



AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

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

April 1 - June 30, 2017

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

PROJECT NO. 262-28-2  
NOVEMBER 2017

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# 1.0 INTRODUCTION

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This report summarizes the meteorological, upper-air (SoDAR<sup>1</sup>), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), ozone (O<sub>3</sub>), and particulate matter (PM) data collected at the Resolution Copper Project near Superior, Arizona, for the second quarter, April 1 through June 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.

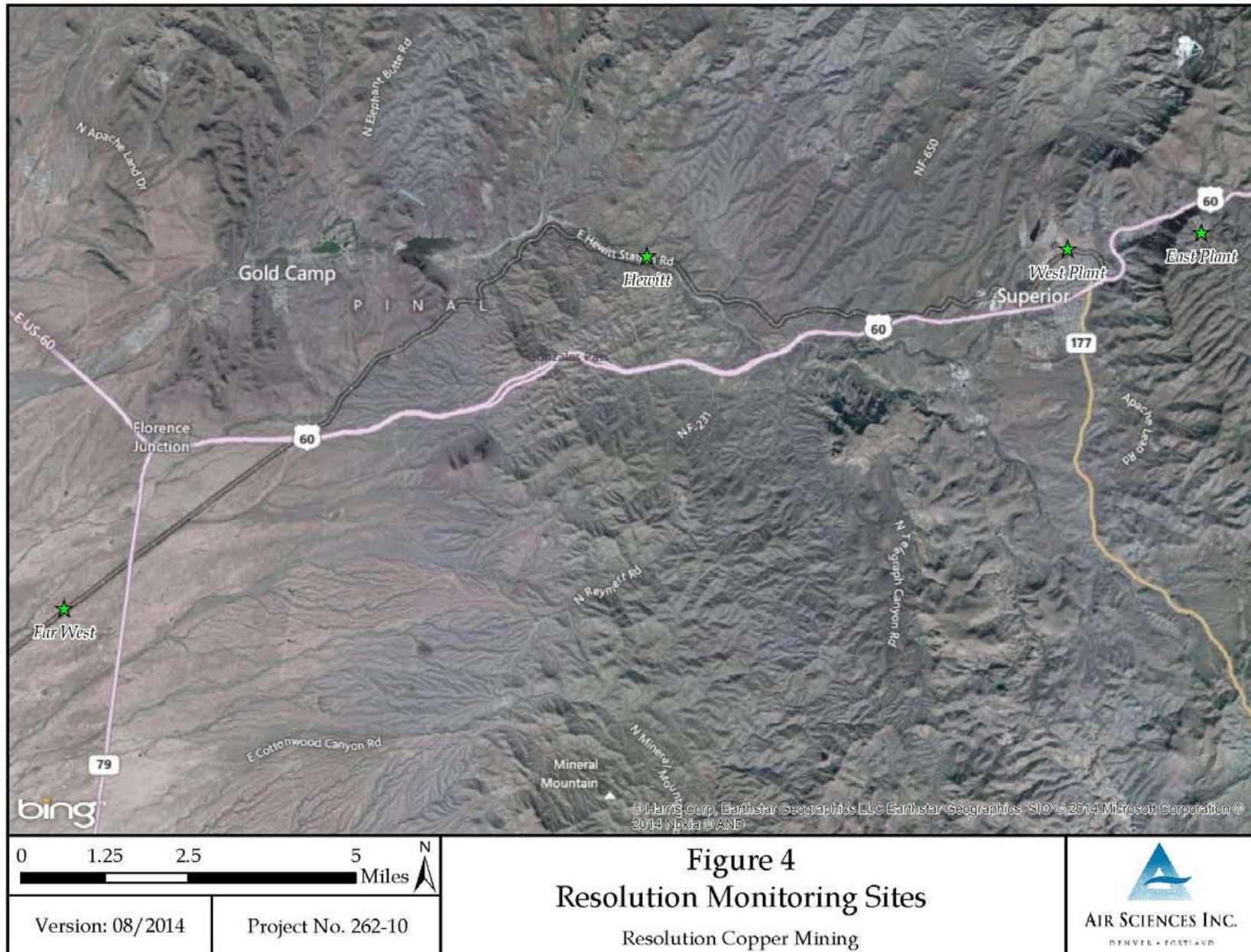
**Table 1. Monitoring Station Locations**

| 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                     |

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<sup>1</sup> 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



## 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 ( $\Delta T$ , 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 <sup>2</sup> ])       | 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 <sub>10</sub> )   | 3          | 2          | --     | 2        |
|                            | FEM* Particulate matter less than 2.5 Microns (PM <sub>2.5</sub> ) | 3          | 2          | --     | 2        |
|                            | Nitrogen dioxide (NO <sub>2</sub> )                                | 3          | --         | --     | --       |
|                            | Sulfur dioxide (SO <sub>2</sub> )                                  | 3          | --         | --     | --       |
|                            | Ozone (O <sub>3</sub> )                                            | 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 April 1 through June 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<sub>2</sub> Data**

NO<sub>2</sub> is measured at the East Plant using the Teledyne T200 Chemiluminescence NO<sub>2</sub> 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<sub>x</sub>) (with nitrogen dioxide, NO<sub>2</sub>, as an indicator) at trace levels in ambient air. The instrument is operated continuously to collect hourly NO, NO<sub>2</sub>, and NO<sub>x</sub> 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<sub>2</sub> data for the East Plant from April 1 through June 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<sub>2</sub> monitor are performed according to the guidelines outlined in the Monitoring Plan.

### **1.2.3 SO<sub>2</sub> Data**

SO<sub>2</sub> is measured at the East Plant using the Teledyne T100 UV Fluorescence SO<sub>2</sub> Analyzer, which holds an EPA designation as an Automated Equivalent Method (EQSA-0495-100). The instrument is operated continuously to collect hourly SO<sub>2</sub> 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<sub>2</sub> data for the East Plant from April 1 through June 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<sub>2</sub> monitor are performed according to the guidelines outlined in the Monitoring Plan.

### **1.2.4 O<sub>3</sub> Data**

O<sub>3</sub> is measured at the East Plant using the Teledyne T400 UV Absorption O<sub>3</sub> Analyzer, which holds an EPA designation as an Automated Equivalent Method (EQOA-0992-087). The instrument is operated continuously to collect hourly O<sub>3</sub> 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<sub>3</sub> data for the East Plant from April 1 through June 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<sub>3</sub> monitor are performed according to the guidelines outlined in the Monitoring Plan.

### **1.2.5 PM Data**

PM<sub>10</sub> and PM<sub>2.5</sub> are measured at the East Plant, West Plant, and Far West sites using Met One Instruments' Beta Attenuation Monitors (BAM). At each site, one BAM is configured as a PM<sub>2.5</sub> FEM, which holds the EPA designation EQPM-0308-170, and the other BAM is configured as a PM<sub>10</sub> FEM, which holds the EPA designation EQPM-0798-122. The instruments are operated continuously to collect hourly PM<sub>2.5</sub> and PM<sub>10</sub> 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<sub>2.5</sub> and PM<sub>10</sub> data from April 1 through June 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<sub>10</sub> and PM<sub>2.5</sub>), valid 24-hour maximum values (for SO<sub>2</sub> and NO<sub>2</sub>), and valid daily rolling 8-hour maximum values (for O<sub>3</sub>) 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**  
**April 1–June 30, 2017 (percent)**

|                           | East Plant               |                  | West Plant               |                  | Hewitt                   |                  | Far West                 |                  | Minimum<br>Required<br>Recovery Rate |
|---------------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------------------|
| Parameter*                | Recorded<br>Observations | Recovery<br>Rate | Recorded<br>Observations | Recovery<br>Rate | Recorded<br>Observations | Recovery<br>Rate | Recorded<br>Observations | Recovery<br>Rate |                                      |
| <b>Meteorological</b>     |                          |                  |                          |                  |                          |                  |                          |                  |                                      |
| Wind speed (10 m)         | 2,184                    | 100              | 1,813                    | 83.0**           | 2,184                    | 100              | 2,184                    | 100              | 90                                   |
| Wind direction (10 m)     | 2,184                    | 100              | 1,805                    | 82.6**           | 2,184                    | 100              | 2,184                    | 100              | 90                                   |
| Wind speed (20 m)         | --                       | --               | --                       | --               | 35                       | 0.02**           | --                       | --               | 90                                   |
| Wind direction (20 m)     | --                       | --               | --                       | --               | 35                       | 0.02**           | --                       | --               | 90                                   |
| Temperature (2 m)         | 2,184                    | 100              | 1,805                    | 82.6**           | 2,184                    | 100              | 2,184                    | 100              | 90                                   |
| Delta temperature         | 2,184                    | 100              | 1,813                    | 83.0**           | 2,184                    | 100              | 1,964                    | 89.9             | 90                                   |
| Relative humidity         | 2,184                    | 100              | 1,813                    | 83.0**           | 2,184                    | 100              | 2,184                    | 100              | 90                                   |
| Barometric pressure       | 2,184                    | 100              | 1,813                    | 83.0**           | 2,184                    | 100              | 2,184                    | 100              | 90                                   |
| Precipitation             | 2,184                    | 100              | 1,813                    | 83.0**           | --                       | --               | --                       | --               | 90                                   |
| Solar radiation           | 2,184                    | 100              | 1,813                    | 83.0**           | 2,184                    | 100              | 2,184                    | 100              | 90                                   |
| <b>Upper-Air (SoDAR)</b>  |                          |                  |                          |                  |                          |                  |                          |                  |                                      |
| Wind speed (20-190 m)     | --                       | --               | --                       | --               | 2,140-2,143              | 98.0 – 98.1      | --                       | --               | 90                                   |
| Wind direction (20-190 m) | --                       | --               | --                       | --               | 2,140-2,143              | 98.0 – 98.1      | --                       | --               | 90                                   |
| <b>Gaseous</b>            |                          |                  |                          |                  |                          |                  |                          |                  |                                      |
| NO <sub>2</sub>           | 79                       | 86.8             | --                       | --               | --                       | --               | --                       | --               | 75                                   |
| O <sub>3</sub>            | 79                       | 86.8             | --                       | --               | --                       | --               | --                       | --               | 75                                   |
| SO <sub>2</sub>           | 90                       | 98.9             | --                       | --               | --                       | --               | --                       | --               | 75                                   |
| <b>Particulate</b>        |                          |                  |                          |                  |                          |                  |                          |                  |                                      |
| PM <sub>10</sub>          | 91                       | 100              | 67                       | 73.6**           | --                       | --               | 66                       | 72.5**           | 75                                   |
| PM <sub>2.5</sub>         | 91                       | 100              | 90                       | 98.9             | --                       | --               | 66                       | 72.5**           | 75                                   |

\* Meteorological and upper-air parameters are observed hourly (2,184 hours in this period).

NO<sub>2</sub>, O<sub>3</sub>, SO<sub>2</sub>, and PM parameters are observed every 24 hours (91 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**

No wind speed or wind direction data were invalidated at the East Plant station for the second quarter of 2017.

#### **2.1.1.2 West Plant Meteorological Data Loss**

The West Plant datalogger intermittently experienced internal serial port communication failure, which prevented data recovery from its internal memory starting June 2017. During the quarterly audit and maintenance activities conducted on July 10, 2017, the West Plant data pending recovery for the second quarter of 2017 were inadvertently deleted by the Field Technician, resulting in data loss of 371 hours.

Additional data were invalidated due to facility power outages and 15-minute averaged zero wind speeds. Because of the inadvertent data loss and these additional invalidated data, the minimum data recovery rate was not met.

#### **2.1.1.3 Hewitt Station Meteorological and Upper-Air Data Loss**

The Hewitt Station 20-meter wind data collected for the second 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.

Invalid and/or missing Hewitt Station SoDAR data during the second 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**

Delta temperature data were invalidated at the Far West station for 220 hours during the second quarter of 2017 due to power outages.

### **2.1.2 NO<sub>2</sub> Data Loss**

NO<sub>2</sub> data were invalidated due to Level 1 and Level 2 zero/span checks and weekly services during the second quarter of 2017. Additional NO<sub>2</sub> data were invalidated due to quarterly audit activities and data quality assurance and control procedures.

### **2.1.3 SO<sub>2</sub> Data Loss**

SO<sub>2</sub> data were invalidated due to Level 1 and Level 2 zero/span checks and weekly services during the second quarter of 2017. Additional SO<sub>2</sub> data were invalidated due to quarterly audit activities.

### **2.1.4 O<sub>3</sub> Data Loss**

O<sub>3</sub> data were invalidated due to Level 1 and Level 2 zero/span checks and weekly services during the second quarter of 2017.

### **2.1.5 PM Data Loss**

#### **2.1.5.1 East Plant PM Data Loss**

No 24-hour average PM<sub>10</sub> and PM<sub>2.5</sub> data were invalidated at the East Plant station during the second quarter of 2017.

Invalid hourly PM<sub>10</sub> and PM<sub>2.5</sub> data at the East Plant station were due to monthly flow verifications, regularly scheduled maintenance, audit activities, power outages, and internal instrument errors.

#### **2.1.5.2 West Plant PM Data Loss**

24-hour average PM<sub>10</sub> data were invalidated at the West Plant station on April 1, 2017, due to a facility power outage. 24-hour averaged PM<sub>10</sub> data were invalidated from April 5, 2017, through April 6, 2017, and from June 13, 2017, through June 15, 2017, due to sample tape errors. 24-hour averaged PM<sub>10</sub> data were invalidated on April 20, 2017, May 31, 2017, and June 7, 2017, due to reference membrane errors. 24-hour average PM<sub>10</sub> data were invalidated from June 19, 2017, through June 29, 2017, due to replicated hourly concentrations.

24-hour average PM<sub>2.5</sub> data were invalidated at the West Plant station on April 1, 2017, due to a facility power outage.

Invalid hourly PM<sub>10</sub> and PM<sub>2.5</sub> data at the West Plant station were due to monthly flow verifications, regularly scheduled maintenance, audit activities, power outages, and internal instrument errors.

#### **2.1.5.3 Far West PM Data Loss**

All invalid and or missing 24-hour average PM<sub>10</sub> and PM<sub>2.5</sub> data at the Far West station were due to site power outages.

Invalid hourly PM<sub>10</sub> and PM<sub>2.5</sub> data at the Far West station were due to monthly flow verifications, regularly scheduled maintenance, audit activities, internal instrument errors, and power outages.

## **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

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### 3.1 Meteorological and Upper-Air Data Summary

Meteorological and upper-air data from April 1 through June 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:

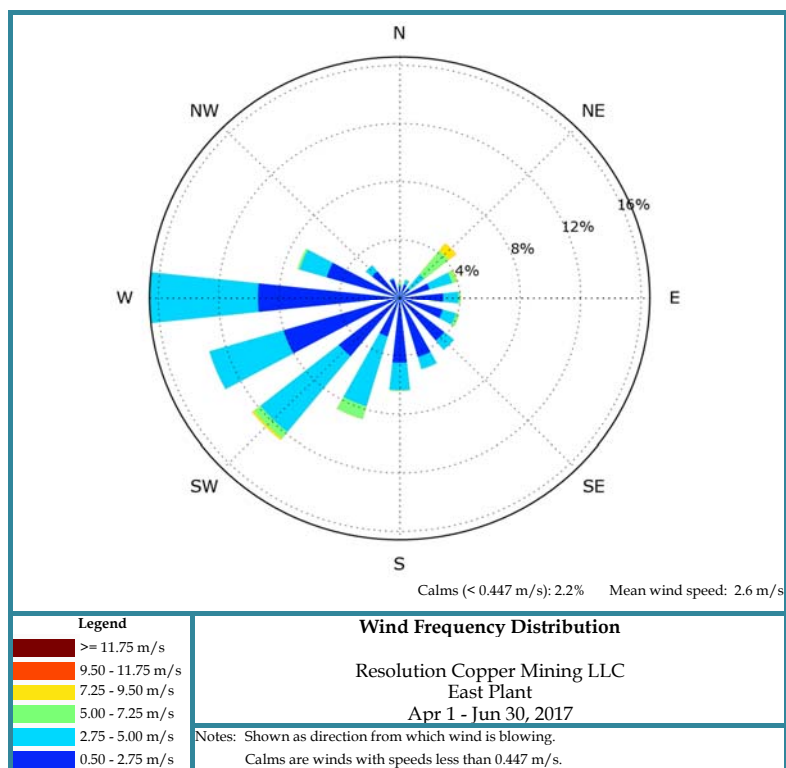
**Wind Rose** – The Wind Rose graphically depicts the percentage of winds that come from each of the 16 directions for the reported period. Wind speeds are divided into six subcategories ranging from less than 0.5 m/s (the measurement threshold of the instrument) to greater than 11.75 m/s.

**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: Apr 1 - Jun 30, 2017



| Direction | Speed Class Intervals (m/s) (percent of occurrence) |         |       |       |        |       | All  | Mean Speed |
|-----------|-----------------------------------------------------|---------|-------|-------|--------|-------|------|------------|
|           | 0.5 < 1.5                                           | 1.5 < 3 | 3 < 5 | 5 < 7 | 7 < 10 | >= 10 |      |            |
| N         | 0.3                                                 | 0.5     | 0.1   | 0.1   | 0.0    | 0.0   | 1.1  | 2.5        |
| NNE       | 0.5                                                 | 0.5     | 0.2   | 0.0   | 0.0    | 0.0   | 1.3  | 2.2        |
| NE        | 0.5                                                 | 0.4     | 1.1   | 1.9   | 0.8    | 0.0   | 4.8  | 4.9        |
| ENE       | 0.8                                                 | 1.5     | 1.3   | 0.3   | 0.1    | 0.0   | 4.0  | 2.9        |
| E         | 1.3                                                 | 1.9     | 0.7   | 0.1   | 0.0    | 0.0   | 4.0  | 2.2        |
| ESE       | 1.6                                                 | 1.7     | 0.6   | 0.2   | 0.0    | 0.0   | 4.1  | 2.2        |
| SE        | 2.6                                                 | 1.4     | 0.7   | 0.0   | 0.0    | 0.0   | 4.6  | 1.7        |
| SSE       | 3.4                                                 | 1.1     | 0.6   | 0.0   | 0.0    | 0.0   | 5.1  | 1.5        |
| S         | 3.4                                                 | 1.6     | 1.4   | 0.0   | 0.0    | 0.0   | 6.4  | 1.8        |
| SSW       | 1.4                                                 | 1.8     | 4.5   | 0.9   | 0.0    | 0.0   | 8.7  | 3.3        |
| SW        | 1.3                                                 | 5.5     | 5.0   | 0.5   | 0.1    | 0.0   | 12.5 | 3.0        |
| WSW       | 1.2                                                 | 8.6     | 3.3   | 0.0   | 0.0    | 0.0   | 13.1 | 2.5        |
| W         | 1.5                                                 | 9.7     | 5.3   | 0.0   | 0.0    | 0.0   | 16.6 | 2.6        |
| WNW       | 1.7                                                 | 4.0     | 1.2   | 0.1   | 0.0    | 0.0   | 7.1  | 2.3        |
| NW        | 1.1                                                 | 1.6     | 0.3   | 0.0   | 0.0    | 0.0   | 2.9  | 1.9        |
| NNW       | 0.6                                                 | 0.7     | 0.0   | 0.0   | 0.0    | 0.0   | 1.4  | 1.7        |
| All       | 23.3                                                | 42.4    | 26.6  | 4.3   | 1.1    | 0.0   | 97.8 | 2.6        |

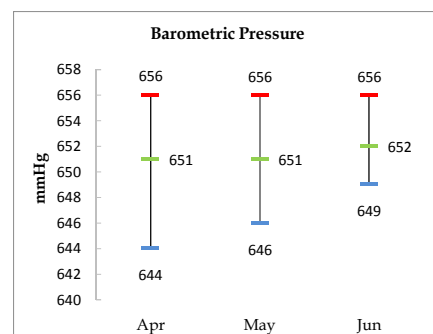
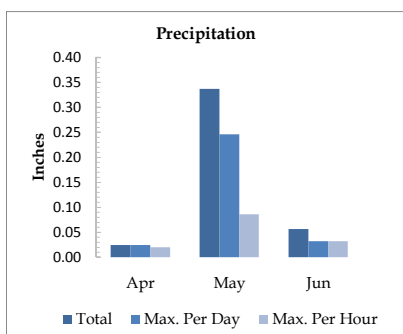
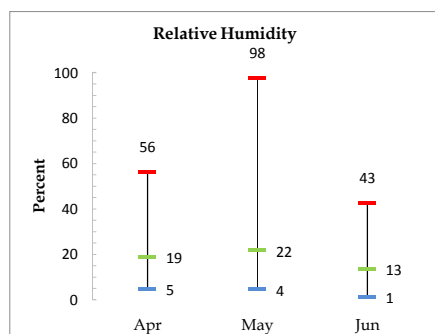
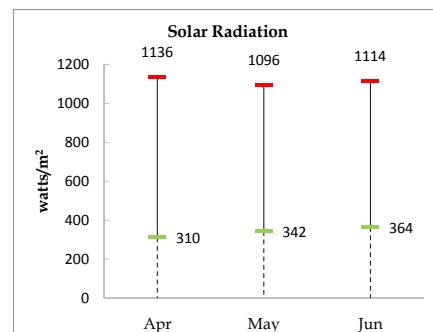
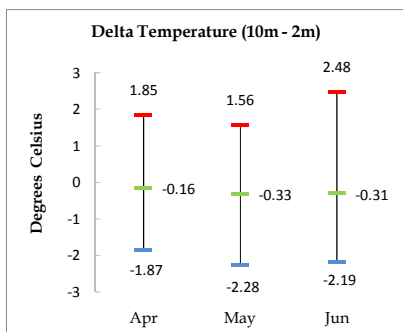
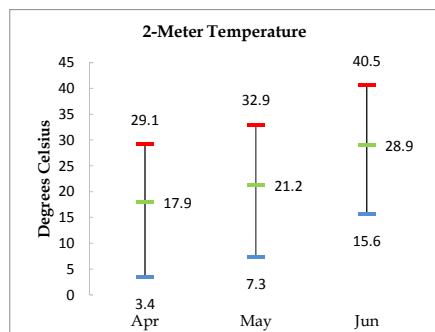
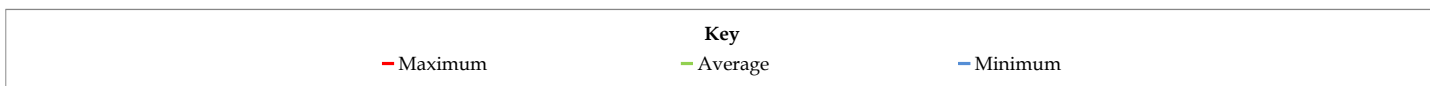
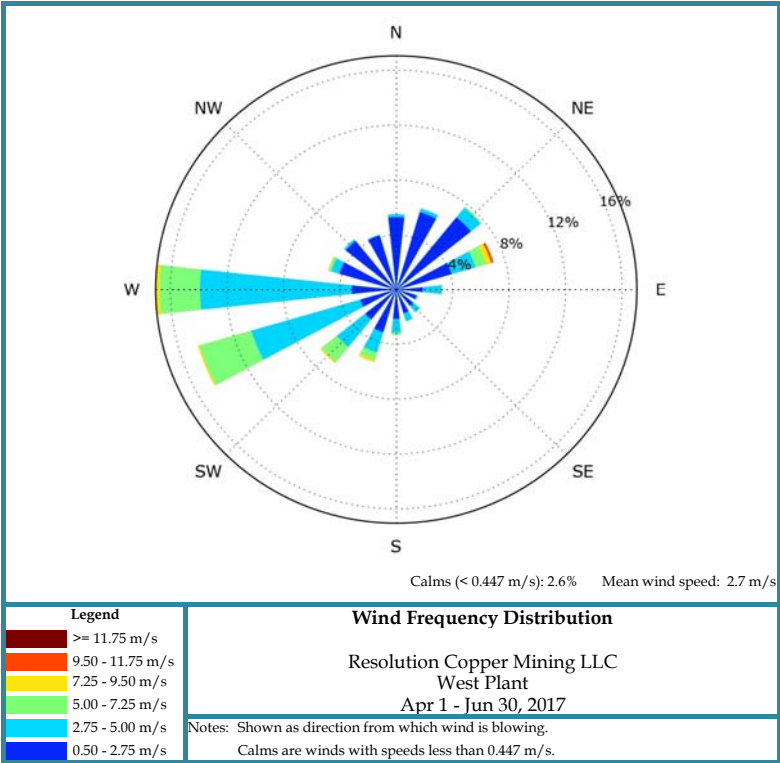
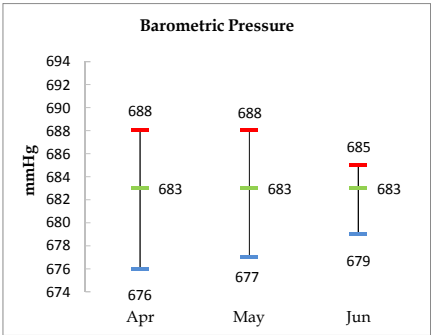
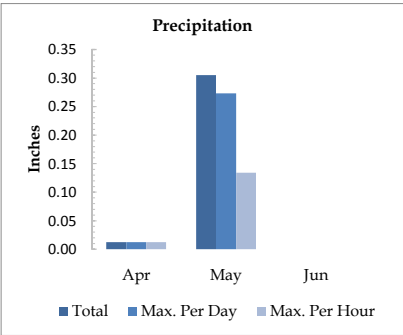
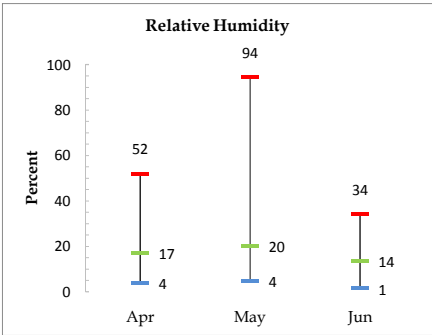
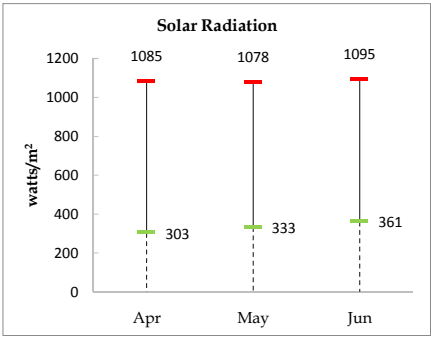
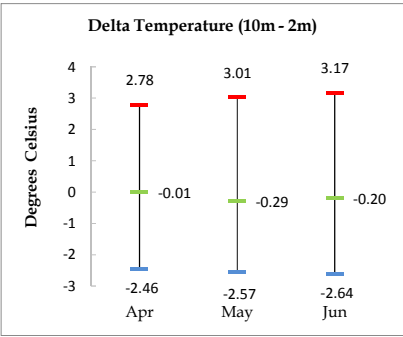
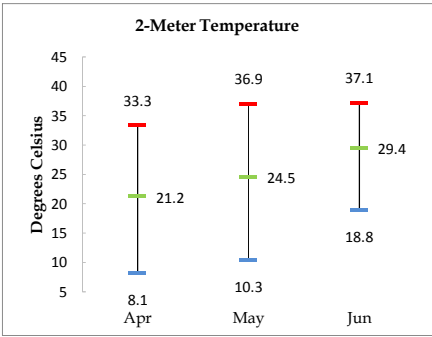
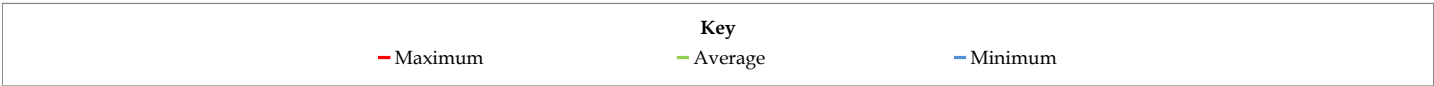


Figure 3: West Plant Meteorological Data Summary

Meteorological Data: Apr 1 - Jun 30, 2017

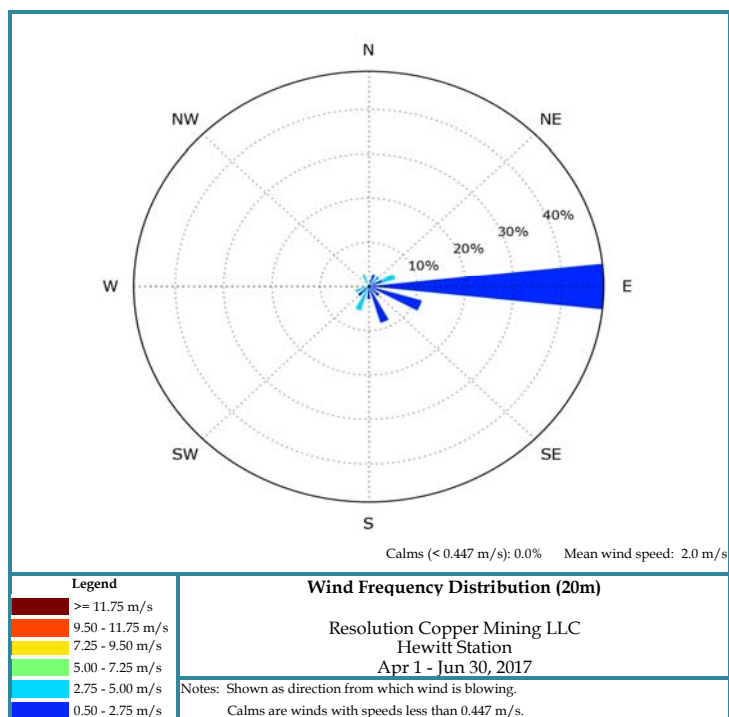


| Direction | Speed Class Intervals (m/s) (percent of occurrence) |        |      |      |       |      | All  | Mean Speed |
|-----------|-----------------------------------------------------|--------|------|------|-------|------|------|------------|
|           | 0.5 <1.5                                            | 1.5 <3 | 3 <5 | 5 <7 | 7 <10 | >=10 |      |            |
| N         | 4.4                                                 | 1.1    | 0.1  | 0.0  | 0.0   | 0.0  | 5.5  | 1.1        |
| NNE       | 4.6                                                 | 1.3    | 0.3  | 0.0  | 0.0   | 0.0  | 6.2  | 1.3        |
| NE        | 3.9                                                 | 3.1    | 0.6  | 0.1  | 0.1   | 0.0  | 7.8  | 1.7        |
| ENE       | 2.5                                                 | 1.8    | 1.6  | 0.8  | 0.4   | 0.2  | 7.2  | 3.1        |
| E         | 0.9                                                 | 1.1    | 1.2  | 0.1  | 0.0   | 0.0  | 3.3  | 2.6        |
| ESE       | 0.9                                                 | 0.6    | 0.1  | 0.0  | 0.0   | 0.0  | 1.6  | 1.6        |
| SE        | 0.7                                                 | 1.0    | 0.4  | 0.0  | 0.0   | 0.0  | 2.2  | 2.2        |
| SSE       | 1.3                                                 | 0.7    | 0.4  | 0.0  | 0.0   | 0.0  | 2.4  | 1.8        |
| S         | 0.8                                                 | 1.6    | 0.8  | 0.2  | 0.0   | 0.0  | 3.3  | 2.5        |
| SSW       | 1.7                                                 | 1.7    | 1.4  | 0.4  | 0.3   | 0.0  | 5.5  | 2.8        |
| SW        | 0.8                                                 | 2.4    | 2.3  | 1.3  | 0.2   | 0.0  | 6.9  | 3.5        |
| WSW       | 0.4                                                 | 2.9    | 7.4  | 3.7  | 0.2   | 0.0  | 14.6 | 4.1        |
| W         | 1.4                                                 | 2.5    | 9.9  | 2.8  | 0.4   | 0.0  | 17.0 | 3.9        |
| WNW       | 2.5                                                 | 1.9    | 0.4  | 0.1  | 0.1   | 0.0  | 5.0  | 1.9        |
| NW        | 3.9                                                 | 0.8    | 0.1  | 0.0  | 0.0   | 0.0  | 4.7  | 1.1        |
| NNW       | 3.5                                                 | 0.7    | 0.0  | 0.0  | 0.0   | 0.0  | 4.2  | 1.1        |
| All       | 34.1                                                | 25.2   | 27.0 | 9.4  | 1.6   | 0.2  | 97.4 | 2.7        |



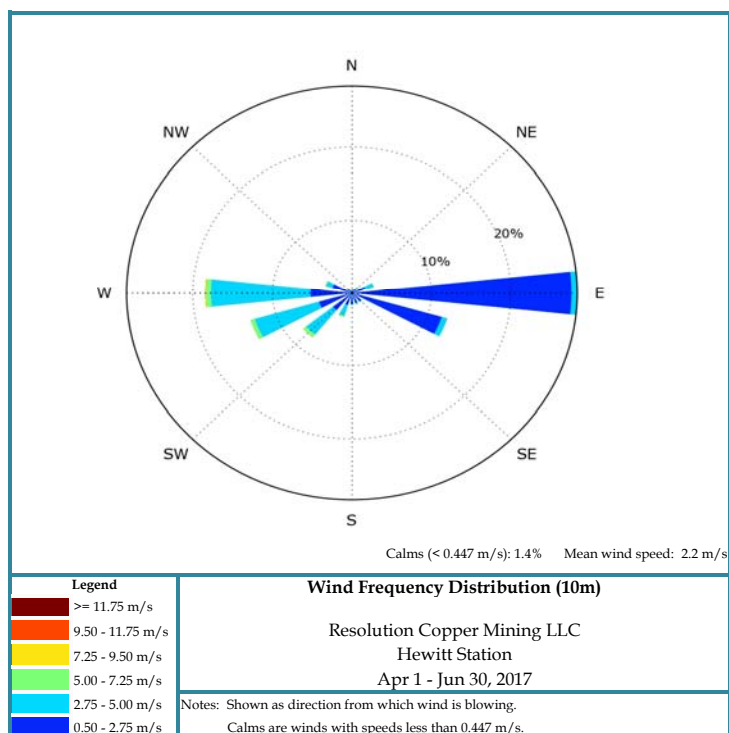
# Figure 4: Hewitt Station Meteorological Data Summary

Meteorological Data: Apr 1 - Jun 30, 2017



20 Meters

| Direction | Speed Class Intervals (m/s) (percent of occurrence) |        |      |      |       |      | All   | Mean Speed |
|-----------|-----------------------------------------------------|--------|------|------|-------|------|-------|------------|
|           | 0.5 <1.5                                            | 1.5 <3 | 3 <5 | 5 <7 | 7 <10 | >=10 |       |            |
| N         | 0.0                                                 | 0.0    | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0        |
| NNE       | 0.0                                                 | 2.9    | 0.0  | 0.0  | 0.0   | 0.0  | 2.9   | 2.3        |
| NE        | 0.0                                                 | 2.9    | 0.0  | 0.0  | 0.0   | 0.0  | 2.9   | 2.8        |
| ENE       | 0.0                                                 | 2.9    | 2.9  | 0.0  | 0.0   | 0.0  | 5.7   | 3.0        |
| E         | 25.7                                                | 22.9   | 0.0  | 0.0  | 0.0   | 0.0  | 48.6  | 1.5        |
| ESE       | 0.0                                                 | 11.4   | 0.0  | 0.0  | 0.0   | 0.0  | 11.4  | 2.0        |
| SE        | 0.0                                                 | 2.9    | 0.0  | 0.0  | 0.0   | 0.0  | 2.9   | 1.5        |
| SSE       | 2.9                                                 | 5.7    | 0.0  | 0.0  | 0.0   | 0.0  | 8.6   | 1.7        |
| S         | 0.0                                                 | 2.9    | 0.0  | 0.0  | 0.0   | 0.0  | 2.9   | 2.5        |
| SSW       | 0.0                                                 | 2.9    | 2.9  | 0.0  | 0.0   | 0.0  | 5.7   | 3.4        |
| SW        | 2.9                                                 | 0.0    | 0.0  | 0.0  | 0.0   | 0.0  | 2.9   | 1.1        |
| WSW       | 0.0                                                 | 0.0    | 2.9  | 0.0  | 0.0   | 0.0  | 2.9   | 3.8        |
| W         | 0.0                                                 | 0.0    | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0        |
| WNW       | 0.0                                                 | 0.0    | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0        |
| NW        | 0.0                                                 | 0.0    | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0        |
| NNW       | 0.0                                                 | 0.0    | 2.9  | 0.0  | 0.0   | 0.0  | 2.9   | 3.0        |
| All       | 31.4                                                | 57.1   | 11.4 | 0.0  | 0.0   | 0.0  | 100.0 | 2.0        |



