	Calibration Start Time	12:27
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Calibration Stop Time	12:52
Date: 09/20/17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	20.00

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	0.46	Zero Drift ≤ ±5 ppb	0.1
80 ppb	80	80.0	0.5	Span Drift ≤ ±7%	80.5

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)	Logger Response (ppb)	Acceptance Criteria	Adjustment Required?
Zero Air	0.21	1.16	± 2 ppb	No
80 ppb	80.5	80.53	± 2 ppb	No

Analyzer Parameters

Sample Flow (800± 80 cc/min)	776	Sample Temp. (10 - 50°C)	36.2	Zero Air Generator (psi)	30
Photo Lamp (58 ± 1°C)	58.0	BOX Temp. (10 to 50°C)	25.9	*Dilution Calibrator Flow (lpm)	3.985
Slope (1 ± 0.15)	1.077	O_3 Measure (2500 - 4800 mV)	3391.8		
Offset (0.0 ± 5 ppb)	3.7	O_3 Reference (2500 - 4800 mV)	3391.6		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

Appendix E – West Plant Site Check Forms

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/07/17 Time: 10:45 Operator: P. Maducno

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 datalogger 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	4.72	3.58 +
Direction* 10m (deg)	W	192.640	118 *
Ambient Temperature (°C)	38°	38.867	38.2 +
Relative Humidity (%)	12%	12.643	12.2 +
Aspirated Temperature 2m	38°	37.652	38.6 +
Aspirated Temperature 10m	37°	36.892	36.5 +
Delta Temperature (°C)	N/A	-2.62	-1.75 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1043.62	857 *
Barometric Pressure (mmHg)	N/A	693.649 ?	686 *
Battery Voltage (V)	N/A	12.56	12.6 +
Time (MST)	N/A	10:50	10:45 L.T.P
Date	N/A	07/07/17	07/07/17 +

202 - 10:15
84.1 - 10:30
174 - 11:00
156 - 11:15

837 - 10:15
866 - 10:30
922 - 11:00
944 - 11:15

686 - 10:15
686 - 10:30
686 - 11:00
686 - 11:15

*Direction wind is from * 0.043" of precip. invalidated @ 11:30 hrs! GG

Comments/Unusual Occurrences or Weather: Triggered precip gauge *, Filled evap pan ✓ GG

Site Operator Signature: Paul Maducno

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/07/17 Time: 11:26 Operator: P. Maducno

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). 07/07 Count 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 BAM manual.*

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: Paul Mad

AIR SCIENCES INC.

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/07/17 Time: 11:20 Operator: PMadueno

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). 07/05 Flow AT Disconnect.
✓		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.*

66

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 7-10-17 Time: 0744 Operator: 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.
/		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)	0.5	~~144~~ 0.7	0.437 P
Direction* 10m (deg)	SE	144.7	145 P
Ambient Temperature (°C)	30	30.5	30.3 P
Relative Humidity (%)	30	36.4	37.1 P
Aspirated Temperature 2m	30	29.5	29.2 P
Aspirated Temperature 10m	30	28.6	28.4 P
Delta Temperature (°C)	N/A	-0.8	-0.826 P
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	425.7	300 ~~P~~
Barometric Pressure (mmHg)	N/A	685.6	686 P
Battery Voltage (V)	N/A	12.5	12.5 P
Time (MST)	N/A	0748	07:45 L.T. P
Date	N/A	2017-07-10	07/10/17 P

57.6 - 7:15
73.2 - 7:30
432 - 8:00
484 - 8:15

96

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

Site Operator Signature: _____

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 7-10-17 Time: 0920 Operator: 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 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: 07-07-17 11:09 Count fail

Signature: [signature]

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Date: 07/10/17 Time: 09:20 Operator: G.GYLYS

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). 7/5 Flow AT disconnected!
✓		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	
✓		1. Inlet flow check performed.
✓		2. Visual inspection and dust removal.
✓		3. Leak check performed.
✓		4. PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/19/2017 Time: 12:49 Operator: P. Maducno

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 datalogger 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	3.09	4.04 +
Direction* 10m (deg)	W	228.856	224 +
Ambient Temperature (°C)	33°	33.97	34.1 +
Relative Humidity (%)	43%	43.43	42.3 +
Aspirated Temperature 2m	33°	33.29	33.2 +
Aspirated Temperature 10m	32°	31.55	31.5 +
Delta Temperature (°C)	N/A	-1.74	-1.73 +
Solar Radiation (w/m²)	Sunny (Partly cloudy) Cloudy	416.629	822 *
Barometric Pressure (mmHg)	N/A	914.645*	686 +
Battery Voltage (V)	N/A	12.75	12.8 +
Time (MST)	N/A	12:53	13:00 LTP
Date	N/A	07/19/17	07/19/17 +

1066 - 12:30
1071 - 12:45
1051 - 13:15
947 - 13:30
* milibar

* No indications of precip and/or evap activity!? GG

*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, filled evap pan.*

Site Operator Signature:

AIR SCIENCES INC.

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/19/2017 Time: 1:17 Operator: P. 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). 07/17 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 BAM manual.*

66 -

YES	NO	
	–	1. Inlet flow check performed.
	–	2. Visual inspection and dust removal.
	–	3. Leak check performed.
	–	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/19/2017 Time: 1:21 Operator: P. 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). 07/10 Maintenance
✓		7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

6.6

YES	NO	
	–	1. Inlet flow check performed.
	–	2. Visual inspection and dust removal.
	–	3. Leak check performed.
	–	4. PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/27/17 Time: 2:10 Operator: P. Maduemo

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 datalogger 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	4.91	5.63 +
Direction* 10m (deg)	E	264.614	247 +
Ambient Temperature (°C)	36°	36.52	36.6 +
Relative Humidity (%)	25%	25.60	25 +
Aspirated Temperature 2m	36°	35.41	35.7 +
Aspirated Temperature 10m	35°	34.29	34.5 +
Delta Temperature (°C)	N/A	-0.73	-1.13 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	282.008	488 *
Barometric Pressure (mmHg)	N/A	683.731	684 +
Battery Voltage (V)	N/A	12.71	12.7 +
Time (MST)	N/A	2:16	14:15 - 1.5 +
Date	N/A	07/27/17	07/27/17 +

841 - 13:45
769 - 14:00
738 - 14:30
880 - 14:45

*Direction wind is from

* 0.035" of precip. invalidated @ 15:30 hrs! EC

Comments/Unusual Occurrences or Weather: Triggered precip gauge * Contacted Air Sciences.

Site Operator Signature:

AIR SCIENCES INC.

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/27/17 Time: 2:18 Operator: P. 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). 07/17 BAM CAL Alemisrone 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 BAM manual.*

66.

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 07/27/17 Time: 2:22 Operator: P. 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). 07/10 Maintenance
✓		7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

66.

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/01/17 Time: 08:21 Operator: P. Maducno

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 datalogger 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	1.43	1.62 +
Direction* 10m (deg)	W	271.074	264 +
Ambient Temperature (°C)	23°	23.77	24 +
Relative Humidity (%)	84%	84.51	85.2 +
Aspirated Temperature 2m	23°	22.43	22.5 +
Aspirated Temperature 10m	22°	22.33	22.4 +
Delta Temperature (°C)	N/A	-0.12	-0.124 +
Solar Radiation (w/m²)	Sunny / Partly cloudy / Cloudy	66.80	67 +
Barometric Pressure (mmHg)	N/A	686.764	687 +
Battery Voltage (V)	N/A	12.60	12.6 +
Time (MST)	N/A	08:29	08:30 L.T.P
Date	N/A	08/01/17	08/01/17 +

*Direction wind is from

* 0.004" of precip. inundated @ 8:15 hrs!

G.G.

Comments/Unusual Occurrences or Weather: Monthly Flow Verification; Filled evap pan; Triggered precip gauge *

Site Operator Signature:

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 08/01/17 Time: 08:31 Operator: P. Maducno

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). 07/29 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 BAM manual.*

YES	NO	
✓		1. Inlet flow check performed.
✓		2. Visual inspection and dust removal.
✓		3. Leak check performed.
✓		4. PM_{10} 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 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 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 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: Self Test passed.

Signature: [signature]

AIR SCIENCES INC

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM_{10}: S/N:
Firmware:
Calibrator: Deltacal S/N: 1034

Date of Flow Audit: 08/01/17
Time of Flow Audit: 08:30

	BAM	STD
Ambient Temperature (AT) °C	25.2	24.1
Barometric Pressure (BP) mmHg	685	685

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.1	0.7	15.34	1.6
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.62	1.2
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.97	1.6
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	0.3	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed

PM10 conc. + flow invalidated @ 08:00 hrs! GG

Signature:

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/01/17 Time: 08:27 Operator: P. 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). 07/29 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 BAM manual.*

YES	NO	
✓		1. Inlet flow check performed.
✓		2. Visual inspection and dust removal.
✓		3. Leak check performed.
✓		4. PM_{10} 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 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 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 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: Self Test Passed

Signature:

AIR SCIENCES INC

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

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

Firmware:

Calibrator: Deltacal S/N: 1034

Date of Flow Audit: 08/01/17

Time of Flow Audit: 08:55

	BAM	STD
Ambient Temperature (AT) °C	25.2	25.1
Barometric Pressure (BP) mmHg	685	685

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.07	0.5
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.50	0.5
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.82	0.7
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM
(2) Leak Test	0.4

Should be < 1.0 LPM

Comments/Abnormalities: Self Test Passed

PM 2.5 conc + flow initiated @ 09:00hr!

Signature:

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/10/17 Time: 07:50 Operator: P. Madueno

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

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1 m/s	1.43	1.5 +
Direction* 10m (deg)	SE	300.711	324 *
Ambient Temperature (°C)	30°	30.74	30.6 +
Relative Humidity (%)	39%	39.31	39.3 +
Aspirated Temperature 2m	30°	28.71	28.8 +
Aspirated Temperature 10m	29°	28.63	28.7 +
Delta Temperature (°C)	N/A	-0.14	-0.135 +
Solar Radiation (w/m²)	Sunny / Partly cloudy / Cloudy	39.20	36.1 +
Barometric Pressure (mmHg)	N/A	685.902	686 +
Battery Voltage (V)	N/A	12.20	12.2 +
Time (MST)	N/A	07:58	08:00 LTP
Date	N/A	08/10/17	08/10/17 +

88.8 - 7:30
30.1 - 7:45
39.6 - 8:15
30.1 - 8:30

*Direction wind is from * 0.016" of precip. inadvertent @ 08:30 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge. * 66

Site Operator Signature:

AIR SCIENCES INC.

West Plant
BAM PM_{10} WEEKLY SITE CHECK FORM
Resolution Copper Mining

Date: 08/10/17 Time: 08:00 Operator: P. 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). 08/01 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 BAM manual.*

GG.

YES	NO	
	✓	1. Inlet Flow check performed
	✓	2. Visual inspection and dust removal
	✓	3. Leak check performed
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant
BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM
Resolution Copper Mining

Date: 08/10/17 Time: ? Operator: P. Madrene

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). 08/01 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 BAM manual.*

GG.

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

GG.

YES	NO	
	✓	1. Filter tape replaced
	✓	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.*

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 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: [signature]

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/16/17 Time: 12:36 Operator: P. Madueno

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 datalogger 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	3.50	4.27 P
Direction* 10m (deg)	NW	131.286	181 ✗
Ambient Temperature (°C)	35°	35.37	35.5 P
Relative Humidity (%)	18%	18.26	18.8 P
Aspirated Temperature 2m	35°	33.40	33.6 P
Aspirated Temperature 10m	34°	31.11	31.1 P
Delta Temperature (°C)	N/A	-2.19	-2.53 P
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	996.623	996 P
Barometric Pressure (mmHg)	N/A	685.200	685 P
Battery Voltage (V)	N/A	12.75	12.8 P
Time (MST)	N/A	6:30 pm	12:45 - L.T.
Date	N/A	08/16/17	08/16/17

185 - 12:15
185 - 12:30
163 - 13:00
336 - 13:15

*Direction wind is from

0.11" and 0.028" of precip. invalidated @ 14:15 and 18:45 hrs!

Comments/Unusual Occurrences or Weather: Tower was down from 12:50 – 1:25. Removed all computer, modem, etc. replaced with far west computer, modem, etc.

Site Operator Signature:

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 08/10/17 Time: 12:42 Operator: P. 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). 08/01 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 BAM manual.*

GG

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/16/17 Time: 12:46 Operator: P. Maduero

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). 08/01 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 BAM manual.*

GG.

YES	NO		
	✓	1.	Inlet flow check performed.
	✓	2.	Visual inspection and dust removal.
	✓	3.	Leak check performed.
	✓	4.	PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/25/17 Time: 1:17 Operator: P. Maducnd

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 datalogger 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	2.96	3.04 +
Direction* 10m (deg)	N	39.55	348 ✱
Ambient Temperature (°C)	41°	41.17	41.1 +
Relative Humidity (%)	20%	20.70	20.3 +
Aspirated Temperature 2m	41°	36.65	36.6 +
Aspirated Temperature 10m	40°	35.47	35.3 +
Delta Temperature (°C)	N/A	-1.22	-1.25 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1017.44	941 +
Barometric Pressure (mmHg)	N/A	682.167	682 +
Battery Voltage (V)	N/A	12.70	12.7 +
Time (MST)	N/A	1:24	13:30 C.T.+
Date	N/A	08/25/17	08/25/17 +

239 - 13:00
231 - 13:15
262 - 13:45
284 - 14:00

*Direction wind is from ✱ 0.008" of precip. inadvertent @ 13:30 hrs!

Comments/ Unusual Occurrences or Weather: Triggered precip gauge, ✱ filled evap pan - ✓

66

Site Operator Signature:

AIR SCIENCES INC.

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/25/17 Time: 1:26 Operator: P. 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). 08/20 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 BAM manual.*

YES	NO		
	✓	1.	Inlet flow check performed.
	✓	2.	Visual inspection and dust removal.
	✓	3.	Leak check performed.
	✓	4.	PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/25/17 Time: 1:27 Operator: P. Maducuo

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). 08/16 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 BAM manual.*

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/29/17 Time: 2:00 Operator: P. 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 datalogger 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)	7m/s	6.96	311 +
Direction* 10m (deg)	SE	348.678	322 +
Ambient Temperature (°C)	41°	41.74	41.4 +
Relative Humidity (%)	18%	18.82	18.2 +
Aspirated Temperature 2m	41°	37.74	37.4 +
Aspirated Temperature 10m	40°	36.73	36.2 +
Delta Temperature (°C)	N/A	-1.19	-1.25 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	843.808	863 +
Barometric Pressure (mmHg)	N/A	683.799	684 +
Battery Voltage (V)	N/A	12.70	12.7 +
Time (MST)	N/A	2:07	14:00 L.T.P
Date	N/A	08/29/17	08/29/17 +

128 - 13:30
258 - 13:45
145 - 14:15
176 - 14:30

*Direction wind is from

* 0.012" of precip. indicated @ 14:30 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge. *

66

Site Operator Signature:

AIR SCIENCES INC.

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/29/17 Time: 2:09 Operator: P. 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). 08/20 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 BAM manual.*

YES	NO	
✓		1. Inlet flow check performed.
✓		2. Visual inspection and dust removal.
✓		3. Leak check performed.
✓		4. PM_{10} 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 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 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 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: Monthly Flow Verification. ✓ GG -

Signature: [signature]

AIR SCIENCES INC.

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM_{10}: S/N: M8712

Firmware:

Calibrator: Delta T S/N: 1034

Date of Flow Audit: 08/29/17

Time of Flow Audit: 2:30

	BAM	STD
Ambient Temperature (AT) °C	39.0	38.8
Barometric Pressure (BP) mmHg	682	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.42	2.7
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.75	1.9
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.90	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	0.2	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed

* PM10 conc. & flow invalidated for 15:00 hrs!

Signature:

G.G.

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 08/29/17 Time: 2:12 Operator: P. Maduemo

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). 08/29 Tape Tape Break
✓		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	
✓		1. Inlet flow check performed.
✓		2. Visual inspection and dust removal.
✓		3. Leak check performed.
✓		4. PM_{10} 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 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 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 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: Monthly Flow Verification ✓

Signature:

AIR SCIENCES INC.

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

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

Firmware:

Calibrator: Delta T S/N: 1034

Date of Flow Audit: 08/29/17

Time of Flow Audit: 2:15

	BAM	STD
Ambient Temperature (AT) °C	40.1	39.8
Barometric Pressure (BP) mmHg	682	682.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	OK	15.20	1.3
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	OK	18.67	1.4
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	OK	16.89	1.1
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM	
(2) Leak Test	0.5	**Should be < 1.0 LPM**

Comments/Abnormalities: Self Test Passed.

PM2.5 Conc. + flow invalidated @ 15:00 hrs!

Signature:

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/08/17 Time: 4:04 Operator: P. Madueno

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 datalogger 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	5.01	3.5 p
Direction* 10m (deg)	E	256.175	271 +
Ambient Temperature (°C)	35°	35.81	35.9 +
Relative Humidity (%)	29%	29.20	28.9 +
Aspirated Temperature 2m	35°	32.41	32.7 p
Aspirated Temperature 10m	34°	32.97	31.6 p
Delta Temperature (°C)	N/A	-0.96	-1.09 p
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	452.655	450 p
Barometric Pressure (mmHg)	N/A	682.679	683 +
Battery Voltage (V)	N/A	12.74	12.7 p
Time (MST)	N/A	4:09	16:15 L.T.P
Date	N/A	09/08/17	09/08/17 +

*Direction wind is from

* 0.032" of precip. unrecorded @ 16:15 hrs!

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, filled evap pan ✓ G.G.

Site Operator Signature:

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/08/17 Time: 4:11 Operator: P. Maduero

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). 09/08 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 BAM manual.*

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/08/17 Time: 4:15 Operator: P. 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). 08/29 Tape Tape Break
✓		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.*

GG.

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/12/17 Time: 11:00 Operator: P. Maduno

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 datalogger 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	2.96	2.77 +
Direction* 10m (deg)	E	208.996	183 *
Ambient Temperature (°C)	41°	41.94	41.8 +
Relative Humidity (%)	18%	18.44	18 +
Aspirated Temperature 2m	41°	37.70	37.1 +
Aspirated Temperature 10m	40°	35.92	35.5 +
Delta Temperature (°C)	N/A	-1.79	-1.64 +
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	879.033	861 +
Barometric Pressure (mmHg)	N/A	684.083	685 +
Battery Voltage (V)	N/A	12.68	12.7 +
Time (MST)	N/A	11:14	11:15 L.T.P
Date	N/A	09/12/17	09/12/17 +

285 - 10:45
41.5 - 11:00
220 - 11:30
211 - 11:45

*0.012" of precip. inundated @ 11:30 hrs!

*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, filled evap pan. ✓ 66.