10 Meters

| Direction | Speed Class Intervals (m/s) (percent of occurrence) |        |      |      |       |      | All  | Mean Speed |
|-----------|-----------------------------------------------------|--------|------|------|-------|------|------|------------|
|           | 0.5 <1.5                                            | 1.5 <3 | 3 <5 | 5 <7 | 7 <10 | >=10 |      |            |
| N         | 0.2                                                 | 0.2    | 0.0  | 0.0  | 0.0   | 0.0  | 0.4  | 1.6        |
| NNE       | 0.3                                                 | 0.2    | 0.0  | 0.0  | 0.0   | 0.0  | 0.5  | 1.4        |
| NE        | 0.5                                                 | 0.3    | 0.2  | 0.1  | 0.0   | 0.0  | 1.1  | 2.2        |
| ENE       | 1.2                                                 | 0.6    | 1.0  | 0.0  | 0.0   | 0.0  | 2.9  | 2.3        |
| E         | 25.3                                                | 2.5    | 0.6  | 0.0  | 0.0   | 0.0  | 28.3 | 1.2        |
| ESE       | 9.8                                                 | 2.1    | 0.5  | 0.0  | 0.0   | 0.0  | 12.5 | 1.3        |
| SE        | 0.9                                                 | 0.7    | 0.0  | 0.0  | 0.0   | 0.0  | 1.6  | 1.4        |
| SSE       | 0.8                                                 | 0.8    | 0.0  | 0.0  | 0.0   | 0.0  | 1.6  | 1.7        |
| S         | 0.6                                                 | 0.9    | 0.1  | 0.0  | 0.0   | 0.0  | 1.7  | 1.7        |
| SSW       | 0.4                                                 | 1.6    | 1.3  | 0.2  | 0.0   | 0.0  | 3.5  | 2.9        |
| SW        | 0.3                                                 | 3.4    | 3.7  | 0.5  | 0.0   | 0.0  | 7.9  | 3.2        |
| WSW       | 0.8                                                 | 4.7    | 7.3  | 0.5  | 0.0   | 0.0  | 13.3 | 3.2        |
| W         | 1.1                                                 | 6.1    | 10.5 | 0.6  | 0.1   | 0.0  | 18.5 | 3.3        |
| WNW       | 1.1                                                 | 1.6    | 0.6  | 0.1  | 0.0   | 0.0  | 3.5  | 2.2        |
| NW        | 0.5                                                 | 0.3    | 0.0  | 0.0  | 0.0   | 0.0  | 0.8  | 1.3        |
| NNW       | 0.2                                                 | 0.1    | 0.1  | 0.0  | 0.0   | 0.0  | 0.5  | 1.8        |
| All       | 44.1                                                | 26.2   | 26.1 | 2.1  | 0.1   | 0.0  | 98.6 | 2.2        |

**Figure 4: Hewitt Station Meteorological Data Summary (Continued)**

Meteorological Data: Apr 1 - Jun 30, 2017

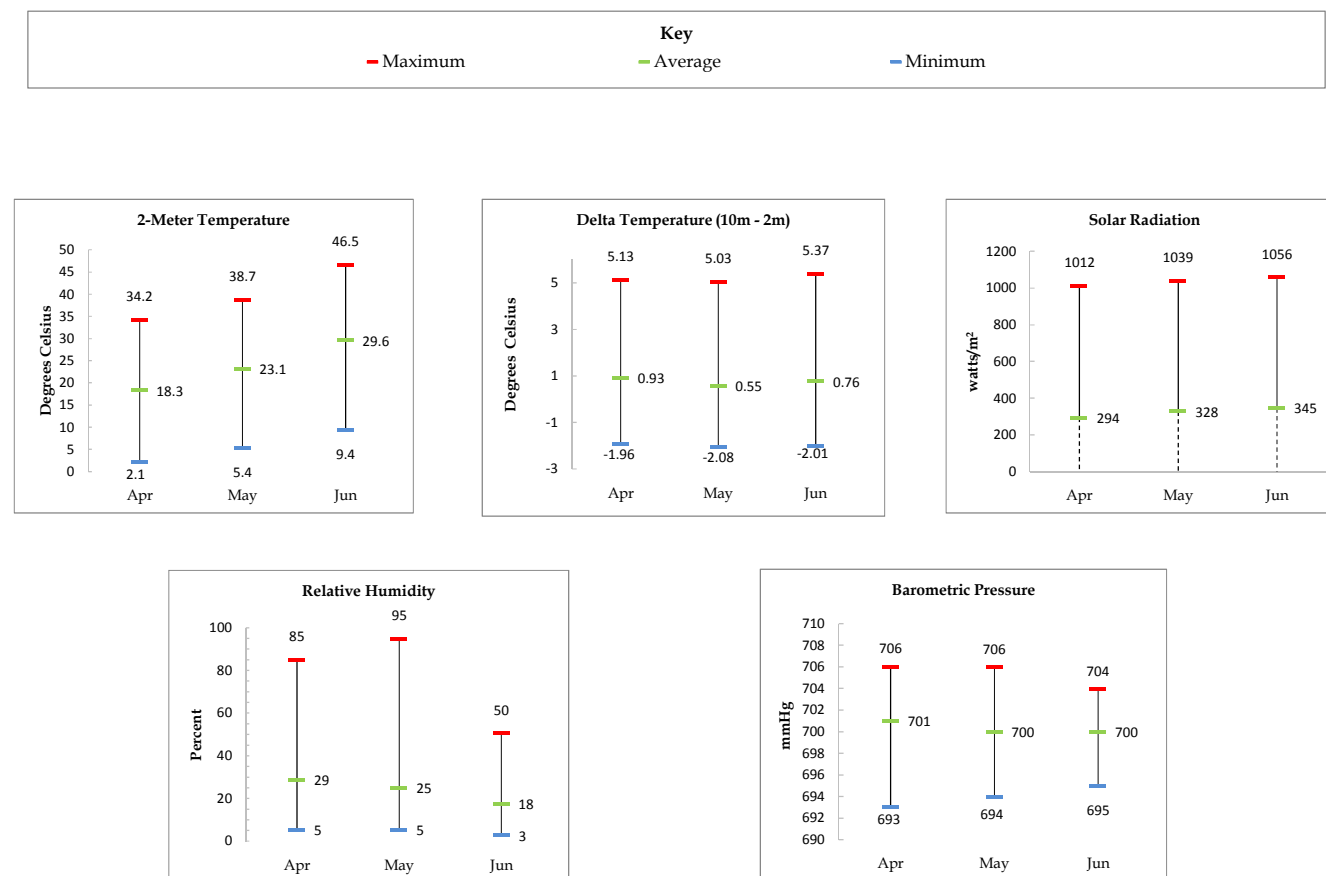
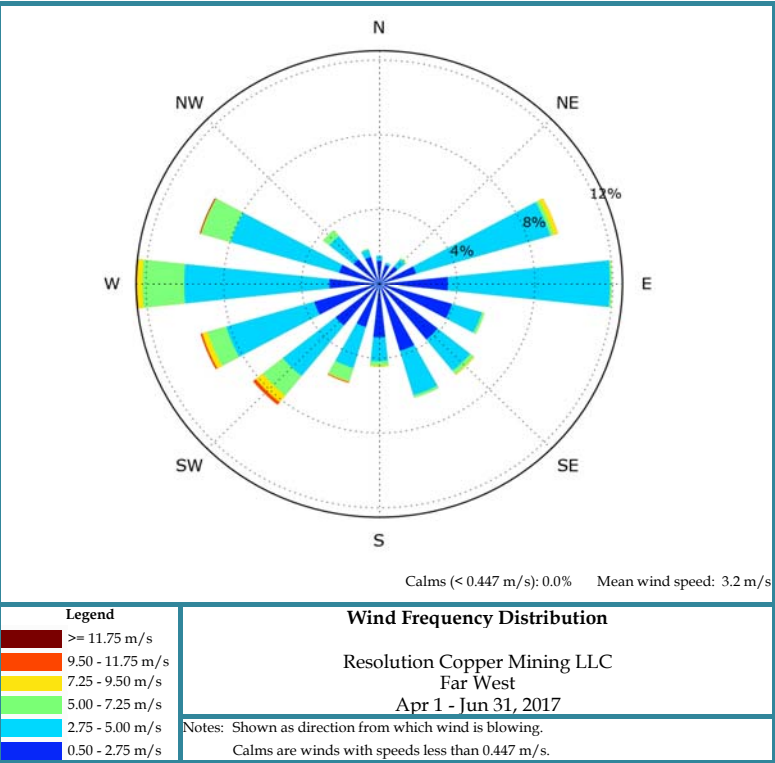


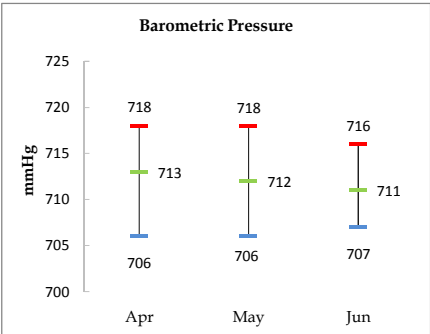
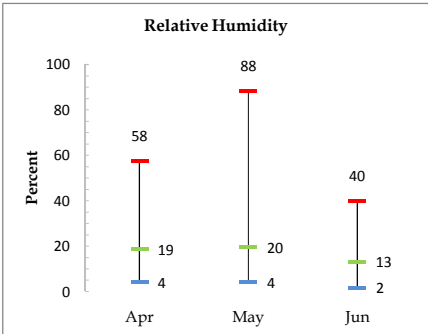
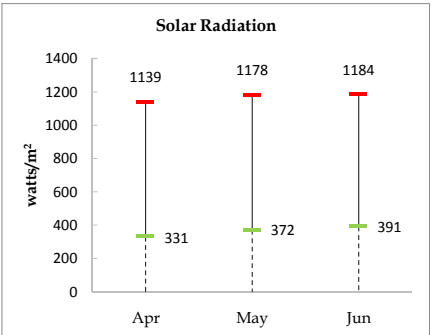
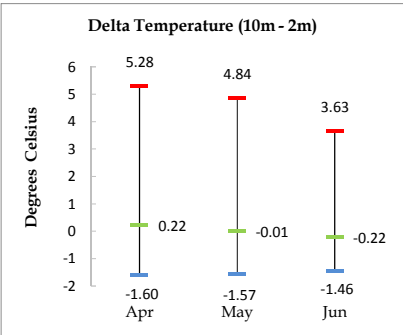
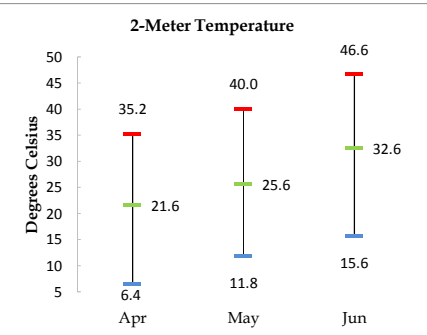
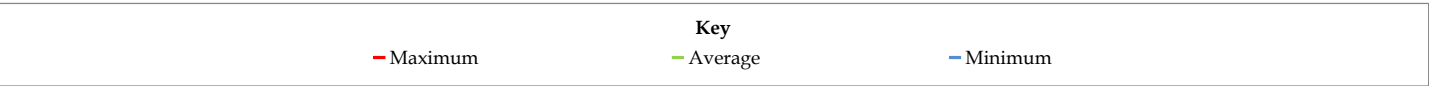


Figure 5: Far West Meteorological Data Summary

Meteorological Data: Apr 1 - Jun 31, 2017



| Direction | Speed Class Intervals (m/s) (percent of occurrence) |        |      |      |       |      | All   | Mean Speed |
|-----------|-----------------------------------------------------|--------|------|------|-------|------|-------|------------|
|           | 0.5 <1.5                                            | 1.5 <3 | 3 <5 | 5 <7 | 7 <10 | >=10 |       |            |
| N         | 0.2                                                 | 1.1    | 0.1  | 0.0  | 0.0   | 0.0  | 1.5   | 2.2        |
| NNE       | 0.2                                                 | 0.9    | 0.0  | 0.0  | 0.0   | 0.0  | 1.2   | 2.0        |
| NE        | 0.2                                                 | 1.2    | 0.3  | 0.1  | 0.0   | 0.0  | 1.8   | 2.6        |
| ENE       | 0.3                                                 | 2.9    | 6.0  | 0.1  | 0.3   | 0.0  | 9.6   | 3.4        |
| E         | 0.4                                                 | 5.5    | 6.0  | 0.0  | 0.0   | 0.0  | 12.0  | 3.0        |
| ESE       | 0.5                                                 | 4.1    | 0.9  | 0.1  | 0.0   | 0.0  | 5.6   | 2.5        |
| SE        | 0.6                                                 | 4.1    | 1.3  | 0.2  | 0.0   | 0.0  | 6.3   | 2.7        |
| SSE       | 0.4                                                 | 4.5    | 1.4  | 0.1  | 0.0   | 0.0  | 6.4   | 2.6        |
| S         | 0.2                                                 | 3.1    | 0.8  | 0.2  | 0.0   | 0.0  | 4.4   | 2.7        |
| SSW       | 0.4                                                 | 2.5    | 1.8  | 0.7  | 0.1   | 0.0  | 5.5   | 3.3        |
| SW        | 0.4                                                 | 3.0    | 3.0  | 1.3  | 0.7   | 0.0  | 8.3   | 3.9        |
| WSW       | 0.3                                                 | 3.9    | 4.0  | 1.0  | 0.3   | 0.1  | 9.6   | 3.5        |
| W         | 0.4                                                 | 3.3    | 6.4  | 2.1  | 0.4   | 0.0  | 12.5  | 3.9        |
| WNW       | 0.2                                                 | 2.6    | 5.1  | 1.5  | 0.1   | 0.0  | 9.6   | 3.8        |
| NW        | 0.4                                                 | 1.7    | 1.2  | 0.4  | 0.0   | 0.0  | 3.7   | 3.1        |
| NNW       | 0.2                                                 | 1.5    | 0.2  | 0.0  | 0.0   | 0.0  | 2.0   | 2.4        |
| All       | 5.3                                                 | 45.8   | 38.6 | 8.0  | 2.0   | 0.2  | 100.0 | 3.2        |



## **3.2 Meteorological and Upper-Air Data Discussion**

The meteorological data collected at the Resolution Copper Project met all data recovery objectives for the second quarter of 2017 except for the West Plant and Hewitt Station monitoring sites.

The West Plant site did not meet the minimum quarterly data recovery requirements due to the datalogger's internal memory being inadvertently erased, which resulted in an irreversible loss of data.

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 second 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. The 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 the second quarter of 2017. Because the 20-meter wind data were flagged, the SoDAR's 20-meter wind data and the tower's 10-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 10-meter anemometer data, with a few outliers.

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

Figure 6. Wind Speed Comparison  
April 1-June 30, 2017

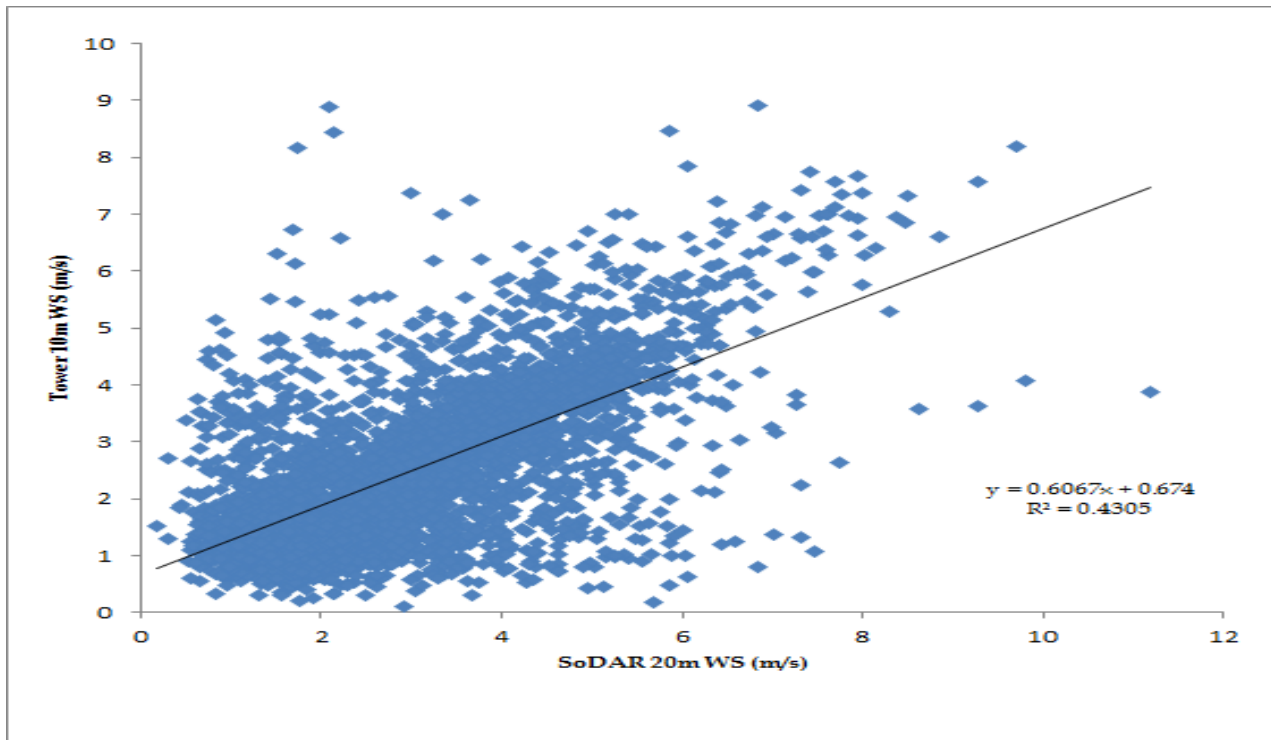


Figure 7. Zonal Component (u) Comparison  
April 1-June 30, 2017

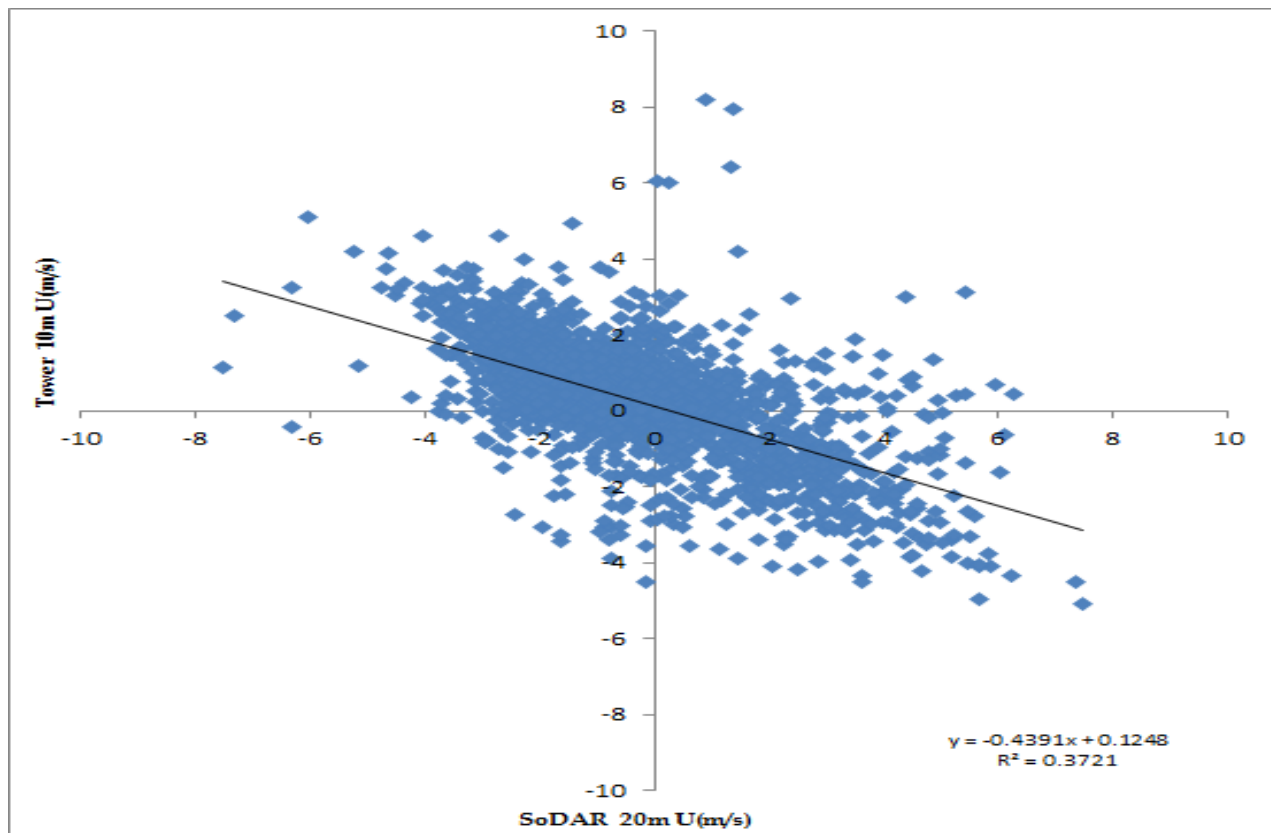
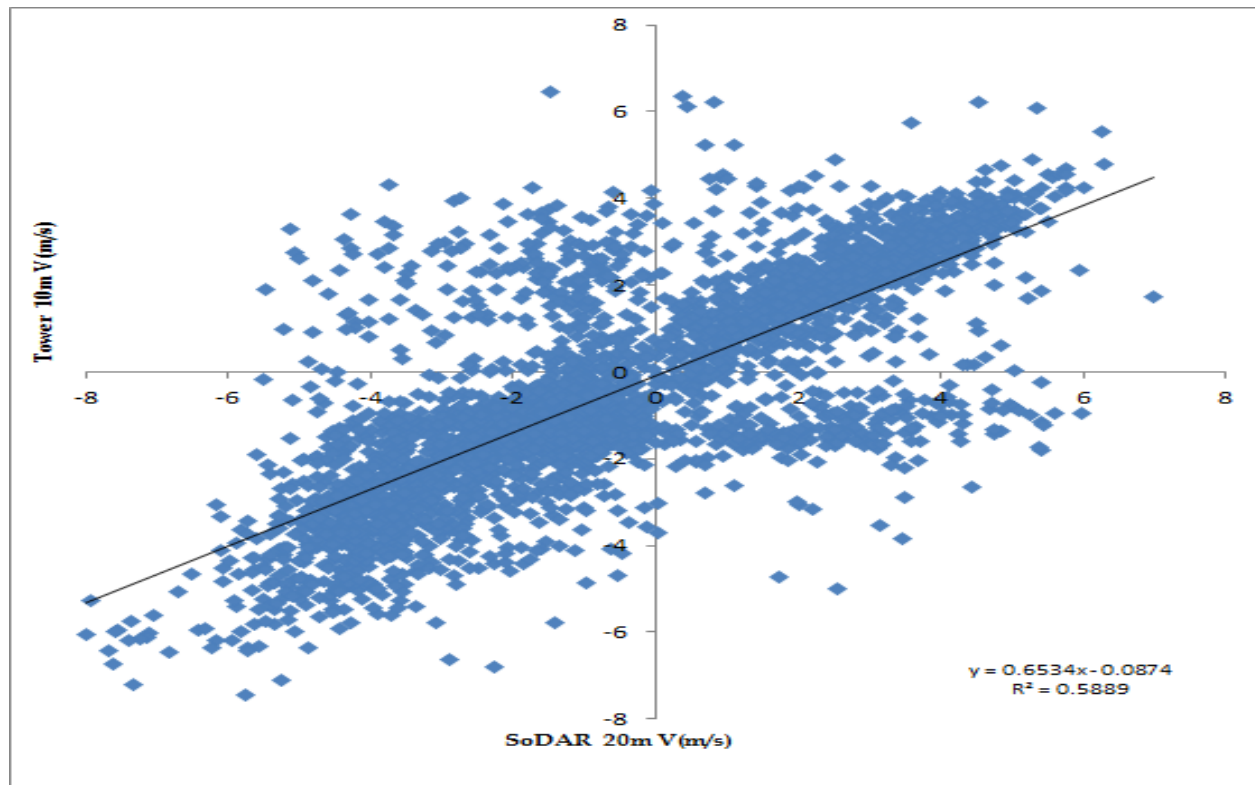


Figure 8. Meridional Component (v) Comparison  
April 1-June 30, 2017

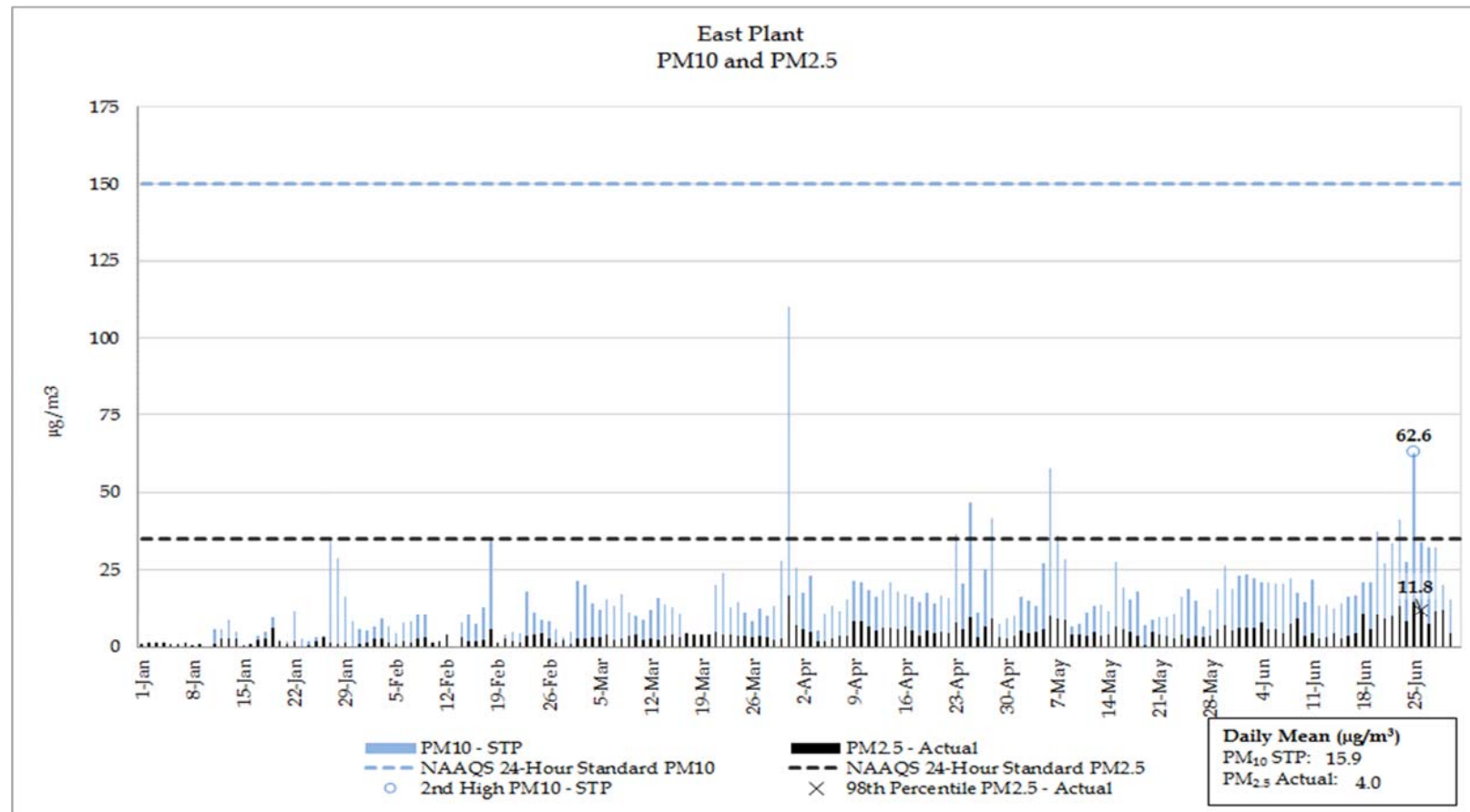


## 4.0 PM DATA SUMMARY AND DISCUSSION

### 4.1 East Plant PM Data Summary

Figure 9 presents the PM<sub>10</sub> and PM<sub>2.5</sub> data collected at the East Plant site for the first two quarters of 2017, and compares the data to the PM<sub>10</sub> and PM<sub>2.5</sub> National Ambient Air Quality Standards (NAAQS<sup>2</sup>). The second-high 24-hour average for PM<sub>10</sub> (62.6 µg/m<sup>3</sup>) and the 98th percentile for PM<sub>2.5</sub> (11.8 µg/m<sup>3</sup>) are labeled. The daily mean value for PM<sub>10</sub> Standard Temperature Pressure (STP) was 15.9 micrograms per cubic meter (µg/m<sup>3</sup>), and the daily mean value for PM<sub>2.5</sub> Actual was 4.0 µg/m<sup>3</sup>.

**Figure 9. East Plant Particulate Data, First and Second Quarters of 2017**

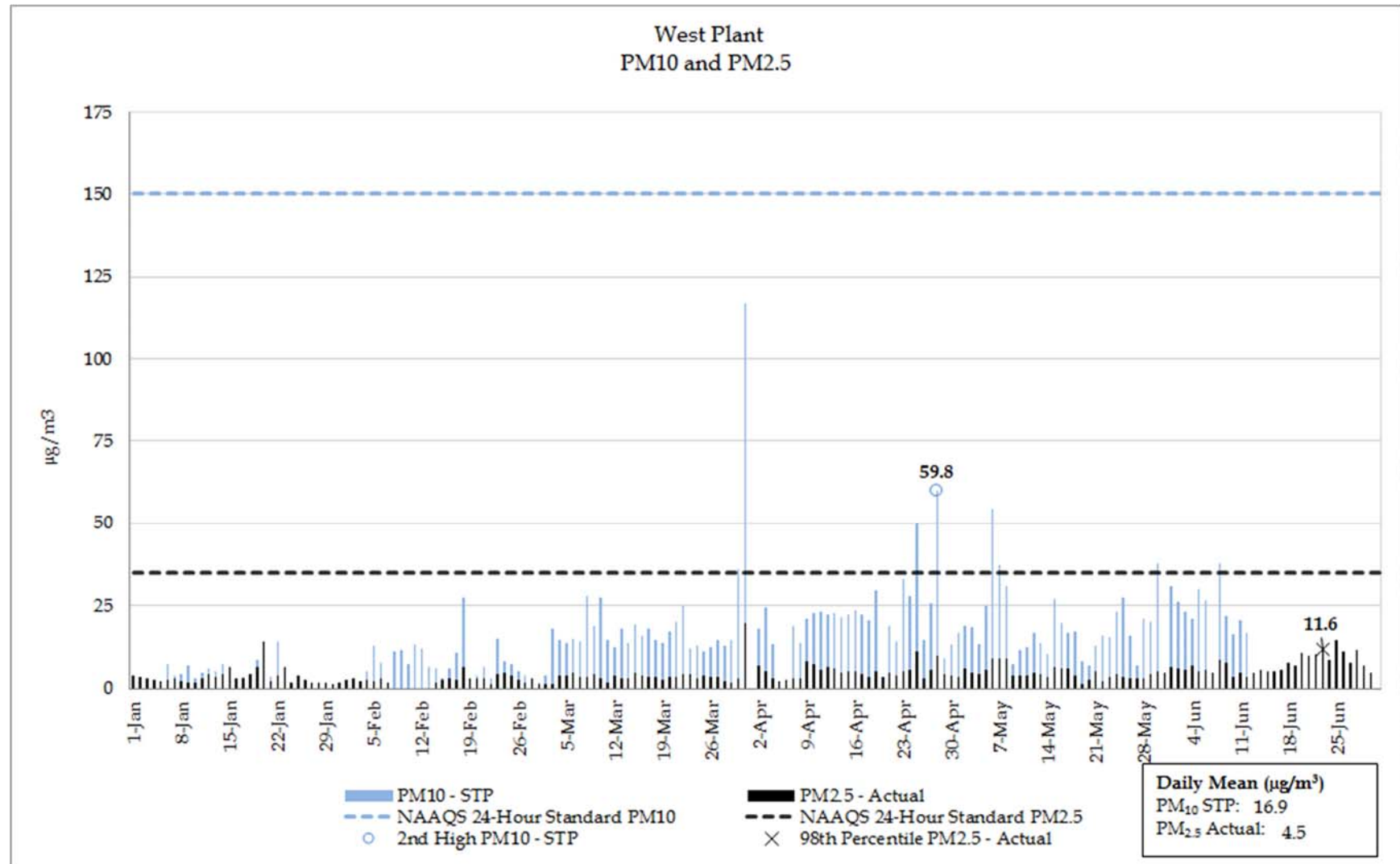


<sup>2</sup> See Section 4.4 for specific details about PM<sub>10</sub> and PM<sub>2.5</sub> NAAQS.

## 4.2 West Plant PM Data Summary

Figure 10 presents the PM<sub>10</sub> and PM<sub>2.5</sub> data collected at the West Plant site for the first two quarters of 2017, and compares the data to the PM<sub>10</sub> and PM<sub>2.5</sub> NAAQS. The second-high 24-hour average for PM<sub>10</sub> (59.8 µg/m<sup>3</sup>) and the 98th percentile for PM<sub>2.5</sub> (11.6 µg/m<sup>3</sup>) are labeled. The daily mean value for PM<sub>10</sub> STP was 16.9 µg/m<sup>3</sup>, and the daily mean value for PM<sub>2.5</sub> Actual was 4.5 µg/m<sup>3</sup>.

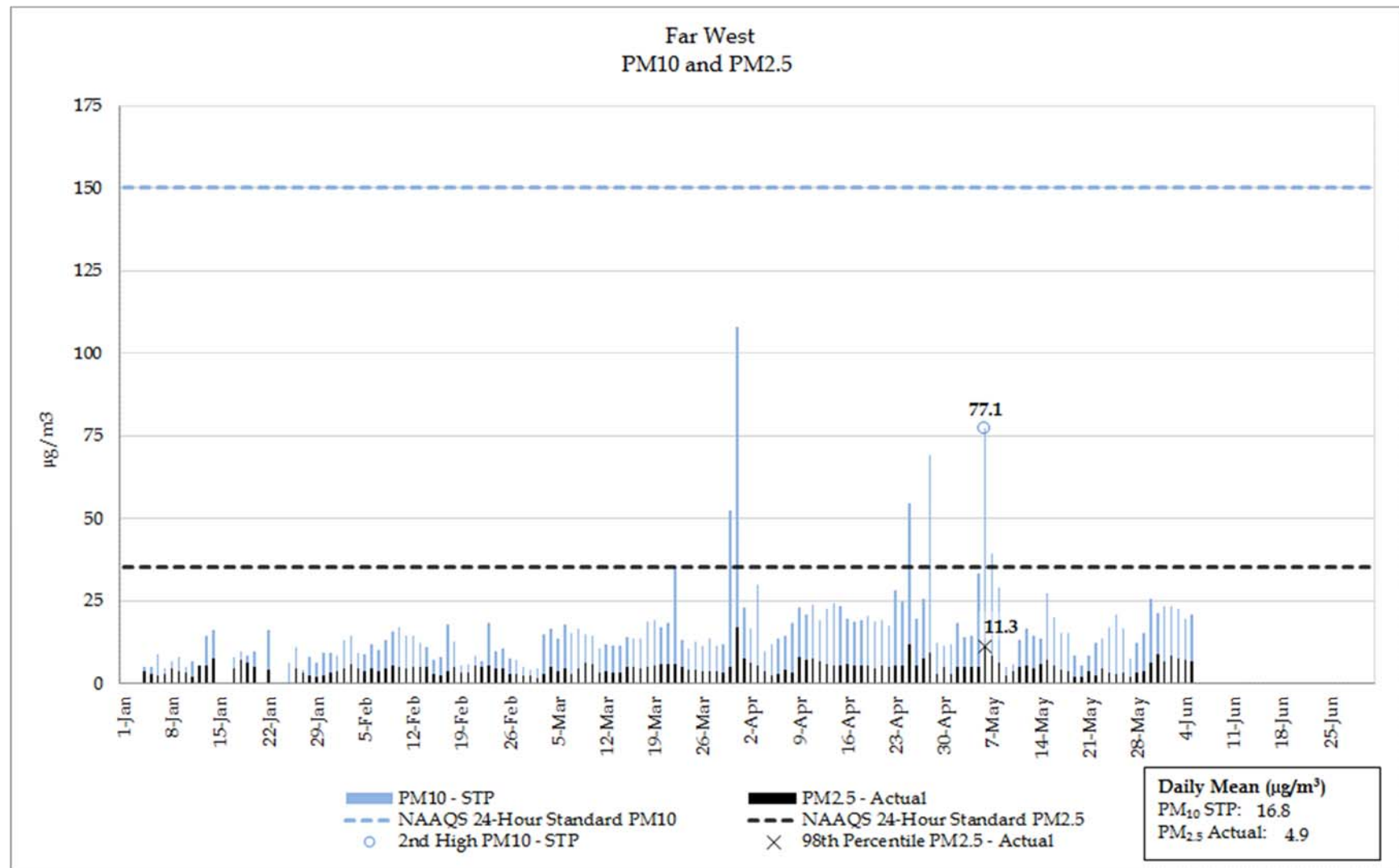
Figure 10. West Plant Particulate Data, First and Second Quarters of 2017



### 4.3 Far West PM Data Summary

Figure 11 presents the PM<sub>10</sub> and PM<sub>2.5</sub> data collected at the Far West site for the first two quarters of 2017, and compares the data to the PM<sub>10</sub> and PM<sub>2.5</sub> NAAQS. The second-high 24-hour average for PM<sub>10</sub> (77.1 µg/m<sup>3</sup>) and the 98th percentile for PM<sub>2.5</sub> (11.3 µg/m<sup>3</sup>) are labeled. The daily mean value for PM<sub>10</sub> STP was 16.8 µg/m<sup>3</sup>, and the daily mean value for PM<sub>2.5</sub> Actual was 4.9 µg/m<sup>3</sup>.