Site Operator Signature: [signature]

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/12/17 Time: 11:18 Operator: P. Maduno

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). 09/12 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 BAM manual.*

6.6

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/12/17 Time: 11:20 Operator: P. Madwine

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). 08/29 Tape Tape Breaks.
✓		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		
	✓	1.	Inlet flow check performed.
	✓	2.	Visual inspection and dust removal.
	✓	3.	Leak check performed.
	✓	4.	PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/19/17 Time: 12:57 Operator: P. Madueno

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 datalogger 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	3.27	4.74 ✓
Direction* 10m (deg)	E	209.854	225 ✓
Ambient Temperature (°C)	34°	34.59	33.3 ✓
Relative Humidity (%)	29°	29.70	28.8 ✓
Aspirated Temperature 2m	34°	32.01	31.5 ✓
Aspirated Temperature 10m	33°	30.01	29.5 ✓
Delta Temperature (°C)	N/A	-2.04	-1.95 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	206.070	868 ☆
Barometric Pressure (mmHg)	N/A	683.254	683 ✓
Battery Voltage (V)	N/A	12.75	12.8 ✓
Time (MST)	N/A	1:03	13:00 CT ✓
Date	N/A	09/19/17	09/19/17 ✓

923 - 12:30
929 - 12:45
816 - 13:15
868 - 13:30

☆ 0.043" of precip. invalidated @ 13:15 hrs!

*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge ☆ filled evap pan. ☆

G.G.

Site Operator Signature: [signature]

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/19/17 Time: 1:05 Operator: P. Maducno

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). 09/19 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 BAM manual.*

66 -

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/19/17 Time: 1:10 Operator: D. 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). 08/29 Tape Tape Break.
✓		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.*

GG.

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

West Plant
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/26/17 Time: 1:20 Operator: P. 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 datalogger 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	2.15	2.77 +
Direction* 10m (deg)	E	233.240	263 *
Ambient Temperature (°C)	29°	29.05	28.8 +
Relative Humidity (%)	7%	7.37	7.44 +
Aspirated Temperature 2m	29°	29.90	27.7 +
Aspirated Temperature 10m	28°	28.60	26.7 +
Delta Temperature (°C)	N/A	-1.22	-1.06 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	711.097	806 +
Barometric Pressure (mmHg)	N/A	909.101	681 +
Battery Voltage (V)	N/A	12.78	12.8 +
Time (MST)	N/A	1:26	13:30 LT +
Date	N/A	09/26/17	09/26/17 +

245 - 13:00
248 - 13:15
251 - 13:45
254 - 14:00

*0.012" of precip. invalidated @ 13:30 hrs!

*! Evap. pan hasn't been filled?

*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge (*), filled evap pan. *!

Site Operator Signature:

West Plant

BAM PM_{10} WEEKLY SITE CHECK FORM

Resolution Copper Mining

AIR SCIENCES INC.

Date: 09/26/17 Time: 1:28 Operator: D. 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). 09/26 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 BAM manual.*

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: [signature]

AIR SCIENCES INC

Monthly Flow Verification PM_{10}

West Plant

PARTICULATE MONITORING PROJECT

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

Firmware:

Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 09/28/17

Time of Flow Audit: 2:00

	BAM	STD
Ambient Temperature (AT) °C	32.1	32.3
Barometric Pressure (BP) mmHg	682	681.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.55	3.5
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.52	0.6
Acceptable Differential		*18.032 - 18.768*	*+/- 2%*	*17.480 - 19.320*	*+/- 5%*
(3) Actual Flow	16.7	16.7	0	16.82	0.7
Acceptable Differential		*16.336 - 17.034*	*+/- 2%*	*15.865 - 17.535*	*+/- 5%*

Calculations:

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

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

	BAM
(2) Leak Test	0.4

Should be < 1.0 LPM

Comments/Abnormalities:

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

Signature: [signature]

66.

AIR SCIENCES INC.

West Plant

BAM $PM_{2.5}$ WEEKLY SITE CHECK FORM

Resolution Copper Mining

Date: 09/26/17 Time: 1:33 Operator: P. Maduna

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). 09/20 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 BAM manual.*

YES	NO	
	✓	1. Inlet flow check performed.
	✓	2. Visual inspection and dust removal.
	✓	3. Leak check performed.
	✓	4. PM_{10} 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 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 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 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: _____

AIR SCIENCES INC

Monthly Flow Verification $PM_{2.5}$

West Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020 $PM_{2.5}$: S/N:
Firmware:
Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 09/28/17
Time of Flow Audit: 2:30

	BAM	STD
Ambient Temperature (AT) °C	33.0	33.2
Barometric Pressure (BP) mmHg	681	681.5

	Set Point (lpm)	BAM	% Diff (1)	STD Flow Meter	% Diff (2)
(1) Actual Flow	15	15.0	0	15.07	0.5
Acceptable Differential		*14.700 - 15.300*	*+/- 2%*	*14.250 - 15.750*	*+/- 5%*
(2) Actual Flow	18.4	18.4	0	18.52	0.6
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	0.4

Should be < 1.0 LPM

Comments/Abnormalities:
* PM 2.5 conc. + flow invalidated for 15:00 hrs!

Signature:

Appendix F – Hewitt Station Site Check Forms

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/07/17 Time: 10:00 Operator: P. Maduena

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	4m/s	3.48	4.2 +
Direction* 10m (deg)	W	78.94	128 *
Speed 20m (m/s)	4m/s	3.99	5.58 +
Direction* 20m (deg)	W	89.38	132 *
Ambient Temperature (°C)	40°	40.01	41 +
Relative Humidity (%)	11%	11.76	11.3 +
Aspirated Temperature 2m	40°	39.67	40.4 +
Aspirated Temperature 10m	39°	38.58	38 +
Delta Temperature (°C)	N/A	-1.12	-1.38 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	797.790	777 +
Barometric Pressure (mmHg)	N/A	702.760	703 +
Battery Voltage (V)	N/A	12.66	12.7 +
Time (MST)	N/A	10:08	10:15 (1).+
Date	N/A	07/07/17	07/07/17 +

112 - 8:45
116 - 10:00
105 - 10:30
110 - 10:45

112 - 8:45
120 - 10:00
109 - 10:30
112 - 10:45

* 0.09" of precip. indicated @ 10:30 hrs!

*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, Data Download 06/29 - 07/07 ✓ 66

Site Operator Signature: _____

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 07/07/17 Time: 10:12 Operator: ?

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	14.18
Ambient Temp °C	40.70
Heater ON or OFF as Found	Off
Generator ON or OFF as Found	Off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty ¼ ½ ¾ Full
Date	07/07/17
Time	10:17

Comments/Unusual Occurrences:

Data Download 06/29 - 07/07

6.6

Operator Signature: [signature]

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Date: 06:11 ⟷ Time: 07/11/17 Operator: G. GYLYS

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day. 5min. ahead. - adjusted!
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	1	0.92	0.949 +
Direction* 10m (deg)	250	240	235 +
Speed 20m (m/s)	1	1.12	1.12 +
Direction* 20m (deg)	250	227	207 +
Ambient Temperature (°C)	23	25.5	25.6 +
Relative Humidity (%)	60	80	76.3 +
Aspirated Temperature 2m	23	24.5	25.2 +
Aspirated Temperature 10m	22	25.2	25.5 +
Delta Temperature (°C)	N/A	0.35	0.361 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	58.7	61.8 +
Barometric Pressure (mmHg)	N/A	703	703 +
Battery Voltage (V)	N/A	12.2	12.3 +
Time (MST)	N/A	06:20	06:30 - LT +
Date	N/A	07/11/17	07/11/17 +

GG

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

Site Operator Signature: _____

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 07-11-17 Time: 0800 Operator: Attrime

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.25
Ambient Temp °C	27.7
Heater ON or OFF as Found	OFF
Generator ON or OFF as Found	OFF
Rain Detection YES or NO	NO
Snow Detection YES or NO	NO
Antenna Status	OK
Speaker Array	OK
Fuel Level	Empty | ¼ ½ ¾ Full
Date	7-11-17 / 7:57
Time	7-11-17 08:02 As left

Comments/Unusual Occurrences:

CORRECT TIME DRIFT OF 2 min

GENERATOR INOP - REQUIRES service/repair

Operator Signature: _____

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/19/2017 Time: 10:52 Operator: P. Maduwuno

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit	
Speed 10m (m/s)	—	—	—	+
Direction* 10m (deg)	—	—	—	+
Speed 20m (m/s)	4m/s	3.78	3.03 +	281 - 10:30
Direction* 20m (deg)	E	231.642	263 *	268 - 10:45
Ambient Temperature (°C)	33°	33.44	33.5 +	259 - 11:15
Relative Humidity (%)	47%	47.45	46.8 +	263 - 11:30
Aspirated Temperature 2m	33°	33.24	32.8 +	
Aspirated Temperature 10m	32°	31.47	31.6 +	
Delta Temperature (°C)	N/A	-1.54	-1.23 +	
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	896.615	803 +	
Barometric Pressure (mmHg)	N/A	704.002	704 +	
Battery Voltage (V)	N/A	12.72	12.7 +	
Time (MST)	N/A	10:57	11:00 - C.T. +	
Date	N/A	07/19/2017	07/19/17 +	

*Direction wind is from

* No indication of precip. gauge being tipped? GG.

Comments/Unusual Occurrences or Weather: Triggered precip gauge*, Data Download 07/13 – 07/19 GG.

Site Operator Signature: [signature]

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 07/19/17 Time: 11:02 Operator: P. Maducno

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.98
Ambient Temp °C	33.16
Heater ON or OFF as Found	off
Generator ON or OFF as Found	off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty (¼) ½ ¾ Full
Date	07/19/17
Time	11:08

Comments/Unusual Occurrences:

Data Download 07/13 - 07/17

Operator Signature: [signature]

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/28/17 Time: 08:25 Operator: P. Maducuro

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)			— +
Direction* 10m (deg)			— +
Speed 20m (m/s)	1m/s	0.716	1.05 +
Direction* 20m (deg)	SW	146.171	80.4 ✗
Ambient Temperature (°C)	26°	28.49	26.8 +
Relative Humidity (%)	71%	71.46	70.4 +
Aspirated Temperature 2m	26°	25.75	26.1 +
Aspirated Temperature 10m	25°	25.19	25.4 +
Delta Temperature (°C)	N/A	-0.70	-0.728 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	298.101	288 +
Barometric Pressure (mmHg)	N/A	703.539	703 +
Battery Voltage (V)	N/A	12.84	12.8 +
Time (MST)	N/A	0838	08:45 _ Lin +
Date	N/A	07/28/17	07/28/17 +

70.7 - 8:15
86.9 - 8:30
88.7 - 9:00
129 - 9:15

*Direction wind is from

Comments/Unusual Occurrences or Weather:

Site Operator Signature:

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 07/28/17 Time: 08:41 Operator: P. Maduemo

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
	✓	The unit LCD is reading the correct time and day. 09/02/2010 Time: 21:06:45
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.38
Ambient Temp °C	27.10
Heater ON or OFF as Found	off
Generator ON or OFF as Found	off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Okay
Speaker Array	Good
Fuel Level	Empty (1/4) 1/2 3/4 Full
Date	07/28/17
Time	08:50

Comments/Unusual Occurrences:

Data Download 07/19 - 07/28. Changed date & time

66.

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/07/17 Time: 2:07 Operator: P. Maducno

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	— +
Direction* 10m (deg)	—	—	— +
Speed 20m (m/s)	1m/s	0.51	2.1 +
Direction* 20m (deg)	N	193.065	260 +
Ambient Temperature (°C)	37°	37.31	36.8 +
Relative Humidity (%)	17%	17.61	18.8 +
Aspirated Temperature 2m	37°	35.49	35.6 +
Aspirated Temperature 10m	36°	35.80	35.3 +
Delta Temperature (°C)	N/A	-0.25	-0.331 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	883.542	884 +
Barometric Pressure (mmHg)	N/A	701.599	702 +
Battery Voltage (V)	N/A	12.77	12.7 +
Time (MST)	N/A	2:13	14:15 LT +
Date	N/A	08/07/17	08/07/17 +

183 - 13:45
257 - 14:00
228 - 14:30
238 - 14:45

6.6

*Direction wind is from

Comments/Unusual Occurrences or Weather:

Site Operator Signature:

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 08/07/17 Time: 2:18 Operator: P. Maducuo

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.19
Ambient Temp °C	37.90
Heater ON or OFF as Found	Off
Generator ON or OFF as Found	Off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty ¼ ½ ¾ Full
Date	08/07/17
Time	

Comments/Unusual Occurrences:

Data Download 07/31 - 08/07. Unable to replace SoDar battery due to security screws.

OG.

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/11/17 Time: 08:40 Operator: P. Madueno

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	— +
Direction* 10m (deg)	—	—	— +
Speed 20m (m/s)	2m/s	1.94	1.84 +
Direction* 20m (deg)	W	191.736	113 +
Ambient Temperature (°C)	33°	33.50	33.8 +
Relative Humidity (%)	32%	32.94	32.1 +
Aspirated Temperature 2m	33°	33.37	32.8 +
Aspirated Temperature 10m	32°	32.53	32.6 +
Delta Temperature (°C)	N/A	0.036	-0.212 +
Solar Radiation (w/m²)	(Sunny) Partly cloudy Cloudy	539.616	526 +
Barometric Pressure (mmHg)	N/A	540.201 ?	701 -
Battery Voltage (V)	N/A	12.74	12.8 +
Time (MST)	N/A	08:45	08:45 L.T.+
Date	N/A	08/11/17	08/11/17+

58.5 - 8:15
86.3 - 8:30
~~71.5~~ - 8:00
54.8 - 8:15

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 08/07 - ~~08/11~~ ✓ GG

Site Operator Signature: [signature]

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 08/11/17 Time: 08:48 Operator: P. Maduano

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.61
Ambient Temp °C	34.70
Heater ON or OFF as Found	Off
Generator ON or OFF as Found	Off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Okay
Speaker Array	Good
Fuel Level	Empty (¼) ½ ¾ Full
Date	08/11/17
Time	10:50

Comments/Unusual Occurrences:

Data Download 08/07-08/11. Replaced battery. After replacement time and date was changed to actual time and date. Powered down for minute or so and powered back up. Date, minutes & seconds remained the same except hour. For example actual time was 10:49:02. Powered down for minute or so and hour changed to 18:50:04. Changed time muliple times, shut down and powered back on with same result. After mulitple tries time was change to actual time and left as is. Contacted Air Sciences.

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/25/17 Time: 11:38 Operator: P. Madacano

YES	NO	
		1. The tower is intact and upright.
		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	— +
Direction* 10m (deg)	—	—	— +
Speed 20m (m/s)	3m/s	3.17	2.65 +
Direction* 20m (deg)	5	259.234	266 +
Ambient Temperature (°C)	37°	37.70	37.5 +
Relative Humidity (%)	22%	22.07	21.8 +
Aspirated Temperature 2m	37°	37.11	36.7 +
Aspirated Temperature 10m	36°	35.70	35.7 +
Delta Temperature (°C)	N/A	-1.42	-1.02 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	916.845	911 +
Barometric Pressure (mmHg)	N/A	699.689	700 +
Battery Voltage (V)	N/A	12.69	12.7 +
Time (MST)	N/A	11:43	11:45 LT +
Date	N/A	08/25/17	08/25/17 +

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 08/11 - 08/25

Site Operator Signature:

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 08/25/17 Time: 08:48 Operator: P. Madueno

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.14
Ambient Temp °C	38.30
Heater ON or OFF as Found	Off
Generator ON or OFF as Found	Off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty ¼ ½ ¾ Full
Date	08/25/17
Time	08:52

Comments/Unusual Occurrences:

Data Download 08/11 - 08/25

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/30/2017 Time: 11:40 Operator: P. Madueno

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	— +
Direction* 10m (deg)	—	—	— +
Speed 20m (m/s)	2m/s	1.74	5.61 +
Direction* 20m (deg)	W	190.030	155 +
Ambient Temperature (°C)	37°	37.86	38.1 +
Relative Humidity (%)	19%	19.40	18 +
Aspirated Temperature 2m	37°	36.96	37.5 +
Aspirated Temperature 10m	36°	35.84	35.9 +
Delta Temperature (°C)	N/A	-1.14	-1.56 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	885.931	881 +
Barometric Pressure (mmHg)	N/A	701.496	702 +
Battery Voltage (V)	N/A	12.70	12.7 +
Time (MST)	N/A	11:47	11:45 L.T. +
Date	N/A	08/30/17	08/30/17 +

137 - 11:15
144 - 11:30
144 - 12:00
127 - 12:15

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 08/25 - 08/30 ✓ 66

Site Operator Signature: _____

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 08/30/17 Time: 11:50 Operator: P. Maduena

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
	✓	The unit LCD is reading the correct time and day. Time shows 19:50:52
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.15
Ambient Temp °C	38.80
Heater ON or OFF as Found	off
Generator ON or OFF as Found	off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	OKAY
Fuel Level	Empty ¼ ½ ¾ Full
Date	08/30/17
Time	11:56

Comments/Unusual Occurrences:

Data Download 08/25 - 08/30. Changed time.

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/08/17 Time: 3:00 Operator: P. Maduena

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	— ✓
Direction* 10m (deg)	—	—	— ✓
Speed 20m (m/s)	3m/s	2.96	4.15 ✓
Direction* 20m (deg)	E	303.554	283 ✓
Ambient Temperature (°C)	35°	35.56	35.5 ✓
Relative Humidity (%)	25%	25.75	25.8 ✓
Aspirated Temperature 2m	35°	34.79	34.8 ✓
Aspirated Temperature 10m	34°	33.74	33.5 ✓
Delta Temperature (°C)	N/A	-1.28	-1.37 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	609.482	608 ✓
Barometric Pressure (mmHg)	N/A	700.144	700 ✓
Battery Voltage (V)	N/A	12.72	12.7 ✓
Time (MST)	N/A	3:08	15:15 L.T. ✓
Date	N/A	08/08/17	09/08/17 ✓

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 08/20 - 09/08 ✓

Site Operator Signature:

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 09/08/17 Time: 3:10 Operator: P. Maduena

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

✓ SoDAR System Status	4000WE
Battery Voltage (V)	13.18
Ambient Temp °C	35.00
Heater ON or OFF as Found	off
Generator ON or OFF as Found	off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty ¼ ½ ¾ Full
Date	09/08/17
Time	3:16

Comments/Unusual Occurrences:

Data Download 08/30 – 09/08

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/13/17 Time: 2:30 Operator: P. Madueno

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)			
Direction* 10m (deg)			
Speed 20m (m/s)	6 m/s	6.15	4.16 P
Direction* 20m (deg)	N	232.597	248 P
Ambient Temperature (°C)	37°	37.68	40 P
Relative Humidity (%)	16°	16.01	15.8 P
Aspirated Temperature 2m	37°	38.90	39.3 P
Aspirated Temperature 10m	36°	37.60	37.4 P
Delta Temperature (°C)	N/A	-1.04	-1.86 P
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	677.996	702 P
Barometric Pressure (mmHg)	N/A	698.002	698 P
Battery Voltage (V)	N/A	12.60	12.7 P
Time (MST)	N/A	2:41	16:45 - 6.1 P
Date	N/A	09/13/17	09/13/17 P

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 09/08 - 09/13 * 8.6

Site Operator Signature: [signature]

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 09/13/17 Time: 2:45 Operator: P. Madueno

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.16
Ambient Temp °C	39.60
Heater ON or OFF as Found	off
Generator ON or OFF as Found	Off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty (1/4) 1/2 3/4 Full
Date	09/13/17
Time	2:57

Comments/Unusual Occurrences:

Data Download 09/08 - 09/13 G.G.

Operator Signature: [signature]

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/20/17 Time: 1:00 Operator: P. Maduena

YES	NO	
✓		1. The tower is intact and upright.
✓		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
✓		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
✓		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	—
Direction* 10m (deg)	—	—	—
Speed 20m (m/s)	S w/s	5.22	4.47 p
Direction* 20m (deg)	E	246.300	239 p
Ambient Temperature (°C)	34°	34.67	35.2 p
Relative Humidity (%)	22%	22.72	22.2 p
Aspirated Temperature 2m	34°	33.94	34.3 p
Aspirated Temperature 10m	33°	32.18	32.4 p
Delta Temperature (°C)	N/A	-1.81	-1.92 p
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	831.140	831 p
Barometric Pressure (mmHg)	N/A	700.041	700 p
Battery Voltage (V)	N/A	12.70	12.7 p
Time (MST)	N/A	1:08	13:15 - 17 p
Date	N/A	09/20/17	09/20/17 p

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 09/13 - 09/20

Site Operator Signature:

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 09/20/17 Time: 1:10 Operator: P. Madueno

YES	NO	
/		The unit is level.
/		The enclosure and drain holes are free of debris.
/		The unit is running and the signal pulses are audible.
/		The enclosure and system cables have been inspected.
/		The unit LCD is reading the correct time and day.
/		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
/		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.18
Ambient Temp °C	33.90
Heater ON or OFF as Found	off
Generator ON or OFF as Found	off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty ¼ ½ ¾ Full
Date	09/20/17
Time	

Comments/Unusual Occurrences:

Data Download 09/13 – 09/20

B.G.

Operator Signature:

Hewitt Station
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/26/17 Time: 12:29 Operator: P. Madueno

YES	NO	
		1. The tower is intact and upright.
		2. The anemometer propellers and the wind direction vanes 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 datalogger is reading the correct time and day.
		8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
		9. Estimate and document the parameters below.

Parameter	Estimated	Logger	Audit
Speed 10m (m/s)	—	—	—
Direction* 10m (deg)	—	—	—
Speed 20m (m/s)	2m/s	2.76	3.45 +
Direction* 20m (deg)	E	272.192	257 +
Ambient Temperature (°C)	30°	30.65	30.1 +
Relative Humidity (%)	7%	7.36	8.46 +
Aspirated Temperature 2m	30°	29.27	28.3 +
Aspirated Temperature 10m	29°	28.97	27.6 +
Delta Temperature (°C)	N/A	-1.41	-1.7 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	335.162	730 ✱
Barometric Pressure (mmHg)	N/A	698.930	699 +
Battery Voltage (V)	N/A	12.78	12.8 +
Time (MST)	N/A	12:36	12:30 L.T.
Date	N/A	09/26/17	09/26/17 +

755 - 12:00
525 - 12:15
730 - 12:45
708 - 13:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 09/20 - 09/28 ✓ 6.6.

Site Operator Signature:

AIR SCIENCES INC.

Hewitt Station
SoDAR SITE CHECK FORM
Resolution Copper Company

Date: 09/26/17 Time: 12:38 Operator: P. Maduena

YES	NO	
✓		The unit is level.
✓		The enclosure and drain holes are free of debris.
✓		The unit is running and the signal pulses are audible.
✓		The enclosure and system cables have been inspected.
✓		The unit LCD is reading the correct time and day.
✓		The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.)
✓		Document the parameters below.

SoDAR System Status	4000WE
Battery Voltage (V)	13.21
Ambient Temp °C	30.20
Heater ON or OFF as Found	off
Generator ON or OFF as Found	Off
Rain Detection YES or NO	No
Snow Detection YES or NO	No
Antenna Status	Good
Speaker Array	Okay
Fuel Level	Empty (1/4) 1/2 3/4 Full
Date	09/26/17
Time	12:44

Comments/Unusual Occurrences:

Data Download 09/20 – 09/26

6.6

Operator Signature: [signature]

Appendix G – Far West Station Site Check Forms

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 07/28/17 Time: 10:00 Operator: P. Maducano

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 datalogger 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)	1m/s	0.61	1.1 ✓
Direction* 10m (deg)	NW	304.870	62.3 ✓
Ambient Temperature (°C)	29.0	29.75	28.6 ✓
Relative Humidity (%)	52%	52.72	54.1 ✓
Aspirated Temp 2m	29°	29.72	28.3 ✓
Aspirated Temp 10m	28°	29.21	28.8 ✓
Delta Temperature (°C)	N/A	-0.43	-0.431 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1039.11	728 ✓
Barometric Pressure (mmHg)	N/A	715.586	716 ✓
Battery Voltage (V)	N/A	12.99	13 ✓
Time (MST)	N/A	10:07	10:00 C.T. ✓
Date	N/A	07/28/17	07/28/17 ✓

114 - 9:30
125 - 9:45
131 - 10:15
283 - 10:30

908 - 9:30
618 - 9:45
882 - 10:15
814 - 10:30

*Direction wind is from

Comments/Unusual Occurrences or Weather: Shut down both BAM's ✓ EG

Site Operator Signature: [signature]

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/07/17 Time: 08:02 Operator: P. 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 datalogger 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	2.52 P
Direction* 10m (deg)	N	118.486	144 P
Ambient Temperature (°C)	32°	31.98	31.8 P
Relative Humidity (%)	27%	27.23	27.6 P
Aspirated Temp 2m	32°	32.07	31.8 P
Aspirated Temp 10m	31°	31.10	31.1 P
Delta Temperature (°C)	N/A	-0.80	-0.688 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	485.486	488 P
Barometric Pressure (mmHg)	N/A	714.427	715 P
Battery Voltage (V)	N/A	12.71	12.7 P
Time (MST)	N/A	8:10	08:15 LT +
Date	N/A	8/07/17	08/07/17 +

114 - 07:45
127 - 08:00
155 - 08:30
171 - 08:45

*Direction wind is from

Comments/Unusual Occurrences or Weather: _____

Site Operator Signature: _____

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/16/17 Time: 08:37 Operator: D. Maducno

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 datalogger 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	3.48	2.15 f
Direction* 10m (deg)	SW	147.550	115 ✱
Ambient Temperature (°C)	31°	31.58	30.3 f
Relative Humidity (%)	21%	21.15	23.7 f
Aspirated Temp 2m	31°	31.50	30.8 f
Aspirated Temp 10m	30°	30.77	30.3 f
Delta Temperature (°C)	N/A	-0.86	-0.502 f
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	603.831	537 f
Barometric Pressure (mmHg)	N/A	714.752	715 f
Battery Voltage (V)	N/A	12.96	12.9 f
Time (MST)	N/A	10:32.	08:30 L.T f
Date	N/A	08/16/17	08/16/17 f

80.5 – 8:00
80.7 – 8:15
140 – 8:45
144 – 9:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 07/19 – 08/16
Removed antenna and replaced at west Plant.

Site Operator Signature:

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/25/17 Time: 12:25 Operator: P. 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 datalogger 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	4.30	2.89 +
Direction* 10m (deg)	N	229.605	260 ★
Ambient Temperature (°C)	37°	37.44	37.5 +
Relative Humidity (%)	20%	20.44	20.6 +
Aspirated Temp 2m	37°	37.96	37.7 +
Aspirated Temp 10m	36°	36.42	36.5 +
Delta Temperature (°C)	N/A	-1.66	-1.24 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1036.79	1034 +
Barometric Pressure (mmHg)	N/A	711.459	712 +
Battery Voltage (V)	N/A	12.76	12.8 +
Time (MST)	N/A	12:30	12:30 - L.T. +
Date	N/A	08/25/17	08/25/17 +

254 - 12:00
260 - 12:15
252 - 12:45
229 - 13:00

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download. ✓ 66 -

Site Operator Signature:

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/30/2017 Time: 10:45 Operator: P. 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 datalogger 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	4.71	4.85 P
Direction* 10m (deg)	W	150-557	136 P
Ambient Temperature (°C)	37°	37.40	37.5 P
Relative Humidity (%)	18°	18:09	18 P
Aspirated Temp 2m	37°	37.55	37.7 P
Aspirated Temp 10m	36°	36.49	36.3 P
Delta Temperature (°C)	N/A	-1.04	-1.41 P
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	933.154	816 P
Barometric Pressure (mmHg)	N/A	713.776	714 P
Battery Voltage (V)	N/A	12.76	12.8 P
Time (MST)	N/A	11:02	11:00 L.T.P
Date	N/A	08/30/17	08/30/17

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 08/25 - 08/30 ✓ 06

Site Operator Signature:

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 08/08/17 Time: 2:02 Operator: P. Madueno

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 datalogger 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)	Sm/s	5.01	3.72 p
Direction* 10m (deg)	S	231.626	241 p
Ambient Temperature (°C)	33°	33.61	33.8 p
Relative Humidity (%)	29%	29.11	28.5 p
Aspirated Temp 2m	33°	33.75	34.2 p
Aspirated Temp 10m	32°	32.84	32.8 p
Delta Temperature (°C)	N/A	−1.19	−1.24 p
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	639.942	854
Barometric Pressure (mmHg)	N/A	713.124	713 p
Battery Voltage (V)	N/A	? 950.756 ?	12.8 p
Time (MST)	N/A	2:12	14:15 L.T.P
Date	N/A	09/08/17	08/08/17 p

687 - 13:45
831 - 14:00
816 - 14:30
783 - 14:45

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 08/30 - 09/08

Site Operator Signature:

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/12/17 Time: 09:10 Operator: P. Maduro

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.
✓		8. The datalogger 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	2.76	3.43 P
Direction* 10m (deg)	NE	280.520	167 ~~P~~
Ambient Temperature (°C)	34°	34.42	34.5 P
Relative Humidity (%)	22%	22.42	22.7 P
Aspirated Temp 2m	34°	34.51	34.5 P
Aspirated Temp 10m	33°	33.77	33.5
Delta Temperature (°C)	N/A	-0.82	-1.02 P
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	647.161	620 P
Barometric Pressure (mmHg)	N/A	714.279	714 P
Battery Voltage (V)	N/A	12.91	12.9 P
Time (MST)	N/A	09:22	09:15 L.T.P
Date	N/A	?	09/12/17 P

152 - 8:45
163 - 9:00
173 - 9:30
165 - 9:45

6.6.

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Downloaded 09/08 - 09/12

Site Operator Signature:

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/19/17 Time: 10:50 Operator: D. 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 datalogger 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	5.52	4.42 ✓
Direction* 10m (deg)	NE	197.476	205 ✓
Ambient Temperature (°C)	31°	31.84	31.7 ✓
Relative Humidity (%)	32°	32.80	33 ✓
Aspirated Temp 2m	31°	31.72	31.5 ✓
Aspirated Temp 10m	30°	30.44	30.5 ✓
Delta Temperature (°C)	N/A	-1.28	-1.08 ✓
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	914.326	822 ✓
Barometric Pressure (mmHg)	N/A	713.913	714 ✓
Battery Voltage (V)	N/A	12.94	12.8 ✓
Time (MST)	N/A	11:10	11:15 L.T. ✓
Date	N/A	09/19/17	09/19/17 ✓

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 09/12 – 09/19 ✓ ✓ CC

Site Operator Signature: [signature]

Far West
MET SITE CHECK FORM
Resolution Copper Company

AIR SCIENCES INC.

Date: 09/26/17 Time: 11:30 Operator: P. Maduemo

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 datalogger 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 m/s	0.00	1.82 +
Direction* 10m (deg)	NE	143.792	253 ✱
Ambient Temperature (°C)	28°	28.98	28.2 +
Relative Humidity (%)	7%	7.66	8.12 +
Aspirated Temp 2m	28°	27.92	28.5 +
Aspirated Temp 10m	27°	27.44	27.4 +
Delta Temperature (°C)	N/A	-0.61	-1.07 +
Solar Radiation (w/m²)	Sunny Partly cloudy Cloudy	1156.86	881 ✱
Barometric Pressure (mmHg)	N/A	711.866	712 +
Battery Voltage (V)	N/A	13.02	13 +
Time (MST)	N/A	11:50	11:45 L.T. +
Date	N/A	09/26/17	09/26/17 +

232 - 11:15
272 - 11:30
242 - 12:00
188 - 12:15

887 - 11:15
888 - 11:30
885 - 12:00
863 - 12:15

*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 09/19 - 09/26 ✓ 66

Site Operator Signature:

Appendix H – Second Quarter 2017 Full Audit Report

AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Air Quality Audit and Calibration Report: Resolution Copper Monitoring Sites

PREPARED FOR:
RESOLUTION COPPER MINING

PREPARED BY:
AIR SCIENCES INC.

PROJECT NO. 262-29
JULY 2017

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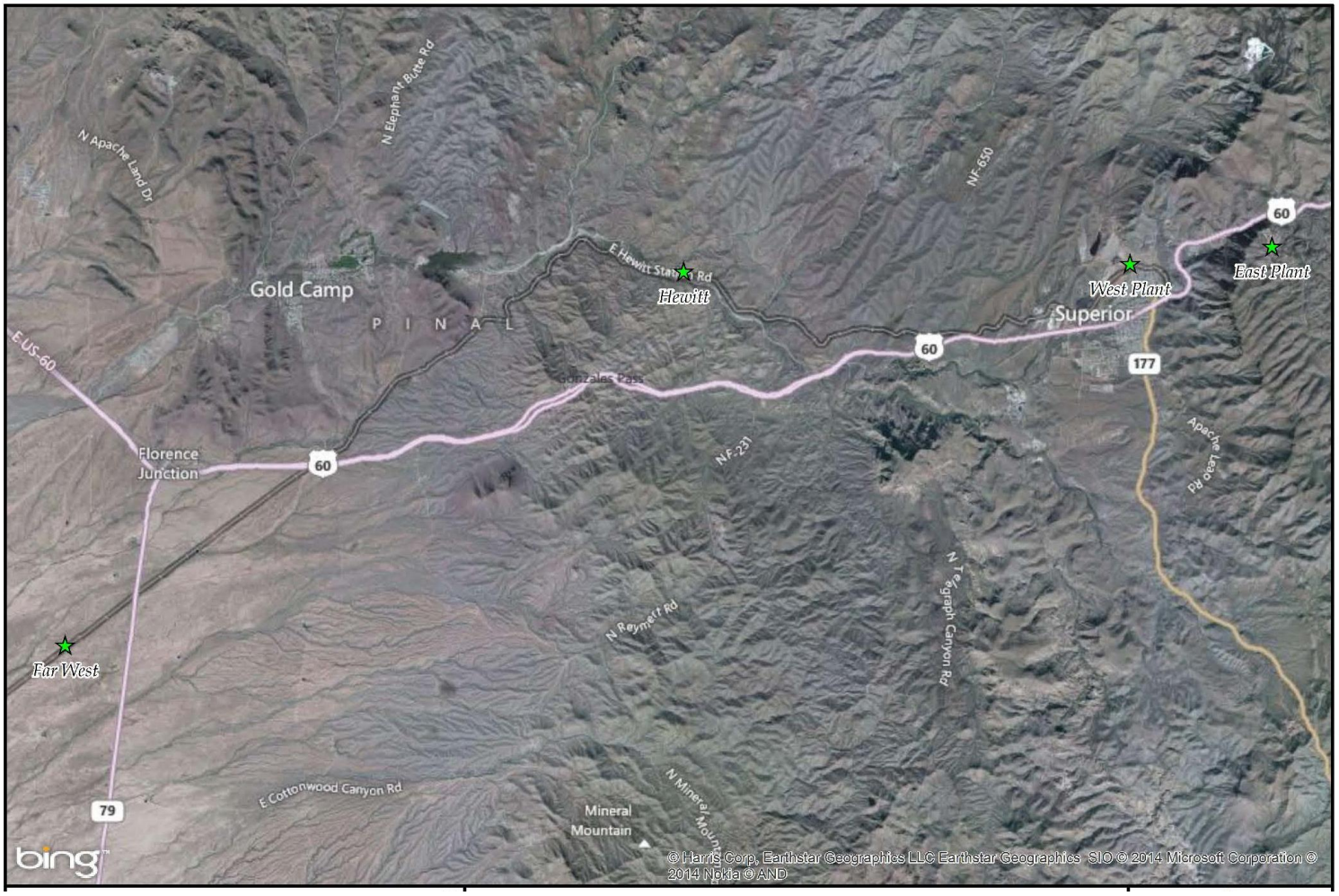
1.0 INTRODUCTION

From July 10, 2017 to July 14, 2017, the meteorological and air quality instrumentation was audited at the Resolution Copper Mining Company's monitoring sites near Superior, AZ. The purpose of this document is to provide a synopsis of the air quality monitoring systems and of the audit and calibration procedures for the monitoring instrumentation at the East Plant, West Plant, Far West Plant, and Hewitt Station monitoring sites. Figure 1 shows a map of each of these monitoring sites.

Audit and calibration procedures for these monitoring sites are 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. Station Location Map – East Plant, West Plant, Far West Plant, and Hewitt Stations



2.0 MONITORING SYSTEM DESCRIPTION

2.1 Measured Parameters

The Resolution Copper monitoring sites' instrumentation measures the following parameters:

East Plant:	
Meteorological Data	Wind speed, wind direction, horizontal wind direction standard deviation (sigma theta), ambient temperature, vertical height temperature difference (delta temperature), relative humidity, solar radiation, barometric pressure, and precipitation
Particulate Matter Data	Particulate matter less than 10 and 2.5 microns in diameter (PM_{10} and $PM_{2.5}$)
Gaseous Data	Nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and ozone (O_3)

West Plant:	
Meteorological Data	Wind speed, wind direction, horizontal wind direction standard deviation (sigma theta), ambient temperature, vertical height temperature difference (delta temperature), relative humidity, solar radiation, barometric pressure, and precipitation
Particulate Matter Data	Particulate matter less than 10 and 2.5 microns in diameter (PM_{10} and $PM_{2.5}$)

Far West Plant:	
Meteorological Data	Wind speed, wind direction, horizontal wind direction standard deviation (sigma theta), ambient temperature, vertical height temperature difference (delta temperature), relative humidity, solar radiation, and barometric pressure
Particulate Matter Data	PM_{10} and $PM_{2.5}$

Hewitt Station:	
Meteorological Data	Wind speed, wind direction, horizontal wind direction standard deviation (sigma theta), ambient temperature, vertical height temperature difference (delta temperature), relative humidity, solar radiation, and barometric pressure
Upper-air Data	SoDAR (Sonic Detection And Ranging)

The monitoring stations are listed in Table 1, along with the associated measured parameters.