Figure 11. Far West Particulate Data, First and Second Quarters of 2017



## **4.4 PM Data Discussion**

### **4.4.1 PM<sub>10</sub>**

The NAAQS for PM<sub>10</sub> is 150 µg/m<sup>3</sup> 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<sup>3</sup> is equal to or less than one (second-high value).

As shown in Figure 9, Figure 10, and Figure 11, the second-high PM<sub>10</sub> concentrations recorded at the East Plant, West Plant, and Far West sites are 62.6 µg/m<sup>3</sup>, 59.8 µg/m<sup>3</sup>, and 77.1 µg/m<sup>3</sup>, respectively. The second-high PM<sub>10</sub> values at the East Plant, West Plant, and Far West sites are all below the NAAQS of 150 µg/m<sup>3</sup>.

The West Plant PM<sub>10</sub> data failed to meet the minimum data recovery requirements for the second quarter of 2017 due to multiple instrumentation errors.

The Far West PM<sub>10</sub> data failed to meet the minimum data recovery requirements for the second quarter of 2017 due to power outages.

### **4.4.2 PM<sub>2.5</sub>**

The annual primary and secondary PM<sub>2.5</sub> standards are met when the annual arithmetic mean concentration is less than or equal to 12.0 µg/m<sup>3</sup>. The 24-hour primary and secondary PM<sub>2.5</sub> standards are met when the 98th percentile 24-hour concentration is less than or equal to 35 µg/m<sup>3</sup>.

The PM<sub>2.5</sub> arithmetic mean concentrations for the East Plant, West Plant, and Far West sites are 4.0 µg/m<sup>3</sup>, 4.5 µg/m<sup>3</sup>, and 4.9 µg/m<sup>3</sup>, respectively. The PM<sub>2.5</sub> arithmetic mean values at the East Plant, West Plant, and Far West sites are below the NAAQS of 12 µg/m<sup>3</sup>.

Figure 9, Figure 10, and Figure 11 also show the 98th percentile PM<sub>2.5</sub> concentrations at the East Plant, West Plant, and Far West sites, which were 11.8 µg/m<sup>3</sup>, 11.6 µg/m<sup>3</sup>, and 11.3 µg/m<sup>3</sup>, respectively. The 98th percentiles of the East Plant, West Plant, and Far West sites' 24-hour PM<sub>2.5</sub> concentrations are also below the NAAQS of 35 µg/m<sup>3</sup>.

The Far West PM<sub>2.5</sub> data failed to meet the minimum data recovery requirements for the second quarter of 2017 due to power outages.

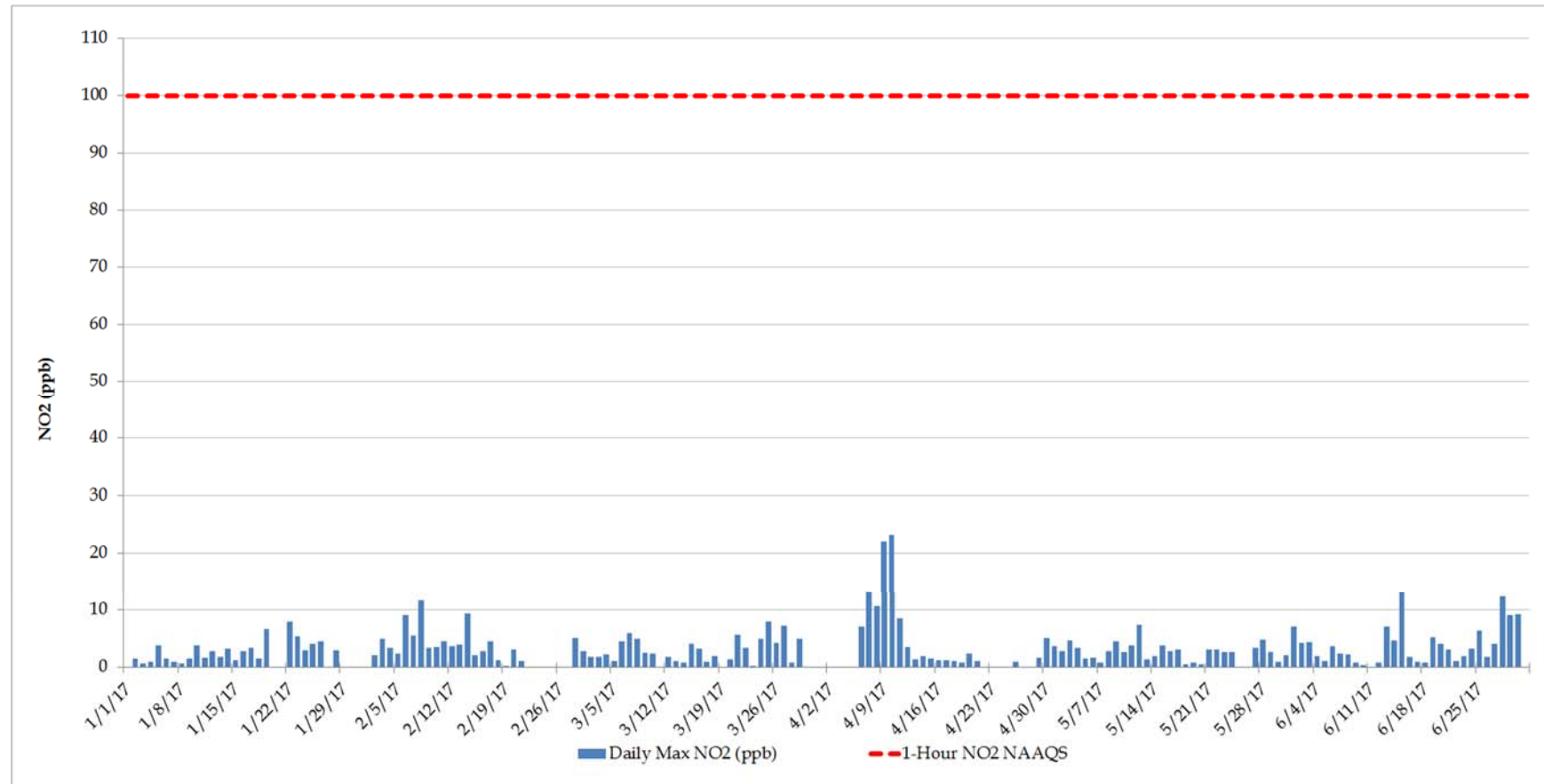


## 5.0 NO<sub>2</sub> DATA SUMMARY AND DISCUSSION

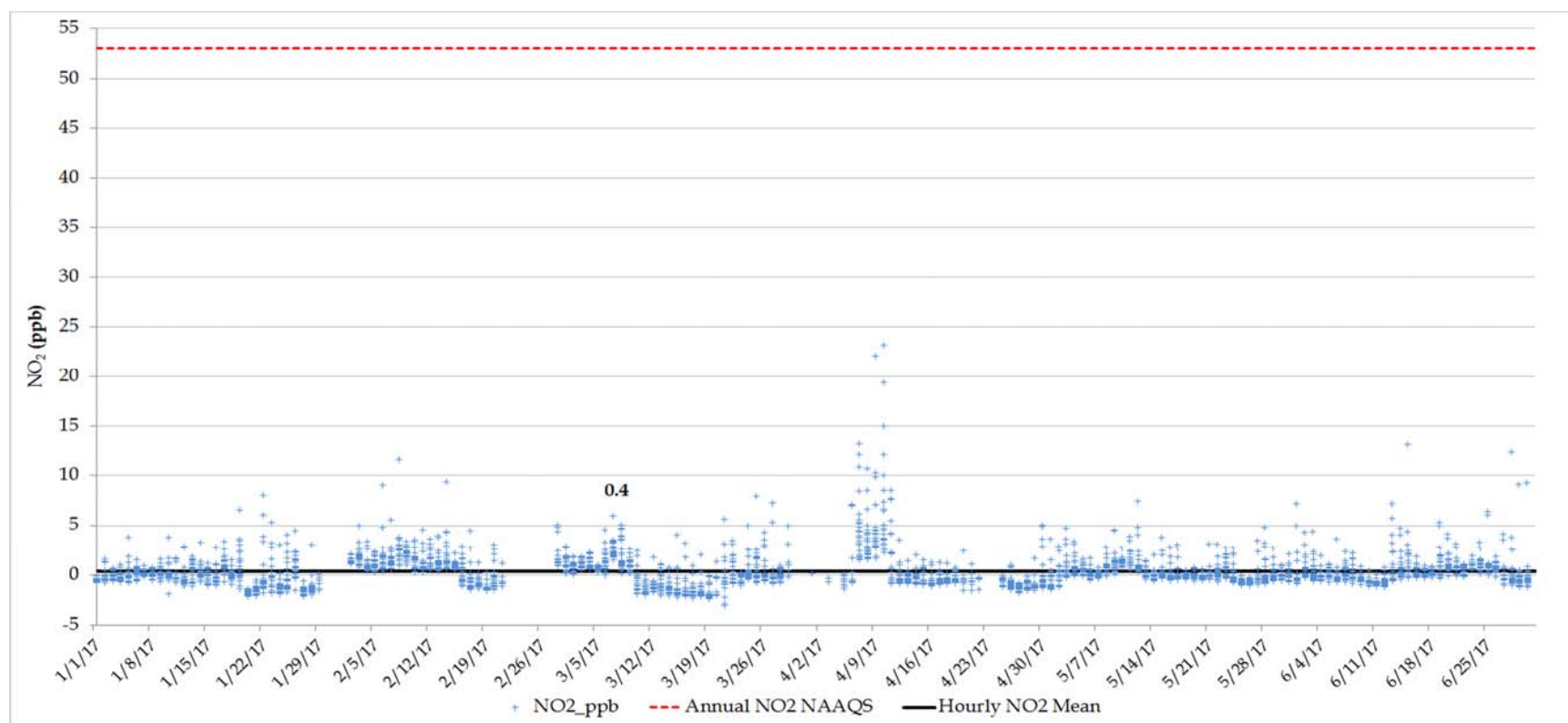
### 5.1 NO<sub>2</sub> Data Summary

Figure 12 and Figure 13 present the NO<sub>2</sub> hourly concentrations for each calendar day at the East Plant site for the first two quarters of 2017. Figure 12 shows the daily maximum hourly NO<sub>2</sub> concentrations compared to the one-hour NO<sub>2</sub> NAAQS (100 ppb). Figure 13 shows the mean hourly NO<sub>2</sub> concentrations compared with the annual NO<sub>2</sub> NAAQS (53 ppb).

**Figure 12. NO<sub>2</sub> Maximum Hourly Concentration for Each Calendar Day, First and Second Quarters of 2017**



**Figure 13. NO<sub>2</sub> Mean Hourly Concentrations, First and Second Quarters of 2017**



## 5.2 NO<sub>2</sub> Data Discussion

The level of the 1-hour NAAQS for oxides of nitrogen is 100 ppb, measured in the ambient air as NO<sub>2</sub>. 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<sub>2</sub>. The annual NAAQS is met when the annual average concentration in a calendar year is less than or equal to 53 ppb.

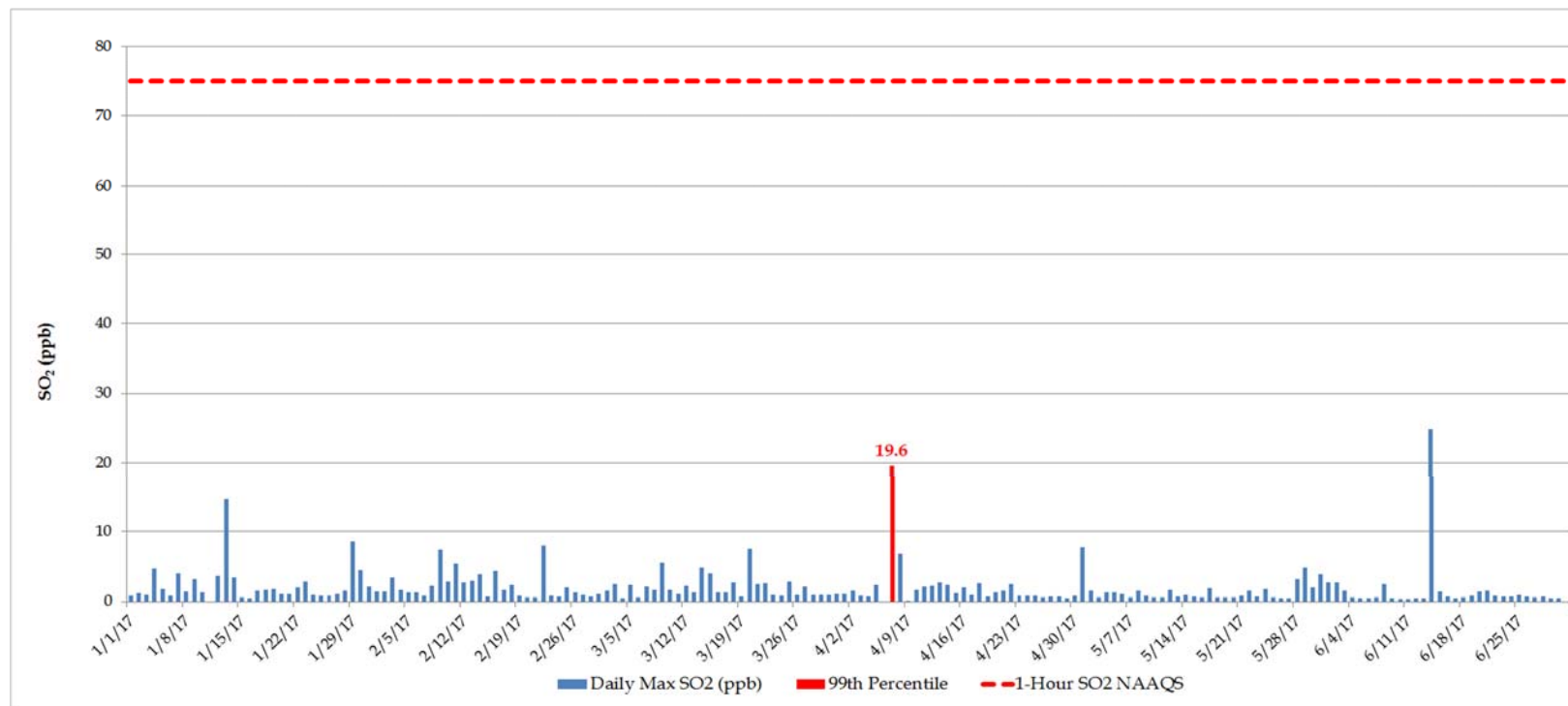
As shown in Figure 12, the 1-hour average NO<sub>2</sub> concentrations for the first two quarters of 2017 is less than the NAAQS 1-hour primary standard of 100. As shown in Figure 13, hourly NO<sub>2</sub> average is 0.4 ppb for the first two quarters of 2017, which is below the annual NO<sub>2</sub> NAAQS of 53 ppb. Slightly negative concentrations are typical when the analyzer is operating near the zero-calibration set-point.

## 6.0 SO<sub>2</sub> DATA SUMMARY AND DISCUSSION

### 6.1 SO<sub>2</sub> Data Summary

Figure 14 presents the maximum hourly SO<sub>2</sub> concentrations for each calendar day collected at the East Plant site for the first two quarters of 2017, and it shows the 99<sup>th</sup> percentile (19.6 ppb) compared to the one-hour SO<sub>2</sub> NAAQS (75 ppb).

**Figure 14. SO<sub>2</sub> Maximum Hourly Concentration for Each Calendar Day, First and Second Quarters of 2017**



### 6.2 SO<sub>2</sub> 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<sub>2</sub>). The 1-hour primary standard is met at an ambient air quality monitoring site when the three-year average of the annual (99<sup>th</sup> percentile) daily maximum 1-hour average concentration is less than or equal to 75 ppb.

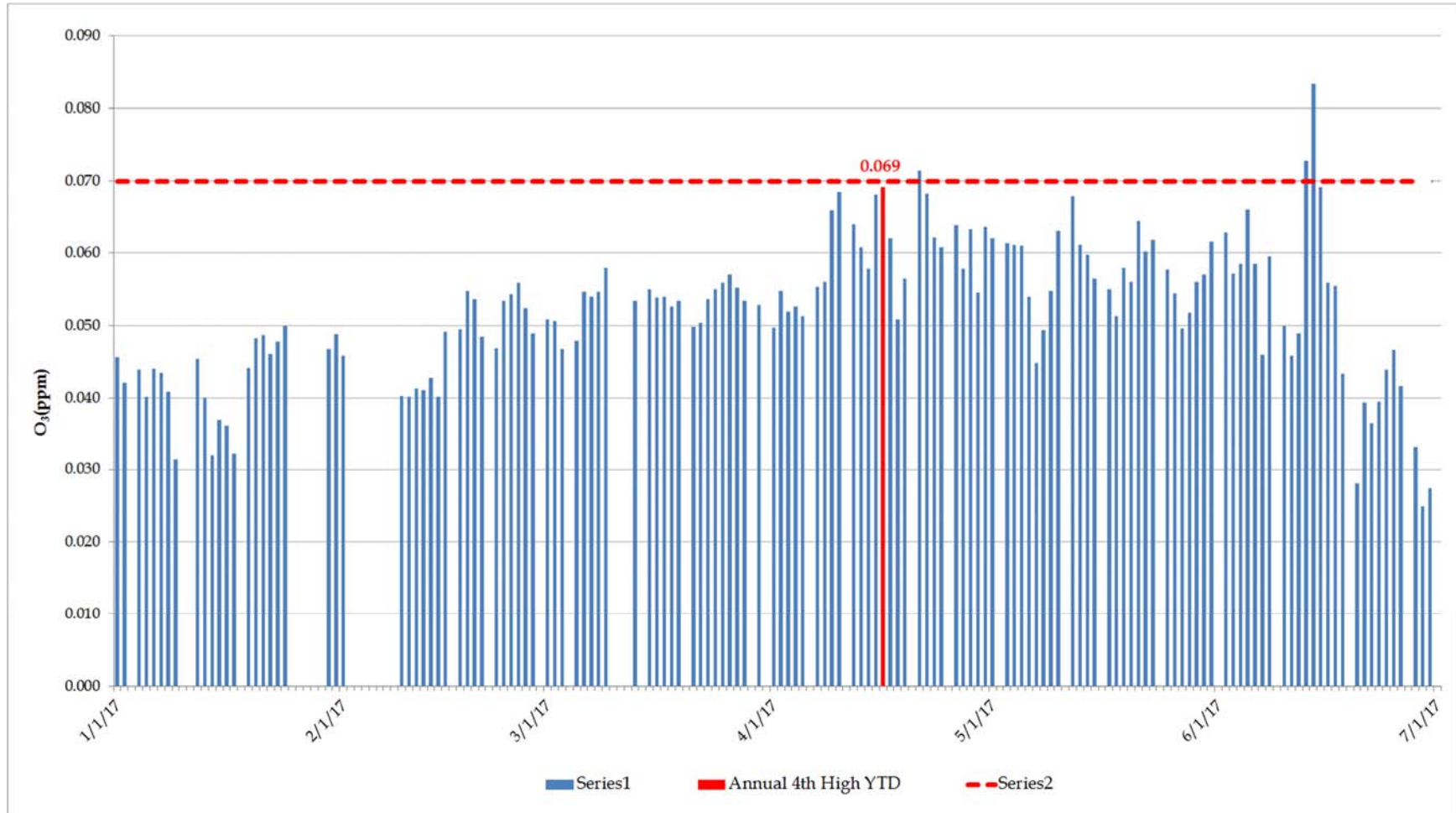
As shown in Figure 14, the 99<sup>th</sup> percentile 1-hour maximum concentration for the first two quarters of 2017 is 19.6 ppb, which is below the 1-hour SO<sub>2</sub> NAAQS of 75 ppb.

## 7.0 O<sub>3</sub> DATA SUMMARY AND DISCUSSION

### 7.1 O<sub>3</sub> Data Summary

Figure 15 presents the daily rolling 8-hour maximum O<sub>3</sub> data collected at the East Plant site for the first two quarters of 2017, and it shows the fourth-highest rolling 8-hour average (0.069 parts per million [ppm]) compared to the eight-hour O<sub>3</sub> NAAQS (0.070 ppm).

**Figure 15. O<sub>3</sub> Daily Rolling 8-Hour Maximum, First and Second Quarters of 2017**



## 7.2 O<sub>3</sub> Data Discussion

The level of the primary and secondary 8-hour NAAQS for O<sub>3</sub> was changed from 0.075 ppm to 0.070 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<sub>3</sub> concentration is less than or equal to 0.070 ppm.

Figure 15 shows that the averaged fourth-high maximum recorded at the East Plant is 0.069 ppm. This concentration is below the NAAQS 8-hour O<sub>3</sub> 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<sub>3</sub> by the Arizona Department of Environmental Quality (ADEQ).

## **Appendix A – Meteorological Data: Hourly**

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**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Apr 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           | 648 | 648 | 648 | 648 | 648 | 649 | 649 | 650 | 650 | 650 | 651 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 650 | 652 | 648 |
| 2           | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 651 |
| 3           | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 650 | 650 | 649 | 648 | 647 | 647 | 647 | 647 | 647 | 648 | 648 | 649 | 649 | 649 | 651 | 647 |
| 4           | 649 | 649 | 649 | 649 | 650 | 650 | 651 | 652 | 652 | 652 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 652 | 654 | 649 |
| 5           | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 656 | 656 | 656 | 656 | 655 | 655 | 655 | 654 | 654 | 654 | 654 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 656 | 653 |
| 6           | 654 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 654 | 652 |
| 7           | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 656 | 653 |
| 8           | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 650 | 650 | 650 | 649 | 649 | 650 | 650 | 650 | 650 | 651 | 653 | 649 |
| 9           | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 652 | 652 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 652 | 652 | 652 | 653 | 652 | 653 | 651 | 653 | 650 |
| 10          | 653 | 653 | 653 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 654 | 652 |
| 11          | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 652 |
| 12          | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 654 | 652 |
| 13          | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 650 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 650 |
| 14          | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 650 |
| 15          | 652 | 652 | 652 | 652 | 651 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 652 | 653 | 652 | 653 | 651 |
| 16          | 653 | 652 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 652 |
| 17          | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 655 | 655 | 655 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 653 | 653 | 654 | 655 | 653 |
| 18          | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 655 | 655 | 655 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 655 | 653 |
| 19          | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 655 | 655 | 655 | 655 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 655 | 653 |
| 20          | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 652 | 653 | 654 | 652 |
| 21          | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 651 | 652 | 652 | 653 | 651 |
| 22          | 652 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 653 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 653 | 651 |
| 23          | 652 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 650 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 650 | 652 | 649 |
| 24          | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 650 | 649 | 649 | 648 | 648 | 648 | 647 | 647 | 647 | 647 | 647 | 647 | 647 | 648 | 650 | 647 |
| 25          | 646 | 646 | 646 | 646 | 645 | 645 | 646 | 647 | 647 | 647 | 647 | 647 | 647 | 647 | 647 | 646 | 646 | 646 | 646 | 647 | 648 | 648 | 649 | 649 | 647 | 649 | 645 |
| 26          | 649 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 651 | 650 | 650 | 650 | 650 | 649 | 649 | 649 | 648 | 649 | 649 | 649 | 648 | 648 | 649 | 651 | 648 |
| 27          | 648 | 648 | 648 | 647 | 647 | 647 | 647 | 648 | 648 | 648 | 648 | 648 | 647 | 647 | 646 | 646 | 646 | 646 | 646 | 646 | 646 | 646 | 646 | 646 | 647 | 648 | 646 |
| 28          | 646 | 646 | 646 | 645 | 646 | 645 | 646 | 646 | 646 | 646 | 646 | 646 | 645 | 645 | 645 | 644 | 644 | 644 | 644 | 645 | 646 | 647 | 647 | 647 | 646 | 647 | 644 |
| 29          | 647 | 647 | 648 | 648 | 648 | 649 | 649 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 653 | 653 | 654 | 650 | 654 | 647 |
| 30          | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 655 | 655 | 655 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 655 | 653 |
| Avg         | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | --  | --  |
| Max         | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 656 | 656 | 656 | 656 | 655 | 655 | 655 | 654 | 654 | 654 | 654 | 653 | 654 | 654 | 654 | 654 | 654 | --  | 656 | --  |
| Min         | 646 | 646 | 646 | 645 | 645 | 645 | 646 | 646 | 646 | 646 | 646 | 646 | 645 | 645 | 645 | 644 | 644 | 644 | 644 | 645 | 646 | 646 | 646 | 646 | --  | --  | 644 |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: May 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 | 653 | 653 | 654 | 654 | 654 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 654 | 651 |
| 2   | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 653 | 651 |
| 3   | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 654 | 652 |
| 4   | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 655 | 654 | 654 | 654 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 655 | 652 |
| 5   | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 650 | 650 | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 652 | 649 |
| 6   | 650 | 650 | 650 | 650 | 650 | 649 | 650 | 650 | 650 | 650 | 650 | 649 | 649 | 648 | 647 | 647 | 646 | 646 | 646 | 647 | 648 | 648 | 648 | 649 | 649 | 649 | 650 | 646 |
| 7   | 649 | 649 | 648 | 648 | 648 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 648 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 650 | 649 | 650 | 648 |     |
| 8   | 649 | 649 | 649 | 648 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 648 | 648 | 647 | 647 | 648 | 647 | 647 | 648 | 649 | 649 | 649 | 650 | 649 | 650 | 647 |     |
| 9   | 649 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 650 | 652 | 649 |     |
| 10  | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 655 | 655 | 655 | 653 | 655 | 652 |     |
| 11  | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 656 | 656 | 655 | 655 | 655 | 655 | 654 | 654 | 654 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 655 | 656 | 653 |     |
| 12  | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 652 | 654 | 650 |     |
| 13  | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 650 | 650 | 650 | 649 | 649 | 649 | 648 | 648 | 649 | 649 | 650 | 650 | 650 | 650 | 651 | 648 |     |
| 14  | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 650 | 650 | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 650 | 651 | 649 |     |
| 15  | 650 | 650 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | 649 | 649 | 649 | 649 | 648 | 648 | 648 | 648 | 649 | 649 | 649 | 650 | 650 | 649 | 649 | 650 | 648 |     |
| 16  | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 650 | 651 | 649 |     |
| 17  | 651 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 649 | 649 | 648 | 648 | 647 | 647 | 647 | 647 | 647 | 648 | 648 | 648 | 649 | 651 | 647 |     |
| 18  | 648 | 648 | 648 | 649 | 648 | 648 | 649 | 649 | 650 | 650 | 650 | 649 | 649 | 649 | 649 | 649 | 648 | 648 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 648 |     |
| 19  | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 651 | 652 | 649 |     |
| 20  | 652 | 652 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 652 | 652 | 651 | 650 |     |
| 21  | 652 | 651 | 651 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 652 | 653 | 651 |     |
| 22  | 653 | 653 | 653 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 654 | 652 |     |
| 23  | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 653 | 654 | 651 |     |
| 24  | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 651 | 651 | 651 | 650 | 650 | 649 | 648 | 648 | 648 | 647 | 648 | 648 | 648 | 648 | 650 | 652 | 647 |     |
| 25  | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 649 | 649 | 649 | 649 | 649 | 649 | 649 | 648 | 648 | 648 | 648 | 649 | 649 | 650 | 650 | 650 | 649 | 650 | 648 |     |
| 26  | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 653 | 651 | 653 | 650 |     |
| 27  | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 652 |     |
| 28  | 653 | 653 | 653 | 653 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 654 | 652 |     |
| 29  | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 653 | 650 |     |
| 30  | 652 | 652 | 651 | 651 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 651 |     |
| 31  | 652 | 652 | 652 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 650 | 650 | 650 | 649 | 649 | 649 | 649 | 650 | 651 | 651 | 651 | 651 | 651 | 649 |     |
| Avg | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | --  |     |
| Max | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 656 | 656 | 655 | 655 | 655 | 655 | 654 | 654 | 654 | 654 | 654 | 654 | 654 | 655 | 655 | 655 | 655 | 656 | --  |     |
| Min | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 648 | 649 | 649 | 649 | 649 | 648 | 648 | 647 | 647 | 646 | 646 | 646 | 646 | 647 | 648 | 648 | 648 | 648 | --  | 646 |     |