Table 1. Monitoring Stations

		East Plant	West Plant	Far West Plant	Hewitt
Meteorological Data	Horizontal wind speed (meters per second [m/s])	✓	✓	✓	✓
	Horizontal wind direction (degrees [°])	✓	✓	✓	✓
	Horizontal wind direction standard deviation (sigma theta)	✓	✓	✓	✓
	Air temperature (degrees Celsius [°C])	✓	✓	✓	✓
	Vertical temperature difference (ΔT, Delta T, °C)	✓	✓	✓	✓
	Relative humidity (percent [%])	✓	✓	✓	✓
	Solar radiation (watts per square meter [W/m^2])	✓	✓	✓	✓
	Barometric pressure (millimeters of mercury [mmHg])	✓	✓	✓	✓
	Precipitation (inches [in])	✓	✓		
Ambient Air Data (PM and Gas)	Particulate matter less than 10 microns (PM_{10})	✓	✓	✓	
	Particulate matter less than 2.5 microns ($PM_{2.5}$)	✓	✓	✓	
	Sulfur dioxide (SO_2)	✓			
	Ozone (O_3)	✓			
	Nitrogen dioxide (NO_2)	✓			
Upper-Air (SoDAR) Data	Wind speed by vector component (u, v, w; m/s)				✓
	Wind direction by sub-hourly scalar mean (direction [°])				✓
	Standard deviation of vector component (u, v, w)				✓

2.2 Monitoring System Sensors

The meteorological sensors are mounted to 35-foot, open-lattice, aluminum drop towers that tip down for easy access for audits and calibrations. The particulate and gaseous analyzers are housed in 60-square-foot climate-controlled trailers, which are well equipped for internal temperature control and provide easy roof access to inlets and manifolds. The sensor and particulate inlet heights are listed in Table 2 (as measured from ground-level). Figure 2 and Figure 3 provide schematics of the sensor heights at the monitoring stations.

Table 2. Sensors and Sample Inlet 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
Precipitation	Ground
PM_{10}	2, 3
$PM_{2.5}$	2, 3
NO_2	3
SO_2	3
O_3	3
SoDAR	2.5

Figure 2. Meteorological Sensor Heights – East Plant, West Plant, and Far West Stations

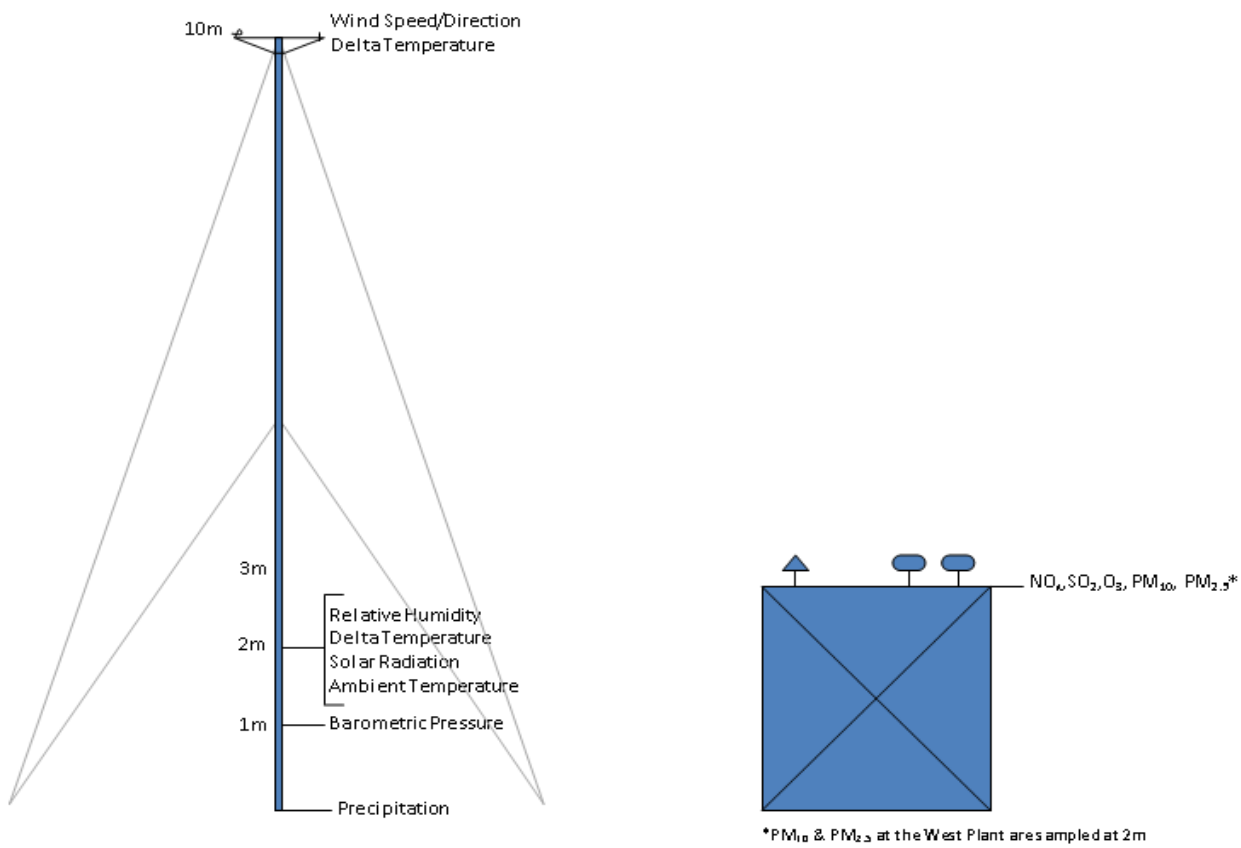
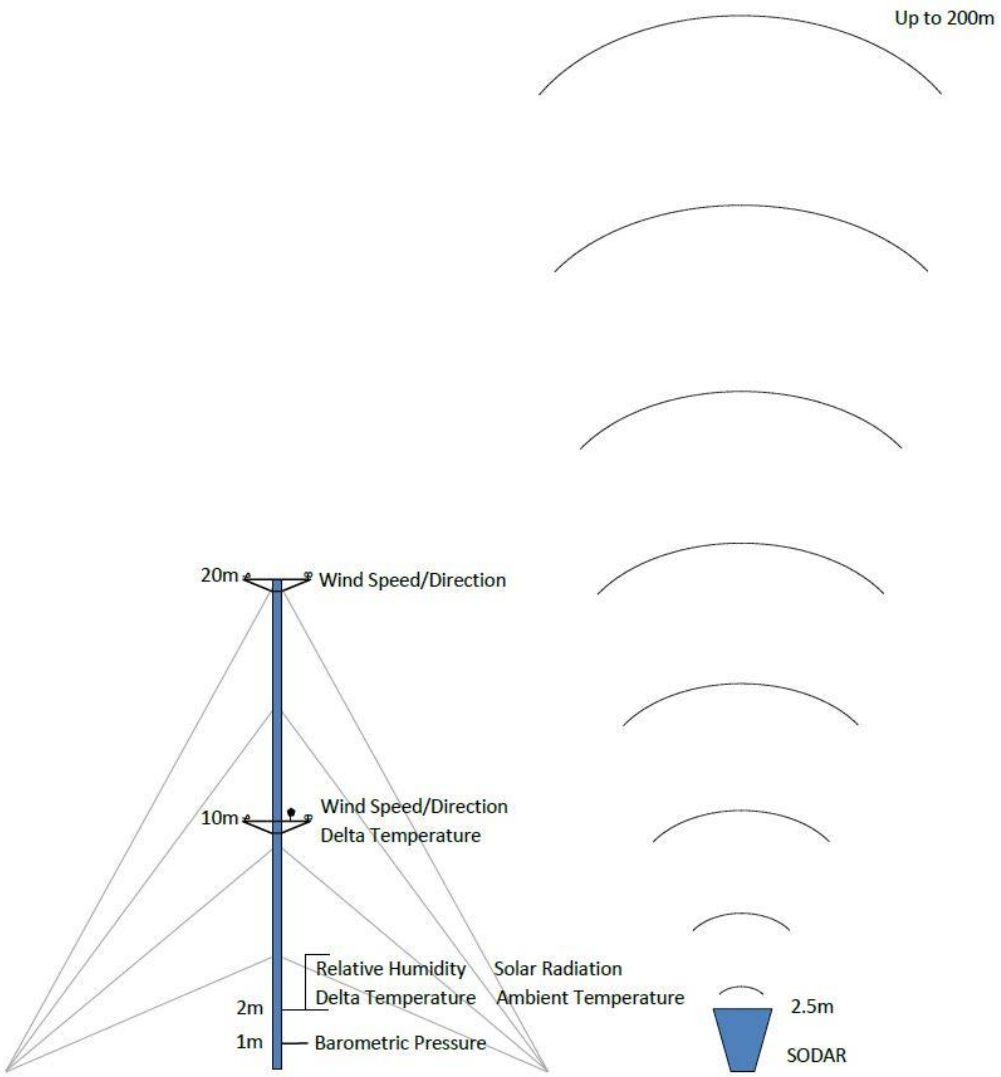


Figure 3. Sensor Heights – Hewitt Station



2.3 Monitoring System Instruments

Meteorological and ambient gas data are recorded via analog inputs on Campbell Scientific CR3000 dataloggers, powered independently by DC solar power or by locally supplied AC line 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 Met One Instruments, Inc. model BAM-1020 particulate monitors. The BAM-1020 is a continuous particulate 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.

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 Inc. 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 AND CALIBRATION METHODOLOGY

This section provides the audit and calibration procedures for the meteorological, particulate, ambient gas, and upper-air instrumentation at the Resolution Copper monitoring sites. Copies of completed audit and calibration forms are included in Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, and Appendix H.

3.1 Meteorological Sensor Audit and Calibration Procedures

Wind speed sensor audits and calibrations are 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 is calculated based on the audit rotational speed and compared to the instantaneous datalogger reading. An R. M. Young Torque Disc is used to measure the anemometer starting torque. All data are recorded on a standardized form.

Audits and calibrations of the wind direction system are performed by aligning the tail vane of the sensor to its mounting cross-arm. A Brunton Precision Magnetic Compass (BPMC) mounted on a nonmagnetic tripod is 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 is compared to the BPMC-measured value and recorded on a standardized form. The potentiometer linearity is checked by recording the system response at 45-degree intervals over the operating range of the system. Data are recorded on a standardized form.

Ambient temperature sensor audits and calibrations are performed by comparing the temperature sensor in-situ to a NIST-traceable[2] temperature sensor. Both thermometer and datalogger readings are recorded on a standardized form.

Differential temperature sensor audits and calibrations are 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 are checked by immersing the sensors in separate water baths. All cabling and associated wiring remain intact for the audit of both sensors. A Precision Temperature Sensor is used to measure the bath temperatures. All data are recorded on a standardized form.

Relative humidity sensor audits and calibrations are performed by comparing the humidity sensor in-situ to a NIST-traceable humidity sensor. Both the standard and datalogger readings are 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

Solar radiation sensor audits and calibrations are performed by comparing the sensor in-situ to a calibrated pyranometer wired to an independent datalogger. Both the standard and the datalogger readings are recorded on a standardized form.

Barometric pressure sensor audits and calibrations are performed by comparing the sensor in-situ to a NIST-traceable barometric pressure standard. Both the standard and datalogger readings are recorded on a standardized form.

Precipitation gauges are audited and calibrated by employing a graduated syringe and distilled water. The volume of water required to cause the tipping bucket to activate is measured repeatedly, averaged, and compared to the calculated value for the activation. All volumes are recorded on a standardized form.

3.2 Particulate Matter Monitor Audit and Calibration Procedures

BAM-1020 PM_{10} and $PM_{2.5}$ monitors are audited and calibrated by comparing and then adjusting the temperature, barometric pressure, and internal flow to a certified deltaCal Volumetric Air Flow Calibrator. All required maintenance is performed on the instruments to assure optimal operations. The temperature, barometric pressure, and flow output readings from the deltaCal and the BAM-1020 monitor are recorded on a standardized form.

3.3 Ambient Gas Audit and Calibration Procedures

Audits and calibrations of the Teledyne T100 SO_2 and T200 NO_X analyzers involve a Multi-Point Audit (MPA) or a Multi-Point Calibration (MPC). MPAs are 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. MPCs are performed by using a Primary Standard Teledyne API T700 Dilution Calibrator to dilute certified multi-component EPA-protocol span gas with a clean zero-air source. The T100 SO_2 and T200 NO_X analyzers are challenged at zero, and at five points within the measured range—a point from 20, 40, 60, 80 and 100 parts per billion (ppb) of SO_2 or NO_X.

Audits and calibrations of the Teledyne T400 O_3 analyzer involve an MPA or an MPC. MPAs and MPCs are performed by using a Transfer Standard Teledyne API T700 Dilution Calibrator to generate O_3 gas to audit or calibrate the T400 analyzer at zero, and at five points within the measured range—a point from 30, 60, 80, 100, and 120 ppb of O_3.

3.4 SoDAR System Audit and Comparison Procedures

SoDAR system audits are performed by initially checking the proper mode of operation and peripheral operating systems, including the on-board generator, solar power, and communication systems, in accordance with manufacturer recommendations. The separate and distinct pulse patterns of the SoDAR are evaluated by generalized audibility. The SoDAR rotation angle is obtained by siting along the y-axis of the antenna using a BPMC mounted on a

non-magnetic tripod, and then compared to the system's software settings. To ensure a proper system level, a digital level is used to measure the pitch and roll of the SoDAR horizontally. The SoDAR computer is accessed through the system's LCD interface to obtain the reported date, time, speaker array, and antenna status. The SoDAR monitoring site is inspected for physical obstructions and unusual ambient noise sources or echoes. The SoDAR system audit results are recorded on a standardized form.

The comparison method is performed to quantify the reasonableness of the SoDAR data. The SoDAR data are compared to the data collected from an adjacent tower. Using the comparison approach, at least 24 hours of data from the tower and SoDAR are compared at the 20-meter level. This comparison method provides 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 are applied using hourly averaged wind speeds equal to or greater than four meters per second.

4.0 RESULTS AND RECOMMENDATIONS

During the audit from July 10, 2017 to July 14, 2017, all instruments, sensors, and operating systems were found to be clean, serviceable, and within their recommended tolerance parameters, with the exception of 20 m wind monitor at Hewitt Station. The wind monitor showed deteriorating directional potentiometer (specifically for W, NW, and N directions). The wind monitor at 20 m was replaced with 10 m wind monitor.

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

Appendix A – West Plant Audit Forms

METEOROLOGICAL STATION
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Client : Resolution Copper Company
Project No. : 262-29-1
Site : West Plant
Date : 7/10/2017
Time: 07:44 - 18:30 PST
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	22517	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	22516	10 meters
Solar Radiation	Kipp & Zonen Pyranometer	CMP3	115433	2 meters
Precipitation	R. M. Young Heated Rain Gauge	52202	08738	Ground

QUALITY ASSURANCE AUDIT EQUIPMENT (Kit A)				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Scientific Micrologger	CR3000	6590	2/8/2019
System Accuracy & Linearity	Compass	Pocket Transit	5084113052	3/6/2018
Wind Speed	R. M. Young Anemometer Drive	18802/18811	CA4555	11/17/2017
Torque	Disk 1	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61365435	2/23/2018
Relative Humidity	HygroClip 2	HC2S3	61365435	2/23/2018
Barometric Pressure	Vaisala Barometer	CS106	F3760067	2/22/2018
Delta Temperature	R. M. Young Temperature Sensor	41342	TS20211	2/17/2018
Solar Radiation	Campbell Scientific Pyranometer	CMP11	127857	2/15/2019
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: 5305
Serial No: 98304

Calibration Motor No.: CA4555
Calibration Disk No.: Disk 1

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 = 1.0 g-cm)

Clockwise 0.6 g-cm
Counterclockwise 0.6 g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 10 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

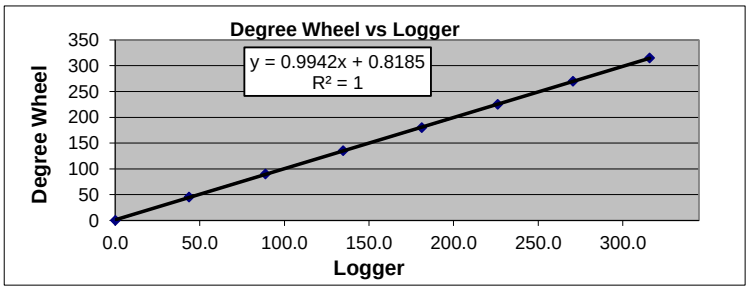
Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: 5305 Serial No: 98304 Compass No.: 5084113052

System Accuracy and Linearity Check Declination[1] = 10.1 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	163.9	174.0	174.0	174.6	0.6	±5
Tail	340.9	351.0	351.0	353.8	2.8	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.1	0.1	0.0	0.0	±3
45	43.7	-1.3	43.6	-1.4	±3
90	88.8	-1.2	88.7	-1.3	±3
135	134.7	-0.3	134.6	-0.4	±3
180	181.2	1.2	181.1	1.1	±3
225	226.0	1.0	225.9	0.9	±3
270	270.5	0.5	270.4	0.4	±3
315	315.8	0.8	315.7	0.7	±3
	Avg	0.1			
CCW					
0	0.7	0.7	0.4	0.4	±3
45	43.8	-1.2	43.5	-1.5	±3
90	89.7	-0.3	89.4	-0.6	±3
135	134.7	-0.3	134.4	-0.6	±3
180	179.8	-0.2	179.5	-0.5	±3
225	225.6	0.6	225.3	0.3	±3
270	271.5	1.5	271.2	1.2	±3
315	316.8	1.8	316.5	1.5	±3
	Avg	0.3			



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
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: HC2S3-L
Std Model: HC2S3
Serial No: 61247378
Ref Serial No: 61365435

System Linearity Check

	Standard (°C)	Logger Reading (°C)	Difference (°C)	Acceptance Criteria
1.	31.5	31.7	-0.2	±5
2.	31.6	31.8	-0.2	±5
3.	31.6	31.8	-0.2	±5
4.	31.7	31.9	-0.2	±5
5.	31.7	31.9	-0.2	±5
6.	31.6	31.9	-0.3	±5
7.	31.7	31.9	-0.2	±5
8.	31.7	31.9	-0.2	±5
9.	31.7	32.0	-0.3	±5
10.	31.7	32.0	-0.3	±5

Audited By: R. Attridge G. Gylys

RELATIVE HUMIDITY, 2 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: HC2S3-L
Serial No: 61247378
Std Model: HC2S3
Std Serial No: 61365435

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	35.6	32.6	3.0	±7
2.	35.7	32.7	3.0	±7
3.	36.0	32.9	3.1	±7
4.	36.1	33.0	3.1	±7
5.	36.0	32.9	3.1	±7
6.	35.9	32.6	3.3	±7
7.	35.8	32.8	3.0	±7
8.	35.6	32.6	3.0	±7
9.	35.5	32.5	3.0	±7
10.	35.3	32.3	3.0	±7

Audited By: R. Attridge G. Gylys

DELTA TEMPERATURE, 2 and 10 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: 41342 Serial No (2m): 22517
Serial No (10m): 22516
Std Model: 41342 Std Serial No: TS20211

Aspirator Fans Working Properly? Y

	Standard (ºC)	2 Meter (ºC)	10 Meter (ºC)	Difference 2 Meter [1] (ºC)	Difference 10 Meter [1] (ºC)
Bath 1	1.12	1.10	1.10	0.02	0.02
Bath 2	18.97	18.92	18.92	0.05	0.05
Bath 3	46.76	46.78	46.77	0.02	0.01

Delta T [2] (ºC)	Difference 10M vs. 2M
	0.00
	0.00
	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 G. Gylys

BAROMETRIC PRESSURE, 1 METER
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: PTB110 Serial No: J0560099
Std Model: CS106 Std Serial No: F3760067

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	685.4	685.6	-0.2	±2.3
2.	685.4	685.6	-0.2	±2.3
3.	685.4	685.6	-0.2	±2.3
4.	685.4	685.6	-0.2	±2.3
5.	685.4	685.6	-0.2	±2.3

Audited By: R. Attridge G. Gylys

SOLAR RADIATION, 2 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: CMP3 Serial No: 115433
Std Model: CMP11 Std Serial No: 123275

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		± 10 W/m^2 or 5%
1.	481.0	487.0	-6.0	1.2	± 10 W/m^2 or 5%
2.	481.0	488.0	-7.0	1.4	± 10 W/m^2 or 5%
3.	482.0	488.0	-6.0	1.2	± 10 W/m^2 or 5%
4.	482.0	489.0	-7.0	1.4	± 10 W/m^2 or 5%
5.	482.0	489.0	-7.0	1.4	± 10 W/m^2 or 5%
6.	483.0	489.0	-6.0	1.2	± 10 W/m^2 or 5%
7.	483.0	490.0	-7.0	1.4	± 10 W/m^2 or 5%
8.	483.0	491.0	-8.0	1.6	± 10 W/m^2 or 5%
9.	484.0	491.0	-7.0	1.4	± 10 W/m^2 or 5%
10.	485.0	491.0	-6.0	1.2	± 10 W/m^2 or 5%
		Average	-6.7		

When output is > 200 W/m2, criteria is ±5% of mean observed.
When output is < 200 W/m2, criteria is 10 W/m2 of mean observed.

Audited By: R. Attridge G. Gylys

PRECIPITATION, GROUND LEVEL
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: West Plant
Project: 262-29-1
Date: 7/10/2017

Model: 52202 Serial No: 08738

System Linearity Check

	Water (cc)	Calculated Target* (inches)	Logger Reading (inches)	Difference (inches)
1.	2.20	0.0044	0.004	0.000
2.	2.40	0.0048	0.004	0.001
3.	2.40	0.0048	0.004	0.001
4.	2.40	0.0048	0.004	0.001
5.	2.20	0.0044	0.004	0.000
6.	2.20	0.0044	0.004	0.000
7.	2.20	0.0044	0.004	0.000
8.	2.20	0.0044	0.004	0.000
9.	2.20	0.0044	0.004	0.000
10.	2.20	0.0044	0.004	0.000
Total	22.60	0.0450	0.040	0.005

Reading taken from final storage for period averaged data = 0.154 inches

***Target (Campbell Scientific gauge) = water (cc)/2.01*.004(inches)**

Audited By: R. Attridge G. Gylys

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator:	Air Sciences
Site Name:	West Plant
Project:	262-29-1
Date:	7/10/2017

COMMENTS: All meteorological instruments were found and left in good servicable condition.

All MET data should be invalidated from 07:45 through 18:30 hrs. PST on 07/10/2017.

Signatures:

Appendix B – West Plant Calibration Forms

West Plant BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Model:	**BAM-1020**	**Serial Number:**	M8712
Audit Date:	07/10/2017	**Audited By:**	G. Gylys
Audit Time:	09:20-11:15 PST		

Firmware:

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	723	Calibration Date:	08/22/16
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	723	Calibration Date:	08/22/16
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	723	Calibration Date:	08/22/16

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:	32.9	34.2	As left:	37.8	37.9	Adjusted	X
Barometric Pressure (mmHg):	As found:	685	683.5	As left:	684	683.5	Adjusted	--
Flow Rate (15.0 LPM):	As found:	15.0	15.42	As left:	15.0	15.01	Adjusted	X
Flow Rate (18.4 LPM):	As found:	18.4	18.63	As left:	18.4	18.36	Adjusted	X
Flow Rate (16.7 LPM):	As found:	16.7	17.04	As left:	16.7	16.69	Adjusted	X

Audit Notes: Errors – 7/5 17:28 Flow AT Disconnected, 6/29 13:09 Maintenance, 6/15 11:48 Maintenance, 6/13 17:00 through 6/15 12:00 Tape tension, 6/8 00:25 Reference withdraw, 6/7 23:58 BAM Cal Membrane 5%.
Refurbished BAM Pump.

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:	N/A
Tape support vane clean:	As found:		As left:	X	PM_{10} bug screen clear:	As found: X		As left:	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:

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

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Model:	**BAM-1020**	**Serial Number:**	M8193
Audit Date:	07/10/2017	**Audited By:**	G. Gylys
Audit Time:	09:20-11:30 PST		

Firmware:

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	723	Calibration Date:	08/22/16
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	723	Calibration Date:	08/22/16
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	723	Calibration Date:	08/22/16

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:	33.1	34.8	As left:	35.9	35.9	Adjusted	X
Barometric Pressure (mmHg):	As found:	682	683.5	As left:	684	683.5	Adjusted	X
Flow Rate (15.0 LPM):	As found:	15.0	15.14	As left:	15.0	14.80	Adjusted	--
Flow Rate (18.4 LPM):	As found:	18.4	18.64	As left:	18.4	18.55	Adjusted	X
Flow Rate (16.7 LPM):	As found:	16.7	16.88	As left:	16.7	16.71	Adjusted	--

Audit Notes: Errors – 7/7 11:22 Maintenance and Count Fail, 7/1 14:58 BAM Cal Membrane 5%, 6/29 13:00 Maintenance, 6/8 12:24 Tape shuttle reset, 6/8 10:40 Maintenance, 6/8 10:35 BAM Power Fail.
Refurbished BAM Pump.

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:		N/A	
Tape support vane clean:	As found:		As left:	X	PM_{10} bug screen clear:	As found:	X	As left:		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: _____

Appendix C – East Plant Audit Forms

METEOROLOGICAL STATION
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Client : Resolution Copper Company
Project No. : 262-29-1
Site : East Plant
Date : 7/11/2017
Time: 11:25 - 12:45 PST
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 (KIT A)				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Scientific Micrologger	CR3000	6590	2/8/2019
System Accuracy & Linearity	Compass	Pocket Transit	5084113052	3/6/2018
Wind Speed	R. M. Young Anemometer Drive	18802/18811	CA4555	11/17/2017
Torque	Disk 1	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61365435	2/23/2018
Relative Humidity	HygroClip 2	HC2S3	61365435	2/23/2018
Barometric Pressure	Vaisala Barometer	CS106	F3760067	2/22/2018
Delta Temperature	R. M. Young Temperature Sensor	41342	TS20211	2/17/2018
Solar Radiation	Campbell Scientific Pyranometer	CMP11	127857	2/15/2019
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS
Audit Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

Model: 5305
Serial No: 77645

Calibration Motor No.: CA4555
Calibration Disk No.: Disk 1

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 = 1.0 g-cm)

Clockwise 0.5 g-cm
Counterclockwise 0.5 g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 10 METERS
Audit Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

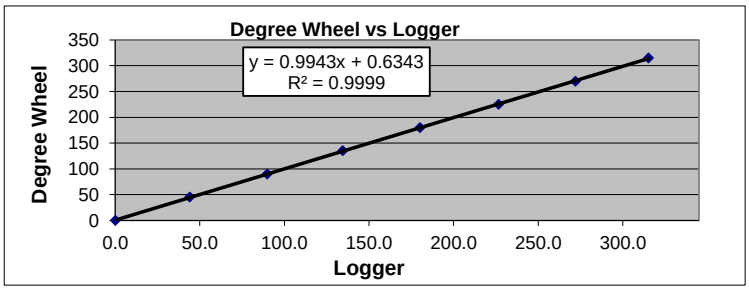
Model: 5305 Serial No: 77645 Compass No.: 5084113052

System Accuracy and Linearity Check

Declination[1] = 10.09 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	166.9	177.0	177.0	176.6	-0.4	±5
Tail	351.0	357.0	357.0	0.9	3.9	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.1	0.1	-0.2	-0.2	±3
45	44.0	-1.0	43.7	-1.3	±3
90	89.8	-0.2	89.5	-0.5	±3
135	134.4	-0.6	134.1	-0.9	±3
180	180.1	0.1	179.8	-0.2	±3
225	226.6	1.6	226.3	1.3	±3
270	272.0	2.0	271.7	1.7	±3
315	315.1	0.1	314.8	-0.2	±3
	Avg	0.3			
CCW					
0	0.4	0.4	0.2	0.2	±3
45	44.9	-0.1	44.7	-0.3	±3
90	88.7	-1.3	88.5	-1.5	±3
135	134.1	-0.9	133.9	-1.1	±3
180	179.7	-0.3	179.5	-0.5	±3
225	225.7	0.7	225.5	0.5	±3
270	271.8	1.8	271.6	1.6	±3
315	316.4	1.4	316.2	1.2	±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*

AMBIENT TEMPERATURE, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

Model: HC2S3-L
Std Model: HC2S3
Serial No: 60749863
Ref Serial No: 61365435

System Linearity Check

	Standard (ºC)	Logger Reading (ºC)	Difference (ºC)	Acceptance Criteria
1.	24.5	24.5	0.0	±2
2.	24.5	24.5	0.0	±2
3.	24.5	24.5	0.0	±2
4.	24.5	24.5	0.0	±2
5.	24.5	24.5	0.0	±2
6.	24.5	24.5	0.0	±2
7.	24.5	24.5	0.0	±2
8.	24.5	24.5	0.0	±2
9.	24.5	24.5	0.0	±2
10.	24.5	24.5	0.0	±2

Audited By: R. Attridge G. Gylys

RELATIVE HUMIDITY, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

Model: HC2S3-L
Serial No: 60749863
Std Model: HC2S3
Std Serial No: 61365435

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	66.5	62.2	4.3	±7
2.	66.5	62.3	4.2	±7
3.	66.4	62.4	4.0	±7
4.	66.8	62.7	4.1	±7
5.	66.8	62.8	4.0	±7
6.	67.2	62.7	4.5	±7
7.	67.3	62.8	4.5	±7
8.	67.1	62.5	4.6	±7
9.	66.9	62.3	4.6	±7
10.	66.8	62.3	4.5	±7

Audited By: R. Attridge G. Gylys

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

Model: 41342 Serial No (2m): 20208
Serial No (10m): 020213
Std Model: 41342 Std Serial No: TS20211

Aspirator Fans Working Properly? Y

	Standard (ºC)	2 Meter (ºC)	10 Meter (ºC)	Difference 2 Meter [1] (ºC)	Difference 10 Meter [1] (ºC)
Bath 1	38.70	38.80	38.80	0.10	0.10
Bath 2	19.30	19.40	19.40	0.10	0.10
Bath 3	2.12	2.15	2.16	0.03	0.04

Delta T [2] (ºC)	Difference 10M vs. 2M
	0.00
	0.00
	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 G. Gylys

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

Model: PTB110 Serial No: G0077095
Std Model: CS106 Std Serial No: F3760067

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	656.0	654.0	2.0	±2.3
2.	656.0	654.0	2.0	±2.3
3.	656.0	654.0	2.0	±2.3
4.	656.0	654.0	2.0	±2.3
5.	656.0	654.0	2.0	±2.3

Audited By: R. Attridge G. Gylys

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

Model: CMP3 Serial No: 115422
Std Model: CMP11 Std Serial No: 127857

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		± 10 W/m^2 or 5%
1.	194.9	202.3	-7.4	3.7	± 10 W/m^2 or 5%
2.	195.4	202.5	-7.1	3.5	± 10 W/m^2 or 5%
3.	195.7	202.7	-7.0	3.5	± 10 W/m^2 or 5%
4.	195.9	202.7	-6.8	3.4	± 10 W/m^2 or 5%
5.	197.8	203.4	-5.6	2.8	± 10 W/m^2 or 5%
6.	198.4	203.6	-5.2	2.6	± 10 W/m^2 or 5%
7.	198.2	204.2	-6.0	2.9	± 10 W/m^2 or 5%
8.	199.6	205.6	-6.0	2.9	± 10 W/m^2 or 5%
9.	202.2	208.6	-6.4	3.1	± 10 W/m^2 or 5%
10.	202.9	209.5	-6.6	3.2	± 10 W/m^2 or 5%
		Average	-6.4		

When output is > 200 W/m2, criteria is ±5% of mean observed.
When output is < 200 W/m2, criteria is 10 W/m2 of mean observed.

Audited By: R. Attridge G. Gylys

PRECIPITATION, GROUND LEVEL
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

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.	2.20	0.0044	0.004	0.000
4.	2.20	0.0044	0.004	0.000
5.	2.00	0.0040	0.004	0.000
6.	2.00	0.0040	0.004	0.000
7.	2.00	0.0040	0.004	0.000
8.	2.20	0.0044	0.004	0.000
9.	2.20	0.0044	0.004	0.000
10.	2.20	0.0044	0.004	0.000
Total	21.00	0.0418	0.040	0.002

Reading taken from final storage for period averaged data = 0.217

***Target (Campbell Scientific gauge) = water (cc)/2.01*.004(inches)**

Audited By: R. Attridge G. Gylys

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: East Plant
Project: 262-29-1
Date: 7/11/2017

COMMENTS:

All meteorological instruments were found and left in good servicable condition.

All MET data should be invalidated from 11:30 through 12:45 hrs. PST on 07/11/2017.

Signatures:

East Plant

O_3 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.

Operator: ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Verification Start Time	1130
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1230
Date: 7-11-17			T400 Analyzer Range	500
			Shelter Temperature (20 - 30°C)	21.5

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	O_3 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	ZERO	-0.3	0.1	Zero Drift ≤ ± 5 ppb	NO
80 ppb	80	79.2	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	-0.3	0.18	± 2 ppb	NO
80 ppb	79.2	~~80.6~~ 80.3	± 2 ppb	NO

Analyzer Parameters

Sample Flow (800± 80 cc/min)	756	Sample Temp. (10 - 50°C)	39.4	Zero Air Generator (psi)	29.7
Photo Lamp (58 ± 1°C)	58	BOX Temp. (10 to 50°C)	28.7	*Dilution Calibrator Flow (lpm)	3.87
Slope (1 ± 0.15)	1.044	O_3 Measure (2500 - 4800 mV)	3445.5		
Offset (0.0 ± 5 ppb)	-3.5	O_3 Reference (2500 - 4800 mV)	3447.0		

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

SO_2 Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER · PORTLAND · LOS ANGELES

Operator: ATTRIDGE	Teledyne API T100 SO_2 Analyzer S/N	193	Verification Start Time	1130
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1250
Date: 7-11-17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc. EXP 3/2/2020	39.8 ppm	Shelter Temperature (20- 30°C)	21.5

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	SO_2 Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	ZERO	0.002	0.15	Zero Drift ≤ ± 5 ppb	NO
80 ppb	81	78.2	0.2	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	0.15	0.05	± 2 ppb	NO
80 ppb	78.2	78.8	± 2 ppb	N

Analyzer Parameters

Sample Flow (550 ± 10%)	627	Sample Press. (Ambient ± 2 in-Hg)	25.9	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4407.1	Lamp Ratio (30 - 120%)	116.6	Span Gas Regulator Pressure (psi)	20
Slope (1 ± 0.3)	0.894	BOX Temp. (Ambient ± 5°C)	33.2	Zero Air Generator Pressure (psi)	29.7
Offset (< 250 mV)	33.0	HVPS (400 - 900 V)	587	* Dilution Calibrator Flow (lpm)	3.981

* Document value during span activities.

Operator Comments:

Operator Signature:

East Plant

NO_X Level 2 Zero and Span Precision Check
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Armidage	Teledyne API T200 NOx Analyzer S/N	197	Verification Start Time	1130
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Verification Stop Time	1315
Date: 7-11-17			T200 Analyzer Range	500
	NIST-Traceable Gas Conc. Exp 3/2/2020	40.3 ppm	Shelter Temperature (20 - 30°C)	21.5

Biweekly Manual Level 2 Zero and Span Precision Check

Target Dilution (ppb)	Actual Target Dilution Generated	NO Response	NO_2 Response	NO_X Response	Analyzer Stability	Acceptance Criteria	Adjustment Required?
Zero Air	ZERO	-0.3	2.8	2.5	0.6	Zero Drift ≤ ± 5 ppb	NO
80 ppb	80	80.0	20.7	100.6	0.9	Span Drift ≤ ± 10 %	YES

Real-Time Analyzer vs. Logger Data Comparison

Target Dilution (ppb)	Analyzer Response (ppb)		Logger Response (ppb)		Acceptance Criteria	Adjustment Required?
Zero Air	NO	-0.3	NO	-0.04	± 2 ppb	NO
	NO_2	2.8	NO_2	2.81		
	NO_x	2.5	NO_x	2.81		
80 ppb	NO	80.0	NO	80.1	± 2 ppb	NO
	NO_2	20.7	NO_2	21.1		
	NO_x	100.6	NO_x	101.1		

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	481	Moly Temp. (315 ± 5°C)	316.0	Span Gas Tank Pressure (psi)	1900
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	744	Span Gas Regulator Flow (psi)	20
NO_X Slope (1 ± 0.3)	0.583	NO Slope (1 ± 0.3)	0.423	Zero Air Generator Pressure (psi)	29.6
NO_X Offset (-20 to 150)	164.7	NO Offset (-20 to 150)	0.3	*Dilution Calibrator Flow (lpm)	3.981

* Document actual value during span activities.

Operator Comments:
Nox offset out of range

Operator Signature:

East Plant

O_3 Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: G.GYLYS	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	15:36
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	16:09
Date: 07/11/2017			T400 Analyzer Range	500
			Shelter Temperature (20-30°C)	23.4

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): 22.8 (± 2 °C of the STD)

Temp. STD Model: DeltaCal S/N: 723 Cal Date: 08/22/16

Sample Flow Standard Measurement (cc/min): 760.1 (800 ± 80 cc/min)

Flow STD Model: Bios Defender S/N: 115242 Cal Date: 08/22/16

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	0.4	0.6	PASS < 2% FS
30	29	29.7	29.7	" 0.1%
60	60.0	60.6	60.7	" 1.2%
80	80	81.4	80.8	" 0.8%
100	101	101.8	101.8	" 0%
120	121	121.4	121.8	" 0.4%

Best Fit Line (BFL)

$Y = 1.0017x + 0.6185$
$R^2 = 0.9992$

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	753	Sample Temp. (10 - 50°C)	38	Zero Air Generator Pressure (psi)	29.6
Photo Lamp (58 ± 1°C)	58	BOX Temp. (10 to 50°C)	26.8	*Dilution Calibrator Flow (lpm)	3.982
Slope (1 ± 0.15)	1.044	O_3 Measure (2500 - 4800 mV)	3444.6		
Offset (0.0 ± 5 ppb)	-3.5	O_3 Reference (2500 - 4800 mV)	3446.4		

* Document actual value during span activities.