**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Jun 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           | 651 | 651 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 650 | 650 | 649 | 649 | 649 | 650 | 650 | 650 | 651 | 651 | 650 | 651 | 649 |  |
| 2           | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 652 | 651 | 651 | 652 | 650 |  |
| 3           | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 651 | 651 | 652 | 653 | 651 |  |
| 4           | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 651 |  |
| 5           | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 651 |  |
| 6           | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 652 |  |
| 7           | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 653 | 652 |  |
| 8           | 654 | 654 | 653 | 653 | 653 | 654 | 654 | 654 | 655 | 655 | 655 | 655 | 654 | 654 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 652 |  |
| 9           | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 653 | 650 |  |
| 10          | 651 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 650 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 651 | 649 |  |
| 11          | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 650 | 651 | 650 |  |
| 12          | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 651 |  |
| 13          | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 651 |  |
| 14          | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 651 |  |
| 15          | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 653 | 653 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 652 |  |
| 16          | 653 | 653 | 652 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 652 |  |
| 17          | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 651 |  |
| 18          | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 650 |  |
| 19          | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 653 | 652 | 651 |  |
| 20          | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 651 |  |
| 21          | 652 | 652 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 650 | 650 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | 650 | 650 | 651 | 649 |  |
| 22          | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 652 | 651 | 652 | 650 |  |
| 23          | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 653 | 651 |  |
| 24          | 652 | 652 | 652 | 651 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 653 | 653 | 652 | 653 | 651 |  |
| 25          | 653 | 653 | 653 | 654 | 654 | 654 | 655 | 655 | 655 | 655 | 655 | 655 | 655 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 655 | 653 |  |
| 26          | 654 | 654 | 655 | 655 | 655 | 656 | 656 | 656 | 656 | 656 | 656 | 655 | 655 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 656 | 653 |  |
| 27          | 653 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | 654 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 653 | 654 | 651 |  |
| 28          | 652 | 652 | 651 | 651 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 653 | 651 |  |
| 29          | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 654 | 654 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 654 | 652 |  |
| 30          | 653 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | 651 |  |
| Avg         | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 653 | 653 | 653 | 653 | 653 | 653 | 652 | 652 | 651 | 651 | 651 | 651 | 651 | 651 | 652 | 652 | 652 | 652 | 652 | --  |  |
| Max         | 654 | 654 | 655 | 655 | 655 | 656 | 656 | 656 | 656 | 656 | 656 | 655 | 655 | 654 | 654 | 653 | 653 | 653 | 653 | 653 | 654 | 654 | 654 | 654 | 654 | --  | 656 |  |
| Min         | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 651 | 651 | 651 | 651 | 651 | 651 | 650 | 650 | 650 | 649 | 649 | 649 | 649 | 649 | 650 | 650 | 650 | --  | --  | 649 |  |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: Apr 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   | 0.57 | 0.41 | 0.54 | 0.49 | 0.43 | 0.42 | 0.25  | -0.43 | -1.01 | -1.43 | -1.65 | -1.50 | -0.89 | -0.69 | -0.92 | -0.79 | -1.03 | -0.69 | 0.21  | 0.30 | 0.33 | 0.49 | 0.38 | 0.83 | -0.23 | 0.83 | -1.65 |
| 2   | 0.84 | 0.77 | 1.24 | 0.91 | 0.92 | 0.95 | 0.60  | -0.17 | -0.69 | -0.51 | -0.76 | -0.93 | -1.09 | -1.14 | -0.99 | -0.94 | -0.72 | -0.37 | 0.00  | 0.13 | 0.29 | 0.22 | 0.22 | 0.18 | -0.04 | 1.24 | -1.14 |
| 3   | 0.27 | 0.31 | 0.49 | 0.69 | 0.67 | 0.82 | 0.52  | -0.56 | -0.80 | -0.72 | -0.84 | -1.06 | -1.30 | -1.19 | -1.04 | -0.86 | -0.53 | -0.32 | 0.01  | 0.00 | 0.00 | 0.07 | 0.16 | 0.21 | -0.21 | 0.82 | -1.30 |
| 4   | 0.16 | 0.13 | 0.18 | 0.19 | 0.20 | 0.25 | 0.45  | -0.20 | -0.34 | -0.52 | -0.83 | -1.21 | -1.27 | -0.95 | -0.73 | -0.54 | -0.48 | -0.44 | -0.01 | 0.16 | 0.36 | 0.53 | 0.32 | 0.55 | -0.17 | 0.55 | -1.27 |
| 5   | 0.58 | 0.52 | 0.39 | 0.38 | 0.31 | 0.27 | 0.11  | -0.35 | -0.78 | -1.16 | -1.47 | -1.72 | -1.87 | -1.73 | -1.40 | -1.00 | -1.03 | -0.61 | 0.35  | 0.49 | 0.65 | 0.77 | 0.70 | 0.78 | -0.29 | 0.78 | -1.87 |
| 6   | 0.90 | 0.61 | 0.56 | 0.48 | 0.42 | 0.48 | 0.25  | -0.32 | -0.81 | -1.15 | -1.80 | -1.68 | -1.46 | -1.55 | -1.46 | -1.18 | -0.85 | -0.38 | 0.07  | 0.18 | 0.74 | 0.59 | 1.12 | 1.28 | -0.21 | 1.28 | -1.80 |
| 7   | 0.78 | 0.78 | 0.90 | 0.81 | 1.07 | 1.01 | 0.72  | 0.07  | -0.72 | -0.83 | -0.84 | -0.95 | -1.31 | -1.21 | -0.95 | -0.67 | -0.46 | -0.25 | 0.10  | 0.55 | 0.53 | 0.77 | 0.97 | 1.03 | 0.08  | 1.07 | -1.31 |
| 8   | 0.92 | 0.80 | 0.57 | 1.15 | 1.03 | 1.10 | 0.67  | 0.28  | -0.59 | -0.63 | -0.89 | -0.80 | -1.01 | -1.17 | -1.14 | -0.69 | -0.73 | -0.35 | 0.00  | 0.22 | 0.17 | 0.17 | 0.19 | 0.11 | -0.03 | 1.15 | -1.17 |
| 9   | 0.06 | 0.09 | 0.14 | 0.23 | 0.23 | 0.22 | 0.36  | -0.43 | -0.68 | -0.66 | -0.94 | -1.14 | -1.01 | -1.21 | -1.13 | -0.78 | -0.67 | -0.35 | -0.04 | 0.12 | 0.19 | 0.21 | 0.56 | 0.57 | -0.25 | 0.57 | -1.21 |
| 10  | 0.62 | 0.79 | 0.74 | 0.74 | 0.90 | 0.95 | 0.46  | -0.47 | -0.88 | -1.26 | -1.25 | -1.55 | -1.66 | -1.68 | -1.26 | -1.20 | -0.97 | -0.50 | 0.00  | 0.18 | 0.34 | 0.71 | 0.57 | 0.81 | -0.20 | 0.95 | -1.68 |
| 11  | 1.24 | 0.85 | 0.90 | 0.68 | 1.28 | 0.62 | 0.47  | -0.26 | -0.61 | -0.95 | -1.05 | -1.45 | -1.34 | -1.14 | -1.04 | -0.98 | -0.73 | -0.24 | 0.05  | 0.15 | 0.21 | 0.65 | 0.63 | 1.08 | -0.04 | 1.28 | -1.45 |
| 12  | 1.35 | 1.41 | 1.85 | 0.99 | 0.89 | 1.36 | 0.62  | -0.10 | -0.50 | -0.49 | -0.98 | -1.10 | -1.29 | -1.18 | -1.27 | -1.15 | -0.82 | -0.48 | -0.02 | 0.13 | 0.28 | 0.87 | 1.16 | 0.82 | 0.10  | 1.85 | -1.29 |
| 13  | 1.09 | 0.80 | 0.69 | 1.24 | 1.27 | 0.79 | 1.18  | 0.38  | -0.48 | -1.11 | -1.21 | -1.38 | -1.28 | -1.07 | -0.90 | -0.62 | -0.65 | -0.44 | 0.09  | 0.25 | 0.26 | 0.22 | 0.21 | 0.21 | -0.02 | 1.27 | -1.38 |
| 14  | 0.34 | 0.53 | 1.14 | 1.18 | 1.02 | 0.98 | 0.68  | -0.30 | -0.74 | -0.96 | -1.24 | -1.01 | -1.39 | -1.32 | -1.25 | -1.08 | -0.81 | -0.38 | 0.03  | 0.19 | 0.26 | 0.35 | 0.42 | 0.65 | -0.11 | 1.18 | -1.39 |
| 15  | 0.50 | 0.76 | 0.71 | 0.86 | 1.06 | 0.66 | 0.54  | -0.49 | -1.00 | -1.23 | -1.32 | -1.46 | -1.43 | -1.45 | -1.35 | -1.19 | -0.99 | -0.57 | 0.00  | 0.17 | 0.27 | 0.55 | 0.31 | 1.27 | -0.20 | 1.27 | -1.46 |
| 16  | 1.24 | 0.78 | 0.95 | 1.01 | 1.16 | 1.11 | 0.76  | -0.38 | -0.80 | -1.00 | -0.86 | -1.04 | -1.47 | -1.35 | -1.15 | -1.20 | -0.82 | -0.36 | 0.01  | 0.28 | 0.85 | 0.91 | 0.27 | 0.31 | -0.03 | 1.24 | -1.47 |
| 17  | 1.29 | 0.93 | 1.47 | 1.06 | 1.04 | 1.10 | 0.64  | -0.33 | -0.80 | -0.71 | -1.05 | -1.00 | -1.28 | -1.47 | -1.19 | -1.09 | -0.80 | -0.36 | -0.04 | 0.23 | 0.38 | 0.92 | 0.94 | 0.56 | 0.02  | 1.47 | -1.47 |
| 18  | 0.80 | 0.84 | 0.83 | 0.73 | 0.88 | 0.98 | 0.53  | -0.46 | -0.85 | -0.82 | -0.89 | -1.17 | -1.24 | -1.32 | -1.21 | -1.21 | -0.84 | -0.44 | 0.01  | 0.19 | 0.26 | 0.20 | 0.35 | 0.29 | -0.15 | 0.98 | -1.32 |
| 19  | 0.25 | 0.27 | 0.38 | 0.30 | 0.73 | 0.58 | 0.31  | -0.53 | -0.71 | -0.83 | -1.17 | -1.38 | -1.22 | -1.36 | -1.39 | -1.06 | -0.95 | -0.53 | 0.00  | 0.20 | 0.62 | 0.96 | 1.39 | 0.72 | -0.18 | 1.39 | -1.39 |
| 20  | 0.67 | 0.85 | 0.77 | 0.91 | 0.70 | 0.86 | 0.52  | -0.21 | -0.49 | -0.77 | -1.04 | -1.25 | -1.35 | -1.47 | -1.21 | -1.12 | -0.91 | -0.48 | -0.05 | 0.17 | 0.34 | 0.26 | 0.29 | 0.29 | -0.16 | 0.91 | -1.47 |
| 21  | 0.22 | 0.47 | 1.01 | 1.21 | 1.09 | 1.05 | 0.37  | -0.42 | -0.90 | -1.58 | -1.31 | -1.17 | -1.39 | -1.40 | -1.22 | -1.07 | -0.79 | -0.51 | -0.04 | 0.13 | 0.19 | 0.18 | 0.11 | 0.12 | -0.24 | 1.21 | -1.58 |
| 22  | 0.66 | 0.72 | 1.02 | 0.87 | 0.72 | 0.79 | 0.46  | -0.46 | -0.93 | -1.56 | -1.32 | -1.30 | -1.30 | -1.24 | -1.39 | -1.24 | -0.90 | -0.57 | -0.06 | 0.15 | 0.63 | 0.82 | 1.07 | 0.86 | -0.15 | 1.07 | -1.56 |
| 23  | 0.65 | 1.32 | 1.31 | 0.96 | 0.41 | 0.33 | -0.05 | -0.62 | -1.04 | -1.29 | -1.34 | -1.64 | -1.76 | -1.62 | -1.50 | -1.27 | -0.66 | -0.22 | 0.04  | 0.11 | 0.22 | 0.31 | 0.30 | 0.36 | -0.28 | 1.32 | -1.76 |
| 24  | 0.40 | 0.42 | 0.55 | 0.45 | 0.52 | 0.78 | 0.66  | -0.14 | -0.56 | -0.81 | -1.00 | -1.08 | -1.06 | -1.02 | -0.69 | -0.57 | -0.36 | -0.26 | -0.01 | 0.13 | 0.14 | 0.10 | 0.12 | 0.11 | -0.13 | 0.78 | -1.08 |
| 25  | 0.04 | 0.03 | 0.03 | 0.04 | 0.08 | 0.09 | -0.05 | -0.45 | -0.62 | -0.87 | -0.99 | -1.01 | -0.79 | -1.12 | -1.11 | -1.11 | -0.76 | -0.36 | -0.07 | 0.07 | 0.09 | 0.12 | 0.13 | 0.21 | -0.35 | 0.21 | -1.12 |
| 26  | 0.14 | 0.30 | 0.53 | 0.76 | 0.78 | 0.68 | 0.49  | -0.50 | -1.16 | -1.42 | -1.01 | -1.52 | -1.38 | -1.48 | -1.11 | -1.04 | -0.76 | -0.36 | -0.05 | 0.10 | 0.20 | 0.10 | 0.34 | 0.42 | -0.29 | 0.78 | -1.52 |
| 27  | 0.25 | 0.16 | 0.18 | 0.26 | 0.24 | 0.31 | 0.21  | -0.16 | -0.59 | -0.88 | -1.20 | -1.18 | -1.19 | -1.29 | -1.02 | -0.61 | -0.35 | -0.21 | -0.04 | 0.06 | 0.22 | 0.20 | 0.22 | 0.24 | -0.26 | 0.31 | -1.29 |
| 28  | 0.18 | 0.12 | 0.10 | 0.09 | 0.05 | 0.13 | 0.00  | -0.23 | -0.40 | -0.23 | -0.30 | -0.23 | -0.32 | -0.66 | -0.85 | -0.76 | -0.54 | -0.32 | -0.07 | 0.03 | 0.03 | 0.09 | 0.14 | 0.12 | -0.16 | 0.18 | -0.85 |
| 29  | 0.25 | 0.32 | 0.52 | 0.44 | 0.34 | 0.36 | -0.18 | -0.73 | -1.25 | -1.37 | -1.23 | -1.25 | -1.45 | -1.16 | -0.75 | -0.60 | -0.79 | -0.46 | 0.00  | 0.09 | 0.18 | 0.29 | 0.61 | 0.79 | -0.29 | 0.79 | -1.45 |
| 30  | 0.97 | 0.89 | 0.54 | 0.71 | 0.63 | 0.76 | 0.02  | -0.62 | -1.25 | -1.81 | -1.25 | -1.55 | -1.27 | -1.42 | -1.32 | -1.37 | -0.98 | -0.62 | -0.09 | 0.10 | 0.15 | 0.24 | 0.17 | 0.18 | -0.34 | 0.97 | -1.81 |
| Avg | 0.61 | 0.60 | 0.71 | 0.69 | 0.70 | 0.69 | 0.42  | -0.32 | -0.77 | -0.98 | -1.10 | -1.22 | -1.27 | -1.27 | -1.13 | -0.97 | -0.76 | -0.42 | 0.01  | 0.17 | 0.31 | 0.43 | 0.48 | 0.53 | -0.16 | --   | --    |
| Max | 1.35 | 1.41 | 1.85 | 1.24 | 1.28 | 1.36 | 1.18  | 0.38  | -0.34 | -0.23 | -0.30 | -0.23 | -0.32 | -0.66 | -0.69 | -0.54 | -0.35 | -0.21 | 0.35  | 0.55 | 0.85 | 0.96 | 1.39 | 1.28 | --    | 1.85 | --    |
| Min | 0.04 | 0.03 | 0.03 | 0.04 | 0.05 | 0.09 | -0.18 | -0.73 | -1.25 | -1.81 | -1.80 | -1.72 | -1.87 | -1.73 | -1.50 | -1.37 | -1.03 | -0.69 | -0.09 | 0.00 | 0.00 | 0.07 | 0.11 | 0.11 | --    | --   | -1.87 |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: May 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           | 0.65  | 1.29  | 1.01  | 0.91  | 0.82 | 0.75 | 0.18  | -0.60 | -1.04 | -0.91 | -1.14 | -1.28 | -1.26 | -1.34 | -1.32 | -1.14 | -0.94 | -0.63 | -0.05 | 0.14  | 0.19  | 0.22 | 0.24  | 0.30  | -0.21 | 1.29 | -1.34 |
| 2           | 0.28  | 0.35  | 0.84  | 0.81  | 0.83 | 0.93 | 0.52  | -0.58 | -0.78 | -0.62 | -0.94 | -1.23 | -1.46 | -1.26 | -1.08 | -1.01 | -0.83 | -0.48 | -0.06 | 0.14  | 0.33  | 0.29 | 0.28  | 0.25  | -0.19 | 0.93 | -1.46 |
| 3           | 0.30  | 0.33  | 0.67  | 0.95  | 1.03 | 0.98 | 0.38  | -0.41 | -0.93 | -1.39 | -1.91 | -1.68 | -1.36 | -1.57 | -1.33 | -1.09 | -1.15 | -0.89 | -0.02 | 0.22  | 0.26  | 0.37 | 0.89  | 1.11  | -0.26 | 1.11 | -1.91 |
| 4           | 1.07  | 1.02  | 1.04  | 0.82  | 0.87 | 0.73 | 0.19  | -0.43 | -0.80 | -1.54 | -1.84 | -2.09 | -1.81 | -1.44 | -1.48 | -1.32 | -0.96 | -0.64 | -0.01 | 0.18  | 0.64  | 0.61 | 0.74  | 1.15  | -0.22 | 1.15 | -2.09 |
| 5           | 0.79  | 1.24  | 1.11  | 0.76  | 0.56 | 0.50 | -0.01 | -0.56 | -1.02 | -1.51 | -1.66 | -1.53 | -1.65 | -1.78 | -1.25 | -0.51 | -0.56 | -0.03 | 0.09  | 0.20  | 0.59  | 0.41 | 0.30  | 0.29  | -0.22 | 1.24 | -1.78 |
| 6           | 0.16  | 0.10  | 0.22  | 0.28  | 0.48 | 0.72 | 0.77  | -0.15 | -0.60 | -1.01 | -1.20 | -1.44 | -1.61 | -1.51 | -1.31 | -1.22 | -0.79 | -0.48 | -0.12 | -0.05 | -0.02 | 0.00 | 0.17  | 0.08  | -0.36 | 0.77 | -1.61 |
| 7           | 0.03  | 0.06  | 0.03  | 0.01  | 0.09 | 0.09 | -0.26 | -0.50 | -0.77 | -0.91 | -0.77 | -1.11 | -1.15 | -1.23 | -1.08 | -0.91 | -0.74 | -0.37 | -0.19 | 0.01  | 0.11  | 0.15 | 0.33  | 0.24  | -0.37 | 0.33 | -1.23 |
| 8           | 0.27  | 0.26  | 0.16  | 0.15  | 0.17 | 0.32 | -0.29 | -0.56 | -1.35 | -1.29 | -1.64 | -1.71 | -0.84 | -1.14 | -1.05 | -0.63 | 0.11  | -0.02 | -0.01 | 0.04  | 0.04  | 0.00 | -0.06 | -0.11 | -0.38 | 0.32 | -1.71 |
| 9           | -0.01 | -0.01 | -0.13 | 0.07  | 0.12 | 0.15 | -0.01 | -0.12 | -0.28 | -0.41 | -0.67 | -1.10 | -1.15 | -0.99 | -0.61 | -0.60 | -0.32 | -0.33 | -0.21 | 0.10  | 0.29  | 0.26 | 0.33  | 0.13  | -0.23 | 0.33 | -1.15 |
| 10          | 0.18  | 0.10  | 0.02  | 0.08  | 0.00 | 0.02 | -0.29 | -0.37 | -0.54 | -0.87 | -1.07 | -0.77 | -0.62 | -0.83 | -1.00 | -0.72 | -0.72 | -0.54 | -0.17 | 0.04  | 0.07  | 0.15 | 0.55  | 0.65  | -0.28 | 0.65 | -1.07 |
| 11          | 0.56  | 0.73  | 0.70  | 0.68  | 0.70 | 0.78 | 0.12  | -0.58 | -0.72 | -0.68 | -0.96 | -1.03 | -1.45 | -1.32 | -1.05 | -0.85 | -0.67 | -0.49 | -0.16 | 0.03  | 0.10  | 0.20 | 0.21  | 0.20  | -0.21 | 0.78 | -1.45 |
| 12          | 0.24  | 0.47  | 0.77  | 1.02  | 0.74 | 0.83 | 0.13  | -0.59 | -1.31 | -1.22 | -1.60 | -1.63 | -1.59 | -1.84 | -1.39 | -1.26 | -0.90 | -0.40 | -0.07 | 0.21  | 0.51  | 0.58 | 0.50  | 0.89  | -0.29 | 1.02 | -1.84 |
| 13          | 0.68  | 0.46  | 0.64  | 0.41  | 0.59 | 0.85 | 0.00  | -0.73 | -0.98 | -1.01 | -1.45 | -1.62 | -1.36 | -1.22 | -1.22 | -1.12 | -0.78 | -0.45 | -0.09 | 0.12  | 0.14  | 0.22 | 0.19  | 0.18  | -0.32 | 0.85 | -1.62 |
| 14          | 0.19  | 0.33  | 0.47  | 0.56  | 0.51 | 0.56 | -0.14 | -0.41 | -0.76 | -0.95 | -1.05 | -1.28 | -1.22 | -0.90 | -1.06 | -0.92 | -0.52 | -0.40 | -0.14 | 0.08  | 0.08  | 0.05 | 0.09  | 0.16  | -0.28 | 0.56 | -1.28 |
| 15          | 0.35  | 0.19  | 0.22  | 0.90  | 0.63 | 0.84 | 0.13  | -0.36 | -0.76 | -1.11 | -1.34 | -1.59 | -1.49 | -1.34 | -0.99 | -1.03 | -0.79 | -0.50 | -0.17 | 0.02  | 0.08  | 0.12 | 0.15  | 0.11  | -0.32 | 0.90 | -1.59 |
| 16          | 0.14  | 0.17  | 0.07  | 0.09  | 0.21 | 0.08 | -0.07 | -0.34 | -0.65 | -0.78 | -0.95 | -0.98 | -1.02 | -1.16 | -0.82 | -1.00 | -0.96 | -0.57 | -0.20 | 0.08  | 0.24  | 0.42 | 0.52  | 0.30  | -0.30 | 0.52 | -1.16 |
| 17          | 0.41  | 0.69  | 0.74  | 0.69  | 0.68 | 0.45 | -0.35 | -0.58 | -1.07 | -1.21 | -1.46 | -1.59 | -1.25 | -1.40 | -1.24 | -1.15 | -0.86 | -0.52 | -0.17 | 0.10  | 0.06  | 0.04 | 0.04  | -0.04 | -0.38 | 0.74 | -1.59 |
| 18          | -0.07 | -0.05 | -0.03 | -0.04 | 0.07 | 0.09 | -0.04 | -0.32 | -0.75 | -1.07 | -1.06 | -1.39 | -1.13 | -1.23 | -1.12 | -0.96 | -0.81 | -0.55 | -0.19 | 0.07  | 0.23  | 0.37 | 0.20  | 0.12  | -0.40 | 0.37 | -1.39 |
| 19          | 0.13  | 0.30  | 0.38  | 0.23  | 0.16 | 0.05 | -0.38 | -0.78 | -1.31 | -1.76 | -1.96 | -2.20 | -2.13 | -2.28 | -1.78 | -1.40 | -1.21 | -0.75 | -0.29 | 0.05  | 0.13  | 0.38 | 0.46  | 0.41  | -0.65 | 0.46 | -2.28 |
| 20          | 0.39  | 0.33  | 0.39  | 0.33  | 0.30 | 0.27 | -0.25 | -0.80 | -1.08 | -1.47 | -1.88 | -2.20 | -2.13 | -1.81 | -1.73 | -1.27 | -1.13 | -0.82 | -0.28 | 0.01  | 0.14  | 0.46 | 0.69  | 0.87  | -0.53 | 0.87 | -2.20 |
| 21          | 0.46  | 0.37  | 0.38  | 0.35  | 0.48 | 0.43 | -0.08 | -0.67 | -1.17 | -1.53 | -1.77 | -1.27 | -1.36 | -1.51 | -1.36 | -1.13 | -0.98 | -0.65 | -0.15 | 0.12  | 0.20  | 0.28 | 0.26  | 0.24  | -0.42 | 0.48 | -1.77 |
| 22          | 0.28  | 0.28  | 0.61  | 1.03  | 1.08 | 0.50 | -0.03 | -0.66 | -1.18 | -1.75 | -2.15 | -1.76 | -1.61 | -1.37 | -1.44 | -1.21 | -0.87 | -0.51 | -0.14 | 0.04  | 0.14  | 0.16 | 0.26  | 0.55  | -0.41 | 1.08 | -2.15 |
| 23          | 1.06  | 0.64  | 0.48  | 0.59  | 0.68 | 0.70 | -0.07 | -0.75 | -1.23 | -1.75 | -2.01 | -1.54 | -1.48 | -1.24 | -1.47 | -1.14 | -0.88 | -0.57 | -0.14 | 0.23  | 0.20  | 0.44 | 0.93  | 0.98  | -0.31 | 1.06 | -2.01 |
| 24          | 0.92  | 1.24  | 1.15  | 1.00  | 1.35 | 1.03 | 0.16  | -0.75 | -1.11 | -0.94 | -1.07 | -1.25 | -1.28 | -1.26 | -1.27 | -1.12 | -0.75 | -0.44 | -0.12 | 0.09  | 0.15  | 0.12 | 0.13  | 0.10  | -0.16 | 1.35 | -1.28 |
| 25          | 0.17  | 0.38  | 0.30  | 0.30  | 0.32 | 0.38 | 0.16  | -0.24 | -0.59 | -0.91 | -1.05 | -1.35 | -1.24 | -1.33 | -1.14 | -0.84 | -0.70 | -0.40 | -0.09 | 0.06  | 0.10  | 0.17 | 0.23  | 0.19  | -0.30 | 0.38 | -1.35 |
| 26          | 0.38  | 0.40  | 0.43  | 0.38  | 0.33 | 0.31 | 0.12  | -0.42 | -0.86 | -0.98 | -1.32 | -1.21 | -1.42 | -1.38 | -1.21 | -1.16 | -0.88 | -0.53 | -0.18 | 0.09  | 0.15  | 0.21 | 0.31  | 0.45  | -0.33 | 0.45 | -1.42 |
| 27          | 0.61  | 0.73  | 0.80  | 0.91  | 0.90 | 0.69 | -0.01 | -0.84 | -1.12 | -1.38 | -1.67 | -1.12 | -1.67 | -1.45 | -1.45 | -1.31 | -1.05 | -0.64 | -0.23 | 0.19  | 0.20  | 0.20 | 0.24  | 0.70  | -0.32 | 0.91 | -1.67 |
| 28          | 0.51  | 0.81  | 1.56  | 1.29  | 0.88 | 1.15 | 0.35  | -0.61 | -0.97 | -0.72 | -1.05 | -1.47 | -1.73 | -1.52 | -1.46 | -1.31 | -0.97 | -0.79 | -0.19 | 0.12  | 0.11  | 0.41 | 0.89  | 0.83  | -0.16 | 1.56 | -1.73 |
| 29          | 0.82  | 0.78  | 1.13  | 1.15  | 1.24 | 0.77 | -0.01 | -0.77 | -1.22 | -1.36 | -1.66 | -1.64 | -1.80 | -1.67 | -1.71 | -1.32 | -0.64 | -0.57 | -0.13 | 0.05  | 0.33  | 0.65 | 0.94  | 0.80  | -0.24 | 1.24 | -1.80 |
| 30          | 0.57  | 0.51  | 0.48  | 0.28  | 0.34 | 0.32 | -0.22 | -0.54 | -0.74 | -1.03 | -1.28 | -1.65 | -1.60 | -1.43 | -1.36 | -1.30 | -0.89 | -0.60 | -0.42 | -0.28 | -0.17 | 0.02 | 0.10  | 0.10  | -0.45 | 0.57 | -1.65 |
| 31          | 0.14  | 0.11  | 0.14  | 0.19  | 0.20 | 0.20 | -0.22 | -0.83 | -1.41 | -1.47 | -1.66 | -1.78 | -2.00 | -1.84 | -1.21 | -1.48 | -0.91 | -0.56 | -0.21 | 0.05  | 0.04  | 0.00 | -0.01 | 0.06  | -0.60 | 0.20 | -2.00 |
| Avg         | 0.41  | 0.47  | 0.54  | 0.55  | 0.56 | 0.53 | 0.02  | -0.54 | -0.94 | -1.15 | -1.39 | -1.47 | -1.45 | -1.41 | -1.26 | -1.08 | -0.81 | -0.52 | -0.15 | 0.08  | 0.18  | 0.26 | 0.36  | 0.40  | -0.33 | --   | --    |
| Max         | 1.07  | 1.29  | 1.56  | 1.29  | 1.35 | 1.15 | 0.77  | -0.12 | -0.28 | -0.41 | -0.67 | -0.77 | -0.62 | -0.83 | -0.61 | -0.51 | 0.11  | -0.02 | 0.09  | 0.23  | 0.64  | 0.65 | 0.94  | 1.15  | --    | 1.56 | --    |
| Min         | -0.07 | -0.05 | -0.13 | -0.04 | 0.00 | 0.02 | -0.38 | -0.84 | -1.41 | -1.76 | -2.15 | -2.20 | -2.13 | -2.28 | -1.78 | -1.48 | -1.21 | -0.89 | -0.42 | -0.28 | -0.17 | 0.00 | -0.06 | -0.11 | --    | --   | -2.28 |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: Jun 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 | 0.17 | 0.23 | 0.64 | 0.34 | 0.49 | 0.23  | -0.25 | -0.68 | -1.23 | -1.65 | -1.64 | -1.57 | -1.56 | -1.51 | -1.14 | -0.93 | -0.77 | -0.27 | 0.01  | 0.07 | 0.18 | 0.20 | 0.12 | -0.44 | 0.64 | -1.65 |
| 2           | 0.07 | 0.12 | 0.07 | 0.15 | 0.50 | 0.85 | -0.13 | -0.87 | -1.48 | -1.31 | -1.08 | -1.23 | -1.24 | -1.45 | -1.37 | -1.15 | -1.03 | -0.76 | -0.34 | -0.04 | 0.09 | 0.19 | 0.85 | 0.98 | -0.40 | 0.98 | -1.48 |
| 3           | 0.73 | 0.51 | 0.88 | 0.89 | 0.88 | 0.69 | -0.07 | -0.74 | -1.16 | -0.83 | -0.93 | -1.10 | -1.31 | -1.40 | -1.40 | -1.17 | -1.00 | -0.67 | -0.24 | 0.03  | 0.10 | 0.20 | 0.24 | 0.16 | -0.28 | 0.89 | -1.40 |
| 4           | 0.12 | 0.10 | 0.14 | 0.34 | 0.42 | 0.50 | -0.02 | -0.91 | -1.24 | -1.09 | -0.79 | -1.13 | -1.41 | -1.56 | -1.24 | -1.19 | -1.04 | -0.65 | -0.28 | 0.01  | 0.08 | 0.14 | 0.16 | 0.14 | -0.43 | 0.50 | -1.56 |
| 5           | 0.10 | 0.10 | 0.28 | 0.25 | 0.26 | 0.25 | -0.01 | -0.23 | -0.43 | -0.52 | -0.91 | -1.17 | -1.52 | -1.34 | -1.42 | -1.18 | -1.07 | -0.64 | -0.29 | 0.02  | 0.05 | 0.13 | 0.16 | 0.24 | -0.37 | 0.28 | -1.52 |
| 6           | 0.49 | 0.47 | 0.11 | 0.07 | 0.13 | 0.12 | -0.08 | -0.42 | -0.40 | -0.64 | -0.90 | -1.10 | -1.28 | -1.34 | -1.21 | -1.17 | -0.94 | -0.68 | -0.32 | -0.01 | 0.08 | 0.17 | 0.30 | 0.38 | -0.34 | 0.49 | -1.34 |
| 7           | 0.28 | 0.11 | 0.12 | 0.10 | 0.03 | 0.24 | 0.06  | -0.28 | -0.42 | -0.68 | -0.77 | -1.48 | -1.46 | -1.47 | -1.43 | -1.24 | -1.05 | -0.73 | -0.31 | 0.03  | 0.12 | 0.36 | 0.62 | 0.75 | -0.35 | 0.75 | -1.48 |
| 8           | 0.43 | 0.67 | 0.43 | 0.41 | 0.56 | 0.69 | -0.31 | -0.80 | -0.78 | -1.01 | -1.32 | -1.21 | -1.38 | -1.26 | -1.21 | -1.07 | -0.87 | -0.44 | -0.24 | 0.03  | 0.08 | 0.16 | 0.20 | 0.09 | -0.34 | 0.69 | -1.38 |
| 9           | 0.14 | 0.41 | 0.93 | 0.72 | 0.89 | 0.42 | 0.15  | -0.29 | -0.44 | -0.66 | -1.11 | -1.25 | -1.47 | -1.39 | -1.27 | -1.09 | -1.09 | -0.75 | -0.32 | 0.02  | 0.08 | 0.13 | 0.17 | 0.17 | -0.29 | 0.93 | -1.47 |
| 10          | 0.30 | 0.37 | 0.34 | 0.34 | 0.33 | 0.38 | 0.14  | -0.31 | -0.80 | -1.19 | -1.48 | -1.58 | -1.43 | -1.26 | -1.39 | -1.34 | -0.77 | -0.65 | -0.21 | 0.11  | 0.19 | 0.24 | 0.34 | 0.14 | -0.38 | 0.38 | -1.58 |
| 11          | 0.19 | 0.25 | 0.28 | 0.38 | 0.59 | 0.51 | -0.10 | -0.50 | -0.80 | -1.19 | -1.34 | -1.48 | -1.58 | -1.54 | -1.37 | -1.11 | -0.92 | -0.62 | -0.26 | -0.01 | 0.06 | 0.09 | 0.09 | 0.10 | -0.43 | 0.59 | -1.58 |
| 12          | 0.15 | 0.13 | 0.16 | 0.15 | 0.19 | 0.21 | -0.04 | -0.47 | -0.88 | -0.99 | -1.13 | -1.26 | -1.25 | -1.20 | -1.46 | -1.41 | -1.06 | -0.76 | -0.31 | 0.03  | 0.08 | 0.05 | 0.06 | 0.30 | -0.45 | 0.30 | -1.46 |
| 13          | 0.55 | 0.81 | 0.57 | 0.70 | 0.83 | 0.92 | 0.08  | -0.65 | -0.57 | -0.70 | -1.01 | -1.71 | -1.30 | -1.58 | -1.47 | -1.37 | -1.12 | -0.76 | -0.33 | 0.10  | 0.16 | 0.32 | 0.60 | 1.11 | -0.24 | 1.11 | -1.71 |
| 14          | 0.89 | 1.63 | 1.24 | 1.03 | 0.94 | 1.47 | 0.24  | -0.72 | -1.58 | -1.41 | -1.15 | -1.25 | -1.54 | -1.45 | -1.57 | -1.32 | -1.10 | -0.72 | -0.30 | 0.12  | 0.25 | 0.63 | 0.78 | 1.49 | -0.14 | 1.63 | -1.58 |
| 15          | 1.57 | 1.33 | 1.25 | 2.48 | 1.46 | 0.89 | 0.26  | -0.63 | -0.79 | -0.53 | -0.82 | -1.21 | -1.20 | -1.58 | -1.49 | -1.46 | -1.08 | -0.70 | -0.26 | 0.18  | 0.59 | 1.29 | 0.99 | 0.89 | 0.06  | 2.48 | -1.58 |
| 16          | 0.96 | 1.79 | 1.14 | 0.74 | 1.23 | 1.06 | 0.28  | -0.39 | -0.45 | -0.78 | -0.82 | -1.22 | -1.19 | -1.29 | -1.33 | -1.20 | -1.04 | -0.70 | -0.33 | 0.26  | 0.32 | 0.32 | 0.33 | 0.39 | -0.08 | 1.79 | -1.33 |
| 17          | 0.21 | 0.15 | 0.32 | 0.18 | 0.18 | 0.24 | 0.06  | -0.33 | -0.73 | -0.73 | -0.96 | -1.03 | -1.27 | -1.34 | -1.12 | -1.07 | -0.97 | -0.64 | -0.28 | 0.09  | 0.12 | 0.18 | 0.19 | 0.17 | -0.35 | 0.32 | -1.34 |
| 18          | 0.13 | 0.16 | 0.14 | 0.17 | 0.39 | 0.52 | 0.06  | -0.19 | -0.55 | -0.56 | -0.92 | -1.13 | -1.25 | -1.25 | -1.28 | -1.05 | -0.84 | -0.61 | -0.28 | 0.06  | 0.10 | 0.23 | 0.23 | 0.19 | -0.31 | 0.52 | -1.28 |
| 19          | 0.34 | 0.20 | 0.43 | 0.21 | 0.32 | 0.78 | 0.70  | -0.27 | -1.17 | -1.12 | -1.96 | -2.19 | -1.28 | -1.55 | -1.43 | -1.07 | -0.90 | -0.70 | -0.40 | 0.27  | 0.41 | 0.62 | 0.91 | 1.25 | -0.32 | 1.25 | -2.19 |
| 20          | 0.77 | 0.73 | 0.63 | 0.56 | 0.38 | 0.32 | -0.13 | -0.54 | -1.24 | -1.79 | -2.08 | -2.13 | -1.61 | -1.81 | -1.37 | -0.38 | -0.65 | -0.54 | -0.37 | 0.22  | 0.52 | 0.63 | 0.62 | 0.99 | -0.34 | 0.99 | -2.13 |
| 21          | 0.99 | 0.82 | 1.18 | 0.85 | 0.98 | 1.43 | 0.34  | -0.56 | -1.13 | -0.74 | -0.99 | -1.31 | -1.35 | -1.26 | -1.27 | -1.23 | -0.94 | -0.67 | -0.28 | 0.03  | 0.46 | 0.55 | 0.45 | 0.45 | -0.13 | 1.43 | -1.35 |
| 22          | 0.37 | 0.30 | 0.72 | 0.39 | 0.30 | 0.22 | 0.01  | -0.40 | -0.85 | -0.96 | -1.33 | -1.26 | -1.43 | -1.50 | -1.21 | -1.12 | -0.89 | -0.61 | -0.29 | 0.01  | 0.06 | 0.06 | 0.16 | 0.08 | -0.38 | 0.72 | -1.50 |
| 23          | 0.05 | 0.03 | 0.06 | 0.23 | 0.20 | 0.68 | -0.06 | -0.38 | -0.72 | -0.67 | -0.91 | -1.14 | -1.14 | -1.33 | -1.41 | -1.11 | -0.91 | -0.65 | -0.33 | 0.01  | 0.07 | 0.09 | 0.11 | 0.20 | -0.38 | 0.68 | -1.41 |
| 24          | 0.21 | 0.43 | 0.45 | 0.91 | 0.96 | 0.47 | 0.32  | -0.57 | -1.03 | -1.43 | -1.45 | -1.27 | -1.34 | -1.39 | -1.32 | -1.17 | -1.00 | -0.61 | -0.28 | 0.05  | 0.11 | 0.36 | 0.98 | 0.56 | -0.29 | 0.98 | -1.45 |
| 25          | 0.06 | 0.04 | 0.06 | 0.12 | 0.21 | 0.08 | -0.27 | -0.42 | -0.86 | -1.23 | -1.78 | -1.98 | -1.74 | -1.81 | -1.39 | -1.34 | -0.99 | -0.64 | -0.31 | -0.04 | 0.02 | 0.08 | 0.18 | 0.39 | -0.57 | 0.39 | -1.98 |
| 26          | 0.35 | 0.40 | 0.22 | 0.17 | 0.15 | 0.13 | -0.25 | -0.80 | -1.14 | -0.92 | -1.00 | -1.39 | -1.38 | -1.45 | -1.61 | -1.44 | -0.96 | -0.76 | -0.32 | -0.01 | 0.13 | 0.54 | 0.98 | 0.53 | -0.41 | 0.98 | -1.61 |
| 27          | 0.57 | 0.81 | 0.82 | 0.70 | 0.59 | 0.58 | -0.11 | -0.65 | -0.90 | -1.17 | -1.62 | -1.52 | -1.29 | -1.46 | -1.20 | -1.06 | -0.99 | -0.67 | -0.32 | 0.11  | 0.29 | 0.79 | 0.46 | 0.80 | -0.27 | 0.82 | -1.62 |
| 28          | 0.56 | 0.35 | 0.31 | 0.30 | 0.91 | 0.82 | 0.05  | -0.42 | -0.74 | -1.01 | -1.13 | -1.48 | -1.46 | -1.42 | -1.45 | -1.18 | -0.92 | -0.75 | -0.32 | 0.08  | 0.17 | 0.38 | 0.48 | 1.01 | -0.29 | 1.01 | -1.48 |
| 29          | 0.54 | 0.42 | 0.39 | 0.40 | 0.72 | 0.90 | 0.12  | -0.43 | -0.78 | -0.97 | -1.26 | -1.45 | -1.37 | -1.38 | -1.69 | -1.34 | -1.13 | -0.89 | -0.42 | 0.06  | 0.40 | 0.65 | 0.70 | 0.76 | -0.29 | 0.90 | -1.69 |
| 30          | 0.46 | 0.55 | 0.48 | 0.66 | 0.71 | 0.83 | 0.13  | -0.50 | -0.68 | -0.65 | -0.93 | -1.44 | -1.28 | -1.26 | -1.22 | -1.20 | -1.08 | -0.76 | -0.36 | 0.17  | 0.93 | 1.47 | 1.18 | 1.44 | -0.10 | 1.47 | -1.44 |
| Avg         | 0.42 | 0.48 | 0.48 | 0.51 | 0.55 | 0.59 | 0.06  | -0.50 | -0.85 | -0.96 | -1.18 | -1.39 | -1.38 | -1.43 | -1.37 | -1.18 | -0.98 | -0.68 | -0.31 | 0.07  | 0.21 | 0.37 | 0.46 | 0.54 | -0.31 | --   | --    |
| Max         | 1.57 | 1.79 | 1.25 | 2.48 | 1.46 | 1.47 | 0.70  | -0.19 | -0.40 | -0.52 | -0.77 | -1.03 | -1.14 | -1.20 | -1.12 | -0.38 | -0.65 | -0.44 | -0.21 | 0.27  | 0.93 | 1.47 | 1.18 | 1.49 | --    | 2.48 | --    |
| Min         | 0.05 | 0.03 | 0.06 | 0.07 | 0.03 | 0.08 | -0.31 | -0.91 | -1.58 | -1.79 | -2.08 | -2.19 | -1.74 | -1.81 | -1.69 | -1.46 | -1.13 | -0.89 | -0.42 | -0.04 | 0.02 | 0.05 | 0.06 | 0.08 | --    | --   | -2.19 |

SAROAD for Resolution, East\_Plant  
"Component, Channel: Table100, Precip\_Inches"  
Month: Apr 2017

[illegible]

SAROAD for Resolution, East\_Plant  
"Component, Channel: Table100, Precip\_Inches"  
Month: May 2017

[illegible]

SAROAD for Resolution, East\_Plant  
"Component, Channel: Table100, Precip\_Inches"  
Month: Jun 2017

[illegible]

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: Apr 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 | 51 | 52 | 53 | 52 | 56 | 54 | 44 | 36 | 32 | 28 | 25 | 27 | 27 | 28 | 36 | 30 | 27 | 30 | 36 | 39 | 41 | 43 | 44 | 39  | 56  | 25  |  |
| 2           | 46 | 46 | 46 | 46 | 45 | 47 | 45 | 41 | 32 | 30 | 33 | 31 | 27 | 25 | 25 | 24 | 23 | 24 | 26 | 28 | 28 | 29 | 28 | 28 | 33  | 47  | 23  |  |
| 3           | 28 | 28 | 30 | 34 | 37 | 39 | 37 | 33 | 29 | 28 | 25 | 22 | 19 | 18 | 19 | 19 | 20 | 18 | 17 | 18 | 22 | 29 | 47 | 48 | 28  | 48  | 17  |  |
| 4           | 39 | 34 | 28 | 25 | 27 | 29 | 37 | 33 | 29 | 27 | 24 | 21 | 19 | 19 | 15 | 13 | 15 | 16 | 19 | 20 | 20 | 21 | 19 | 19 | 24  | 39  | 13  |  |
| 5           | 28 | 28 | 21 | 19 | 19 | 20 | 20 | 19 | 18 | 18 | 16 | 14 | 14 | 13 | 11 | 10 | 9  | 9  | 12 | 13 | 14 | 14 | 15 | 17 | 16  | 28  | 9   |  |
| 6           | 18 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 13 | 11 | 10 | 9  | 9  | 9  | 9  | 10 | 11 | 12 | 13 | 14 | 16 | 18 | 13  | 18  | 9   |  |
| 7           | 18 | 18 | 20 | 21 | 20 | 21 | 21 | 21 | 17 | 15 | 13 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 12 | 16 | 18 | 19 | 21 | 20 | 16  | 21  | 11  |  |
| 8           | 20 | 21 | 21 | 21 | 22 | 23 | 22 | 23 | 21 | 13 | 12 | 10 | 10 | 9  | 9  | 9  | 10 | 9  | 6  | 10 | 23 | 29 | 34 | 34 | 18  | 34  | 6   |  |
| 9           | 22 | 26 | 27 | 24 | 29 | 32 | 34 | 30 | 25 | 24 | 17 | 21 | 19 | 16 | 12 | 12 | 13 | 15 | 14 | 17 | 18 | 20 | 23 | 24 | 21  | 34  | 12  |  |
| 10          | 27 | 30 | 30 | 29 | 27 | 29 | 31 | 26 | 21 | 17 | 13 | 14 | 11 | 9  | 8  | 9  | 8  | 7  | 6  | 7  | 9  | 11 | 12 | 12 | 17  | 31  | 6   |  |
| 11          | 12 | 12 | 12 | 12 | 15 | 17 | 20 | 18 | 14 | 10 | 7  | 6  | 5  | 5  | 6  | 6  | 6  | 7  | 8  | 9  | 10 | 12 | 14 | 14 | 11  | 20  | 5   |  |
| 12          | 14 | 13 | 14 | 14 | 17 | 18 | 18 | 18 | 13 | 10 | 10 | 10 | 9  | 9  | 9  | 8  | 8  | 9  | 10 | 11 | 12 | 15 | 16 | 15 | 13  | 18  | 8   |  |
| 13          | 16 | 16 | 16 | 17 | 19 | 21 | 20 | 19 | 17 | 13 | 11 | 11 | 9  | 7  | 8  | 10 | 11 | 11 | 12 | 14 | 15 | 15 | 17 | 18 | 14  | 21  | 7   |  |
| 14          | 18 | 18 | 21 | 23 | 24 | 24 | 24 | 23 | 18 | 17 | 16 | 16 | 13 | 11 | 11 | 12 | 12 | 13 | 12 | 15 | 18 | 20 | 21 | 22 | 17  | 24  | 11  |  |
| 15          | 22 | 24 | 27 | 29 | 29 | 29 | 29 | 24 | 19 | 17 | 15 | 13 | 12 | 11 | 10 | 9  | 8  | 9  | 10 | 14 | 15 | 16 | 15 | 17 | 18  | 29  | 8   |  |
| 16          | 18 | 17 | 17 | 19 | 19 | 19 | 20 | 20 | 14 | 10 | 9  | 8  | 8  | 7  | 6  | 6  | 6  | 8  | 9  | 10 | 12 | 11 | 10 | 10 | 12  | 20  | 6   |  |
| 17          | 11 | 13 | 14 | 16 | 16 | 17 | 19 | 17 | 16 | 14 | 13 | 11 | 10 | 9  | 8  | 8  | 9  | 10 | 10 | 10 | 11 | 14 | 16 | 17 | 13  | 19  | 8   |  |
| 18          | 17 | 19 | 19 | 20 | 21 | 23 | 25 | 21 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 12 | 13 | 13 | 15 | 19 | 22 | 25 | 18  | 25  | 12  |  |
| 19          | 26 | 26 | 27 | 29 | 33 | 31 | 31 | 29 | 24 | 23 | 22 | 19 | 17 | 15 | 15 | 15 | 14 | 15 | 17 | 17 | 17 | 18 | 21 | 23 | 22  | 33  | 14  |  |
| 20          | 23 | 24 | 24 | 23 | 22 | 21 | 21 | 18 | 14 | 14 | 13 | 12 | 10 | 10 | 9  | 9  | 9  | 11 | 12 | 13 | 11 | 8  | 8  | 8  | 14  | 24  | 8   |  |
| 21          | 9  | 10 | 12 | 13 | 14 | 16 | 16 | 14 | 9  | 8  | 8  | 8  | 8  | 7  | 7  | 6  | 6  | 7  | 7  | 8  | 8  | 9  | 10 | 12 | 10  | 16  | 6   |  |
| 22          | 14 | 15 | 16 | 17 | 18 | 19 | 18 | 16 | 14 | 12 | 9  | 9  | 8  | 7  | 7  | 7  | 7  | 7  | 8  | 9  | 10 | 11 | 12 | 14 | 12  | 19  | 7   |  |
| 23          | 14 | 14 | 14 | 16 | 22 | 29 | 30 | 29 | 26 | 21 | 17 | 15 | 13 | 11 | 8  | 7  | 6  | 7  | 8  | 9  | 9  | 11 | 13 | 15 | 15  | 30  | 6   |  |
| 24          | 13 | 12 | 10 | 11 | 13 | 15 | 16 | 14 | 13 | 12 | 11 | 10 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 14 | 13 | 14 | 13 | 15 | 12  | 16  | 10  |  |
| 25          | 16 | 19 | 23 | 26 | 31 | 38 | 44 | 46 | 49 | 47 | 45 | 42 | 40 | 33 | 30 | 28 | 26 | 23 | 23 | 19 | 12 | 12 | 14 | 15 | 29  | 49  | 12  |  |
| 26          | 12 | 13 | 17 | 20 | 20 | 23 | 24 | 20 | 17 | 15 | 13 | 11 | 10 | 10 | 9  | 10 | 11 | 12 | 13 | 14 | 14 | 14 | 15 | 16 | 15  | 24  | 9   |  |
| 27          | 17 | 26 | 33 | 30 | 21 | 19 | 22 | 24 | 23 | 23 | 22 | 22 | 23 | 24 | 22 | 24 | 24 | 24 | 25 | 25 | 26 | 26 | 26 | 26 | 24  | 33  | 17  |  |
| 28          | 28 | 39 | 40 | 40 | 41 | 43 | 44 | 44 | 44 | 47 | 47 | 52 | 55 | 51 | 37 | 22 | 13 | 12 | 8  | 5  | 5  | 7  | 13 | 18 | 32  | 55  | 5   |  |
| 29          | 20 | 24 | 27 | 22 | 21 | 22 | 23 | 22 | 22 | 18 | 16 | 14 | 14 | 15 | 14 | 14 | 13 | 14 | 15 | 17 | 18 | 19 | 21 | 23 | 19  | 27  | 13  |  |
| 30          | 25 | 24 | 24 | 23 | 19 | 19 | 19 | 17 | 14 | 13 | 12 | 11 | 10 | 9  | 9  | 9  | 9  | 9  | 10 | 11 | 12 | 12 | 11 | 11 | 14  | 25  | 9   |  |
| Avg         | 21 | 23 | 23 | 24 | 24 | 26 | 27 | 25 | 21 | 19 | 17 | 17 | 16 | 15 | 13 | 13 | 13 | 13 | 13 | 14 | 16 | 17 | 19 | 20 | 19  | --  | --  |  |
| Max         | 50 | 51 | 52 | 53 | 52 | 56 | 54 | 46 | 49 | 47 | 47 | 52 | 55 | 51 | 37 | 36 | 30 | 27 | 30 | 36 | 39 | 41 | 47 | 48 | --  | 56  | --  |  |
| Min         | 9  | 10 | 10 | 11 | 13 | 15 | 15 | 14 | 9  | 8  | 7  | 6  | 5  | 5  | 6  | 6  | 6  | 7  | 6  | 5  | 5  | 7  | 8  | 8  | --  | --  | 5   |  |