Operator Comments:

Operator Signature: G.Gylys

East Plant

SO_2 Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: G. GYLYS	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	09:00
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	10:15
Date: 07/12/17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc. 3/2/20	39.4 ppm	Shelter Temperature (20-30°C)	23.4

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): 22.8 (± 2 °C of the Standard)

Temp. STD Model: DeltaCal S/N: 723 Cal Date: 8/22/16

Analyzer Sample Flow Standard Measurement (cc/min): 616.8 (550 ± 10% cc/min)

Flow STD Model: Bios Defender S/N: 115242 Cal Date: 8/22/16

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	0.175	0.5	P <2% FS
20	21	21.2	21.0	P 0.7%
40	41	40.6	40.6	P 0.1%
60	61	61.3	60.2	P 1.8%
80	81	79.2	78.8	P 0.8%
100	101	99.32	99.4	P 0.1%

Best Fit Line (BFL)

$Y = 0.9798x + 0.4695$

$R^2 = 0.9997$

Analyzer Parameters

Sample Flow (550 ± 10%)	621	Sample Press. (Ambient ± 2 in-Hg)	25.6	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	44087	Lamp Ratio (30 - 120%)	116.6	Span Gas Regulator Flow (psi)	20
Slope (1 ± 0.3)	0.894	BOX Temp. (Ambient ± 5°C)	32.3	Zero Air Generator Pressure (psi)	296
Offset (< 250 mV)	33.0	HVPS (400 - 900 V)	587	*Dilution Calibrator Flow (lpm)	4.011

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant

NO_X Multipoint Audit
Resolution Copper Mining

AIR SCIENCES INC.
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Operator: G. GYLYS	Teledyne API T200 NO_X Analyzer S/N	187	Multipoint Start Time	10:15
	Teledyne API T700 Transfer Standard Dilution Calibrator S/N	816	Multipoint Stop Time	11:45
Date: 07/12/17			T200 Analyzer Range	500
	NIST-Traceable Audit Gas Conc. 3/2/20	39.8 ppm	Shelter Temperature (20-30°C)	23.4

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): 22.8 (± 2 °C of the Standard)

Temp. STD Model: Delta Cal S/N: 723 Cal Date: 8/22/16

Analyzer Sample Flow Standard Measurement (cc/min): 454.7 (500 ± 50 cc/min)

Flow STD Model: Bios DefloLo S/N: 115242 Cal Date: 8/22/16

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	1.2	2.4	3.6	1.3	P 0.5% FS
20	21	21.0	-3.5	19.5	21.2	P 8.1%
40	41	38.8	-0.9	37.8	40.2	F 6%
60	61	56.6	2.2	58.9	59.2	P 0.6%
80	81	76.1	5.4	81.2	78.2	F 3.8%
100	101	84.7	11.6	96.4	97.2	P 0.9%

Best Fit Line (BFL)

$Y = 0.9503x + 1.2594$

$R^2 = 0.99629$

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	467	Moly Temp. (315 ± 5°C)	314.5	Span Gas Tank Pressure (psi)	1800
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	744	Span Gas Regulator Flow (psi)	20.0
NO_X Slope (1 ± 0.3)	0.456	NO Slope (1 ± 0.3)	0.428	Zero Air Generator Pressure (psi)	28.6
NO_X Offset (-20 to 150)	37.3	NO Offset (-20 to 150)	-6.9	*Dilution Calibrator Flow (lpm)	4.012

* Document actual value during span activities.

Operator Comments:

Operator Signature:

Appendix D – East Plant Calibration Forms

East Plant BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Model:	**BAM-1020**	**Serial Number:**	M8714
Audit Date:	07/11/2017	**Audited By:**	G. Gylys
Audit Time:	13:00 – 15:13 PST		

Firmware: 3236 – 06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/2016
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/2016
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/2016

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:	24.2	25.2	As left:	27.5	27.7	Adjusted	X
Barometric Pressure (mmHg):	As found:	654	653.5	As left:	653	653.0	Adjusted	--
Flow Rate (15.0 LPM):	As found:	15.0	15.00	As left:	15.0	14.95	Adjusted	--
Flow Rate (18.4 LPM):	As found:	18.4	18.43	As left:	18.4	18.38	Adjusted	--
Flow Rate (16.7 LPM):	As found:	16.67	16.69	As left:	16.7	16.61	Adjusted	--

Audit Notes: Errors: 6/29/17 10:57 – Maintenance, 6/22/17 10:18 – Count Fail, 6/9/17 12:54 Maintenance, 5/31/17 08:22 – Maintenance, 5/17/17 – 5/22/17 – multiple power failures.
Refurbished BAM pump.

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:		N/A	
Tape support vane clean:	As found:		As left:	X	PM_{10} bug screen clear:	As found:	X	As left:		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: _____

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

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Model:	**BAM-1020**	**Serial Number:**	M6466
Audit Date:	07/11/2017	**Audited By:**	G. Gylys
Audit Time:	13:00 – 15:08 PST		

Firmware: 3236 – 06 V3.6.3

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/2016
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/2016
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/2016

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:	24.4	26.0	As left:	28.1	28.0	Adjusted	X
Barometric Pressure (mmHg):	As found:	654	653.5	As left:	653	653.0	Adjusted	--
Flow Rate (15.0 LPM):	As found:	15.1	15.08	As left:	15.0	15.03	Adjusted	--
Flow Rate (18.4 LPM):	As found:	18.4	18.36	As left:	18.4	18.32	Adjusted	--
Flow Rate (16.7 LPM):	As found:	16.7	16.67	As left:	16.7	16.69	Adjusted	--

Audit Notes: Errors: 6/29/17 10:59 – Maintenance, 6/09/17 12:18 – Maintenance, 5/31/17 08:02 - Maintenance, 5/29/17 03:58 – Membrane Cal.
Refurbished BAM pump.

Mechanical Audits

Pump muffler unclogged:	As found:	X	As left:		PM_{10} particle trap clean:	As found:		As left:		N/A	X
Sample nozzle clean:	As found:		As left:	X	$PM_{2.5}$ drip jar empty:	As found:	X	As left:		N/A	
Tape support vane clean:	As found:		As left:	X	$PM_{2.5}$ bug screen clear:	As found:	X	As left:		N/A	
Capstan shaft clean:	As found:		As left:	X	$PM_{2.5}$ 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:			
Chassis ground wire installed:	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.
DENVER • PORTLAND • LOS ANGELES

Operator: ATTRIDGE	Teledyne API T400 O_3 Analyzer S/N	224	Multipoint Start Time	1230
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	1407
Date: 7-12-17			T400 Analyzer Range	500
			Shelter Temperature (20-30°C)	19.5

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): 20.7 **(± 2 °C of the STD)**

Temp. STD Model: DeltaCal **S/N:** 723 **Cal Date:** 8/22/16

Sample Flow Standard Measurement (cc/min): 763 **(800 ± 80 cc/min)**

Flow STD Model: Bios **S/N:** 115242 **Cal Date:** 8/22/16

Primary Standard:

Target (ppb)	Actual Generated O_3 (ppb)	O_3 Response (ppb)	Best Fit Line (ppb)	Acceptable Criteria (± 2% from BFL)
Zero Air	ZERO	0.7	0.8	PASS < 2% FS
30	30	29.9	30.2	" 0.8%
60	60	60.2	59.5	" 1.2%
80	80	80.4	79.0	" 1.8%
100	100	96.6	98.6	" 2%
120	120	118.8	118.1	" 0.6%

As Found Slope: 1.044 offset: -3.5

As left Slope: offset:

Best Fit Line (BFL)

$Y = 0.9772x + 0.8373$

$R^2 = 0.99921$

Analyzer Parameters

Sample Flow (800 ± 80 cc/min)	775	Sample Temp. (10 - 50°C)	37.5	Zero Air Generator Pressure (psi)	28.2
Photo Lamp (58 ± 1°C)	58	BOX Temp. (10 to 50°C)	26.9	*Dilution Calibrator Flow (lpm)	3.897
Slope (1 ± 0.15)	1.044	O_3 Measure (2500 - 4800 mV)	3444.3		
Offset (0.0 ± 5 ppb)	-3.5	O_3 Reference (2500 - 4800 mV)	3446.7		

* Document actual value during span activities.

Operator Comments: Pump order numbers
SO2 pump rebuild kit TAPI # PU-96
O3 pump rebuild kit " " PU-96
NOx pump rebuild kit TAPI # PU 000001

Operator Signature:

East Plant

SO_2 Multipoint Calibration
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Arrizque	Teledyne API T100 SO_2 Analyzer S/N	193	Multipoint Start Time	1230
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	1730
Date: 7-12-17			T100 Analyzer Range	500
	NIST-Traceable Gas Conc. EXP DATE 3-2-2020	39.8 ppm	Shelter Temperature (20-30°C)	19.5

Multipoint Calibration (Biannual, 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): 20.7 (± 2 °C of the Standard)

Temp. STD Model: DeltaCal S/N: 723 Cal Date: 8/22/16

Analyzer Sample Flow Standard Measurement (cc/min): 621 (650 ± 10% cc/min)

Flow STD Model: Bios S/N: 115242 Cal Date: 8/22/16

Primary Standard:

Target (ppb)	Actual Generated SO_2 (ppb)	SO_2 Response (ppb)	Best Fit Line (ppb)	Acceptable Criteria (± 2% from BFL)
Zero Air	ZERO	0.14	-0.2	PASS < 2% FS
20	20	19.6	19.7	PASS 0.5%
40	40	39.6	39.6	" 0.1%
60	60	58.9	59.4	" 0.9%
80	81	79.9	80.3	" 0.5%
100	100	99.8	99.2	" 0.7%

As Found Slope: 0.894 OFFSET: 33.0

As Left Slope: 1.191 OFFSET: 35.1

Best Fit Line (BFL)

$Y = 0.9932x + -0.1572$

$R^2 = 0.99982$

Analyzer Parameters

Sample Flow (650 ± 10%)	623	Sample Press. (Ambient ± 2 in-Hg)	25.7	Span Gas Tank Pressure (psi)	1900
UV Lamp (1000 - 4800 mV)	4405.0	Lamp Ratio (30 - 120%)	116.5	Span Gas Regulator Flow (psi)	20
Slope (1 ± 0.3)	0.894	BOX Temp. (Ambient ± 5°C)	27.2	Zero Air Generator Pressure (psi)	28.2
Offset (< 250 mV)	33.0	HVPS (400 - 900 V)	603	*Dilution Calibrator Flow (lpm)	3.983

* Document actual value during span activities.

Operator Comments:

Operator Signature:

East Plant
NO_X Multipoint Calibration
Resolution Copper Mining

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: R. Attridge	Teledyne API T200 NOx Analyzer S/N	197	Multipoint Start Time	12:30
	Teledyne API T700 Primary Standard Dilution Calibrator S/N	191	Multipoint Stop Time	15:30
Date: 07/12/17			T200 Analyzer Range	500
	NIST-Traceable Cal Gas Conc. exp. date 3/2/20	40.3 ppm	Shelter Temperature (20- 30°C)	19.5

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): 20.7 (± 2 °C of the STD)

Temp. STD Model: DeltaCal S/N: 723 Cal Date: 8/22/16

Sample Flow Standard Measurement (cc/min): 488 (500 ± 50 cc/min)

Flow STD Model: BIOS S/N: 115242 Cal Date: 8/22/16

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	-0.1	-0.1	-0.6	Pass 0.5
20	21	21.9	-0.6	19.7	19.8	Pass 0.4 %
40	40	39.4	-1.6	37.6	38.2	Pass 1.6 %
60	60	57.4	0.4	57.5	57.6	Pass 0.1 %
80	81	77.8	0.0	77.8	78.0	Pass 0.2 %
100	100	98.8	-2.2	96.9	96.4	Pass 0.5 %

Best Fit Line (BFL)

$Y = 0.9699x + -0.5935$

$R^2 = 0.99987$

Analyzer Parameters

Sample Flow (500 ± 50 cc/min)	460	Moly Temp. (315 ± 5°C)	314.5	Span Gas Tank Pressure (psi)	1800
Ozone Flow (80 ± 15 cc/min)	80	HVPS (400 - 900 V)	744	Span Gas Regulator Flow (lpm)	20
NO_X Slope (1 ± 0.3)	0.998	NO Slope (1 ± 0.3)	0.943	Zero Air Generator Pressure (psi)	28.2
NO_X Offset (-50 to 150)	11.1	NO Offset (-50 to 150)	-1.1	*Dilution Calibrator Flow (lpm)	3.990

* Document actual value during span activities.

Operator Comments:

Operator Signature:

Appendix E – Far West Plant Audit Forms

METEOROLOGICAL STATION
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Client : Resolution Copper Company
Project No. : 262-29-1
Site : Far West
Date : 7/13/2017
Time: 10:30 - 14:30 PST
Personnel: R. Attridge
G. Gylys

SITE MONITORING PARAMETERS AND SENSORS				
Parameter	**Sensors**	**Model #**	**Serial Number**	**Instrument Location on Site**
Datalogger	Campbell Sci. Micrologger	CR3000	10708	1 meter
Wind Speed	R. M. Young Wind Monitor	5305	137211	10 meters
Wind Direction	R. M. Young Wind Monitor	5305	137211	10 meters
Ambient Temperature	Campbell Sci. Probe	HC2S3-L	20021980	2 meters
Relative Humidity	Campbell Sci. Probe	HC2S3-L	20021980	2 meters
Barometric Pressure	Vaisala PTB110 Barometer	PTB110	L1950635	1 meter
Delta Temperature (2m)	R. M. Young 1K RTD Temp. Sensor	41342	25699	2 meters
Delta Temperature (10m)	R. M. Young 1K RTD Temp. Sensor	41342	23716	10 meters
Solar Radiation	Kipp & Zonen Pyranometer	CMP3	151872	2 meters

QUALITY ASSURANCE AUDIT EQUIPMENT				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Scientific Micrologger	CR3000	6590	2/8/2019
System Accuracy & Linearity	Compass	Pocket Transit	5084113052	3/6/2018
Wind Speed	R. M. Young Anemometer Drive	18802/18811	CA4555	11/17/2017
Torque	Disk 1	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61365435	2/23/2018
Relative Humidity	HygroClip 2	HC2S3	61365435	2/23/2018
Barometric Pressure	Vaisala Barometer	CS106	F3760067	2/22/2018
Delta Temperature	R. M. Young Temperature Sensor	41342	TS20211	2/17/2018
Solar Radiation	Campbell Scientific Pyranometer	CMP11	127857	2/15/2019
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model:	5305	Calibration Motor No.:	CA4555
Serial No:	98304	Calibration Disk No.:	Disk 1

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 = 1.0 g-cm)

Clockwise	0.5	g-cm
Counterclockwise	0.6	g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 10 METERS, AS FOUND
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

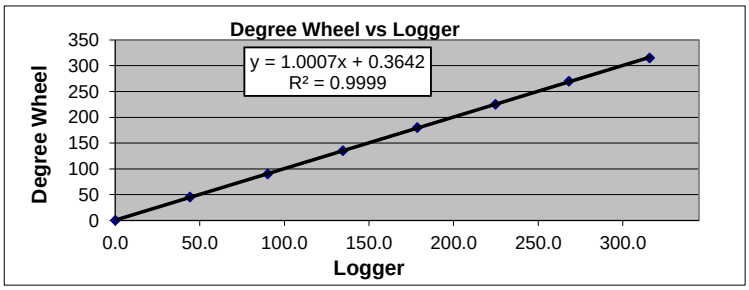
Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model: 5305 Serial No: 98304 Compass No.: 5084113052

System Accuracy and Linearity Check Declination[1] = 10.17 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	133.8	144.0	144.0	147.2	3.2	±5
Tail	313.8	324.0	324.0	324.2	0.2	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.1	0.1	0.6	0.6	±3
45	44.2	-0.8	44.7	-0.3	±3
90	90.1	0.1	90.6	0.6	±3
135	134.6	-0.4	135.1	0.1	±3
180	178.6	-1.4	179.1	-0.9	±3
225	224.7	-0.3	225.2	0.2	±3
270	268.1	-1.9	268.6	-1.4	±3
315	315.8	0.8	316.3	1.3	±3
	Avg	-0.5			
CCW					
0	0.7	0.7	0.5	0.5	±3
45	45.6	0.6	45.4	0.4	±3
90	91.1	1.1	90.9	0.9	±3
135	135.8	0.8	135.6	0.6	±3
180	178.3	-1.7	178.1	-1.9	±3
225	224.2	-0.8	224.0	-1.0	±3
270	268.6	-1.4	268.4	-1.6	±3
315	317.2	2.2	317.0	2.0	±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*

AMBIENT TEMPERATURE, 2 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model: HC2S3-L
Std Model: HC2S3
Serial No: 61247378
Ref Serial No: 61365435

System Linearity Check

	Standard (°C)	Logger Reading (°C)	Difference (°C)	Acceptance Criteria
1.	39.7	39.8	-0.1	±5
2.	39.6	39.7	-0.1	±5
3.	39.6	39.8	-0.2	±5
4.	39.5	39.8	-0.3	±5
5.	39.5	39.8	-0.3	±5
6.	39.5	39.8	-0.3	±5
7.	39.5	39.8	-0.3	±5
8.	39.5	39.8	-0.3	±5
9.	39.5	39.7	-0.2	±5
10.	39.5	39.7	-0.2	±5

Audited By: R. Attridge G. Gylys

RELATIVE HUMIDITY, 2 METERS
Calibration Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model: HC2S3-L
Serial No: 61247378
Std Model: HC2S3
Std Serial No: 61365435

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	27.6	25.4	2.2	±7
2.	27.7	25.1	2.6	±7
3.	27.6	25.3	2.3	±7
4.	27.7	25.2	2.5	±7
5.	27.7	25.3	2.4	±7
6.	27.6	25.2	2.4	±7
7.	27.8	25.6	2.2	±7
8.	27.8	25.6	2.2	±7
9.	28.3	26.2	2.1	±7
10.	28.5	26.5	2.0	±7

Audited By: R. Attridge G. Gylys

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model:	41342	Serial No (2m):	25699
		Serial No (10m):	23716
Std Model:	41342	Std Serial No:	TS20211

Aspirator Fans Working Properly? Y

	Standard (ºC)	2 Meter (ºC)	10 Meter (ºC)	Difference 2 Meter [1] (ºC)	Difference 10 Meter [1] (ºC)
Bath 1	46.20	46.17	46.19	0.03	0.01
Bath 2	17.97	17.95	17.96	0.02	0.01
Bath 3	1.84	1.82	1.82	0.02	0.02

Delta T [2] (ºC)	Difference 10M vs. 2M
	0.02
	0.01
	0.00

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 G. Gylys

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model: PTB110 Serial No: J0560099
Std Model: CS106 Std Serial No: F3760067

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	715.1	715.7	-0.6	±2.3
2.	715.1	715.7	-0.6	±2.3
3.	715.1	715.7	-0.6	±2.3
4.	715.1	715.7	-0.6	±2.3
5.	715.1	715.7	-0.6	±2.3

Audited By: R. Attridge G. Gylys

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Far West
Project: 262-29-1
Date: 7/13/2017

Model: CMP3 Serial No: 151872
Std Model: CMP11 Std Serial No: 123275

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		± 10 W/m^2 or 5%
1.	996.0	1007.0	-11.0	1.1	± 10 W/m^2 or 5%
2.	996.0	1007.0	-11.0	1.1	± 10 W/m^2 or 5%
3.	995.0	1007.0	-12.0	1.2	± 10 W/m^2 or 5%
4.	994.0	1007.0	-13.0	1.3	± 10 W/m^2 or 5%
5.	994.0	1007.0	-13.0	1.3	± 10 W/m^2 or 5%
6.	994.0	1007.0	-13.0	1.3	± 10 W/m^2 or 5%
7.	994.0	1007.0	-13.0	1.3	± 10 W/m^2 or 5%
8.	995.0	1008.0	-13.0	1.3	± 10 W/m^2 or 5%
9.	995.0	1008.0	-13.0	1.3	± 10 W/m^2 or 5%
10.	995.0	1008.0	-13.0	1.3	± 10 W/m^2 or 5%
		Average	-12.5		

When output is > 200 W/m2, criteria is ±5% of mean observed.
When output is < 200 W/m2, criteria is 10 W/m2 of mean observed.

Audited By: R. Attridge G. Gylys

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator:	Air Sciences
Site Name:	Far West
Project:	262-29-1
Date:	7/13/2017

COMMENTS: All meteorological instruments were found and left in good servicable condition.

All MET data should be invalidated from 10:30 through 14:30 hrs. PST on 07/13/2017.

Signatures:

Appendix F – Far West Plant Calibration Forms

Far West BAM-1020 PM_{10} Audit Sheet

AIR SCIENCES INC

Model:	BAM-1020	**Serial Number:**	T19137
Audit Date:	07/13/17	**Audited By:**	G. Gylys
Audit Time:	10:30 – 12:45 PST		

Firmware: 3236-02 V.3.7.1

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/16
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/16
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/16

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:	36.3	37.5	as left:	37.5	37.5	Adjusted	X
Barometric Pressure (mmHg):	as found:	714	713.5	as left:	714	713.5	Adjusted	--
Flow Rate (15.0 LPM):	as found:	15.0	16.1	as left:	15.0	15.04	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	19.3	as left:	18.4	18.51	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	17.7	as left:	16.7	16.72	Adjusted	X

Audit Notes: Error log revealed multiple power failures from 6/21 through 6/29.

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		N/A	
Tape support vane clean:	As found		As left	X	PM_{10} bug screen clear:	As found	X	As left		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:

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

AIR SCIENCES INC.

Model:	**BAM-1020**	**Serial Number:**	T19136
Audit Date:	07/13/17	**Audited By:**	G. Gylys
Audit Time:	10:30 – 13:11 PST		

Firmware: 3236 – 05 V3.7.1

Flow Audits						
Flow Reference Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/16
Temperature Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/16
Barometric Pressure Standard Used:	Model:	Delta Cal	Serial No.:	0723	Calibration Date:	8/22/16

Leak Check Value: as found: 0.6 Should Be: <1.0 as left: 0.4 Should Be: <1.0

		BAM	Ref. Std.		BAM	Ref. Std.		
Ambient Temperature (°C):	as found:	36.0	36.2	as left:	38.0	38.2	Adjusted	--
Barometric Pressure (mmHg):	as found:	714	713.5	as left:	713	713	Adjusted	--
Flow Rate (15.0 LPM):	as found:	15.0	15.8	as left:	15.0	14.92	Adjusted	X
Flow Rate (18.4 LPM):	as found:	18.4	18.9	as left:	18.4	18.43	Adjusted	X
Flow Rate (16.7 LPM):	as found:	16.7	17.4	as left:	16.7	16.67	Adjusted	X

Audit Notes: Error log revealed multiple power failures from 6/21 through 6/29.

Mechanical Audits

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

Signature:

Appendix G – Hewitt Station Audit Forms

METEOROLOGICAL STATION
AUDIT SUMMARY

AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Client : Resolution Copper Company
Project No. : 262-29-1
Site : Hewitt Station
Date : 7/11/2017
Time: 06:20 - 07:45 PST
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	Kipp & Zonen Pyranometer	CMP3	140693	2 meters

QUALITY ASSURANCE AUDIT EQUIPMENT (KIT A)				
Parameter	**Reference Device**	**Model #**	**Serial Number**	**Re-Calibration Date**
Datalogger	Campbell Scientific Micrologger	CR3000	6590	2/8/2019
System Accuracy & Linearity	Compass	Pocket Transit	5084113052	3/6/2018
Wind Speed	R. M. Young Anemometer Drive	18802/18811	CA4555	11/17/2017
Torque	Disk 1	N/A	N/A	N/A
Ambient Temperature	HygroClip 2	HC2S3	61365435	2/23/2018
Relative Humidity	HygroClip 2	HC2S3	61365435	2/23/2018
Barometric Pressure	Vaisala Barometer	CS106	F3760067	2/22/2018
Delta Temperature	R. M. Young Temperature Sensor	41342	TS20211	2/17/2018
Solar Radiation	Campbell Scientific Pyranometer	CMP11	127857	2/15/2019
Precipitation	10 mL Syringe	N/A	N/A	N/A

WIND SPEED, 10 METERS AS FOUND
Audit Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: 5305
Serial No: 129212

Calibration Motor No.: CA4555
Calibration Disk No.: Disk 1

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 = 1.0 g-cm)

Clockwise 0.4 g-cm
Counterclockwise 0.4 g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

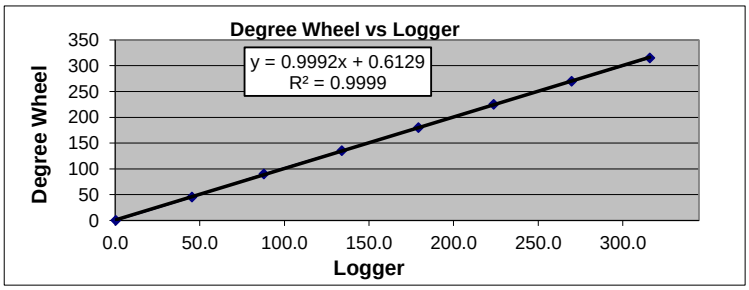
Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: 5305 Serial No: 129212 Compass No.: 5084113052

System Accuracy and Linearity Check Declination[1] = 10.13 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	91.9	102.0	102.0	100.9	-1.1	±5
Tail	271.9	282.0	282.0	281.2	-0.8	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.4	0.4	0.9	0.9	±3
45	45.4	0.4	45.9	0.9	±3
90	87.9	-2.1	88.4	-1.6	±3
135	133.9	-1.1	134.4	-0.6	±3
180	179.2	-0.8	179.7	-0.3	±3
225	223.7	-1.3	224.2	-0.8	±3
270	269.7	-0.3	270.2	0.2	±3
315	315.9	0.9	316.4	1.4	±3
	Avg	-0.5			
CCW					
0	0.8	0.8	1.1	1.1	±3
45	45.4	0.4	45.7	0.6	±3
90	89.8	-0.2	90.1	0.0	±3
135	134.4	-0.6	134.7	-0.3	±3
180	178.2	-1.8	178.5	-1.6	±3
225	224.4	-0.6	224.7	-0.3	±3
270	268.9	-1.1	269.2	-0.9	±3
315	316.1	1.1	316.4	1.4	±3
	Avg	-0.3			



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.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model:	5305	Calibration Motor No.:	CA4555
Serial No:	129214	Calibration Disk No.:	Disk 1

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 = 1.0 g-cm)

Clockwise	0.4	g-cm
Counterclockwise	0.4	g-cm

Audited By: R. Attridge G. Gylys

WIND DIRECTION, 20 METERS
Audit Summary

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

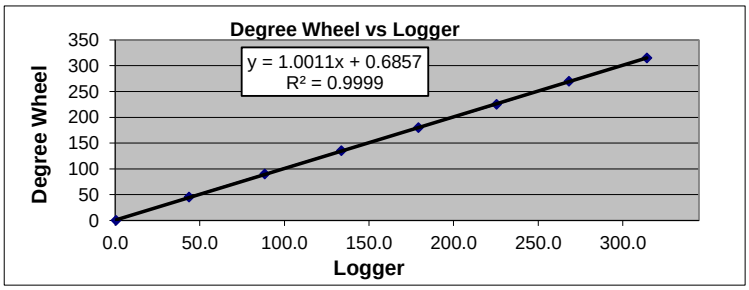
Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: 5305 Serial No: 129214 Compass No.: 5084113052

System Accuracy and Linearity Check Declination[1] = 10.13 °East

Orientation	Compass (w/o declination) (Degrees)	Compass (w/declination) (Degrees)	Target (Degrees)	Logger Reading (Degrees)	Difference (Degrees)	Acceptance Criteria
1. Vane	90.9	101.0	101.0	101.8	0.8	±5
Tail	270.9	281.0	281.0	281.3	0.3	±5

CW	Initial Logger (Degrees)	Difference (Degrees)	Corrected Logger (Degrees)	Difference (Degrees)	Acceptance Criteria [2]
0	0.5	0.5	1.4	1.4	±3
45	43.6	-1.4	44.5	-0.5	±3
90	88.4	-1.6	89.3	-0.7	±3
135	133.6	-1.4	134.5	-0.5	±3
180	179.2	-0.8	180.1	0.1	±3
225	225.4	0.4	226.3	1.3	±3
270	268.2	-1.8	269.1	-0.9	±3
315	314.2	-0.8	315.1	0.1	±3
	Avg	-0.9			
CCW					
0	0.7	0.7	1.9	1.9	±3
45	43.8	-1.2	45.0	0.0	±3
90	87.8	-2.2	89.0	-1.0	±3
135	134.4	-0.6	135.6	0.6	±3
180	177.9	-2.1	179.1	-0.9	±3
225	223.7	-1.3	224.9	-0.1	±3
270	267.5	-2.5	268.7	-1.3	±3
315	314.8	-0.2	316.0	1.0	±3
	Avg	-1.2			



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*

AMBIENT TEMPERATURE, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: HC2S3-L
Std Model: HC2S3
Serial No: 61222062
Ref Serial No: 61365435

System Linearity Check

	Standard (°C)	Logger Reading (°C)	Difference (°C)	Acceptance Criteria
1.	26.1	26.2	-0.1	±5
2.	26.1	26.2	-0.1	±5
3.	26.1	26.2	-0.1	±5
4.	26.1	26.2	-0.1	±5
5.	26.1	26.2	-0.1	±5
6.	26.1	26.2	-0.1	±5
7.	26.1	26.2	-0.1	±5
8.	26.1	26.3	-0.2	±5
9.	26.1	26.3	-0.2	±5
10.	26.1	26.3	-0.2	±5

Audited By: R. Attridge G. Gylys

RELATIVE HUMIDITY, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: HC2S3-L
Serial No: 61222062
Std Model: HC2S3
Std Serial No: 61365435

	Standard (%)	Logger Reading (%)	Difference (%)	Acceptance Criteria (%)
1.	69.0	66.0	3.0	±7
2.	68.0	65.0	3.0	±7
3.	68.0	65.0	3.0	±7
4.	69.0	65.0	4.0	±7
5.	69.0	66.0	3.0	±7
6.	69.0	66.0	3.0	±7
7.	70.0	66.0	4.0	±7
8.	70.0	66.0	4.0	±7
9.	70.0	66.0	4.0	±7
10.	70.0	66.0	4.0	±7

Audited By: R. Attridge G. Gylys

DELTA TEMPERATURE, 2 and 10 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model:	41342	Serial No (2m):	24466
		Serial No (10m):	24382
Std Model:	41342	Std Serial No:	TS20211

Aspirator Fans Working Properly? Y

	Standard (ºC)	2 Meter (ºC)	10 Meter (ºC)	Difference 2 Meter [1] (ºC)	Difference 10 Meter [1] (ºC)
Bath 1	39.40	39.40	39.30	0.00	0.10
Bath 2	18.40	18.50	18.40	0.10	0.00
Bath 3	1.52	1.38	1.37	0.14	0.15

Delta T [2] (ºC)	Difference 10M vs. 2M
	0.10
	0.10
	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 G. Gylys

BAROMETRIC PRESSURE, 1 METER
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: PTB110B
Serial No: K1640005
Std Model: CS106
Std Serial No: F3760067

System Linearity Check

	Standard (mmHg)	Logger Reading (mmHg)	Difference (mmHg)	Acceptance Criteria (mmHg)
1.	703.0	703.2	-0.2	±2.3
2.	703.0	703.2	-0.2	±2.3
3.	703.0	703.2	-0.2	±2.3
4.	703.0	703.2	-0.2	±2.3
5.	703.0	703.2	-0.2	±2.3

Audited By: R. Attridge G. Gylys

SOLAR RADIATION, 2 METERS
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator: Air Sciences
Site Name: Hewitt Station
Project: 262-29-1
Date: 7/11/2017

Model: CMP3 Serial No: 140693
Std Model: CMP11 Std Serial No: 127857

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	± 10 W/m^2 or 5%
1.	64.0	69.0	-5.0	7.2	± 10 W/m^2 or 5%
2.	64.0	69.0	-5.0	7.2	± 10 W/m^2 or 5%
3.	64.0	69.0	-5.0	7.2	± 10 W/m^2 or 5%
4.	65.0	69.0	-4.0	5.8	± 10 W/m^2 or 5%
5.	65.0	69.0	-4.0	5.8	± 10 W/m^2 or 5%
6.	65.0	70.0	-5.0	7.1	± 10 W/m^2 or 5%
7.	65.0	70.0	-5.0	7.1	± 10 W/m^2 or 5%
8.	65.0	70.0	-5.0	7.1	± 10 W/m^2 or 5%
9.	65.0	70.0	-5.0	7.1	± 10 W/m^2 or 5%
10.	65.0	70.0	-5.0	7.1	± 10 W/m^2 or 5%
		Average	-4.8		

When output is > 200 W/m2, criteria is ±5% of mean observed.
When output is < 200 W/m2, criteria is 10 W/m2 of mean observed.

Audited By: R. Attridge G. Gylys

COMMENTS & SIGNATURES
AUDIT SUMMARY

AIR SCIENCES INC.
DENVER • PORTLAND • LOS ANGELES

Operator:	Air Sciences
Site Name:	Hewitt Station
Project:	262-29-1
Date:	7/11/2017

COMMENTS:

All meteorological instruments were found and left in good servicable condition, with the exception of 20 m wind monitor. The wind monitor at 20 m showed deteriorating directional potentiometer (specifically for W, NW, and N directions). The wind monitor at 20 m was replaced with 10 m wind monitor.

All MET data should be invalidated from 06:30 through 07:45 hrs. PST on 07/11/2017.

Signatures:

Hewitt Station

SoDAR System Audit
Resolution Copper Company

Date: 07/11/2017 Time: 07:54 PST Auditor: R. Attridge

SoDAR System

Instrument	SoDAR
Instrument Model	WE
Instrument Serial Number	3002
Rotation Angle Measured	105
Declination	10.1 EAST
Latitude/Longitude (Deg)	33.2978/-111.2114
Elevation (ft)	2,336

SoDAR System Status

SoDAR System	System Status As Found	System Status As Left
Battery Voltage (V)	13.25	13.08
Ambient Temp °C	27.7	27.8
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°)	Pitch -0.3, Roll -0.4	Pitch -0.2, Roll -0.3
Fuel Level	Empty ¼ ½ ¾ Full	Empty ¼ ½ ¾ Full
Date / Time	07:57	08:54

AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

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: Generator Inoperable – requires removal of mice infestation. Generator code states "services required"!

Auditor Signature: _____

Appendix H – Hewitt Station Calibration Forms

Appendix I – Standards and Certifications

CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

Certificate of Calibration

Customer Information:

Air Sciences Inc
1301 Washington Ave Ste 200
Golden, CO 80401-1915

Contract/PO #: N/A
RMA #: 20669

Model: CR850 Serial Number: 22877

Temperature Option: Standard Temperature Tested
Test Panel Location: 1
CSI Calibration Number: 140827333
Calibration Procedures: TST12215A R14 TST12215C R18 PRC33A R21

Instrument Calibration Condition

Received Disposition: In Tolerance
Returned Disposition: In Tolerance

Recommended Calibration Schedule

If the customer has not requested a calibration interval, a non-mandatory recommended interval is provided. Based on past experience and assumed normal usage, it is recommended that this instrument be calibrated in accordance with the interval stated below to insure sustained accuracy and reliable performance.

Calibration Date: 27-Aug-14 **Recommended Interval:** 3 years of service

Report of Calibration Standards Used

Make/Model	Serial Number	Cal. Due Date	NIST Reference
Krohn Hite 523	LD50018	04-Feb-15	LD50018
CSI Oscillator	08/20 07	08-May-15	USNO/NIST

CSI certifies the above instrument meets or exceeds published specifications and has been calibrated using standards and instruments whose accuracies are traceable to the National Institute of Standards and Technology, an accepted value of a natural physical constant or a ratio calibration technique. The collective measurement uncertainty of the calibration process exceeds a 4:1 accuracy ratio. Policies and procedures at this facility comply with ISO-9001.

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Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784| 435.227.9000 | 435.227.9001 F | www.campbellsci.com

Instrument Data Report

Analog Inputs

S/N: 22877

Datalogger Option: Standard Temperature Tested

			Single-Ended (Full Scale)		Differential		
Range	**Input (mV)**	***Tolerance (mV)**	**Before (mV)**	**After (mV)**	**Before (mV)**	**After (mV)**	**Temp. (°C)**
6	5000	±3	4998.628	4999.302	4999.662	5001.013	23.7
6	-5000	±3	-5000.696	-5001.367	-4998.986	-5000.678	23.7
5	2500	±1.5	N/A	N/A	2499.659	2500.254	23.7
4	250	±0.15	N/A	N/A	249.9591	250.0331	23.7
3	25	±0.015	N/A	N/A	24.9974	25.00197	23.7
2	7.5	±0.0045	N/A	N/A	7.50139	7.501488	23.7
1	2.5	±0.0015	N/A	N/A	2.498636	2.500852	23.7
1	-2.5	±0.0015	N/A	N/A	-2.499651	-2.49931	23.7
6	5000	±6	N/A	4997.595	N/A	5001.532	-25
6	5000	±6	N/A	4999.339	N/A	4999.325	50
6	5000	±9	N/A	N/A	N/A	N/A	-30
6	5000	±9	N/A	N/A	N/A	N/A	80

*Tolerance values are specified accuracy not including offset. Offset voltages are not included because an offset removal procedure is used to account for calibrator offset. Refer to CSI Process Control Document PRC7A.

Quiescent System Power

Maximum (mA)	As Received (mA)	As Returned (mA)	Temp. (°C)
0.90	0.55	0.62	23.7

Real-Time Clock

Tolerance (min/year)	As Returned(min/year)	Temp. (°C)
± 3 minutes	Within Tolerance	-25 to +50

Laboratory temperature and relative humidity at the time of calibration

Temperature (°C): 23.7 **Relative Humidity (%):** 39

Functions tested per test document (see page 1)

Excitation Channels
Analog Input Ranges
System Power
Pulse Counters
Period Averaging
Control Ports

Calibration Technician

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VAISALA

Certificate report no. H47-16050022

CALIBRATION CERTIFICATE

Instrument PTB110 Barometer
Serial number M0310166
Manufacturer Vaisala Oyj, Finland
Calibration date 2nd February 2016

This instrument has been calibrated against a Vaisala PTB220 factory working standard. The Vaisala PTB220 is traceable to the National Institute of Standards and Technology (NIST, USA) via Vaisala Measurement Standards Laboratory (MSL). Vaisala MSL has been accredited by FINAS according to ISO/IEC 17025 standard.