**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: May 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           | 13 | 15 | 14 | 14 | 14 | 15 | 15 | 13 | 11 | 10 | 9  | 8  | 7  | 7  | 7  | 7  | 7  | 8  | 8  | 9  | 9  | 10 | 10 | 10 | 10  | 15  | 7   |  |
| 2           | 10 | 10 | 13 | 13 | 14 | 15 | 16 | 14 | 11 | 12 | 10 | 9  | 9  | 9  | 9  | 9  | 9  | 10 | 11 | 12 | 13 | 13 | 13 | 13 | 12  | 16  | 9   |  |
| 3           | 13 | 13 | 16 | 18 | 20 | 21 | 18 | 16 | 14 | 11 | 11 | 11 | 11 | 10 | 10 | 9  | 6  | 6  | 9  | 11 | 12 | 13 | 15 | 17 | 13  | 21  | 6   |  |
| 4           | 17 | 14 | 11 | 10 | 10 | 10 | 12 | 10 | 8  | 8  | 6  | 6  | 6  | 5  | 5  | 4  | 5  | 5  | 6  | 8  | 9  | 10 | 11 | 12 | 9   | 17  | 4   |  |
| 5           | 12 | 12 | 12 | 13 | 13 | 17 | 18 | 18 | 17 | 15 | 13 | 10 | 9  | 8  | 8  | 9  | 8  | 9  | 10 | 11 | 12 | 11 | 11 | 12 | 12  | 18  | 8   |  |
| 6           | 12 | 13 | 14 | 14 | 16 | 18 | 18 | 15 | 16 | 17 | 16 | 15 | 13 | 11 | 9  | 9  | 9  | 11 | 13 | 27 | 36 | 37 | 36 | 39 | 18  | 39  | 9   |  |
| 7           | 43 | 43 | 47 | 53 | 57 | 59 | 52 | 50 | 46 | 48 | 55 | 52 | 50 | 45 | 42 | 41 | 39 | 42 | 44 | 47 | 45 | 42 | 43 | 46 | 47  | 59  | 39  |  |
| 8           | 46 | 49 | 50 | 48 | 47 | 48 | 43 | 39 | 37 | 35 | 32 | 28 | 27 | 29 | 27 | 33 | 63 | 50 | 40 | 40 | 43 | 57 | 70 | 79 | 44  | 79  | 27  |  |
| 9           | 88 | 93 | 98 | 92 | 92 | 88 | 84 | 81 | 78 | 77 | 68 | 54 | 47 | 42 | 44 | 43 | 59 | 66 | 60 | 63 | 69 | 73 | 66 | 61 | 70  | 98  | 42  |  |
| 10          | 65 | 66 | 67 | 69 | 70 | 73 | 68 | 61 | 60 | 58 | 54 | 50 | 48 | 43 | 38 | 37 | 35 | 35 | 38 | 41 | 42 | 44 | 48 | 47 | 52  | 73  | 35  |  |
| 11          | 47 | 51 | 53 | 53 | 57 | 56 | 51 | 43 | 36 | 37 | 35 | 32 | 31 | 30 | 29 | 28 | 28 | 29 | 30 | 32 | 33 | 35 | 35 | 36 | 39  | 57  | 28  |  |
| 12          | 33 | 34 | 40 | 40 | 44 | 47 | 41 | 35 | 30 | 26 | 23 | 20 | 15 | 15 | 18 | 18 | 18 | 16 | 16 | 18 | 20 | 22 | 22 | 26 | 27  | 47  | 15  |  |
| 13          | 26 | 27 | 26 | 26 | 29 | 28 | 27 | 24 | 20 | 18 | 17 | 16 | 14 | 13 | 14 | 12 | 10 | 10 | 10 | 12 | 15 | 16 | 17 | 18 | 19  | 29  | 10  |  |
| 14          | 18 | 20 | 18 | 18 | 21 | 25 | 23 | 25 | 25 | 24 | 18 | 15 | 14 | 14 | 12 | 14 | 17 | 17 | 17 | 20 | 24 | 25 | 26 | 25 | 20  | 26  | 12  |  |
| 15          | 30 | 33 | 37 | 41 | 43 | 44 | 36 | 28 | 28 | 25 | 20 | 16 | 13 | 13 | 15 | 19 | 22 | 19 | 15 | 15 | 14 | 16 | 19 | 24 | 24  | 44  | 13  |  |
| 16          | 26 | 25 | 34 | 36 | 41 | 41 | 39 | 41 | 40 | 45 | 45 | 40 | 34 | 31 | 28 | 25 | 23 | 21 | 17 | 20 | 22 | 23 | 26 | 30 | 31  | 45  | 17  |  |
| 17          | 31 | 33 | 36 | 34 | 37 | 37 | 32 | 31 | 33 | 29 | 24 | 22 | 20 | 18 | 18 | 16 | 16 | 18 | 19 | 22 | 27 | 34 | 38 | 39 | 28  | 39  | 16  |  |
| 18          | 41 | 41 | 41 | 41 | 41 | 44 | 41 | 39 | 39 | 36 | 31 | 24 | 16 | 14 | 14 | 14 | 12 | 9  | 9  | 11 | 13 | 14 | 14 | 16 | 26  | 44  | 9   |  |
| 19          | 17 | 20 | 23 | 34 | 40 | 42 | 42 | 39 | 33 | 28 | 24 | 17 | 13 | 10 | 9  | 10 | 11 | 11 | 13 | 14 | 15 | 16 | 17 | 18 | 22  | 42  | 9   |  |
| 20          | 19 | 18 | 19 | 19 | 19 | 19 | 18 | 17 | 16 | 14 | 13 | 10 | 9  | 8  | 8  | 8  | 8  | 9  | 9  | 12 | 13 | 14 | 16 | 15 | 14  | 19  | 8   |  |
| 21          | 12 | 12 | 13 | 16 | 16 | 15 | 15 | 14 | 13 | 11 | 9  | 7  | 7  | 7  | 6  | 6  | 6  | 7  | 8  | 8  | 9  | 10 | 10 | 10 | 10  | 16  | 6   |  |
| 22          | 10 | 10 | 11 | 13 | 16 | 16 | 15 | 13 | 12 | 11 | 10 | 8  | 8  | 8  | 7  | 6  | 7  | 8  | 9  | 9  | 10 | 10 | 10 | 10 | 10  | 16  | 6   |  |
| 23          | 13 | 14 | 14 | 12 | 13 | 14 | 14 | 12 | 9  | 8  | 7  | 7  | 7  | 6  | 6  | 6  | 6  | 6  | 6  | 7  | 7  | 7  | 9  | 11 | 9   | 14  | 6   |  |
| 24          | 12 | 12 | 13 | 14 | 15 | 13 | 13 | 12 | 11 | 9  | 9  | 8  | 7  | 6  | 6  | 7  | 7  | 7  | 8  | 7  | 9  | 10 | 10 | 10 | 10  | 15  | 6   |  |
| 25          | 9  | 11 | 12 | 12 | 12 | 14 | 13 | 11 | 10 | 10 | 9  | 7  | 7  | 6  | 6  | 5  | 5  | 5  | 6  | 7  | 8  | 8  | 9  | 11 | 9   | 14  | 5   |  |
| 26          | 12 | 12 | 12 | 13 | 16 | 17 | 14 | 18 | 18 | 14 | 12 | 12 | 8  | 7  | 7  | 8  | 9  | 9  | 9  | 10 | 12 | 11 | 11 | 13 | 12  | 18  | 7   |  |
| 27          | 11 | 12 | 14 | 15 | 14 | 13 | 12 | 11 | 11 | 7  | 6  | 7  | 7  | 6  | 6  | 6  | 6  | 7  | 7  | 9  | 10 | 10 | 12 | 13 | 10  | 15  | 6   |  |
| 28          | 14 | 16 | 17 | 18 | 18 | 19 | 18 | 14 | 11 | 12 | 11 | 10 | 8  | 7  | 7  | 6  | 5  | 5  | 5  | 6  | 7  | 8  | 9  | 9  | 11  | 19  | 5   |  |
| 29          | 9  | 10 | 11 | 12 | 14 | 14 | 12 | 13 | 13 | 13 | 13 | 12 | 10 | 6  | 5  | 5  | 6  | 6  | 7  | 8  | 9  | 10 | 11 | 11 | 10  | 14  | 5   |  |
| 30          | 11 | 14 | 15 | 19 | 22 | 24 | 26 | 26 | 24 | 22 | 19 | 16 | 14 | 13 | 13 | 11 | 10 | 10 | 11 | 29 | 36 | 34 | 34 | 37 | 21  | 37  | 10  |  |
| 31          | 41 | 43 | 42 | 41 | 42 | 42 | 39 | 34 | 30 | 24 | 22 | 19 | 16 | 15 | 15 | 12 | 13 | 13 | 13 | 13 | 15 | 18 | 18 | 17 | 25  | 43  | 12  |  |
| Avg         | 25 | 26 | 27 | 28 | 30 | 30 | 29 | 26 | 24 | 23 | 21 | 18 | 16 | 15 | 14 | 14 | 16 | 16 | 16 | 18 | 20 | 21 | 22 | 24 | 22  | --  | --  |  |
| Max         | 88 | 93 | 98 | 92 | 92 | 88 | 84 | 81 | 78 | 77 | 68 | 54 | 50 | 45 | 44 | 43 | 63 | 66 | 60 | 63 | 69 | 73 | 70 | 79 | --  | 98  | --  |  |
| Min         | 9  | 10 | 11 | 10 | 10 | 10 | 12 | 10 | 8  | 7  | 6  | 6  | 6  | 5  | 5  | 4  | 5  | 5  | 5  | 6  | 7  | 7  | 9  | 9  | --  | --  | 4   |  |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: Jun 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 | 20 | 20 | 22 | 24 | 24 | 25 | 25 | 21 | 20 | 17 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 14 | 14 | 15 | 19 | 19 | 18  | 25  | 12  |  |
| 2           | 19 | 22 | 26 | 30 | 32 | 30 | 28 | 28 | 21 | 18 | 20 | 18 | 17 | 15 | 15 | 15 | 14 | 14 | 14 | 15 | 15 | 16 | 18 | 19 | 20  | 32  | 14  |  |
| 3           | 19 | 17 | 19 | 20 | 22 | 23 | 25 | 22 | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 10 | 9  | 10 | 11 | 11 | 11 | 11 | 11 | 15  | 25  | 9   |  |
| 4           | 13 | 16 | 17 | 19 | 20 | 21 | 21 | 18 | 15 | 14 | 14 | 12 | 11 | 11 | 10 | 10 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14  | 21  | 10  |  |
| 5           | 13 | 14 | 15 | 17 | 19 | 19 | 17 | 15 | 15 | 14 | 13 | 12 | 11 | 11 | 11 | 11 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 14  | 19  | 10  |  |
| 6           | 16 | 16 | 19 | 21 | 22 | 22 | 22 | 17 | 18 | 17 | 14 | 13 | 12 | 11 | 11 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 16  | 22  | 11  |  |
| 7           | 17 | 18 | 20 | 21 | 22 | 21 | 18 | 16 | 16 | 16 | 14 | 12 | 12 | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 14 | 15 | 18 | 19 | 16  | 22  | 11  |  |
| 8           | 25 | 28 | 32 | 33 | 34 | 35 | 30 | 28 | 21 | 16 | 14 | 11 | 7  | 7  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 13 | 12 | 17  | 35  | 6   |  |
| 9           | 13 | 14 | 16 | 17 | 17 | 15 | 14 | 13 | 13 | 14 | 12 | 11 | 10 | 10 | 10 | 11 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 13  | 17  | 10  |  |
| 10          | 16 | 16 | 17 | 16 | 17 | 16 | 13 | 13 | 12 | 11 | 8  | 7  | 7  | 6  | 7  | 5  | 4  | 4  | 4  | 4  | 5  | 6  | 9  | 15 | 10  | 17  | 4   |  |
| 11          | 14 | 16 | 18 | 29 | 31 | 32 | 26 | 16 | 14 | 12 | 8  | 8  | 7  | 6  | 7  | 7  | 8  | 10 | 16 | 19 | 17 | 16 | 20 | 24 | 16  | 32  | 6   |  |
| 12          | 23 | 20 | 19 | 20 | 22 | 24 | 23 | 23 | 22 | 20 | 18 | 18 | 17 | 17 | 16 | 14 | 13 | 13 | 15 | 18 | 15 | 13 | 13 | 12 | 18  | 24  | 12  |  |
| 13          | 14 | 14 | 14 | 16 | 17 | 16 | 15 | 10 | 7  | 7  | 6  | 5  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 5  | 5  | 5  | 6  | 7  | 8   | 17  | 3   |  |
| 14          | 7  | 8  | 8  | 7  | 8  | 10 | 9  | 8  | 6  | 4  | 4  | 3  | 2  | 2  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 3  | 4  | 4  | 4   | 10  | 1   |  |
| 15          | 4  | 4  | 5  | 5  | 5  | 5  | 6  | 5  | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 1  | 1  | 1  | 2  | 2  | 2  | 3  | 4  | 4  | 3   | 6   | 1   |  |
| 16          | 4  | 4  | 3  | 3  | 5  | 5  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 2  | 3  | 3  | 3  | 4  | 4  | 4  | 4   | 5   | 2   |  |
| 17          | 6  | 8  | 9  | 9  | 9  | 9  | 8  | 8  | 8  | 8  | 7  | 6  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  | 6  | 6   | 9   | 5   |  |
| 18          | 5  | 6  | 6  | 8  | 10 | 12 | 11 | 11 | 11 | 11 | 9  | 8  | 7  | 7  | 6  | 6  | 6  | 6  | 7  | 7  | 8  | 8  | 8  | 8  | 8   | 12  | 5   |  |
| 19          | 8  | 8  | 8  | 8  | 9  | 9  | 10 | 10 | 9  | 8  | 7  | 7  | 7  | 6  | 6  | 6  | 6  | 7  | 7  | 8  | 11 | 11 | 12 | 14 | 8   | 14  | 6   |  |
| 20          | 14 | 14 | 14 | 15 | 17 | 18 | 16 | 15 | 13 | 11 | 10 | 9  | 9  | 8  | 7  | 8  | 8  | 8  | 10 | 11 | 12 | 13 | 13 | 14 | 12  | 18  | 7   |  |
| 21          | 14 | 14 | 16 | 15 | 16 | 17 | 17 | 13 | 11 | 10 | 10 | 9  | 10 | 9  | 8  | 8  | 7  | 7  | 7  | 8  | 10 | 12 | 12 | 12 | 11  | 17  | 7   |  |
| 22          | 13 | 17 | 18 | 19 | 21 | 23 | 25 | 25 | 24 | 22 | 20 | 17 | 16 | 15 | 14 | 12 | 11 | 12 | 13 | 14 | 14 | 15 | 16 | 19 | 17  | 25  | 11  |  |
| 23          | 26 | 35 | 38 | 39 | 40 | 43 | 37 | 33 | 31 | 28 | 24 | 22 | 20 | 18 | 16 | 16 | 16 | 16 | 14 | 14 | 15 | 14 | 14 | 15 | 24  | 43  | 14  |  |
| 24          | 16 | 17 | 19 | 20 | 22 | 20 | 22 | 19 | 15 | 13 | 12 | 11 | 9  | 9  | 9  | 8  | 7  | 8  | 10 | 10 | 10 | 11 | 12 | 14 | 13  | 22  | 7   |  |
| 25          | 22 | 24 | 26 | 28 | 31 | 33 | 34 | 32 | 28 | 25 | 21 | 19 | 17 | 14 | 13 | 12 | 11 | 10 | 11 | 14 | 19 | 20 | 20 | 20 | 21  | 34  | 10  |  |
| 26          | 22 | 24 | 27 | 31 | 33 | 34 | 35 | 33 | 30 | 28 | 26 | 23 | 22 | 19 | 17 | 17 | 16 | 15 | 15 | 16 | 15 | 16 | 18 | 15 | 23  | 35  | 15  |  |
| 27          | 16 | 17 | 20 | 19 | 23 | 23 | 21 | 22 | 23 | 18 | 14 | 9  | 8  | 6  | 4  | 5  | 5  | 6  | 6  | 8  | 8  | 8  | 8  | 10 | 13  | 23  | 4   |  |
| 28          | 10 | 11 | 13 | 18 | 20 | 21 | 20 | 21 | 22 | 24 | 24 | 23 | 23 | 21 | 17 | 16 | 14 | 14 | 15 | 14 | 14 | 15 | 16 | 19 | 18  | 24  | 10  |  |
| 29          | 18 | 15 | 15 | 18 | 21 | 22 | 20 | 19 | 20 | 18 | 16 | 13 | 11 | 10 | 9  | 8  | 9  | 9  | 9  | 12 | 15 | 14 | 15 | 14 | 15  | 22  | 8   |  |
| 30          | 16 | 15 | 12 | 12 | 15 | 14 | 13 | 9  | 7  | 6  | 6  | 6  | 6  | 6  | 5  | 5  | 5  | 4  | 4  | 4  | 4  | 4  | 5  | 5  | 8   | 16  | 4   |  |
| Avg         | 15 | 16 | 17 | 19 | 20 | 21 | 20 | 18 | 16 | 15 | 13 | 12 | 11 | 10 | 9  | 9  | 9  | 9  | 9  | 10 | 11 | 11 | 12 | 13 | 13  | --  | --  |  |
| Max         | 26 | 35 | 38 | 39 | 40 | 43 | 37 | 33 | 31 | 28 | 26 | 23 | 23 | 21 | 17 | 17 | 16 | 16 | 16 | 19 | 19 | 20 | 20 | 24 | --  | 43  | --  |  |
| Min         | 4  | 4  | 3  | 3  | 5  | 5  | 5  | 4  | 3  | 3  | 3  | 2  | 2  | 2  | 1  | 1  | 1  | 1  | 1  | 2  | 2  | 3  | 4  | 4  | --  | --  | 1   |  |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: Apr 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     | 32.6 | 277 | 516 | 719 | 821 | 691   | 507   | 322   | 559 | 324 | 431 | 200 | 21.9 | 0      | 0  | 0        | 0  | 0        | 226 | 821   | 0   |
| 2           | 0 | 0 | 0 | 0 | 0 | 0     | 54.2 | 281 | 517 | 722 | 876 | 964   | 986   | 939   | 822 | 654 | 437 | 200 | 21.9 | 0      | 0  | 0        | 0  | 0        | 311 | 986   | 0   |
| 3           | 0 | 0 | 0 | 0 | 0 | 0     | 59   | 286 | 530 | 612 | 818 | 962   | 990   | 941   | 825 | 621 | 385 | 207 | 24.7 | 0      | 0  | 0.00025  | 0  | 0.0025   | 302 | 990   | 0   |
| 4           | 0 | 0 | 0 | 0 | 0 | 0     | 69.4 | 311 | 558 | 764 | 913 | 997   | 984   | 779   | 717 | 452 | 329 | 209 | 23.8 | 0      | 0  | 0        | 0  | 0        | 296 | 997   | 0   |
| 5           | 0 | 0 | 0 | 0 | 0 | 0     | 71.2 | 312 | 545 | 756 | 909 | 995   | 1,011 | 957   | 840 | 664 | 446 | 215 | 21.7 | 0      | 0  | 0        | 0  | 0        | 323 | 1,011 | 0   |
| 6           | 0 | 0 | 0 | 0 | 0 | 0     | 73.2 | 312 | 539 | 679 | 899 | 989   | 976   | 962   | 839 | 670 | 449 | 207 | 25.9 | 0      | 0  | 0        | 0  | 0        | 317 | 989   | 0   |
| 7           | 0 | 0 | 0 | 0 | 0 | 0     | 74.4 | 311 | 550 | 695 | 900 | 904   | 876   | 846   | 623 | 454 | 314 | 160 | 25   | 0      | 0  | 0        | 0  | 0        | 281 | 904   | 0   |
| 8           | 0 | 0 | 0 | 0 | 0 | 0     | 50.5 | 199 | 443 | 677 | 805 | 837   | 932   | 938   | 773 | 500 | 467 | 207 | 29.9 | 0      | 0  | 0        | 0  | 0        | 286 | 938   | 0   |
| 9           | 0 | 0 | 0 | 0 | 0 | 0     | 75.8 | 320 | 568 | 781 | 855 | 752   | 845   | 934   | 695 | 471 | 400 | 189 | 33.7 | 0      | 0  | 0        | 0  | 0        | 288 | 934   | 0   |
| 10          | 0 | 0 | 0 | 0 | 0 | 0     | 85.1 | 327 | 568 | 756 | 885 | 991   | 1,005 | 960   | 848 | 678 | 455 | 213 | 31.1 | 0      | 0  | 0        | 0  | 0        | 325 | 1,005 | 0   |
| 11          | 0 | 0 | 0 | 0 | 0 | 0     | 88.1 | 307 | 477 | 641 | 783 | 979   | 852   | 698   | 785 | 692 | 449 | 161 | 36.2 | 0      | 0  | 0        | 0  | 0        | 289 | 979   | 0   |
| 12          | 0 | 0 | 0 | 0 | 0 | 0     | 88.8 | 317 | 553 | 759 | 906 | 994   | 1,014 | 966   | 844 | 678 | 458 | 222 | 33.6 | 0      | 0  | 0        | 0  | 0        | 326 | 1,014 | 0   |
| 13          | 0 | 0 | 0 | 0 | 0 | 0.119 | 81.9 | 295 | 488 | 741 | 806 | 890   | 837   | 924   | 670 | 477 | 403 | 235 | 30.3 | 0      | 0  | 0        | 0  | 0        | 287 | 924   | 0   |
| 14          | 0 | 0 | 0 | 0 | 0 | 0.01  | 90.7 | 333 | 572 | 778 | 925 | 1,005 | 1,030 | 984   | 855 | 690 | 464 | 224 | 34.1 | 0      | 0  | 0        | 0  | 0        | 333 | 1,030 | 0   |
| 15          | 0 | 0 | 0 | 0 | 0 | 0.122 | 104  | 348 | 587 | 790 | 934 | 1,022 | 1,036 | 988   | 868 | 702 | 477 | 237 | 33.7 | 0      | 0  | 0        | 0  | 0        | 339 | 1,036 | 0   |
| 16          | 0 | 0 | 0 | 0 | 0 | 0.651 | 98.7 | 337 | 559 | 788 | 847 | 991   | 981   | 986   | 850 | 710 | 412 | 207 | 36.7 | 0      | 0  | 0        | 0  | 0        | 325 | 991   | 0   |
| 17          | 0 | 0 | 0 | 0 | 0 | 0.138 | 125  | 323 | 581 | 785 | 865 | 947   | 1,029 | 902   | 877 | 678 | 442 | 187 | 49.3 | 0      | 0  | 0        | 0  | 0        | 325 | 1,029 | 0   |
| 18          | 0 | 0 | 0 | 0 | 0 | 0.063 | 119  | 354 | 587 | 786 | 932 | 1,014 | 1,030 | 979   | 859 | 692 | 473 | 240 | 35   | 0      | 0  | 0        | 0  | 0        | 337 | 1,030 | 0   |
| 19          | 0 | 0 | 0 | 0 | 0 | 0.367 | 114  | 353 | 590 | 789 | 929 | 1,015 | 1,030 | 982   | 863 | 696 | 474 | 238 | 36.7 | 0      | 0  | 0        | 0  | 0        | 338 | 1,030 | 0   |
| 20          | 0 | 0 | 0 | 0 | 0 | 0.548 | 126  | 366 | 607 | 811 | 955 | 1,039 | 1,054 | 1,003 | 882 | 716 | 490 | 251 | 37.9 | 0      | 0  | 0        | 0  | 0        | 347 | 1,054 | 0   |
| 21          | 0 | 0 | 0 | 0 | 0 | 0.52  | 139  | 384 | 619 | 815 | 953 | 1,035 | 1,047 | 996   | 875 | 713 | 488 | 244 | 37.1 | 0      | 0  | 0        | 0  | 0        | 348 | 1,047 | 0   |
| 22          | 0 | 0 | 0 | 0 | 0 | 0.801 | 136  | 379 | 616 | 810 | 952 | 1,034 | 1,047 | 997   | 874 | 710 | 492 | 254 | 38   | 0      | 0  | 0        | 0  | 0        | 348 | 1,047 | 0   |
| 23          | 0 | 0 | 0 | 0 | 0 | 0.854 | 133  | 375 | 604 | 810 | 879 | 1,022 | 1,036 | 939   | 866 | 709 | 385 | 183 | 43   | 0.032  | 0  | 0        | 0  | 0        | 333 | 1,036 | 0   |
| 24          | 0 | 0 | 0 | 0 | 0 | 1.14  | 140  | 385 | 621 | 813 | 942 | 959   | 889   | 790   | 609 | 397 | 270 | 182 | 52.2 | 0      | 0  | 0        | 0  | 0        | 294 | 959   | 0   |
| 25          | 0 | 0 | 0 | 0 | 0 | 3.28  | 125  | 353 | 538 | 617 | 807 | 661   | 680   | 950   | 812 | 692 | 467 | 213 | 47.6 | 0.0018 | 0  | 0        | 0  | 0        | 290 | 950   | 0   |
| 26          | 0 | 0 | 0 | 0 | 0 | 3.82  | 111  | 391 | 619 | 762 | 913 | 1,033 | 1,040 | 985   | 868 | 700 | 438 | 183 | 31.4 | 0      | 0  | 0        | 0  | 0        | 337 | 1,040 | 0   |
| 27          | 0 | 0 | 0 | 0 | 0 | 1.94  | 63.6 | 245 | 573 | 778 | 910 | 1,003 | 1,015 | 947   | 638 | 401 | 224 | 134 | 34.6 | 0.283  | 0  | 0        | 0  | 0        | 290 | 1,015 | 0   |
| 28          | 0 | 0 | 0 | 0 | 0 | 1.85  | 102  | 165 | 294 | 138 | 207 | 104   | 181   | 529   | 731 | 725 | 495 | 253 | 53.5 | 0.189  | 0  | 0        | 0  | 0        | 166 | 731   | 0   |
| 29          | 0 | 0 | 0 | 0 | 0 | 5.08  | 169  | 414 | 648 | 836 | 976 | 1,059 | 1,136 | 855   | 582 | 440 | 514 | 208 | 33.1 | 0.076  | 0  | 0        | 0  | 0        | 328 | 1,136 | 0   |
| 30          | 0 | 0 | 0 | 0 | 0 | 6.92  | 171  | 413 | 647 | 840 | 978 | 1,053 | 1,064 | 1,011 | 893 | 730 | 508 | 271 | 47.6 | 0.0233 | 0  | 0        | 0  | 0        | 360 | 1,064 | 0   |
| Avg         | 0 | 0 | 0 | 0 | 0 | 0.941 | 99.1 | 326 | 557 | 735 | 869 | 931   | 938   | 900   | 788 | 615 | 431 | 211 | 34.7 | 0.0202 | 0  | 0.000008 | 0  | 0.000083 | 310 | --    | --  |
| Max         | 0 | 0 | 0 | 0 | 0 | 6.92  | 171  | 414 | 648 | 840 | 978 | 1,059 | 1,136 | 1,011 | 893 | 730 | 514 | 271 | 53.5 | 0.283  | 0  | 0.00025  | 0  | 0.0025   | --  | 1,136 | --  |
| Min         | 0 | 0 | 0 | 0 | 0 | 0     | 32.6 | 165 | 294 | 138 | 207 | 104   | 181   | 322   | 559 | 324 | 224 | 134 | 21.7 | 0      | 0  | 0        | 0  | 0        | --  | --    | 0   |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: May 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 | 7.05 | 170  | 409 | 640 | 834 | 976   | 1,052 | 1,065 | 1,013 | 895 | 733 | 509  | 272  | 48.5 | 0.077  | 0  | 0  | 0  | 0  | 359 | 1,065 | 0   |
| 2           | 0 | 0 | 0       | 0 | 0 | 7.44 | 169  | 408 | 637 | 832 | 967   | 1,041 | 1,053 | 1,005 | 865 | 723 | 498  | 262  | 49.7 | 0.0527 | 0  | 0  | 0  | 0  | 355 | 1,053 | 0   |
| 3           | 0 | 0 | 0       | 0 | 0 | 5.07 | 167  | 409 | 639 | 831 | 961   | 1,036 | 1,045 | 988   | 851 | 722 | 506  | 273  | 51.5 | 0.113  | 0  | 0  | 0  | 0  | 354 | 1,045 | 0   |
| 4           | 0 | 0 | 0       | 0 | 0 | 4.55 | 173  | 415 | 644 | 832 | 972   | 1,046 | 1,051 | 1,000 | 883 | 721 | 502  | 270  | 52.4 | 0.0617 | 0  | 0  | 0  | 0  | 357 | 1,051 | 0   |
| 5           | 0 | 0 | 0       | 0 | 0 | 8.51 | 163  | 398 | 628 | 813 | 947   | 1,021 | 1,028 | 970   | 698 | 256 | 191  | 46.8 | 7.38 | 0      | 0  | 0  | 0  | 0  | 299 | 1,028 | 0   |
| 6           | 0 | 0 | 0       | 0 | 0 | 9.25 | 130  | 399 | 627 | 825 | 952   | 1,031 | 1,037 | 983   | 883 | 719 | 491  | 267  | 58.5 | 0.714  | 0  | 0  | 0  | 0  | 350 | 1,037 | 0   |
| 7           | 0 | 0 | 0       | 0 | 0 | 12.1 | 174  | 384 | 531 | 694 | 891   | 1,070 | 1,067 | 928   | 846 | 447 | 340  | 103  | 49.2 | 0.76   | 0  | 0  | 0  | 0  | 314 | 1,070 | 0   |
| 8           | 0 | 0 | 0       | 0 | 0 | 6.83 | 162  | 312 | 633 | 813 | 964   | 1,011 | 668   | 818   | 564 | 287 | 155  | 218  | 63   | 0.764  | 0  | 0  | 0  | 0  | 278 | 1,011 | 0   |
| 9           | 0 | 0 | 0.0482  | 0 | 0 | 3.97 | 35.3 | 156 | 260 | 325 | 637   | 915   | 942   | 794   | 394 | 304 | 82.3 | 130  | 52.6 | 0.848  | 0  | 0  | 0  | 0  | 210 | 942   | 0   |
| 10          | 0 | 0 | 0       | 0 | 0 | 7.53 | 178  | 418 | 652 | 801 | 924   | 636   | 492   | 602   | 776 | 523 | 450  | 281  | 64.6 | 1.22   | 0  | 0  | 0  | 0  | 284 | 924   | 0   |
| 11          | 0 | 0 | 0       | 0 | 0 | 14.2 | 186  | 417 | 641 | 828 | 963   | 1,039 | 1,049 | 998   | 883 | 725 | 508  | 282  | 67.3 | 0.911  | 0  | 0  | 0  | 0  | 358 | 1,049 | 0   |
| 12          | 0 | 0 | 0       | 0 | 0 | 15.3 | 189  | 425 | 645 | 830 | 969   | 1,004 | 1,032 | 994   | 877 | 717 | 466  | 234  | 71.4 | 2.12   | 0  | 0  | 0  | 0  | 353 | 1,032 | 0   |
| 13          | 0 | 0 | 0       | 0 | 0 | 14.2 | 199  | 436 | 662 | 852 | 987   | 1,059 | 1,069 | 1,013 | 898 | 740 | 522  | 294  | 73.5 | 0.85   | 0  | 0  | 0  | 0  | 367 | 1,069 | 0   |
| 14          | 0 | 0 | 0       | 0 | 0 | 15.7 | 197  | 413 | 608 | 658 | 711   | 847   | 741   | 592   | 653 | 591 | 306  | 239  | 94.3 | 1.48   | 0  | 0  | 0  | 0  | 278 | 847   | 0   |
| 15          | 0 | 0 | 0       | 0 | 0 | 16.6 | 202  | 443 | 667 | 852 | 989   | 1,063 | 1,080 | 963   | 758 | 721 | 515  | 288  | 72.7 | 1.82   | 0  | 0  | 0  | 0  | 360 | 1,080 | 0   |
| 16          | 0 | 0 | 0       | 0 | 0 | 9.51 | 137  | 238 | 531 | 477 | 563   | 744   | 765   | 936   | 525 | 581 | 506  | 304  | 79.4 | 0.649  | 0  | 0  | 0  | 0  | 266 | 936   | 0   |
| 17          | 0 | 0 | 0       | 0 | 0 | 19.4 | 199  | 432 | 658 | 843 | 976   | 1,043 | 1,055 | 1,001 | 895 | 744 | 524  | 295  | 78.9 | 1.6    | 0  | 0  | 0  | 0  | 365 | 1,055 | 0   |
| 18          | 0 | 0 | 0       | 0 | 0 | 18.3 | 192  | 429 | 662 | 846 | 981   | 1,041 | 1,074 | 1,018 | 911 | 754 | 536  | 311  | 83.5 | 1.21   | 0  | 0  | 0  | 0  | 369 | 1,074 | 0   |
| 19          | 0 | 0 | 0       | 0 | 0 | 23.1 | 220  | 460 | 686 | 871 | 1,002 | 1,075 | 1,085 | 1,031 | 924 | 764 | 542  | 310  | 82.6 | 1.29   | 0  | 0  | 0  | 0  | 378 | 1,085 | 0   |
| 20          | 0 | 0 | 0       | 0 | 0 | 23.8 | 218  | 457 | 685 | 871 | 990   | 1,055 | 1,071 | 1,013 | 900 | 747 | 531  | 309  | 84.1 | 1.28   | 0  | 0  | 0  | 0  | 373 | 1,071 | 0   |
| 21          | 0 | 0 | 0       | 0 | 0 | 23.4 | 205  | 452 | 651 | 778 | 966   | 1,047 | 1,070 | 1,005 | 902 | 755 | 536  | 308  | 83.1 | 1.04   | 0  | 0  | 0  | 0  | 366 | 1,070 | 0   |
| 22          | 0 | 0 | 0       | 0 | 0 | 23.9 | 214  | 446 | 669 | 851 | 979   | 1,044 | 1,096 | 937   | 915 | 770 | 550  | 300  | 75.7 | 3.63   | 0  | 0  | 0  | 0  | 370 | 1,096 | 0   |
| 23          | 0 | 0 | 0       | 0 | 0 | 25   | 215  | 450 | 676 | 862 | 992   | 1,063 | 1,073 | 1,017 | 910 | 762 | 541  | 302  | 87.1 | 2.67   | 0  | 0  | 0  | 0  | 374 | 1,073 | 0   |
| 24          | 0 | 0 | 0       | 0 | 0 | 24.9 | 214  | 447 | 670 | 855 | 985   | 1,057 | 1,067 | 1,010 | 904 | 748 | 520  | 261  | 79.4 | 1.44   | 0  | 0  | 0  | 0  | 368 | 1,067 | 0   |
| 25          | 0 | 0 | 0       | 0 | 0 | 12.7 | 191  | 365 | 585 | 785 | 886   | 958   | 996   | 979   | 771 | 610 | 531  | 252  | 89.6 | 6.58   | 0  | 0  | 0  | 0  | 334 | 996   | 0   |
| 26          | 0 | 0 | 0       | 0 | 0 | 29.6 | 221  | 457 | 683 | 873 | 1,004 | 1,072 | 1,089 | 1,037 | 927 | 768 | 547  | 323  | 97.6 | 2.07   | 0  | 0  | 0  | 0  | 380 | 1,089 | 0   |
| 27          | 0 | 0 | 0       | 0 | 0 | 31.8 | 225  | 465 | 691 | 876 | 1,003 | 1,078 | 1,089 | 1,033 | 930 | 777 | 557  | 326  | 97.8 | 1.6    | 0  | 0  | 0  | 0  | 382 | 1,089 | 0   |
| 28          | 0 | 0 | 0       | 0 | 0 | 30   | 217  | 449 | 667 | 857 | 984   | 1,051 | 1,066 | 1,013 | 914 | 763 | 549  | 323  | 94.9 | 2.28   | 0  | 0  | 0  | 0  | 374 | 1,066 | 0   |
| 29          | 0 | 0 | 0       | 0 | 0 | 28.3 | 212  | 448 | 666 | 849 | 970   | 1,014 | 994   | 984   | 835 | 663 | 383  | 313  | 73.7 | 5.03   | 0  | 0  | 0  | 0  | 352 | 1,014 | 0   |
| 30          | 0 | 0 | 0       | 0 | 0 | 20.8 | 206  | 394 | 551 | 708 | 785   | 952   | 891   | 872   | 869 | 771 | 545  | 324  | 151  | 1.41   | 0  | 0  | 0  | 0  | 335 | 952   | 0   |
| 31          | 0 | 0 | 0       | 0 | 0 | 4.46 | 175  | 430 | 649 | 829 | 957   | 1,024 | 1,044 | 916   | 669 | 773 | 414  | 294  | 103  | 4.19   | 0  | 0  | 0  | 0  | 345 | 1,044 | 0   |
| Avg         | 0 | 0 | 0.00156 | 0 | 0 | 16   | 186  | 408 | 629 | 795 | 930   | 1,006 | 998   | 950   | 820 | 667 | 463  | 268  | 74.7 | 1.61   | 0  | 0  | 0  | 0  | 342 | --    | --  |
| Max         | 0 | 0 | 0.0482  | 0 | 0 | 31.8 | 225  | 465 | 691 | 876 | 1,004 | 1,078 | 1,096 | 1,037 | 930 | 777 | 557  | 326  | 151  | 6.58   | 0  | 0  | 0  | 0  | --  | 1,096 | --  |
| Min         | 0 | 0 | 0       | 0 | 0 | 3.97 | 35.3 | 156 | 260 | 325 | 563   | 636   | 492   | 592   | 394 | 256 | 82.3 | 46.8 | 7.38 | 0      | 0  | 0  | 0  | 0  | --  | --    | 0   |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: Jun 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 | 14   | 80.3 | 203 | 422 | 794 | 988   | 1,042 | 1,044 | 998   | 882 | 745 | 534 | 312 | 101 | 3.74 | 0  | 0  | 0  | 0  | 340 | 1,044 | 0   |
| 2           | 0 | 0 | 0 | 0 | 0 | 25   | 203  | 436 | 650 | 826 | 956   | 1,024 | 1,039 | 984   | 888 | 734 | 527 | 310 | 110 | 11.6 | 0  | 0  | 0  | 0  | 363 | 1,039 | 0   |
| 3           | 0 | 0 | 0 | 0 | 0 | 26.4 | 201  | 431 | 649 | 832 | 964   | 1,023 | 964   | 1,011 | 905 | 719 | 533 | 312 | 102 | 1.85 | 0  | 0  | 0  | 0  | 361 | 1,023 | 0   |
| 4           | 0 | 0 | 0 | 0 | 0 | 26.3 | 203  | 430 | 646 | 827 | 960   | 1,028 | 1,040 | 993   | 896 | 747 | 538 | 317 | 105 | 4.03 | 0  | 0  | 0  | 0  | 365 | 1,040 | 0   |
| 5           | 0 | 0 | 0 | 0 | 0 | 28.1 | 210  | 436 | 653 | 830 | 956   | 1,026 | 1,041 | 989   | 892 | 741 | 511 | 303 | 110 | 6.27 | 0  | 0  | 0  | 0  | 364 | 1,041 | 0   |
| 6           | 0 | 0 | 0 | 0 | 0 | 32.6 | 187  | 429 | 648 | 820 | 947   | 1,009 | 1,006 | 992   | 887 | 728 | 509 | 318 | 119 | 10.9 | 0  | 0  | 0  | 0  | 360 | 1,009 | 0   |
| 7           | 0 | 0 | 0 | 0 | 0 | 25.5 | 202  | 429 | 646 | 812 | 945   | 1,025 | 1,052 | 965   | 898 | 742 | 542 | 324 | 132 | 12.7 | 0  | 0  | 0  | 0  | 365 | 1,052 | 0   |
| 8           | 0 | 0 | 0 | 0 | 0 | 35.8 | 209  | 371 | 578 | 708 | 958   | 1,020 | 1,032 | 974   | 864 | 744 | 510 | 212 | 125 | 3.57 | 0  | 0  | 0  | 0  | 348 | 1,032 | 0   |
| 9           | 0 | 0 | 0 | 0 | 0 | 28.9 | 205  | 430 | 650 | 831 | 961   | 1,034 | 1,040 | 966   | 898 | 749 | 545 | 326 | 112 | 4.65 | 0  | 0  | 0  | 0  | 366 | 1,040 | 0   |
| 10          | 0 | 0 | 0 | 0 | 0 | 37.5 | 187  | 460 | 665 | 851 | 995   | 1,082 | 1,089 | 1,019 | 928 | 752 | 464 | 363 | 124 | 3.54 | 0  | 0  | 0  | 0  | 376 | 1,089 | 0   |
| 11          | 0 | 0 | 0 | 0 | 0 | 35.6 | 227  | 463 | 684 | 869 | 1,000 | 1,070 | 1,080 | 1,029 | 920 | 770 | 560 | 335 | 120 | 5.94 | 0  | 0  | 0  | 0  | 382 | 1,080 | 0   |
| 12          | 0 | 0 | 0 | 0 | 0 | 36.1 | 227  | 455 | 673 | 854 | 985   | 1,061 | 1,076 | 1,027 | 930 | 780 | 572 | 347 | 126 | 4.24 | 0  | 0  | 0  | 0  | 381 | 1,076 | 0   |
| 13          | 0 | 0 | 0 | 0 | 0 | 37.5 | 231  | 466 | 693 | 881 | 1,019 | 1,098 | 1,114 | 1,057 | 956 | 800 | 585 | 355 | 129 | 3.56 | 0  | 0  | 0  | 0  | 393 | 1,114 | 0   |
| 14          | 0 | 0 | 0 | 0 | 0 | 37.7 | 237  | 478 | 703 | 887 | 1,017 | 1,094 | 1,108 | 1,057 | 958 | 805 | 589 | 359 | 131 | 2.69 | 0  | 0  | 0  | 0  | 394 | 1,108 | 0   |
| 15          | 0 | 0 | 0 | 0 | 0 | 37.7 | 238  | 471 | 692 | 885 | 1,017 | 1,089 | 1,100 | 1,053 | 954 | 805 | 589 | 359 | 132 | 2.38 | 0  | 0  | 0  | 0  | 393 | 1,100 | 0   |
| 16          | 0 | 0 | 0 | 0 | 0 | 36.7 | 230  | 465 | 693 | 877 | 1,011 | 1,082 | 1,087 | 1,040 | 940 | 791 | 580 | 354 | 131 | 2.78 | 0  | 0  | 0  | 0  | 388 | 1,087 | 0   |
| 17          | 0 | 0 | 0 | 0 | 0 | 31.2 | 212  | 442 | 666 | 850 | 983   | 1,057 | 1,072 | 1,021 | 926 | 775 | 566 | 340 | 125 | 4.48 | 0  | 0  | 0  | 0  | 378 | 1,072 | 0   |
| 18          | 0 | 0 | 0 | 0 | 0 | 31.1 | 193  | 421 | 623 | 798 | 942   | 1,022 | 1,041 | 998   | 909 | 759 | 550 | 331 | 120 | 5.23 | 0  | 0  | 0  | 0  | 364 | 1,041 | 0   |
| 19          | 0 | 0 | 0 | 0 | 0 | 12.7 | 80.1 | 318 | 560 | 559 | 899   | 1,028 | 1,038 | 989   | 893 | 749 | 545 | 356 | 162 | 6.96 | 0  | 0  | 0  | 0  | 341 | 1,038 | 0   |
| 20          | 0 | 0 | 0 | 0 | 0 | 23.7 | 188  | 336 | 614 | 790 | 910   | 986   | 987   | 918   | 633 | 160 | 376 | 232 | 132 | 7.46 | 0  | 0  | 0  | 0  | 304 | 987   | 0   |
| 21          | 0 | 0 | 0 | 0 | 0 | 21.8 | 182  | 404 | 608 | 788 | 926   | 1,000 | 1,014 | 973   | 880 | 735 | 532 | 315 | 121 | 10   | 0  | 0  | 0  | 0  | 355 | 1,014 | 0   |
| 22          | 0 | 0 | 0 | 0 | 0 | 18.9 | 164  | 378 | 606 | 793 | 928   | 1,002 | 1,016 | 973   | 877 | 731 | 533 | 325 | 122 | 6.79 | 0  | 0  | 0  | 0  | 353 | 1,016 | 0   |
| 23          | 0 | 0 | 0 | 0 | 0 | 25.2 | 196  | 420 | 636 | 817 | 946   | 1,021 | 1,034 | 989   | 896 | 747 | 547 | 326 | 123 | 5.48 | 0  | 0  | 0  | 0  | 364 | 1,034 | 0   |
| 24          | 0 | 0 | 0 | 0 | 0 | 18.7 | 118  | 378 | 603 | 784 | 918   | 996   | 1,013 | 972   | 880 | 739 | 539 | 325 | 119 | 6.18 | 0  | 0  | 0  | 0  | 350 | 1,013 | 0   |
| 25          | 0 | 0 | 0 | 0 | 0 | 16.7 | 149  | 198 | 626 | 731 | 930   | 1,033 | 996   | 962   | 873 | 735 | 537 | 331 | 122 | 6.91 | 0  | 0  | 0  | 0  | 344 | 1,033 | 0   |
| 26          | 0 | 0 | 0 | 0 | 0 | 19.5 | 180  | 397 | 609 | 785 | 923   | 1,000 | 1,014 | 970   | 877 | 739 | 541 | 329 | 125 | 6.64 | 0  | 0  | 0  | 0  | 355 | 1,014 | 0   |
| 27          | 0 | 0 | 0 | 0 | 0 | 23.8 | 191  | 415 | 629 | 809 | 944   | 1,031 | 1,049 | 1,010 | 925 | 785 | 579 | 357 | 135 | 4.24 | 0  | 0  | 0  | 0  | 370 | 1,049 | 0   |
| 28          | 0 | 0 | 0 | 0 | 0 | 26   | 201  | 432 | 642 | 812 | 949   | 1,021 | 1,038 | 979   | 868 | 731 | 541 | 334 | 126 | 5.86 | 0  | 0  | 0  | 0  | 363 | 1,038 | 0   |
| 29          | 0 | 0 | 0 | 0 | 0 | 28   | 208  | 438 | 660 | 842 | 975   | 1,051 | 1,062 | 1,013 | 924 | 780 | 568 | 346 | 131 | 5.12 | 0  | 0  | 0  | 0  | 376 | 1,062 | 0   |
| 30          | 0 | 0 | 0 | 0 | 0 | 25.5 | 203  | 431 | 652 | 844 | 981   | 1,059 | 1,074 | 1,023 | 930 | 788 | 580 | 359 | 138 | 3.6  | 0  | 0  | 0  | 0  | 379 | 1,074 | 0   |
| Avg         | 0 | 0 | 0 | 0 | 0 | 27.5 | 191  | 409 | 636 | 813 | 961   | 1,037 | 1,045 | 998   | 896 | 737 | 541 | 327 | 124 | 5.65 | 0  | 0  | 0  | 0  | 364 | --    | --  |
| Max         | 0 | 0 | 0 | 0 | 0 | 37.7 | 238  | 478 | 703 | 887 | 1,019 | 1,098 | 1,114 | 1,057 | 958 | 805 | 589 | 363 | 162 | 12.7 | 0  | 0  | 0  | 0  | --  | 1,114 | --  |
| Min         | 0 | 0 | 0 | 0 | 0 | 12.7 | 80.1 | 198 | 422 | 559 | 899   | 986   | 964   | 918   | 633 | 160 | 376 | 212 | 101 | 1.85 | 0  | 0  | 0  | 0  | --  | --    | 0   |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Apr 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   | 5.1  | 5.3  | 5.0  | 4.1  | 4.2  | 3.4  | 3.5  | 6.1  | 8.8  | 10.3 | 11.6 | 12.1 | 11.9 | 11.6 | 12.2 | 11.6 | 12.8 | 13.0 | 11.7 | 10.1 | 9.3  | 8.9  | 8.3  | 7.9  | 8.7  | 13.0 | 3.4  |
| 2   | 7.4  | 7.5  | 7.4  | 7.3  | 7.7  | 7.0  | 7.5  | 9.3  | 12.7 | 13.5 | 13.3 | 14.3 | 15.8 | 16.5 | 16.9 | 17.5 | 17.6 | 17.3 | 16.6 | 15.9 | 15.4 | 15.2 | 15.2 | 15.3 | 12.9 | 17.6 | 7.0  |
| 3   | 15.1 | 14.8 | 13.7 | 12.3 | 11.5 | 10.5 | 10.7 | 12.1 | 14.3 | 15.0 | 16.0 | 17.3 | 18.7 | 19.3 | 19.5 | 20.0 | 20.0 | 19.7 | 18.9 | 18.3 | 17.3 | 15.3 | 12.3 | 12.7 | 15.6 | 20.0 | 10.5 |
| 4   | 12.5 | 11.5 | 10.9 | 10.3 | 9.8  | 9.4  | 7.7  | 9.1  | 10.3 | 11.4 | 12.8 | 14.3 | 15.5 | 15.9 | 15.9 | 15.8 | 15.7 | 15.9 | 14.9 | 14.3 | 13.9 | 13.9 | 14.4 | 13.9 | 12.9 | 15.9 | 7.7  |
| 5   | 10.3 | 10.2 | 10.9 | 11.3 | 11.2 | 10.7 | 10.4 | 11.5 | 13.2 | 14.4 | 16.6 | 18.2 | 19.6 | 20.7 | 21.3 | 21.7 | 22.1 | 21.8 | 20.0 | 18.8 | 17.9 | 17.0 | 16.4 | 15.3 | 15.9 | 22.1 | 10.2 |
| 6   | 15.2 | 15.9 | 15.4 | 15.4 | 14.7 | 14.5 | 14.8 | 15.9 | 17.5 | 19.1 | 21.8 | 23.2 | 23.8 | 24.8 | 25.4 | 25.5 | 25.2 | 23.8 | 22.5 | 21.5 | 20.2 | 20.3 | 18.5 | 17.2 | 19.7 | 25.5 | 14.5 |
| 7   | 17.0 | 16.7 | 15.8 | 15.4 | 15.3 | 15.1 | 14.9 | 15.9 | 19.3 | 21.0 | 21.6 | 22.4 | 23.5 | 24.1 | 23.7 | 23.3 | 23.0 | 22.5 | 21.7 | 20.1 | 18.5 | 17.9 | 16.8 | 17.2 | 19.3 | 24.1 | 14.9 |
| 8   | 16.8 | 16.0 | 15.9 | 15.4 | 14.7 | 14.3 | 14.9 | 15.1 | 17.2 | 19.0 | 20.3 | 20.7 | 21.8 | 22.6 | 22.9 | 21.9 | 21.9 | 20.9 | 19.7 | 18.6 | 17.8 | 17.0 | 16.3 | 15.3 | 18.2 | 22.9 | 14.3 |
| 9   | 15.0 | 14.5 | 13.9 | 13.0 | 12.1 | 11.4 | 10.3 | 12.0 | 14.4 | 14.8 | 16.0 | 16.8 | 17.4 | 18.2 | 18.7 | 18.2 | 18.1 | 17.5 | 16.5 | 15.6 | 15.2 | 14.8 | 13.2 | 12.7 | 15.0 | 18.7 | 10.3 |
| 10  | 11.7 | 10.8 | 10.6 | 10.1 | 10.3 | 10.0 | 9.4  | 12.2 | 15.2 | 17.3 | 18.2 | 19.2 | 20.3 | 21.4 | 21.5 | 21.7 | 21.6 | 20.7 | 19.5 | 18.5 | 17.6 | 15.7 | 15.2 | 14.6 | 16.0 | 21.7 | 9.4  |
| 11  | 13.9 | 13.5 | 13.7 | 13.4 | 11.8 | 11.4 | 10.8 | 14.5 | 18.3 | 20.2 | 21.2 | 23.0 | 23.9 | 24.2 | 24.4 | 24.4 | 23.8 | 22.7 | 21.5 | 20.6 | 20.0 | 17.8 | 16.4 | 16.3 | 18.4 | 24.4 | 10.8 |
| 12  | 16.7 | 17.3 | 16.2 | 16.0 | 14.4 | 13.1 | 13.2 | 15.9 | 18.9 | 20.5 | 22.3 | 23.0 | 24.1 | 24.4 | 24.9 | 25.2 | 24.7 | 24.0 | 22.7 | 21.7 | 21.0 | 18.7 | 17.8 | 18.2 | 19.8 | 25.2 | 13.1 |
| 13  | 17.4 | 17.4 | 17.1 | 16.1 | 15.1 | 14.0 | 14.7 | 17.4 | 19.4 | 21.9 | 23.1 | 24.6 | 25.2 | 25.4 | 25.2 | 24.5 | 24.7 | 24.6 | 23.3 | 22.3 | 21.4 | 20.7 | 19.7 | 19.0 | 20.6 | 25.4 | 14.0 |
| 14  | 18.4 | 17.8 | 15.7 | 14.5 | 14.0 | 13.5 | 13.4 | 16.0 | 19.0 | 20.1 | 21.0 | 21.2 | 22.5 | 22.9 | 23.2 | 23.4 | 23.3 | 22.9 | 22.2 | 21.2 | 20.0 | 19.0 | 18.3 | 17.3 | 19.2 | 23.4 | 13.4 |
| 15  | 16.8 | 15.2 | 13.9 | 12.9 | 12.6 | 12.3 | 12.1 | 15.0 | 18.1 | 19.7 | 20.9 | 21.7 | 22.1 | 22.9 | 23.4 | 23.4 | 23.3 | 22.6 | 21.3 | 20.2 | 19.5 | 18.9 | 19.2 | 17.2 | 18.5 | 23.4 | 12.1 |
| 16  | 16.1 | 15.6 | 15.4 | 14.2 | 14.2 | 14.1 | 13.8 | 15.8 | 19.2 | 21.2 | 21.7 | 22.5 | 24.0 | 24.5 | 24.7 | 25.0 | 24.4 | 23.4 | 22.2 | 21.2 | 19.1 | 19.3 | 20.2 | 19.8 | 19.7 | 25.0 | 13.8 |
| 17  | 18.0 | 16.3 | 16.9 | 15.3 | 15.8 | 15.1 | 14.5 | 16.8 | 19.6 | 20.7 | 21.6 | 22.2 | 23.6 | 24.3 | 24.6 | 24.9 | 24.6 | 23.6 | 22.7 | 21.8 | 21.1 | 18.9 | 18.2 | 18.2 | 20.0 | 24.9 | 14.5 |
| 18  | 17.9 | 16.9 | 16.9 | 16.3 | 15.9 | 15.2 | 14.7 | 17.4 | 20.3 | 21.2 | 22.1 | 23.4 | 24.2 | 24.7 | 25.0 | 25.3 | 25.4 | 25.1 | 24.0 | 22.9 | 21.9 | 21.4 | 20.6 | 19.9 | 20.8 | 25.4 | 14.7 |
| 19  | 19.4 | 19.2 | 18.6 | 18.0 | 16.1 | 16.7 | 15.6 | 17.2 | 19.5 | 20.1 | 21.3 | 22.5 | 22.9 | 23.7 | 24.1 | 24.1 | 24.0 | 23.3 | 22.2 | 21.5 | 20.4 | 19.5 | 17.9 | 16.8 | 20.2 | 24.1 | 15.6 |
| 20  | 16.7 | 16.0 | 15.6 | 15.3 | 14.9 | 14.6 | 14.5 | 17.0 | 18.7 | 20.0 | 21.2 | 22.3 | 23.1 | 23.8 | 24.1 | 24.3 | 24.2 | 23.4 | 22.4 | 21.6 | 20.8 | 20.6 | 20.2 | 19.8 | 19.8 | 24.3 | 14.5 |
| 21  | 19.7 | 18.1 | 15.9 | 15.5 | 14.6 | 13.3 | 14.1 | 17.5 | 20.8 | 22.7 | 22.9 | 23.6 | 24.5 | 25.0 | 25.5 | 25.6 | 25.4 | 24.8 | 23.5 | 22.7 | 22.2 | 21.7 | 21.2 | 20.3 | 20.9 | 25.6 | 13.3 |
| 22  | 18.6 | 17.8 | 17.3 | 16.3 | 15.4 | 14.5 | 15.1 | 18.4 | 20.8 | 23.3 | 24.2 | 25.1 | 26.0 | 26.7 | 27.6 | 28.0 | 27.6 | 27.1 | 25.7 | 24.5 | 23.4 | 22.4 | 21.7 | 20.0 | 22.0 | 28.0 | 14.5 |
| 23  | 19.8 | 18.9 | 18.8 | 17.7 | 16.9 | 16.0 | 16.0 | 17.6 | 19.8 | 22.3 | 23.5 | 25.2 | 26.3 | 27.6 | 28.8 | 29.1 | 28.0 | 27.1 | 26.4 | 25.6 | 24.7 | 23.5 | 22.2 | 21.4 | 22.6 | 29.1 | 16.0 |
| 24  | 20.6 | 19.8 | 19.3 | 19.0 | 18.4 | 16.9 | 17.7 | 19.7 | 20.7 | 21.6 | 22.7 | 23.5 | 24.2 | 24.7 | 24.3 | 24.2 | 23.7 | 23.1 | 22.2 | 21.4 | 21.0 | 20.4 | 19.4 | 18.4 | 21.1 | 24.7 | 16.9 |
| 25  | 17.7 | 17.0 | 16.5 | 16.1 | 15.4 | 14.4 | 14.0 | 14.3 | 14.7 | 15.6 | 16.5 | 17.1 | 17.5 | 19.0 | 19.3 | 19.8 | 19.8 | 19.5 | 19.1 | 18.7 | 18.3 | 17.6 | 16.9 | 16.5 | 17.1 | 19.8 | 14.0 |
| 26  | 16.8 | 15.9 | 13.6 | 12.2 | 12.4 | 11.3 | 11.4 | 14.6 | 16.4 | 17.5 | 18.2 | 19.7 | 20.6 | 21.6 | 21.6 | 21.8 | 21.6 | 21.1 | 20.6 | 20.1 | 19.7 | 19.8 | 19.2 | 18.9 | 17.8 | 21.8 | 11.3 |
| 27  | 18.6 | 17.8 | 16.6 | 16.3 | 16.3 | 16.0 | 16.0 | 16.3 | 17.4 | 18.6 | 20.0 | 21.0 | 21.9 | 22.6 | 22.8 | 22.4 | 22.1 | 21.8 | 21.3 | 20.8 | 20.2 | 20.1 | 19.7 | 19.3 | 19.4 | 22.8 | 16.0 |
| 28  | 19.0 | 17.5 | 16.8 | 16.4 | 16.0 | 15.4 | 15.2 | 15.5 | 16.1 | 16.0 | 16.3 | 16.0 | 16.0 | 17.4 | 18.9 | 19.4 | 19.6 | 19.3 | 17.4 | 15.7 | 14.5 | 13.4 | 12.1 | 11.1 | 16.3 | 19.6 | 11.1 |
| 29  | 10.4 | 8.7  | 7.6  | 8.6  | 8.5  | 8.1  | 8.7  | 10.2 | 11.7 | 12.8 | 13.5 | 14.4 | 15.7 | 15.9 | 15.9 | 16.1 | 17.0 | 16.5 | 15.7 | 15.4 | 14.9 | 14.4 | 13.0 | 11.8 | 12.7 | 17.0 | 7.6  |
| 30  | 10.8 | 11.1 | 10.5 | 10.0 | 10.7 | 10.5 | 11.2 | 14.2 | 16.8 | 18.0 | 18.3 | 19.3 | 19.8 | 20.7 | 20.9 | 21.6 | 21.1 | 20.7 | 19.5 | 18.8 | 18.4 | 18.1 | 18.3 | 18.1 | 16.5 | 21.6 | 10.0 |
| Avg | 15.6 | 15.0 | 14.4 | 13.8 | 13.4 | 12.8 | 12.7 | 14.7 | 17.0 | 18.3 | 19.4 | 20.3 | 21.2 | 21.9 | 22.2 | 22.3 | 22.2 | 21.7 | 20.6 | 19.7 | 18.9 | 18.1 | 17.3 | 16.7 | 17.9 | --   | --   |
| Max | 20.6 | 19.8 | 19.3 | 19.0 | 18.4 | 16.9 | 17.7 | 19.7 | 20.8 | 23.3 | 24.2 | 25.2 | 26.3 | 27.6 | 28.8 | 29.1 | 28.0 | 27.1 | 26.4 | 25.6 | 24.7 | 23.5 | 22.2 | 21.4 | --   | 29.1 | --   |
| Min | 5.1  | 5.3  | 5.0  | 4.1  | 4.2  | 3.4  | 3.5  | 6.1  | 8.8  | 10.3 | 11.6 | 12.1 | 11.9 | 11.6 | 12.2 | 11.6 | 12.8 | 13.0 | 11.7 | 10.1 | 9.3  | 8.9  | 8.3  | 7.9  | --   | --   | 3.4  |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: May 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   | 17.0 | 15.5 | 14.8 | 14.6 | 14.2 | 13.7 | 14.0 | 16.9 | 19.5 | 20.4 | 21.5 | 22.6 | 23.4 | 24.0 | 24.4 | 24.6 | 24.6 | 24.2 | 23.1 | 22.3 | 21.8 | 21.6 | 21.6 | 21.3 | 20.1 | 24.6 | 13.7 |
| 2   | 21.1 | 20.7 | 17.8 | 17.4 | 16.9 | 16.4 | 16.5 | 18.9 | 21.6 | 21.8 | 23.2 | 24.5 | 25.6 | 25.8 | 25.8 | 26.1 | 25.9 | 25.4 | 24.6 | 23.9 | 23.1 | 23.0 | 22.8 | 22.8 | 22.2 | 26.1 | 16.4 |
| 3   | 22.6 | 21.7 | 19.9 | 18.3 | 17.2 | 16.3 | 19.0 | 21.3 | 23.2 | 24.4 | 25.9 | 26.5 | 27.1 | 28.2 | 28.5 | 28.8 | 29.3 | 29.1 | 27.5 | 26.0 | 25.4 | 25.0 | 23.6 | 21.5 | 24.0 | 29.3 | 16.3 |
| 4   | 21.8 | 20.6 | 20.0 | 19.5 | 18.9 | 18.8 | 19.4 | 23.4 | 25.2 | 26.2 | 27.5 | 29.4 | 30.2 | 30.8 | 31.0 | 31.3 | 30.9 | 30.3 | 29.0 | 27.9 | 26.7 | 24.7 | 23.9 | 23.0 | 25.4 | 31.3 | 18.8 |
| 5   | 22.7 | 22.3 | 22.5 | 22.4 | 21.5 | 20.9 | 21.8 | 23.6 | 24.9 | 27.0 | 29.7 | 31.1 | 32.0 | 32.8 | 32.9 | 31.6 | 31.8 | 30.6 | 29.8 | 28.8 | 27.9 | 27.7 | 26.8 | 25.9 | 27.0 | 32.9 | 20.9 |
| 6   | 24.9 | 23.4 | 22.6 | 22.4 | 20.6 | 19.7 | 20.4 | 22.3 | 23.2 | 24.1 | 25.2 | 26.5 | 27.5 | 28.3 | 28.5 | 28.6 | 27.8 | 26.7 | 25.1 | 22.3 | 19.9 | 18.8 | 18.6 | 17.4 | 23.5 | 28.6 | 17.4 |
| 7   | 16.0 | 14.9 | 14.2 | 13.5 | 12.8 | 12.3 | 13.1 | 14.2 | 15.8 | 16.0 | 14.9 | 15.4 | 15.1 | 15.0 | 14.7 | 14.6 | 14.3 | 14.1 | 13.9 | 13.3 | 13.2 | 12.9 | 12.5 | 12.1 | 14.1 | 16.0 | 12.1 |
| 8   | 11.5 | 11.0 | 10.6 | 11.2 | 12.0 | 11.7 | 13.2 | 14.9 | 16.5 | 17.4 | 18.7 | 20.0 | 18.3 | 19.4 | 19.8 | 18.7 | 14.4 | 15.0 | 15.1 | 14.3 | 13.4 | 11.1 | 9.8  | 9.2  | 14.5 | 20.0 | 9.2  |
| 9   | 8.8  | 8.6  | 7.9  | 7.3  | 7.3  | 8.0  | 8.3  | 8.5  | 8.8  | 9.2  | 10.1 | 11.9 | 12.9 | 13.6 | 13.1 | 13.5 | 11.1 | 10.7 | 10.6 | 10.0 | 9.4  | 9.1  | 9.4  | 9.5  | 9.9  | 13.6 | 7.3  |
| 10  | 9.1  | 9.1  | 9.0  | 8.7  | 8.7  | 8.6  | 9.2  | 9.6  | 10.5 | 11.9 | 13.0 | 13.4 | 13.6 | 14.7 | 16.0 | 16.0 | 16.3 | 16.5 | 15.8 | 15.0 | 14.6 | 14.3 | 13.1 | 13.5 | 12.5 | 16.5 | 8.6  |
| 11  | 13.5 | 12.3 | 12.1 | 12.2 | 11.1 | 11.4 | 12.5 | 15.1 | 16.9 | 17.8 | 19.2 | 20.7 | 22.3 | 22.6 | 22.8 | 23.1 | 23.1 | 23.0 | 22.4 | 21.6 | 21.0 | 20.8 | 20.8 | 20.9 | 18.3 | 23.1 | 11.1 |
| 12  | 21.0 | 20.2 | 17.7 | 17.9 | 16.5 | 15.7 | 17.5 | 21.1 | 23.8 | 24.9 | 25.9 | 26.8 | 27.4 | 28.4 | 28.8 | 28.6 | 28.2 | 27.3 | 26.2 | 25.2 | 24.4 | 23.9 | 23.4 | 21.8 | 23.4 | 28.8 | 15.7 |
| 13  | 21.8 | 21.5 | 20.3 | 19.7 | 18.8 | 18.1 | 18.2 | 20.2 | 21.9 | 22.9 | 24.5 | 26.0 | 26.7 | 26.9 | 27.3 | 27.9 | 27.7 | 27.2 | 26.1 | 24.6 | 23.0 | 21.9 | 21.3 | 20.7 | 23.1 | 27.9 | 18.1 |
| 14  | 20.1 | 19.2 | 18.9 | 18.2 | 17.9 | 16.8 | 17.4 | 19.5 | 20.2 | 20.9 | 22.2 | 23.4 | 23.9 | 23.8 | 24.3 | 24.6 | 23.8 | 24.2 | 24.1 | 23.1 | 21.2 | 20.0 | 19.2 | 18.2 | 21.0 | 24.6 | 16.8 |
| 15  | 17.2 | 16.5 | 15.9 | 14.0 | 13.5 | 13.1 | 14.7 | 17.0 | 18.3 | 19.4 | 20.6 | 22.0 | 23.0 | 23.3 | 22.9 | 22.7 | 21.7 | 20.4 | 18.8 | 17.7 | 16.7 | 15.8 | 15.0 | 14.1 | 18.1 | 23.3 | 13.1 |
| 16  | 13.3 | 12.6 | 11.4 | 10.5 | 9.7  | 9.6  | 9.5  | 9.7  | 11.0 | 11.6 | 12.3 | 13.1 | 14.3 | 15.3 | 15.2 | 15.9 | 16.2 | 15.8 | 15.0 | 14.1 | 13.4 | 12.9 | 12.3 | 12.7 | 12.8 | 16.2 | 9.5  |
| 17  | 12.4 | 11.8 | 10.6 | 11.1 | 10.0 | 9.7  | 10.9 | 12.7 | 13.9 | 15.0 | 16.5 | 17.9 | 18.6 | 19.9 | 20.0 | 20.5 | 20.6 | 20.7 | 20.1 | 19.1 | 18.4 | 17.6 | 16.7 | 16.3 | 15.9 | 20.7 | 9.7  |
| 18  | 15.6 | 15.0 | 14.6 | 14.4 | 13.7 | 13.2 | 13.3 | 14.1 | 15.3 | 16.8 | 17.7 | 19.0 | 19.6 | 20.1 | 20.2 | 20.5 | 20.6 | 20.1 | 19.2 | 18.2 | 17.3 | 16.6 | 16.3 | 15.7 | 17.0 | 20.6 | 13.2 |
| 19  | 15.3 | 15.1 | 14.1 | 11.5 | 10.5 | 9.9  | 10.3 | 11.6 | 13.5 | 15.5 | 17.1 | 19.0 | 20.1 | 21.4 | 21.7 | 22.2 | 22.3 | 21.8 | 20.6 | 19.4 | 19.0 | 17.6 | 16.9 | 16.3 | 16.8 | 22.3 | 9.9  |
| 20  | 16.3 | 16.4 | 16.2 | 16.2 | 15.9 | 16.0 | 17.0 | 18.4 | 19.5 | 21.1 | 22.9 | 24.4 | 25.2 | 25.6 | 26.1 | 26.3 | 26.7 | 26.3 | 25.2 | 23.7 | 22.9 | 21.8 | 20.1 | 19.9 | 21.3 | 26.7 | 15.9 |
| 21  | 21.2 | 20.9 | 20.5 | 18.8 | 18.4 | 19.3 | 20.4 | 21.9 | 23.9 | 25.5 | 27.0 | 27.7 | 28.5 | 29.3 | 29.5 | 29.4 | 29.3 | 28.7 | 27.6 | 26.5 | 25.7 | 25.4 | 25.4 | 25.5 | 24.8 | 29.5 | 18.4 |
| 22  | 25.4 | 25.1 | 23.9 | 21.3 | 19.2 | 19.1 | 21.1 | 24.2 | 26.0 | 27.6 | 29.0 | 29.8 | 30.6 | 30.6 | 31.0 | 31.2 | 30.6 | 29.9 | 29.2 | 28.3 | 27.5 | 27.4 | 27.1 | 26.5 | 26.7 | 31.2 | 19.1 |
| 23  | 23.3 | 22.9 | 21.8 | 22.5 | 21.1 | 20.3 | 21.7 | 24.8 | 26.8 | 28.4 | 29.6 | 29.8 | 30.7 | 30.9 | 31.5 | 31.5 | 31.2 | 30.8 | 29.7 | 28.6 | 27.9 | 27.4 | 25.0 | 23.8 | 26.8 | 31.5 | 20.3 |
| 24  | 23.6 | 24.1 | 23.3 | 22.3 | 21.1 | 21.3 | 21.9 | 24.6 | 26.8 | 28.0 | 28.8 | 30.2 | 31.1 | 31.7 | 32.0 | 31.9 | 31.8 | 31.1 | 30.4 | 29.6 | 28.6 | 27.7 | 26.8 | 25.7 | 27.3 | 32.0 | 21.1 |
| 25  | 24.8 | 23.6 | 23.1 | 22.7 | 22.4 | 21.7 | 21.9 | 22.3 | 23.0 | 23.8 | 24.8 | 26.3 | 26.9 | 27.8 | 28.1 | 27.9 | 28.4 | 28.0 | 27.2 | 26.1 | 25.0 | 23.8 | 22.7 | 21.5 | 24.7 | 28.4 | 21.5 |
| 26  | 20.7 | 20.8 | 20.5 | 19.7 | 18.6 | 18.0 | 18.7 | 20.4 | 21.7 | 22.5 | 23.9 | 24.6 | 25.6 | 26.0 | 26.5 | 26.9 | 26.8 | 26.1 | 25.2 | 24.2 | 23.1 | 21.9 | 20.7 | 19.9 | 22.6 | 26.9 | 18.0 |
| 27  | 18.9 | 18.0 | 16.8 | 16.0 | 15.6 | 15.8 | 17.1 | 19.8 | 21.6 | 23.0 | 24.5 | 24.8 | 26.5 | 26.9 | 27.3 | 27.4 | 27.3 | 26.8 | 25.8 | 24.6 | 24.0 | 23.8 | 23.5 | 22.2 | 22.4 | 27.4 | 15.6 |
| 28  | 22.2 | 21.6 | 20.3 | 19.0 | 19.1 | 18.2 | 19.7 | 23.4 | 25.6 | 25.4 | 26.5 | 27.9 | 29.2 | 29.3 | 29.9 | 29.9 | 29.7 | 29.3 | 28.2 | 27.1 | 26.6 | 25.5 | 23.3 | 22.9 | 25.0 | 29.9 | 18.2 |
| 29  | 22.3 | 22.3 | 21.6 | 21.6 | 19.8 | 20.1 | 22.7 | 24.8 | 26.9 | 27.8 | 29.1 | 30.0 | 30.9 | 31.8 | 32.2 | 32.1 | 30.9 | 30.5 | 29.3 | 28.4 | 27.5 | 25.5 | 24.5 | 24.3 | 26.5 | 32.2 | 19.8 |
| 30  | 24.1 | 22.1 | 22.8 | 23.6 | 21.2 | 20.8 | 22.2 | 24.2 | 25.7 | 26.7 | 28.1 | 29.4 | 30.4 | 30.6 | 30.7 | 30.9 | 30.2 | 29.5 | 28.8 | 23.3 | 21.0 | 21.2 | 21.0 | 20.3 | 25.4 | 30.9 | 20.3 |
| 31  | 19.3 | 18.8 | 19.0 | 19.2 | 19.0 | 18.7 | 19.8 | 22.1 | 24.3 | 26.1 | 27.2 | 28.0 | 29.4 | 29.9 | 29.5 | 30.2 | 29.6 | 29.0 | 28.2 | 27.4 | 26.5 | 24.9 | 23.3 | 22.3 | 24.7 | 30.2 | 18.7 |
| Avg | 19.0 | 18.3 | 17.6 | 17.0 | 16.2 | 15.9 | 16.9 | 18.9 | 20.5 | 21.6 | 22.8 | 23.9 | 24.7 | 25.3 | 25.6 | 25.7 | 25.3 | 24.8 | 23.9 | 22.7 | 21.8 | 21.0 | 20.2 | 19.6 | 21.2 | --   | --   |
| Max | 25.4 | 25.1 | 23.9 | 23.6 | 22.4 | 21.7 | 22.7 | 24.8 | 26.9 | 28.4 | 29.7 | 31.1 | 32.0 | 32.8 | 32.9 | 32.1 | 31.8 | 31.1 | 30.4 | 29.6 | 28.6 | 27.7 | 27.1 | 26.5 | --   | 32.9 | --   |
| Min | 8.8  | 8.6  | 7.9  | 7.3  | 7.3  | 8.0  | 8.3  | 8.5  | 8.8  | 9.2  | 10.1 | 11.9 | 12.9 | 13.6 | 13.1 | 13.5 | 11.1 | 10.7 | 10.6 | 10.0 | 9.4  | 9.1  | 9.4  | 9.2  | --   | --   | 7.3  |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Jun 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   | 21.9 | 21.7 | 21.1 | 20.3 | 19.4 | 19.2 | 19.7 | 21.6 | 23.6 | 24.9 | 26.4 | 27.1 | 28.0 | 28.2 | 28.5 | 28.2 | 28.1 | 28.0 | 27.1 | 25.9 | 25.2 | 24.4 | 23.2 | 22.3 | 24.3 | 28.5 | 19.2 |
| 2   | 21.8 | 21.0 | 20.2 | 19.4 | 18.0 | 17.8 | 19.4 | 22.7 | 25.2 | 26.1 | 26.1 | 27.1 | 28.1 | 29.4 | 29.6 | 29.6 | 30.0 | 29.7 | 28.9 | 28.0 | 27.3 | 27.1 | 25.1 | 24.7 | 25.1 | 30.0 | 17.8 |
| 3   | 24.7 | 25.6 | 23.2 | 22.6 | 21.9 | 21.1 | 22.5 | 25.0 | 27.0 | 27.5 | 28.8 | 30.3 | 31.4 | 32.4 | 32.8 | 33.1 | 32.8 | 32.2 | 31.3 | 30.4 | 30.1 | 29.7 | 29.7 | 29.4 | 28.1 | 33.1 | 21.1 |
| 4   | 28.3 | 26.8 | 26.1 | 24.9 | 23.6 | 22.6 | 22.9 | 25.1 | 27.4 | 28.9 | 29.2 | 30.7 | 32.2 | 33.0 | 33.1 | 33.4 | 33.4 | 32.9 | 32.1 | 30.9 | 30.0 | 29.4 | 29.4 | 29.2 | 29.0 | 33.4 | 22.6 |
| 5   | 28.8 | 28.1 | 27.4 | 25.8 | 25.0 | 24.6 | 25.0 | 26.2 | 27.3 | 28.5 | 29.9 | 31.3 | 32.5 | 32.5 | 33.1 | 33.3 | 33.6 | 32.9 | 32.0 | 31.0 | 30.3 | 29.8 | 29.5 | 28.9 | 29.5 | 33.6 | 24.6 |
| 6   | 27.9 | 27.7 | 25.8 | 24.8 | 24.1 | 23.8 | 23.6 | 26.2 | 26.3 | 27.2 | 28.8 | 30.3 | 31.5 | 32.3 | 32.9 | 33.4 | 33.2 | 32.6 | 31.8 | 30.9 | 30.2 | 29.4 | 28.6 | 28.0 | 28.8 | 33.4 | 23.6 |
| 7   | 27.0 | 25.9 | 25.0 | 24.4 | 23.8 | 24.1 | 25.2 | 26.1 | 26.6 | 27.6 | 29.1 | 31.7 | 33.1 | 33.6 | 33.7 | 33.2 | 33.1 | 32.5 | 31.6 | 30.7 | 29.6 | 28.4 | 26.3 | 25.3 | 28.7 | 33.7 | 23.8 |
| 8   | 24.7 | 23.5 | 23.4 | 23.4 | 22.9 | 22.7 | 24.4 | 25.9 | 27.6 | 28.6 | 29.7 | 30.3 | 31.2 | 31.6 | 31.6 | 31.6 | 31.5 | 30.7 | 30.1 | 29.0 | 28.3 | 27.9 | 27.9 | 28.0 | 27.8 | 31.6 | 22.7 |
| 9   | 27.7 | 26.5 | 24.5 | 23.5 | 23.5 | 25.0 | 24.9 | 26.3 | 26.6 | 27.3 | 29.2 | 30.3 | 31.2 | 31.8 | 31.8 | 31.8 | 32.0 | 31.6 | 30.9 | 29.9 | 29.1 | 28.5 | 27.6 | 26.4 | 28.2 | 32.0 | 23.5 |
| 10  | 25.0 | 24.2 | 23.9 | 23.4 | 22.2 | 21.6 | 21.7 | 22.1 | 24.1 | 25.6 | 27.2 | 28.4 | 28.8 | 29.2 | 29.9 | 30.5 | 30.1 | 30.3 | 29.8 | 28.9 | 27.8 | 26.5 | 25.1 | 24.0 | 26.3 | 30.5 | 21.6 |
| 11  | 22.8 | 21.6 | 20.9 | 19.7 | 19.0 | 18.3 | 19.8 | 22.4 | 23.1 | 24.4 | 26.0 | 27.0 | 28.3 | 29.0 | 29.4 | 29.7 | 29.6 | 29.1 | 27.8 | 26.0 | 24.8 | 23.8 | 22.8 | 21.4 | 24.5 | 29.7 | 18.3 |
| 12  | 20.7 | 19.7 | 19.4 | 18.9 | 18.3 | 17.7 | 18.4 | 19.3 | 20.7 | 21.7 | 22.8 | 23.7 | 24.3 | 24.6 | 25.8 | 26.8 | 26.7 | 26.5 | 25.5 | 23.9 | 22.7 | 21.6 | 21.2 | 20.6 | 22.1 | 26.8 | 17.7 |
| 13  | 19.2 | 18.8 | 18.1 | 16.5 | 15.7 | 15.6 | 17.0 | 20.3 | 21.2 | 22.2 | 23.5 | 25.7 | 26.2 | 27.4 | 28.0 | 28.3 | 28.0 | 27.4 | 26.4 | 25.0 | 24.1 | 23.5 | 23.0 | 20.9 | 22.6 | 28.3 | 15.6 |
| 14  | 20.0 | 19.1 | 18.9 | 19.0 | 18.6 | 16.9 | 19.2 | 23.0 | 26.3 | 27.5 | 28.4 | 29.5 | 30.8 | 31.4 | 32.0 | 32.1 | 31.9 | 31.3 | 30.1 | 28.6 | 27.8 | 26.7 | 23.9 | 23.0 | 25.7 | 32.1 | 16.9 |
| 15  | 24.1 | 24.1 | 24.7 | 21.8 | 20.9 | 20.7 | 22.4 | 25.8 | 28.3 | 28.3 | 29.8 | 31.3 | 32.1 | 33.3 | 33.5 | 33.9 | 33.5 | 32.8 | 31.7 | 30.3 | 29.2 | 26.5 | 27.3 | 27.3 | 28.1 | 33.9 | 20.7 |
| 16  | 27.1 | 25.9 | 26.6 | 26.9 | 23.8 | 23.5 | 25.0 | 26.9 | 28.4 | 29.0 | 30.1 | 31.4 | 32.0 | 33.0 | 33.6 | 33.9 | 33.7 | 33.2 | 32.3 | 31.0 | 30.2 | 29.7 | 29.6 | 29.1 | 29.4 | 33.9 | 23.5 |
| 17  | 27.6 | 26.3 | 25.8 | 26.2 | 25.8 | 25.1 | 25.3 | 26.6 | 27.4 | 28.3 | 29.9 | 31.2 | 32.5 | 33.3 | 33.4 | 33.8 | 33.9 | 33.5 | 32.8 | 31.6 | 31.0 | 30.7 | 30.3 | 30.0 | 29.7 | 33.9 | 25.1 |
| 18  | 29.6 | 29.3 | 28.5 | 26.9 | 26.4 | 26.5 | 27.3 | 27.7 | 28.3 | 28.7 | 30.4 | 32.0 | 33.3 | 34.5 | 35.3 | 35.5 | 35.4 | 35.2 | 34.5 | 33.4 | 32.7 | 32.2 | 31.8 | 31.1 | 31.1 | 35.5 | 26.4 |
| 19  | 30.7 | 31.4 | 30.8 | 30.4 | 30.1 | 29.6 | 28.5 | 29.1 | 31.2 | 32.8 | 36.4 | 38.5 | 38.2 | 39.4 | 39.7 | 39.3 | 39.2 | 38.9 | 38.3 | 36.5 | 34.2 | 33.7 | 32.6 | 32.5 | 34.3 | 39.7 | 28.5 |
| 20  | 32.0 | 31.5 | 31.1 | 30.0 | 29.3 | 29.2 | 30.8 | 32.3 | 34.5 | 36.7 | 38.1 | 39.2 | 39.5 | 40.2 | 40.5 | 38.7 | 39.0 | 38.4 | 36.8 | 35.3 | 33.9 | 32.7 | 32.1 | 31.2 | 34.7 | 40.5 | 29.2 |
| 21  | 30.1 | 29.9 | 29.3 | 29.3 | 28.3 | 27.7 | 28.7 | 32.3 | 35.1 | 35.6 | 36.5 | 37.7 | 38.2 | 38.7 | 39.0 | 39.1 | 38.9 | 38.5 | 37.5 | 36.4 | 35.0 | 34.1 | 33.3 | 32.7 | 34.2 | 39.1 | 27.7 |
| 22  | 31.7 | 30.8 | 29.8 | 29.7 | 28.6 | 27.7 | 27.3 | 27.9 | 29.1 | 30.3 | 31.9 | 33.3 | 34.4 | 35.3 | 35.8 | 36.1 | 35.8 | 35.6 | 34.8 | 33.7 | 33.1 | 32.7 | 31.8 | 30.9 | 32.0 | 36.1 | 27.3 |
| 23  | 29.4 | 27.6 | 27.0 | 26.3 | 25.8 | 24.4 | 25.8 | 27.0 | 28.3 | 29.2 | 31.2 | 32.7 | 33.4 | 34.6 | 35.5 | 35.5 | 35.4 | 35.2 | 34.6 | 33.6 | 33.0 | 32.9 | 32.8 | 32.2 | 31.0 | 35.5 | 24.4 |
| 24  | 31.3 | 30.4 | 30.0 | 28.5 | 27.8 | 28.7 | 27.5 | 29.2 | 32.0 | 34.2 | 35.1 | 35.8 | 37.2 | 37.9 | 38.1 | 38.2 | 38.0 | 37.3 | 36.5 | 35.6 | 35.0 | 34.1 | 32.1 | 30.3 | 33.4 | 38.2 | 27.5 |
| 25  | 30.6 | 29.8 | 28.8 | 27.8 | 27.0 | 26.0 | 26.5 | 27.6 | 29.4 | 31.0 | 33.0 | 34.2 | 35.1 | 36.5 | 36.6 | 37.1 | 36.9 | 36.4 | 35.8 | 33.4 | 30.3 | 29.8 | 29.1 | 28.7 | 31.6 | 37.1 | 26.0 |
| 26  | 27.4 | 26.6 | 26.0 | 25.5 | 25.4 | 24.9 | 25.4 | 26.6 | 28.3 | 29.2 | 30.0 | 31.8 | 33.1 | 34.3 | 35.2 | 35.6 | 35.1 | 35.0 | 34.1 | 33.1 | 32.4 | 31.5 | 29.9 | 30.8 | 30.3 | 35.6 | 24.9 |
| 27  | 30.0 | 28.8 | 27.3 | 27.3 | 26.1 | 25.6 | 26.0 | 28.1 | 29.1 | 30.6 | 32.2 | 33.1 | 33.7 | 34.3 | 34.2 | 34.3 | 34.1 | 33.3 | 32.4 | 31.3 | 30.4 | 29.5 | 29.5 | 27.5 | 30.4 | 34.3 | 25.6 |
| 28  | 27.7 | 27.5 | 26.7 | 26.1 | 23.8 | 23.2 | 24.3 | 26.5 | 27.3 | 28.4 | 29.1 | 30.3 | 30.8 | 31.8 | 32.8 | 33.1 | 32.8 | 32.8 | 32.1 | 31.0 | 30.5 | 29.4 | 28.7 | 26.9 | 28.9 | 33.1 | 23.2 |
| 29  | 27.5 | 26.9 | 25.9 | 24.8 | 23.2 | 22.8 | 23.6 | 25.8 | 26.8 | 27.9 | 29.3 | 30.6 | 31.4 | 31.9 | 32.8 | 33.0 | 33.1 | 32.8 | 32.0 | 30.9 | 29.9 | 28.8 | 27.5 | 27.4 | 28.6 | 33.1 | 22.8 |
| 30  | 26.6 | 25.6 | 25.5 | 24.6 | 22.9 | 22.9 | 23.4 | 26.4 | 27.6 | 28.6 | 30.1 | 32.0 | 32.9 | 33.5 | 33.8 | 33.8 | 34.0 | 33.5 | 32.7 | 31.2 | 29.5 | 27.8 | 26.9 | 25.7 | 28.8 | 34.0 | 22.9 |
| Avg | 26.8 | 26.1 | 25.4 | 24.6 | 23.7 | 23.3 | 24.1 | 25.9 | 27.5 | 28.6 | 29.9 | 31.3 | 32.2 | 33.0 | 33.4 | 33.5 | 33.4 | 33.0 | 32.1 | 30.9 | 29.9 | 29.1 | 28.3 | 27.5 | 28.9 | --   | --   |
| Max | 32.0 | 31.5 | 31.1 | 30.4 | 30.1 | 29.6 | 30.8 | 32.3 | 35.1 | 36.7 | 38.1 | 39.2 | 39.5 | 40.2 | 40.5 | 39.3 | 39.2 | 38.9 | 38.3 | 36.5 | 35.0 | 34.1 | 33.3 | 32.7 | --   | 40.5 | --   |
| Min | 19.2 | 18.8 | 18.1 | 16.5 | 15.7 | 15.6 | 17.0 | 19.3 | 20.7 | 21.7 | 22.8 | 23.7 | 24.3 | 24.6 | 25.8 | 26.8 | 26.7 | 26.5 | 25.5 | 23.9 | 22.7 | 21.6 | 21.2 | 20.6 | --   | --   | 15.6 |