At the time of shipment, the instrument described above was within its operating specifications.

Calibration results

Reference pressure hPa	Calculated pressure hPa	Observed voltage Vdc	Correction* hPa	Uncertainty** hPa
510.1	510.1	0.042	0.0	± 0.15
610.1	610.1	0.459	0.0	± 0.15
700.1	700.1	0.834	0.0	± 0.15
809.9	809.9	1.291	0.0	± 0.15
900.1	900.1	1.667	0.0	± 0.15
1000.1	1000.1	2.084	0.0	± 0.15
1059.9	1059.9	2.333	0.0	± 0.15
1099.9	1099.9	2.500	0.0	± 0.15

*To obtain the true pressure, add the correction to the barometer reading. Interpolated corrections may be used at intermediate readings of the scale of the barometer.
**The calibration uncertainty given at 95 % confidence level, k = 2

Equipment used in calibration

Type	Serial number	Calibration date	Certificate number
HP34970A	EM 12999	2015-02-27	1250-307064732
PTB220	PA 10538	2015-09-01	K008-Y02201

Ambient conditions
Humidity: 31 ± 5 %RH Temperature: 21 ± 2 °C Pressure: 970 ± 20 hPa

Technician

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Campbell Scientific Inc
815 West 1800 North • Logan, Utah 84321-1784
Phone 435.227.9092 • Fax 435.227.9091
Fed. I.D. #87-0305157 • DUNS#06-798-0730

P.O. Number	Giedrius Gylys 08/31/2(
Invoice Number	218699
Shipment Number	312064-1
Invoice / Ship Date	02 Sep 2016
Due Date	02 Sep 2016
Customer Number	54575
Page	1

Invoice

BILL TO	
	Air Sciences Inc. 5485 Quay st. Arvada, CO 80002

SHIP TO	
	Giedrius Gylys Air Sciences Inc 17301 W. Colfax Ave. Suite 400 Golden, CO 80401

Buyer Contact	Giedrius Gylys	Payment Terms	CRDT_CRD
Phone	720-837-4695	Ship Via	FEDEX GROUND HOME
Email	ggylys@airsci.com	Freight Terms	PP&A
User Name	Giedrius Gylys	Incoterms	FOB Logan, UT

Li	Model	Part	Description	CO	Qty	UM	Unit Price	Ext. Price
1	CS106	20657	CS106 VAISALA PTB110 BAROMETER (500 - 1100 HPA), 30 INCH CABLE	FI	1	EA	640.00	640.00
							Subtotal	640.00
							Sales Tax	0.00
							Freight	13.26
							Total	653.26

Terms and conditions with Campbell Scientific Inc. are governed by the terms found at http://www.campbellsci.com/terms.

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

CALIBRATION REPORT
Temperature

Customer: *Air Sciences Inc*

Test Number: 6812-01T
Test Date: 12 August 2016

Customer PO: O-200
Sales Order: 5684

Test Sensor:
Model: 41342
Serial Number: *TS22521*
Description: Temperature Sensor

Report of calibration comparison of test temperature sensor with National Institute of Standards and Technology traceable standard thermometers at three temperatures in the R.M. Young Company controlled temperature calibration bath facilities. Calibration accuracy ± 0.1° Celsius.

Bath Temperature (degrees C)	Sensor Resistance (ohms)	Indicated (1) Temperature (degrees C)	Calculated (2) Temperature (degrees C)
50.09	1189.19	50.05	50.09
-0.01	999.42	-0.15	-0.01
-49.80	807.75	-50.03	-49.80

(1) Published Calibration: T = -251.132627 + R x 2.398537E-1 + R^2 x 1.127887E-5
(2) Calculated values using derived formula below

Over the range of -50° to +50° C the relationship between temperature and RTD resistance for this sensor has been calculated as follows

R =	*999.476933*
+ T x	*3.818699*
+ T^2 x	*-6.281098E-04*

T =	*-250.498152*
+ R x	*2.393539E-01*
+ R^2 x	*1.128128E-05*

Where R is the RTD resistance in ohms; T is the temperature in degrees C

All reference equipment used in this calibration procedure have been tested by comparison to traceable standards certified by the National Institute of Standards and Technology.

Reference Instrument	Serial #	NIST Test Reference
Brooklyn Thermometer Model 43-FC	3006-118	Z233618
Brooklyn Thermometer Model 22332-D5-FC	25071	Z233617
Brooklyn Thermometer Model 2X400-D7-FC	77532	Z233619
Keithley Multimeter Model 191	15232	10109901

Tested By: S Sage

CERTIFICATE OF CALIBRATION AND TESTING

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

MODEL: **18802 / 18811** SERIAL NUMBER: CA03376
(18802 Comprised of Models 18820A Control Unit & 18830A Motor Assembly)
(18811 Comprised of Models 18820A Control Unit & 18831A Motor Assembly)

Nominal Motor RPM	27106D Output Frequency (Hz) - (1)	Calculated Rpm (1)	Indicated Rpm (2)
18802		-	☒ CW / CCW rotation verified
300	50	300	300
2700	450	2700	2700
5100	850	5100	5100
7500	1250	7500	7500
10,200	1700	10,200	10,200
12,600	2100	12,600	12,600
15,000	2500	15,000	15,000
18811		-	☒ CW / CCW rotation verified
30.0	5	30.0	30.0
150.0	25	150.0	150.0
300.0	50	300.0	300.0
450.0	75	450.0	450.0
600.0	100	600.0	600.0
750.0	125	750.0	750.0
990.0	165	990.0	990.0

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

☐ New Unit(s)	☒ Service / Repair Unit ☒ No Calibration Adjustments Required	☑ As Found ☐ As Left

Traceable frequency meter used in calibration Model: 34405A SN: 53020093

Date of inspection 8/11/2016
Inspection Interval One Year

Tested By SS

CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

Certificate of Calibration

Model: HC2S3 Serial Number: 61045255

CSI Calibration Number: 160809447
Calibration Procedures: TST_HMPCAL R4 PRC33A R22

Instrument Calibration Condition

Received Disposition: In Tolerance
Returned Disposition: In Tolerance

Recommended Calibration Schedule

If the customer has not requested a calibration interval, a non-mandatory recommended interval is provided. Based on past experience and assumed normal usage, it is recommended that this instrument be calibrated in accordance with the interval stated below to insure sustained accuracy and reliable performance.

Calibration Date: 08-Aug-16 **Recommended Interval:** 1 year of service

Report of Calibration Standards Used

Make/Model	Serial Number	Cal. Due Date	Trace Number
CR3000	1870	04-Mar-17	707032381
HMT-337	D0720007	02-Oct-16	2000939-151002-HMT337-D0720007

CSI certifies the above instrument meets or exceeds published specifications and has been calibrated using standards and instruments whose accuracies are traceable to the National Institute of Standards and Technology, an accepted value of a natural physical constant or a ratio calibration technique. Policies and procedures at this facility comply with ISO-9001.

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Instrument Data Report

HC2S3 Relative Humidity and Temperature

S/N: 61045255

Accuracy [%RH]: ±2% over 10-90 %RH; ±3% over 90-100 %RH

Accuracy [°C]: ±0.2 at 20

Calibration Results:

Reference Before [%RH]	Observed Before [%RH]	Difference Before [%RH]	Reference After [%RH]	Observed After [%RH]	Difference After [%RH]
20.32	19.22	-1.1	20.49	20.71	0.22
50.17	49.58	-0.59	50.28	50.57	0.29
89.46	89	-0.46	90.31	90.8	0.49

Reference Before [°C]	Observed Before [°C]	Difference Before [°C]	Reference After [°C]	Observed After [°C]	Difference After [°C]
24.49	24.56	0.07	24.84	24.9	0.06

Ambient Conditions[%RH,°C]: 31.15, 24.45

Calibration Technician

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ISO-CAL North America, LLC
36610 N 20th Street, Phoenix, AZ 85086
Phone: 480-336-8133 / Fax: 480-336-8737
www.isocalnorthamerica.com

CALIBRATION CERTIFICATE

Certificate Number: 080816-171

Requestor: ***Air Sciences Inc***
Requestor Location: ***601 Corporate Circle, Unit D; Golden CO. 80401***
Description: ***Pyranometer*** *Model:* ***CMP3***
Serial No. / Asset No.: ***138453*** *Manufacturer:* ***Kipp & Zonen***
Date of Calibration: ***August 9, 2016*** *Calibration Due:* ***August 9, 2018***

Meets WMO specifications as Received: ***X*** *Yes* *No* *N/A*
Previous Instrument Constant: ***16.90 µV/W·M^{-2}***
Spectral Response Region: ***290 to 3000 Nanometers***
Remarks:

Site Lat-Long-Alt: ***33.8N, -112.0W, 572Meters*** *Test Angle:* ***Normal incidence*** *(Connector Facing South)*
Relative Humidity: ***51%*** *Outdoor Calibration:* ***X***
Ambient Temp: ***31 Degrees C*** *Field Calibration:*
Other:

New Instrument Constant: ***16.565 µV/W·M^{-2} @ 41 °C***

Calibration Uncertainty: ±4.4%. *The measurement uncertainty associated with this calibration is the expanded uncertainty using a coverage factor of k=2 and defines an interval estimated to have a confidence level of 95%.*

Statement of Traceability: *This pyranometer was calibrated as received in* ***70*** *solar measurement sequences in its completely assembled form by comparison with ISO-Cal North America's pyranometer reference group, which were calibrated by direct comparison against ISO-Cal North America's primary standard Eppley model AHF, s/n 28560 and or s/n 37816. This primary standard is traceable to the World Radiometric Reference (WRR), and meets World Meteorological Organization (WMO) standards. Its calibration reduction factor was derived from the International Pyrheliometer Comparison held in October 2015, in Davos, Switzerland. The instrument constant above with its calibration uncertainty meets ANSI/NCSL Z540.3 risk analysis using guard banding.*

Specification/Work Instruction: *ASTM E824, ISO 9846, & ISO-CAL-NAL-CP-004*

Standards & Calibration Equipment Used:
Hukseflux model model SR20, s/n 2726, calibrated 3/2016, calibration due 3/2017
Kipp & Zonen model CMP11, s/n 102428, calibrated 3/2016, calibration due 3/2017
Campbell Scientific Micrologger model CR23X, s/n 4421, calibrated 2/2016, calibration due 2/2018

Calibration & Approval Performed by, Laboratory/Quality Manager: Erik Naranen

enaranen@isocalnorthamerica.com

(This Calibration Certificate shall not be reproduced except in full, without the written permission of ISO-Cal North America.)

ANSI/NCSL Z540 1994-1 2006.3
ISO 17025 ACCREDITED LABORATORY
ASTM INTERNATIONAL ORGANIZATIONAL MEMBER
ACCREDITED CALIBRATION Certificate Number 4099-01
ilac-MRA

BRUNTON

2255 Brunton Court
Riverton, Wy 825001

CERTIFICATE OF CALIBRATION

Equipment Owner

Name: Air Sciences

Address: 17301 W COLFAX AVE STE 400
GOLDEN CO, 80401

Calibration traceable to the National institute of Standards and Technology in accordance with MIL-STD-45662A has been accomplished on the instrument listed below by comparison with standards maintained by the Brunton Outdoor Group. The accuracy and stability of all standards maintained by the Brunton Outdoor Group are traceable to national standards maintained by the National Institute of Standards and Technology in Washington, D.C. and Louisville, CO. Completed record of all work preformed is maintained by the Brunton Outdoor Group and is available for inspection upon request.

This unit has been calibrated to Lietz TM10E serial number 30937 traceable to N.B.S. Number 738227675 this 1st Day September 20 16.

Description Pocket Transit

Purchase Order RMA - 14906

Order Number SO - 104872

Model Number F-5006LM

Serial Number 5060706165

Calibration Date September 1, 2016

Recalibration Date September 1, 2017

Signed Patty Brogdon
Quality Control Coordinator

www.brunton.com

Mesa Labs 10 Park Place Butler, NJ 07405
NIST Traceable Calibration Facility, ISO 9001:2008 Registered

MesaLabs

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number: **723** DATE: 22-Aug-2016

Calibration Operator: P.Pitty

Critical Venturi Flow Meter: Max Uncertainity = 0.346%
Serial Number: 1A *CEESI NVLAP NIST Data File 07BGI-0001*
Serial Number: 2A *CEESI NVLAP NIST Data File 07BGI-0003*
Serial Number: 5C COX Nist Data File CCAL33222 - 5 C
Serial Number: 4A *CEESI NVLAP NIST Data File 07BGI-0002*
Serial Number: 3A *CEESI NVLAP NIST Data File 07BGI-0004*

Room Temperature: +- 0.03°C from -5°C - 70°C Room Temperature: 23.8 °C
Brand: Telatemp Serial Number: 300907
Std Cal Date 18-May-16 Std Cal Due Date 18-May-17
deltaCal:
Ambient Temperature (set): 23.8 °C
Aux (filter) Temperature (set): 23.8 °C

Barometric Pressure ans Absolute Pressure
Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%
Serial Number: HO850001
Std Cal Date 28-Mar-16 Std Cal Due Date 28-Mar-17
deltaCal:
Barometric pressure (set): 751 mm of Hg

Results of Venturi Calibration
Flow Rate (Q) vs. Pressure Drop (ΔP). Where: Q=Lpm, ΔP= Cm of H2O

Q= 4.01853 ΔP ^ 0.51932 Overall Uncertainty: 0.35%
Q= 3.96353 ΔP ^ 0.52709 Overall Uncertainty: 0.35%

Date Placed In Service_____
(To be filled in by operator upon receipt)
Recommended Recalibration Date _____
(12 months from date placed in service)

Revised: March 2016
Cal102-01T2 Rev F

MesaLabs

NVLAP Lab Code 200661-0

Calibration Certificate

CertificateNo.	112196	**Sold To:**	Air Sciences, Inc.
Product	200-520M Defender 520 Medium Flow		17301 W Colfax Ave
Serial No.	115242		Golden, CO 80401
Cal. Date	22-Aug-2016		US

All calibrations are performed at Mesa Laboratories, Inc., 10 Park Place, Butler, NJ, 07405, an ISO 17025:2005 accredited laboratory through NVLAP of NIST. This report shall not be reproduced except in full without the written approval of the laboratory. Results only relate to the items calibrated. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

As Received Calibration Data

		Lab. Pressure	mmHg
Technician	Sonia Otero	**Lab. Temperature**	22 °C

Instrument Reading	Lab Standard Reading	Deviation	Allowable Deviation	As Received
ccm	ccm		1.00%	
ccm	ccm		1.00%	
ccm	ccm		1.00%	
°C	°C	-	± 0.8°C	
mmHg	mmHg	-	± 3.5 mmHg	

Mesa Laboratories Standards Used

Description	Standard Serial Number	Calibration Date	Calibration Due Date
Percision Thermometer			
Precision Barometer			

MesaLabs

NVLAP Lab Code 200661-0

As Shipped Calibration Data

Certificate No	112196	**Lab. Pressure**	753 mmHg
Technician	Sonia Otero	**Lab. Temperature**	22 °C

Instrument Reading	Lab Standard Reading	Deviation	Allowable Deviation	As Shipped
4514.3 ccm	4504.1 ccm	0.23%	1.00%	In Tolerance
1002.4 ccm	1003.5 ccm	-0.11%	1.00%	In Tolerance
250.09 ccm	251.46 ccm	-0.54%	1.00%	In Tolerance
21.8 °C	21.8 °C	-	± 0.8°C	In Tolerance
753 mmHg	753 mmHg	-	± 3.5 mmHg	In Tolerance

Mesa Laboratories Standards Used

Description	Standard Serial Number	Calibration Date	Calibration Due Date
ML-500-24	110409	22-Jun-2016	22-Jun-2017
Percision Thermometer	305460	22-Sep-2015	21-Sep-2016
Precision Barometer	431/98-07	20-Jun-2016	20-Jun-2017

Calibration Notes

The expanded uncertainty of flow, temperature, and pressure measurements all have a coverage factor of k = 2 for a confidence interval of approximately 95%.

Flow testing is in accordance with our test number PR18-13 with an expanded uncertainty of 0.27% using high-purity nitrogen or filtered laboratory air.

Pressure testing is in accordance with our test number PR18-11 with an expanded uncertainty of 0.16 mmHg.

Temperature testing is in accordance with our test number PR18-12 with an expanded uncertainty of 0.04 ºC.

Traceability to the International System of Units (SI) is verified by accreditation to ISO/IEC 17025 by NVLAP under NVLAP Code 200661-0.

Technician Notes:

Louis Guido, Chief Metrologist

CERTIFICATION OF CALIBRATION

This instrument has been calibrated using standards maintained at Teledyne API (9970 Carroll Canyon Road, San Diego, CA 92131, USA), which are traceable to the United States National Institute of Standards and Technology. This calibration was performed to Teledyne API specifications. Supporting documentation relative to traceability is on file at this office, and is available for examination at Teledyne API upon request.

CERTIFICATION OF:

Model: T700
Part Number: 070700000
Serial Number: 816

CAL DATE: 02/13/2017
DUE DATE: 02/12/2018

CERTIFICATION LEVEL

RESTRICTED ☐ (see below)
INTERIM ☐
FINAL ☒

RMA NUMBER: 15677

SERVICE ORDER NUMBER: 15032

AS RECEIVED CONDITION:

☐ Item received in calibration ☐ Item is out of calibration

As found condition (test data):

CALIBRATION DATA: This certifies that the above referenced instrument meets or exceeds all design specifications. Testing has been performed using instruments calibrated by an independent party using a NIST-traceable SRP ozone analyzer for the assay of ozone as described in 40CFR50, Appendix D. It is maintained as a certified transfer standard according to the guidelines described in EPA's Technical Assistance Documents: Transfer Standards for the Calibration of Air Monitoring Analyzers for Ozone (EPA-600/4-79-056), September 1979, and Technical Assistance Document for the Calibration of Ambient Ozone Monitors (EPA-600/4-79-057), September 1979 for concentrations at or below 1 ppm. Instrument readings in excess of 1 ppm are extrapolated. This transfer standard is periodically verified against an NIST Standard Reference Photometer. Specific data are available upon request.

Environmental Conditions At Time Of Calibration: 65-75 °F, RH = 20-80%
If calibration is restricted, specify restriction: NO RESTRICTION

Test Data @ 1000 PPB Full Scale		
Input	**Measured**	**% Deviation (≤ 1%)**
900	901.7	0.17
740	740.7	0.07
420	420.5	0.05
260	260.4	0.04
90	90.6	0.06
50	50.6	0.06
0	0.5	0.05
% Deviation = ((Measured - Input) / Full Scale) *100		

Test and Measuring Equipment Used:

Model Number	Serial Number / Asset Number	Calibration Date	Calibration Due
400	0071 / EL0000209	07/08/2016	07/07/2017

PERFORMED BY:	DATE	APPROVED BY:	DATE
[illegible]	2-13-17	[illegible]	2-13-17