**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Apr 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   | 168 | 182 | 171 | 183 | 181 | 139 | 114 | 96  | 54  | 40  | 24  | 30  | 238 | 231 | 236 | 1   | 80  | 42  | 51  | 76  | 86  | 82  | 111 | 110 | 104 | 238 | 1   |
| 2   | 143 | 114 | 125 | 181 | 220 | 187 | 194 | 161 | 142 | 257 | 255 | 266 | 255 | 238 | 247 | 232 | 251 | 252 | 232 | 1   | 72  | 260 | 267 | 264 | 222 | 267 | 1   |
| 3   | 303 | 265 | 270 | 44  | 169 | 153 | 148 | 71  | 101 | 213 | 260 | 251 | 202 | 223 | 205 | 197 | 210 | 204 | 208 | 201 | 211 | 284 | 32  | 295 | 217 | 303 | 32  |
| 4   | 292 | 288 | 303 | 288 | 284 | 275 | 196 | 181 | 256 | 264 | 255 | 236 | 231 | 259 | 264 | 259 | 268 | 256 | 266 | 296 | 310 | 348 | 331 | 311 | 273 | 348 | 181 |
| 5   | 117 | 86  | 73  | 46  | 38  | 37  | 63  | 75  | 54  | 47  | 46  | 50  | 40  | 81  | 153 | 156 | 233 | 206 | 45  | 57  | 90  | 123 | 134 | 138 | 81  | 233 | 37  |
| 6   | 123 | 74  | 71  | 56  | 74  | 57  | 51  | 53  | 51  | 49  | 47  | 107 | 150 | 159 | 178 | 223 | 303 | 263 | 178 | 244 | 271 | 288 | 224 | 181 | 108 | 303 | 47  |
| 7   | 193 | 171 | 170 | 159 | 178 | 165 | 159 | 160 | 97  | 138 | 256 | 266 | 221 | 228 | 241 | 236 | 217 | 246 | 297 | 354 | 178 | 161 | 132 | 97  | 190 | 354 | 97  |
| 8   | 138 | 178 | 110 | 116 | 91  | 116 | 141 | 106 | 98  | 232 | 230 | 240 | 221 | 200 | 23  | 222 | 213 | 222 | 278 | 84  | 78  | 29  | 85  | 346 | 147 | 346 | 23  |
| 9   | 287 | 283 | 278 | 258 | 256 | 262 | 68  | 112 | 170 | 262 | 250 | 247 | 257 | 281 | 235 | 229 | 253 | 259 | 207 | 207 | 295 | 272 | 231 | 167 | 247 | 295 | 68  |
| 10  | 169 | 158 | 174 | 140 | 144 | 152 | 145 | 114 | 85  | 95  | 129 | 168 | 132 | 322 | 272 | 282 | 222 | 216 | 245 | 258 | 265 | 187 | 159 | 173 | 175 | 322 | 85  |
| 11  | 177 | 162 | 169 | 164 | 157 | 129 | 134 | 107 | 91  | 118 | 115 | 129 | 149 | 161 | 239 | 253 | 236 | 240 | 232 | 278 | 322 | 148 | 177 | 173 | 169 | 322 | 91  |
| 12  | 303 | 313 | 282 | 219 | 184 | 154 | 158 | 154 | 100 | 281 | 279 | 250 | 242 | 239 | 267 | 234 | 248 | 248 | 266 | 262 | 302 | 234 | 201 | 193 | 240 | 313 | 100 |
| 13  | 288 | 99  | 132 | 190 | 162 | 144 | 130 | 154 | 100 | 125 | 130 | 144 | 202 | 225 | 214 | 216 | 190 | 153 | 159 | 317 | 308 | 244 | 270 | 287 | 180 | 317 | 99  |
| 14  | 287 | 272 | 197 | 201 | 176 | 154 | 142 | 128 | 112 | 212 | 218 | 302 | 253 | 228 | 235 | 204 | 196 | 175 | 164 | 270 | 261 | 257 | 268 | 271 | 218 | 302 | 112 |
| 15  | 232 | 292 | 172 | 153 | 156 | 150 | 141 | 114 | 103 | 107 | 189 | 223 | 261 | 265 | 263 | 257 | 243 | 235 | 216 | 220 | 342 | 310 | 298 | 319 | 223 | 342 | 103 |
| 16  | 136 | 175 | 165 | 165 | 158 | 187 | 145 | 133 | 92  | 14  | 264 | 261 | 218 | 251 | 246 | 283 | 239 | 241 | 256 | 344 | 111 | 329 | 291 | 295 | 221 | 344 | 14  |
| 17  | 327 | 140 | 323 | 211 | 217 | 212 | 181 | 122 | 82  | 282 | 250 | 263 | 268 | 228 | 265 | 241 | 225 | 192 | 236 | 126 | 343 | 132 | 181 | 207 | 221 | 343 | 82  |
| 18  | 171 | 181 | 191 | 182 | 177 | 163 | 143 | 102 | 58  | 246 | 257 | 267 | 261 | 274 | 229 | 252 | 227 | 121 | 175 | 358 | 19  | 296 | 61  | 58  | 200 | 358 | 19  |
| 19  | 311 | 278 | 49  | 325 | 60  | 304 | 113 | 94  | 179 | 240 | 273 | 255 | 257 | 305 | 232 | 239 | 220 | 223 | 121 | 302 | 20  | 272 | 189 | 173 | 255 | 325 | 20  |
| 20  | 194 | 172 | 163 | 183 | 158 | 182 | 169 | 176 | 249 | 249 | 292 | 226 | 240 | 258 | 257 | 245 | 232 | 244 | 227 | 41  | 353 | 274 | 281 | 290 | 230 | 353 | 41  |
| 21  | 298 | 354 | 172 | 186 | 174 | 157 | 134 | 99  | 81  | 43  | 338 | 244 | 251 | 235 | 266 | 236 | 231 | 188 | 259 | 289 | 288 | 276 | 266 | 270 | 242 | 354 | 43  |
| 22  | 251 | 171 | 191 | 163 | 151 | 140 | 129 | 113 | 78  | 78  | 196 | 243 | 261 | 258 | 272 | 233 | 233 | 265 | 266 | 247 | 258 | 289 | 275 | 134 | 215 | 289 | 78  |
| 23  | 164 | 157 | 149 | 106 | 69  | 53  | 51  | 53  | 53  | 75  | 109 | 123 | 141 | 194 | 204 | 194 | 208 | 133 | 20  | 267 | 275 | 115 | 134 | 203 | 129 | 275 | 20  |
| 24  | 228 | 238 | 225 | 239 | 228 | 105 | 162 | 193 | 221 | 217 | 220 | 213 | 191 | 172 | 205 | 122 | 169 | 196 | 82  | 91  | 171 | 200 | 217 | 219 | 194 | 239 | 82  |
| 25  | 218 | 216 | 218 | 210 | 219 | 211 | 213 | 190 | 193 | 226 | 218 | 192 | 208 | 252 | 211 | 174 | 182 | 192 | 166 | 139 | 293 | 293 | 297 | 281 | 215 | 297 | 139 |
| 26  | 290 | 306 | 63  | 181 | 186 | 173 | 172 | 104 | 66  | 90  | 250 | 217 | 280 | 218 | 259 | 248 | 238 | 122 | 203 | 162 | 266 | 283 | 220 | 117 | 208 | 306 | 63  |
| 27  | 200 | 222 | 222 | 222 | 225 | 224 | 216 | 225 | 224 | 234 | 237 | 249 | 222 | 210 | 166 | 199 | 202 | 118 | 202 | 359 | 104 | 90  | 99  | 206 | 206 | 359 | 90  |
| 28  | 210 | 224 | 220 | 213 | 191 | 227 | 232 | 111 | 118 | 167 | 186 | 138 | 90  | 139 | 168 | 223 | 163 | 124 | 280 | 295 | 295 | 288 | 6   | 8   | 195 | 295 | 6   |
| 29  | 24  | 93  | 121 | 50  | 40  | 49  | 51  | 43  | 43  | 281 | 220 | 247 | 239 | 260 | 257 | 292 | 280 | 272 | 249 | 252 | 219 | 235 | 132 | 163 | 264 | 292 | 24  |
| 30  | 167 | 141 | 123 | 121 | 130 | 141 | 142 | 103 | 51  | 52  | 299 | 219 | 259 | 242 | 249 | 229 | 227 | 242 | 214 | 258 | 270 | 276 | 290 | 276 | 213 | 299 | 51  |
| Avg | 219 | 193 | 172 | 176 | 168 | 159 | 144 | 120 | 98  | 199 | 239 | 229 | 228 | 233 | 235 | 232 | 225 | 213 | 224 | 287 | 299 | 264 | 223 | 222 | 207 | --  | --  |
| Max | 327 | 354 | 323 | 325 | 284 | 304 | 232 | 225 | 256 | 282 | 338 | 302 | 280 | 322 | 272 | 292 | 303 | 272 | 297 | 359 | 353 | 348 | 331 | 346 | --  | 359 | --  |
| Min | 24  | 74  | 49  | 44  | 38  | 37  | 51  | 43  | 43  | 14  | 24  | 30  | 40  | 81  | 23  | 1   | 80  | 42  | 20  | 1   | 19  | 29  | 6   | 8   | --  | --  | 1   |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: May 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   | 316 | 345 | 168 | 174 | 188 | 158 | 134 | 116 | 103 | 236 | 255 | 267 | 247 | 300 | 251 | 268 | 249 | 266 | 291 | 280 | 278 | 305 | 304 | 283 | 255 | 345 | 103 |
| 2   | 293 | 287 | 133 | 143 | 203 | 169 | 149 | 112 | 88  | 268 | 266 | 262 | 279 | 221 | 268 | 234 | 249 | 214 | 171 | 321 | 344 | 276 | 275 | 279 | 241 | 344 | 88  |
| 3   | 270 | 247 | 277 | 112 | 174 | 140 | 102 | 82  | 57  | 43  | 49  | 338 | 270 | 315 | 274 | 243 | 317 | 7   | 230 | 243 | 269 | 294 | 4   | 148 | 292 | 338 | 4   |
| 4   | 166 | 172 | 156 | 151 | 158 | 151 | 134 | 92  | 83  | 52  | 42  | 44  | 350 | 274 | 264 | 255 | 296 | 227 | 215 | 257 | 229 | 191 | 168 | 167 | 179 | 350 | 42  |
| 5   | 192 | 197 | 181 | 96  | 67  | 60  | 65  | 54  | 49  | 50  | 64  | 113 | 126 | 161 | 197 | 215 | 28  | 101 | 200 | 98  | 198 | 242 | 232 | 222 | 132 | 242 | 28  |
| 6   | 226 | 226 | 234 | 247 | 80  | 49  | 196 | 242 | 216 | 213 | 211 | 200 | 198 | 199 | 206 | 191 | 213 | 196 | 204 | 213 | 227 | 249 | 228 | 232 | 214 | 249 | 49  |
| 7   | 225 | 221 | 248 | 251 | 237 | 242 | 68  | 212 | 202 | 237 | 275 | 258 | 243 | 246 | 283 | 190 | 208 | 209 | 218 | 221 | 221 | 218 | 209 | 227 | 229 | 283 | 68  |
| 8   | 133 | 81  | 111 | 83  | 68  | 55  | 70  | 85  | 76  | 123 | 146 | 173 | 274 | 256 | 172 | 345 | 244 | 230 | 273 | 265 | 245 | 235 | 273 | 213 | 170 | 345 | 55  |
| 9   | 246 | 119 | 234 | 96  | 128 | 215 | 205 | 245 | 237 | 251 | 257 | 205 | 241 | 264 | 281 | 295 | 97  | 136 | 89  | 125 | 136 | 102 | 249 | 261 | 207 | 295 | 89  |
| 10  | 218 | 245 | 260 | 240 | 216 | 176 | 120 | 275 | 265 | 250 | 257 | 255 | 262 | 237 | 251 | 251 | 279 | 271 | 240 | 263 | 273 | 284 | 34  | 269 | 252 | 284 | 34  |
| 11  | 299 | 74  | 125 | 206 | 182 | 199 | 160 | 120 | 315 | 265 | 261 | 278 | 236 | 243 | 268 | 265 | 271 | 261 | 262 | 272 | 273 | 286 | 280 | 291 | 254 | 315 | 74  |
| 12  | 324 | 349 | 155 | 225 | 175 | 150 | 123 | 77  | 54  | 90  | 140 | 142 | 165 | 118 | 184 | 270 | 214 | 236 | 176 | 162 | 305 | 288 | 285 | 37  | 169 | 349 | 37  |
| 13  | 13  | 267 | 242 | 262 | 244 | 242 | 100 | 86  | 62  | 203 | 186 | 204 | 210 | 227 | 205 | 203 | 178 | 204 | 195 | 217 | 224 | 229 | 226 | 217 | 213 | 267 | 13  |
| 14  | 213 | 201 | 198 | 194 | 209 | 166 | 99  | 188 | 193 | 200 | 195 | 179 | 191 | 201 | 165 | 230 | 146 | 182 | 209 | 201 | 224 | 264 | 265 | 209 | 198 | 265 | 99  |
| 15  | 177 | 289 | 308 | 153 | 178 | 193 | 176 | 191 | 195 | 197 | 203 | 197 | 193 | 210 | 189 | 192 | 174 | 149 | 183 | 191 | 201 | 213 | 223 | 226 | 196 | 308 | 149 |
| 16  | 228 | 226 | 231 | 230 | 232 | 231 | 251 | 240 | 235 | 207 | 185 | 263 | 244 | 261 | 226 | 197 | 203 | 221 | 248 | 144 | 92  | 100 | 173 | 277 | 221 | 277 | 92  |
| 17  | 332 | 343 | 122 | 222 | 167 | 179 | 94  | 158 | 186 | 203 | 208 | 184 | 254 | 221 | 234 | 206 | 209 | 198 | 158 | 49  | 153 | 183 | 162 | 119 | 184 | 343 | 49  |
| 18  | 15  | 264 | 229 | 113 | 263 | 264 | 268 | 264 | 251 | 239 | 262 | 236 | 258 | 249 | 215 | 259 | 156 | 267 | 191 | 305 | 74  | 78  | 9   | 280 | 254 | 305 | 9   |
| 19  | 286 | 334 | 356 | 47  | 54  | 41  | 38  | 39  | 41  | 49  | 29  | 32  | 37  | 48  | 4   | 270 | 221 | 289 | 290 | 258 | 268 | 21  | 47  | 52  | 9   | 356 | 4   |
| 20  | 46  | 43  | 43  | 37  | 38  | 41  | 48  | 54  | 55  | 59  | 57  | 36  | 57  | 69  | 22  | 116 | 278 | 224 | 260 | 282 | 267 | 335 | 155 | 73  | 41  | 335 | 22  |
| 21  | 34  | 31  | 35  | 112 | 96  | 59  | 51  | 44  | 50  | 44  | 16  | 278 | 255 | 266 | 279 | 241 | 230 | 235 | 215 | 264 | 269 | 279 | 310 | 320 | 324 | 320 | 16  |
| 22  | 321 | 306 | 295 | 166 | 132 | 139 | 92  | 60  | 53  | 44  | 38  | 1   | 208 | 264 | 248 | 305 | 265 | 219 | 272 | 292 | 289 | 310 | 311 | 284 | 297 | 321 | 1   |
| 23  | 147 | 86  | 128 | 107 | 63  | 67  | 96  | 71  | 50  | 47  | 42  | 330 | 291 | 255 | 218 | 226 | 225 | 203 | 215 | 199 | 273 | 273 | 199 | 159 | 160 | 330 | 42  |
| 24  | 160 | 147 | 144 | 215 | 149 | 152 | 108 | 89  | 102 | 245 | 260 | 267 | 263 | 275 | 231 | 217 | 201 | 183 | 227 | 341 | 92  | 142 | 215 | 216 | 192 | 341 | 89  |
| 25  | 222 | 214 | 218 | 194 | 205 | 221 | 224 | 222 | 217 | 214 | 232 | 165 | 209 | 196 | 212 | 205 | 194 | 140 | 198 | 213 | 216 | 218 | 217 | 220 | 209 | 232 | 140 |
| 26  | 235 | 229 | 226 | 225 | 231 | 246 | 245 | 198 | 200 | 216 | 210 | 211 | 202 | 219 | 205 | 185 | 189 | 202 | 188 | 211 | 215 | 220 | 226 | 255 | 216 | 255 | 185 |
| 27  | 244 | 190 | 22  | 152 | 160 | 180 | 115 | 83  | 114 | 124 | 67  | 279 | 233 | 277 | 244 | 258 | 258 | 252 | 176 | 148 | 290 | 303 | 331 | 5   | 216 | 331 | 5   |
| 28  | 1   | 312 | 336 | 139 | 178 | 179 | 163 | 97  | 43  | 262 | 260 | 227 | 178 | 279 | 302 | 273 | 253 | 269 | 229 | 247 | 299 | 313 | 157 | 199 | 247 | 336 | 1   |
| 29  | 191 | 138 | 145 | 212 | 156 | 105 | 59  | 53  | 77  | 123 | 148 | 134 | 149 | 146 | 144 | 297 | 229 | 218 | 287 | 283 | 298 | 186 | 182 | 112 | 159 | 298 | 53  |
| 30  | 126 | 99  | 97  | 100 | 76  | 68  | 67  | 97  | 101 | 110 | 123 | 140 | 164 | 287 | 274 | 251 | 243 | 220 | 310 | 64  | 44  | 49  | 54  | 63  | 94  | 310 | 44  |
| 31  | 76  | 81  | 74  | 54  | 51  | 52  | 51  | 60  | 46  | 88  | 123 | 155 | 135 | 204 | 226 | 313 | 254 | 215 | 199 | 144 | 249 | 263 | 265 | 250 | 124 | 313 | 46  |
| Avg | 244 | 238 | 186 | 164 | 160 | 154 | 112 | 105 | 94  | 184 | 202 | 222 | 225 | 241 | 236 | 242 | 228 | 219 | 221 | 235 | 251 | 258 | 244 | 236 | 215 | --  | --  |
| Max | 332 | 349 | 356 | 262 | 263 | 264 | 268 | 275 | 315 | 268 | 275 | 338 | 350 | 315 | 302 | 345 | 317 | 289 | 310 | 341 | 344 | 335 | 331 | 320 | --  | 356 | --  |
| Min | 1   | 31  | 22  | 37  | 38  | 41  | 38  | 39  | 41  | 43  | 16  | 1   | 37  | 48  | 4   | 116 | 28  | 7   | 89  | 49  | 44  | 21  | 4   | 5   | --  | --  | 1   |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Jun 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           | 251 | 291 | 283 | 246 | 141 | 135 | 135 | 73  | 98  | 125 | 150 | 205 | 224 | 230 | 257 | 283 | 271 | 253 | 221 | 247 | 278 | 290 | 249 | 260 | 233 | 291 | 73  |
| 2           | 270 | 272 | 276 | 281 | 242 | 159 | 109 | 61  | 48  | 335 | 256 | 261 | 277 | 250 | 263 | 262 | 268 | 239 | 237 | 272 | 276 | 283 | 135 | 83  | 263 | 335 | 48  |
| 3           | 34  | 307 | 181 | 188 | 202 | 150 | 133 | 92  | 144 | 262 | 266 | 259 | 264 | 228 | 234 | 254 | 237 | 233 | 248 | 289 | 300 | 300 | 329 | 311 | 247 | 329 | 34  |
| 4           | 281 | 265 | 241 | 256 | 274 | 269 | 224 | 63  | 84  | 341 | 276 | 277 | 266 | 240 | 275 | 255 | 256 | 240 | 250 | 273 | 272 | 280 | 302 | 299 | 270 | 341 | 63  |
| 5           | 289 | 295 | 274 | 264 | 276 | 279 | 281 | 266 | 270 | 275 | 263 | 268 | 247 | 301 | 263 | 270 | 240 | 237 | 255 | 271 | 285 | 300 | 320 | 317 | 275 | 320 | 237 |
| 6           | 308 | 280 | 268 | 280 | 286 | 279 | 71  | 307 | 268 | 271 | 266 | 257 | 264 | 266 | 280 | 260 | 257 | 252 | 286 | 287 | 287 | 280 | 272 | 285 | 277 | 308 | 71  |
| 7           | 257 | 273 | 269 | 265 | 286 | 284 | 286 | 269 | 271 | 266 | 270 | 297 | 256 | 291 | 244 | 199 | 222 | 274 | 269 | 291 | 241 | 288 | 140 | 87  | 265 | 297 | 87  |
| 8           | 96  | 93  | 79  | 78  | 80  | 128 | 115 | 69  | 174 | 200 | 241 | 290 | 251 | 242 | 278 | 242 | 262 | 239 | 277 | 293 | 301 | 310 | 319 | 297 | 257 | 319 | 69  |
| 9           | 301 | 321 | 153 | 145 | 164 | 279 | 247 | 257 | 274 | 272 | 257 | 253 | 271 | 256 | 273 | 268 | 191 | 277 | 324 | 287 | 296 | 308 | 269 | 282 | 267 | 324 | 145 |
| 10          | 91  | 74  | 320 | 233 | 219 | 247 | 225 | 259 | 208 | 204 | 197 | 196 | 216 | 217 | 195 | 184 | 207 | 182 | 174 | 199 | 217 | 214 | 227 | 230 | 210 | 320 | 74  |
| 11          | 224 | 215 | 201 | 199 | 218 | 96  | 149 | 187 | 201 | 201 | 208 | 200 | 220 | 201 | 213 | 217 | 213 | 211 | 202 | 245 | 187 | 209 | 216 | 214 | 204 | 245 | 96  |
| 12          | 227 | 232 | 225 | 224 | 231 | 228 | 240 | 240 | 228 | 225 | 238 | 230 | 226 | 249 | 228 | 211 | 244 | 205 | 189 | 226 | 256 | 273 | 295 | 247 | 234 | 295 | 189 |
| 13          | 14  | 294 | 244 | 188 | 149 | 160 | 100 | 37  | 266 | 270 | 266 | 248 | 258 | 265 | 242 | 283 | 229 | 238 | 233 | 259 | 275 | 289 | 293 | 305 | 259 | 305 | 14  |
| 14          | 197 | 40  | 173 | 172 | 185 | 179 | 140 | 95  | 57  | 62  | 284 | 263 | 272 | 257 | 270 | 307 | 245 | 249 | 243 | 263 | 265 | 306 | 151 | 204 | 230 | 307 | 40  |
| 15          | 270 | 36  | 343 | 112 | 184 | 197 | 155 | 108 | 341 | 276 | 264 | 250 | 286 | 243 | 305 | 270 | 249 | 254 | 216 | 256 | 313 | 227 | 353 | 359 | 267 | 359 | 36  |
| 16          | 343 | 298 | 276 | 282 | 171 | 187 | 170 | 180 | 253 | 266 | 272 | 275 | 276 | 244 | 273 | 230 | 251 | 343 | 341 | 20  | 314 | 286 | 291 | 273 | 272 | 343 | 20  |
| 17          | 263 | 269 | 269 | 289 | 272 | 267 | 264 | 254 | 243 | 266 | 267 | 272 | 251 | 249 | 273 | 253 | 232 | 255 | 257 | 258 | 276 | 298 | 300 | 300 | 266 | 300 | 232 |
| 18          | 292 | 283 | 284 | 272 | 273 | 278 | 289 | 270 | 258 | 267 | 270 | 269 | 258 | 254 | 258 | 250 | 269 | 268 | 263 | 272 | 278 | 265 | 274 | 273 | 270 | 292 | 250 |
| 19          | 276 | 311 | 318 | 273 | 279 | 268 | 267 | 21  | 73  | 77  | 54  | 28  | 266 | 242 | 272 | 272 | 252 | 237 | 257 | 128 | 113 | 91  | 62  | 296 | 293 | 318 | 21  |
| 20          | 53  | 77  | 89  | 70  | 77  | 74  | 58  | 54  | 51  | 55  | 32  | 356 | 317 | 235 | 294 | 279 | 273 | 351 | 57  | 77  | 112 | 116 | 107 | 133 | 57  | 356 | 32  |
| 21          | 146 | 164 | 120 | 164 | 153 | 165 | 147 | 83  | 85  | 263 | 253 | 250 | 270 | 248 | 271 | 269 | 310 | 235 | 259 | 256 | 201 | 260 | 270 | 262 | 225 | 310 | 83  |
| 22          | 247 | 283 | 232 | 246 | 229 | 246 | 234 | 234 | 219 | 271 | 247 | 256 | 237 | 244 | 267 | 222 | 252 | 255 | 268 | 281 | 285 | 283 | 262 | 270 | 253 | 285 | 219 |
| 23          | 265 | 270 | 268 | 233 | 263 | 300 | 273 | 254 | 254 | 270 | 270 | 263 | 268 | 263 | 235 | 269 | 241 | 245 | 267 | 271 | 285 | 295 | 302 | 291 | 267 | 302 | 233 |
| 24          | 269 | 269 | 283 | 26  | 216 | 266 | 58  | 101 | 132 | 140 | 210 | 311 | 276 | 264 | 275 | 253 | 249 | 266 | 271 | 264 | 295 | 353 | 179 | 132 | 259 | 353 | 26  |
| 25          | 110 | 114 | 113 | 96  | 81  | 53  | 57  | 67  | 92  | 97  | 112 | 145 | 133 | 188 | 254 | 306 | 261 | 290 | 302 | 5   | 41  | 39  | 76  | 77  | 82  | 306 | 5   |
| 26          | 89  | 78  | 82  | 85  | 106 | 108 | 94  | 106 | 120 | 257 | 273 | 249 | 260 | 244 | 245 | 244 | 247 | 242 | 214 | 278 | 306 | 47  | 26  | 225 | 208 | 306 | 26  |
| 27          | 234 | 202 | 77  | 188 | 200 | 102 | 133 | 117 | 207 | 221 | 179 | 217 | 201 | 203 | 220 | 188 | 185 | 277 | 227 | 71  | 352 | 167 | 230 | 71  | 188 | 352 | 71  |
| 28          | 250 | 232 | 326 | 253 | 90  | 197 | 128 | 196 | 230 | 223 | 228 | 203 | 309 | 241 | 244 | 203 | 220 | 189 | 200 | 155 | 267 | 34  | 304 | 48  | 225 | 326 | 34  |
| 29          | 227 | 234 | 233 | 244 | 216 | 245 | 132 | 209 | 216 | 255 | 274 | 263 | 281 | 265 | 268 | 251 | 280 | 276 | 285 | 294 | 343 | 13  | 158 | 212 | 252 | 343 | 13  |
| 30          | 237 | 280 | 262 | 246 | 137 | 192 | 117 | 20  | 313 | 286 | 267 | 253 | 281 | 266 | 281 | 271 | 251 | 246 | 236 | 254 | 248 | 199 | 198 | 173 | 248 | 313 | 20  |
| Avg         | 263 | 278 | 255 | 229 | 205 | 212 | 155 | 113 | 215 | 255 | 252 | 256 | 259 | 246 | 259 | 252 | 246 | 250 | 251 | 269 | 280 | 289 | 271 | 271 | 252 | --  | --  |
| Max         | 343 | 321 | 343 | 289 | 286 | 300 | 289 | 307 | 341 | 341 | 284 | 356 | 317 | 301 | 305 | 307 | 310 | 351 | 341 | 294 | 352 | 353 | 353 | 359 | --  | 359 | --  |
| Min         | 14  | 36  | 77  | 26  | 77  | 53  | 57  | 20  | 48  | 55  | 32  | 28  | 133 | 188 | 195 | 184 | 185 | 182 | 57  | 5   | 41  | 13  | 26  | 48  | --  | --  | 5   |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Apr 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           | 0.6 | 1.0 | 1.0 | 1.4 | 1.2 | 1.7 | 1.6 | 3.0 | 4.7 | 5.0 | 2.9 | 1.9 | 2.2 | 2.6 | 2.9 | 4.1 | 1.7 | 3.6 | 2.3 | 1.7 | 1.2 | 0.9 | 0.7 | 0.7 | 2.1 | 5.0 | 0.6 |
| 2           | 0.9 | 1.0 | 0.8 | 1.2 | 1.2 | 1.2 | 1.1 | 1.0 | 1.1 | 2.9 | 3.7 | 3.3 | 2.8 | 3.4 | 3.5 | 2.9 | 3.4 | 2.6 | 2.1 | 1.5 | 1.1 | 0.8 | 2.0 | 1.9 | 2.0 | 3.7 | 0.8 |
| 3           | 1.9 | 1.6 | 1.2 | 0.8 | 0.7 | 0.3 | 0.4 | 0.6 | 1.3 | 2.1 | 1.7 | 2.7 | 3.1 | 4.9 | 5.0 | 3.7 | 5.6 | 6.3 | 5.2 | 5.0 | 5.0 | 6.0 | 1.8 | 2.9 | 2.9 | 6.3 | 0.3 |
| 4           | 3.7 | 3.5 | 2.8 | 2.4 | 2.5 | 2.4 | 1.1 | 1.2 | 3.0 | 3.3 | 3.2 | 2.9 | 3.0 | 3.5 | 3.6 | 3.5 | 2.2 | 2.1 | 2.2 | 1.2 | 1.4 | 2.3 | 2.4 | 1.6 | 2.5 | 3.7 | 1.1 |
| 5           | 1.3 | 3.1 | 3.7 | 6.7 | 7.9 | 8.2 | 5.2 | 5.1 | 6.7 | 7.9 | 7.7 | 7.1 | 6.2 | 3.6 | 2.1 | 1.4 | 1.4 | 1.1 | 2.0 | 0.9 | 0.8 | 1.1 | 0.9 | 1.1 | 3.9 | 8.2 | 0.8 |
| 6           | 1.2 | 1.9 | 2.1 | 4.0 | 2.8 | 4.2 | 5.6 | 5.5 | 5.7 | 5.5 | 4.1 | 3.3 | 2.8 | 2.8 | 3.1 | 2.6 | 1.8 | 2.8 | 1.7 | 1.4 | 0.5 | 1.3 | 0.9 | 0.4 | 2.8 | 5.7 | 0.4 |
| 7           | 0.5 | 0.7 | 0.7 | 0.4 | 0.4 | 0.7 | 0.7 | 0.4 | 1.2 | 1.2 | 2.2 | 2.4 | 2.3 | 2.5 | 2.2 | 2.8 | 2.2 | 1.2 | 0.8 | 0.3 | 0.8 | 0.5 | 0.7 | 0.4 | 1.2 | 2.8 | 0.3 |
| 8           | 0.4 | 0.8 | 0.3 | 0.4 | 0.5 | 0.7 | 0.6 | 0.4 | 1.1 | 2.2 | 2.0 | 2.6 | 2.9 | 3.6 | 2.4 | 2.7 | 2.5 | 2.8 | 2.5 | 2.1 | 2.1 | 1.7 | 1.7 | 2.7 | 1.7 | 3.6 | 0.3 |
| 9           | 4.2 | 2.8 | 2.0 | 1.3 | 1.4 | 1.5 | 0.7 | 0.8 | 1.6 | 2.4 | 2.1 | 2.8 | 2.0 | 2.5 | 2.7 | 2.5 | 2.7 | 2.2 | 1.5 | 1.3 | 1.3 | 1.4 | 0.9 | 0.4 | 1.9 | 4.2 | 0.4 |
| 10          | 0.8 | 0.4 | 0.6 | 1.2 | 1.1 | 1.5 | 2.1 | 2.4 | 2.7 | 1.7 | 2.3 | 2.0 | 1.9 | 2.2 | 2.5 | 2.7 | 2.5 | 1.8 | 1.3 | 1.6 | 2.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.7 | 0.4 |
| 11          | 0.6 | 0.8 | 0.7 | 0.9 | 1.3 | 1.5 | 1.7 | 2.1 | 1.9 | 2.6 | 3.6 | 3.7 | 4.4 | 3.3 | 2.5 | 2.7 | 2.6 | 2.7 | 2.1 | 2.0 | 1.8 | 0.6 | 1.1 | 0.9 | 2.0 | 4.4 | 0.6 |
| 12          | 0.5 | 0.9 | 0.5 | 1.1 | 0.9 | 1.2 | 0.9 | 0.8 | 0.6 | 1.7 | 1.8 | 2.2 | 2.3 | 2.4 | 2.5 | 2.5 | 2.9 | 2.3 | 2.4 | 2.4 | 1.4 | 0.8 | 1.0 | 0.6 | 1.5 | 2.9 | 0.5 |
| 13          | 0.2 | 0.1 | 0.3 | 0.8 | 1.1 | 1.3 | 1.1 | 0.5 | 0.7 | 2.4 | 2.0 | 3.0 | 3.6 | 3.0 | 3.3 | 2.6 | 2.1 | 2.2 | 1.6 | 1.6 | 1.2 | 0.9 | 1.6 | 1.5 | 1.6 | 3.6 | 0.1 |
| 14          | 1.1 | 0.6 | 0.3 | 0.6 | 0.9 | 0.7 | 0.8 | 0.9 | 1.3 | 2.7 | 2.9 | 2.6 | 2.8 | 3.4 | 2.7 | 2.9 | 3.5 | 2.5 | 2.3 | 1.6 | 1.1 | 1.0 | 1.1 | 0.8 | 1.7 | 3.5 | 0.3 |
| 15          | 0.8 | 0.8 | 0.5 | 0.9 | 0.9 | 0.5 | 0.9 | 1.0 | 1.5 | 2.6 | 2.8 | 2.6 | 2.1 | 2.6 | 2.1 | 2.6 | 1.9 | 2.2 | 2.3 | 1.5 | 0.7 | 0.7 | 1.0 | 0.4 | 1.5 | 2.8 | 0.4 |
| 16          | 0.2 | 0.7 | 0.5 | 0.7 | 0.8 | 0.4 | 0.4 | 0.6 | 1.0 | 1.2 | 2.0 | 2.3 | 2.4 | 2.2 | 2.4 | 2.2 | 2.5 | 2.4 | 1.7 | 1.2 | 0.6 | 1.1 | 1.7 | 1.9 | 1.4 | 2.5 | 0.2 |
| 17          | 0.8 | 0.9 | 1.0 | 0.8 | 0.5 | 0.8 | 0.7 | 0.5 | 0.9 | 1.9 | 1.8 | 2.2 | 2.5 | 3.2 | 2.9 | 2.8 | 2.5 | 2.2 | 1.9 | 1.4 | 1.2 | 0.6 | 0.9 | 0.7 | 1.5 | 3.2 | 0.5 |
| 18          | 0.6 | 0.8 | 0.6 | 0.6 | 0.9 | 0.9 | 1.1 | 0.5 | 0.9 | 1.9 | 2.2 | 2.2 | 3.0 | 2.9 | 3.6 | 3.0 | 3.3 | 2.3 | 2.4 | 1.9 | 1.5 | 1.3 | 2.0 | 1.8 | 1.8 | 3.6 | 0.5 |
| 19          | 1.2 | 1.1 | 0.9 | 1.0 | 0.9 | 1.2 | 0.8 | 0.9 | 1.7 | 2.3 | 2.2 | 2.9 | 2.4 | 2.7 | 3.0 | 3.2 | 3.3 | 3.0 | 1.6 | 1.2 | 0.7 | 0.5 | 0.5 | 0.6 | 1.7 | 3.3 | 0.5 |
| 20          | 0.7 | 0.5 | 0.7 | 0.8 | 0.6 | 0.3 | 0.6 | 0.7 | 1.7 | 2.1 | 2.2 | 2.8 | 2.6 | 3.2 | 3.1 | 2.8 | 2.5 | 3.5 | 2.9 | 2.0 | 1.4 | 1.4 | 1.9 | 2.2 | 1.8 | 3.5 | 0.3 |
| 21          | 2.4 | 1.9 | 0.8 | 0.7 | 1.1 | 1.5 | 1.6 | 3.0 | 2.6 | 2.9 | 1.8 | 2.6 | 2.7 | 3.2 | 3.0 | 3.1 | 2.7 | 2.4 | 2.2 | 2.3 | 1.6 | 2.5 | 3.7 | 3.6 | 2.3 | 3.7 | 0.7 |
| 22          | 1.1 | 0.4 | 0.6 | 1.0 | 1.2 | 1.3 | 1.4 | 3.0 | 3.8 | 2.6 | 2.1 | 2.8 | 2.4 | 2.8 | 2.4 | 2.6 | 2.9 | 2.3 | 1.5 | 1.7 | 2.1 | 1.5 | 0.7 | 0.4 | 1.9 | 3.8 | 0.4 |
| 23          | 0.6 | 1.0 | 1.1 | 1.9 | 3.1 | 4.9 | 6.0 | 6.3 | 6.0 | 5.0 | 4.4 | 3.4 | 2.6 | 3.2 | 3.8 | 4.0 | 3.5 | 1.9 | 1.3 | 1.9 | 1.7 | 2.3 | 2.2 | 2.3 | 3.1 | 6.3 | 0.6 |
| 24          | 2.9 | 2.1 | 3.1 | 2.6 | 1.2 | 0.8 | 2.2 | 4.7 | 3.8 | 4.6 | 4.7 | 3.9 | 3.2 | 3.1 | 3.6 | 3.1 | 3.0 | 2.8 | 2.4 | 1.9 | 2.9 | 4.5 | 4.9 | 3.9 | 3.2 | 4.9 | 0.8 |
| 25          | 7.9 | 7.7 | 7.6 | 4.6 | 6.8 | 5.1 | 4.9 | 3.0 | 3.4 | 3.1 | 3.4 | 3.1 | 3.2 | 3.7 | 3.5 | 3.3 | 3.9 | 3.6 | 3.5 | 3.4 | 3.5 | 2.5 | 2.3 | 3.2 | 4.2 | 7.9 | 2.3 |
| 26          | 3.1 | 1.7 | 1.0 | 1.2 | 1.2 | 1.3 | 1.1 | 2.6 | 3.9 | 2.0 | 2.2 | 3.3 | 2.8 | 3.2 | 3.2 | 3.6 | 2.6 | 2.6 | 2.9 | 2.3 | 2.0 | 2.5 | 1.3 | 1.2 | 2.3 | 3.9 | 1.0 |
| 27          | 1.9 | 5.2 | 3.4 | 3.8 | 4.7 | 3.2 | 3.9 | 3.7 | 3.2 | 2.4 | 2.9 | 2.6 | 3.7 | 4.0 | 3.1 | 3.9 | 3.6 | 2.6 | 2.5 | 2.0 | 2.1 | 1.8 | 2.3 | 2.8 | 3.1 | 5.2 | 1.8 |
| 28          | 3.3 | 4.2 | 2.7 | 3.1 | 2.4 | 3.0 | 2.9 | 2.2 | 2.7 | 3.2 | 3.7 | 3.1 | 2.8 | 3.4 | 4.2 | 4.2 | 4.2 | 4.3 | 6.1 | 5.6 | 5.5 | 3.2 | 5.0 | 5.5 | 3.8 | 6.1 | 2.2 |
| 29          | 4.6 | 1.6 | 1.2 | 3.7 | 5.2 | 4.4 | 5.1 | 6.7 | 6.1 | 3.0 | 2.4 | 2.7 | 3.8 | 3.4 | 3.1 | 3.6 | 4.0 | 3.0 | 1.6 | 2.0 | 1.3 | 0.9 | 0.7 | 1.1 | 3.1 | 6.7 | 0.7 |
| 30          | 0.9 | 1.0 | 1.3 | 1.4 | 1.5 | 1.3 | 1.9 | 2.9 | 4.0 | 3.6 | 3.0 | 3.3 | 2.8 | 2.7 | 3.2 | 2.8 | 2.9 | 2.4 | 2.2 | 2.4 | 2.1 | 2.2 | 2.4 | 2.3 | 2.4 | 4.0 | 0.9 |
| Avg         | 1.7 | 1.7 | 1.5 | 1.7 | 1.9 | 1.9 | 2.0 | 2.2 | 2.7 | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 3.0 | 3.0 | 2.9 | 2.7 | 2.3 | 2.0 | 1.8 | 1.6 | 1.7 | 1.7 | 2.3 | --  | --  |
| Max         | 7.9 | 7.7 | 7.6 | 6.7 | 7.9 | 8.2 | 6.0 | 6.7 | 6.7 | 7.9 | 7.7 | 7.1 | 6.2 | 4.9 | 5.0 | 4.2 | 5.6 | 6.3 | 6.1 | 5.6 | 5.5 | 6.0 | 5.0 | 5.5 | --  | 8.2 | --  |
| Min         | 0.2 | 0.1 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.6 | 1.2 | 1.7 | 1.9 | 1.9 | 2.2 | 2.1 | 1.4 | 1.4 | 1.1 | 0.8 | 0.3 | 0.5 | 0.5 | 0.5 | 0.4 | --  | --  | 0.1 |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: May 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           | 0.8 | 0.6 | 0.5 | 0.6 | 0.5 | 0.7 | 0.7 | 1.0 | 1.6 | 2.3 | 2.6 | 2.5 | 2.6 | 2.7 | 3.1 | 3.0 | 2.9 | 2.5 | 2.0 | 1.9 | 1.3 | 2.0 | 2.2 | 1.4 | 1.7 | 3.1 | 0.5 |
| 2           | 1.4 | 1.6 | 0.7 | 0.8 | 0.4 | 0.7 | 1.0 | 1.1 | 1.5 | 3.1 | 2.8 | 2.5 | 2.8 | 3.2 | 3.1 | 3.1 | 3.0 | 2.4 | 1.8 | 1.9 | 1.0 | 1.2 | 1.7 | 1.9 | 1.9 | 3.2 | 0.4 |
| 3           | 1.8 | 2.7 | 1.6 | 0.6 | 1.0 | 1.1 | 2.8 | 5.5 | 5.8 | 7.2 | 4.6 | 2.3 | 2.3 | 2.8 | 3.2 | 3.2 | 2.2 | 3.2 | 2.4 | 2.4 | 1.9 | 1.3 | 0.3 | 0.8 | 2.6 | 7.2 | 0.3 |
| 4           | 0.8 | 1.6 | 2.1 | 1.8 | 2.2 | 1.8 | 2.2 | 2.3 | 4.0 | 5.9 | 5.9 | 3.6 | 2.1 | 3.1 | 2.4 | 2.0 | 2.1 | 2.3 | 2.2 | 1.5 | 1.0 | 0.5 | 0.5 | 0.7 | 2.3 | 5.9 | 0.5 |
| 5           | 0.9 | 1.2 | 1.3 | 2.0 | 2.7 | 3.2 | 3.9 | 5.6 | 7.2 | 6.9 | 5.5 | 5.1 | 3.9 | 3.0 | 2.5 | 2.3 | 1.5 | 2.3 | 3.0 | 1.9 | 1.5 | 1.9 | 2.9 | 3.5 | 3.2 | 7.2 | 0.9 |
| 6           | 5.0 | 4.7 | 3.5 | 3.1 | 0.9 | 0.4 | 0.9 | 2.3 | 2.8 | 4.1 | 3.9 | 4.4 | 4.8 | 5.0 | 5.5 | 6.0 | 6.2 | 5.7 | 5.9 | 5.4 | 4.4 | 4.0 | 3.2 | 3.5 | 4.0 | 6.2 | 0.4 |
| 7           | 3.8 | 1.9 | 3.4 | 4.0 | 2.7 | 2.0 | 1.7 | 2.5 | 4.0 | 4.4 | 4.3 | 4.8 | 5.0 | 3.4 | 3.7 | 3.6 | 3.3 | 3.8 | 3.0 | 2.2 | 2.3 | 2.5 | 1.7 | 1.6 | 3.2 | 5.0 | 1.6 |
| 8           | 0.8 | 0.4 | 1.1 | 2.1 | 2.1 | 1.7 | 1.6 | 3.1 | 4.1 | 4.7 | 3.5 | 3.0 | 3.4 | 2.3 | 2.9 | 3.4 | 2.4 | 3.5 | 3.2 | 2.7 | 2.5 | 3.3 | 2.3 | 2.2 | 2.6 | 4.7 | 0.4 |
| 9           | 2.5 | 1.6 | 3.0 | 1.9 | 0.9 | 0.7 | 0.9 | 1.6 | 2.1 | 2.0 | 2.2 | 3.9 | 3.0 | 2.6 | 2.6 | 2.1 | 3.6 | 2.8 | 2.5 | 1.1 | 0.7 | 0.3 | 1.0 | 1.8 | 2.0 | 3.9 | 0.3 |
| 10          | 1.1 | 1.0 | 0.9 | 0.9 | 0.8 | 0.4 | 0.9 | 2.3 | 2.8 | 2.5 | 2.4 | 2.6 | 2.6 | 2.5 | 3.1 | 3.0 | 3.2 | 2.6 | 1.9 | 1.9 | 1.9 | 1.6 | 0.7 | 0.8 | 1.8 | 3.2 | 0.4 |
| 11          | 0.9 | 0.9 | 0.7 | 0.7 | 0.8 | 0.7 | 0.8 | 1.0 | 1.5 | 2.4 | 2.6 | 2.5 | 3.2 | 3.8 | 3.7 | 3.5 | 3.6 | 4.5 | 3.8 | 3.2 | 2.4 | 2.2 | 1.4 | 1.9 | 2.2 | 4.5 | 0.7 |
| 12          | 2.6 | 2.0 | 0.6 | 0.5 | 0.9 | 1.1 | 1.9 | 3.1 | 3.0 | 1.6 | 3.0 | 4.0 | 4.1 | 2.8 | 2.7 | 2.6 | 2.9 | 2.1 | 1.9 | 1.0 | 0.5 | 1.0 | 0.6 | 0.6 | 2.0 | 4.1 | 0.5 |
| 13          | 0.9 | 1.0 | 2.5 | 1.6 | 1.0 | 1.8 | 0.9 | 1.6 | 1.7 | 2.6 | 3.9 | 3.8 | 3.8 | 4.4 | 4.0 | 4.6 | 3.7 | 3.9 | 3.9 | 4.4 | 3.5 | 3.8 | 5.1 | 6.5 | 3.1 | 6.5 | 0.9 |
| 14          | 5.6 | 3.9 | 3.1 | 2.4 | 2.5 | 0.9 | 0.6 | 3.1 | 3.5 | 3.8 | 4.5 | 3.8 | 4.4 | 3.6 | 3.6 | 2.7 | 2.2 | 2.4 | 3.9 | 3.7 | 3.1 | 2.5 | 2.0 | 2.0 | 3.1 | 5.6 | 0.6 |
| 15          | 1.3 | 1.2 | 1.3 | 0.6 | 0.6 | 1.0 | 2.4 | 4.4 | 5.2 | 5.4 | 5.3 | 5.8 | 6.3 | 6.2 | 4.6 | 4.2 | 4.0 | 3.8 | 4.0 | 3.3 | 3.5 | 3.3 | 4.3 | 3.7 | 3.6 | 6.3 | 0.6 |
| 16          | 3.9 | 3.5 | 4.0 | 3.6 | 1.3 | 1.8 | 1.3 | 3.0 | 2.2 | 2.1 | 2.2 | 2.6 | 2.8 | 3.4 | 3.4 | 3.4 | 2.9 | 3.1 | 2.3 | 1.7 | 1.2 | 0.6 | 0.6 | 0.6 | 2.4 | 4.0 | 0.6 |
| 17          | 0.6 | 0.4 | 0.5 | 1.7 | 0.9 | 0.6 | 0.4 | 1.5 | 2.8 | 2.6 | 3.2 | 3.1 | 2.8 | 3.6 | 3.5 | 3.9 | 3.9 | 4.0 | 2.9 | 1.8 | 2.3 | 3.0 | 2.6 | 2.3 | 2.3 | 4.0 | 0.4 |
| 18          | 1.9 | 1.5 | 1.6 | 1.2 | 1.8 | 1.7 | 1.6 | 1.8 | 2.5 | 2.6 | 2.5 | 2.8 | 3.3 | 3.7 | 4.1 | 3.7 | 3.5 | 3.3 | 2.6 | 2.2 | 1.8 | 1.9 | 1.9 | 2.3 | 2.4 | 4.1 | 1.2 |
| 19          | 2.4 | 2.0 | 1.9 | 3.1 | 4.3 | 7.4 | 8.6 | 8.7 | 7.3 | 4.9 | 4.8 | 3.7 | 2.7 | 3.3 | 2.9 | 2.4 | 2.8 | 2.5 | 2.2 | 2.5 | 2.3 | 2.2 | 4.5 | 4.6 | 3.9 | 8.7 | 1.9 |
| 20          | 5.8 | 6.8 | 6.0 | 7.0 | 7.6 | 7.8 | 6.3 | 5.8 | 7.6 | 7.2 | 5.6 | 3.8 | 2.6 | 2.6 | 1.9 | 1.9 | 2.5 | 2.8 | 2.3 | 3.1 | 2.6 | 1.0 | 0.7 | 2.4 | 4.3 | 7.8 | 0.7 |
| 21          | 6.3 | 7.0 | 6.8 | 3.5 | 3.1 | 4.6 | 5.8 | 7.1 | 5.5 | 5.2 | 3.2 | 2.2 | 2.9 | 2.6 | 2.9 | 3.3 | 2.8 | 2.3 | 1.5 | 1.7 | 1.6 | 2.0 | 2.3 | 3.1 | 3.7 | 7.1 | 1.5 |
| 22          | 2.8 | 2.2 | 1.2 | 0.5 | 1.1 | 1.6 | 3.0 | 4.4 | 5.1 | 5.5 | 3.4 | 2.0 | 2.6 | 3.2 | 2.9 | 3.2 | 3.8 | 3.1 | 3.3 | 3.0 | 1.9 | 2.3 | 1.8 | 1.2 | 2.7 | 5.5 | 0.5 |
| 23          | 1.3 | 2.3 | 2.0 | 3.3 | 3.0 | 2.3 | 2.4 | 3.2 | 5.8 | 5.6 | 3.9 | 2.5 | 2.7 | 3.2 | 3.7 | 3.4 | 3.1 | 2.7 | 2.3 | 1.8 | 1.7 | 2.0 | 1.4 | 1.4 | 2.8 | 5.8 | 1.3 |
| 24          | 1.0 | 0.8 | 1.2 | 0.7 | 0.7 | 0.6 | 0.4 | 0.9 | 1.5 | 1.9 | 2.3 | 2.4 | 2.7 | 3.2 | 3.3 | 3.2 | 3.6 | 2.9 | 2.8 | 2.3 | 3.0 | 2.9 | 5.1 | 4.7 | 2.2 | 5.1 | 0.4 |
| 25          | 3.0 | 2.0 | 3.8 | 4.7 | 4.0 | 2.8 | 3.2 | 3.7 | 3.2 | 3.5 | 3.0 | 2.6 | 3.3 | 4.0 | 3.8 | 4.0 | 3.7 | 3.4 | 4.9 | 6.6 | 6.5 | 5.0 | 4.7 | 4.1 | 3.9 | 6.6 | 2.0 |
| 26          | 2.9 | 2.9 | 3.1 | 3.1 | 2.1 | 1.2 | 1.2 | 2.9 | 3.7 | 4.4 | 4.7 | 4.2 | 4.7 | 6.4 | 5.0 | 4.3 | 3.6 | 3.8 | 3.4 | 4.2 | 4.7 | 3.4 | 3.0 | 1.6 | 3.5 | 6.4 | 1.2 |
| 27          | 2.0 | 0.5 | 0.3 | 0.3 | 0.5 | 0.2 | 0.3 | 1.6 | 2.6 | 3.3 | 2.0 | 2.9 | 3.2 | 3.0 | 3.3 | 3.5 | 2.8 | 2.1 | 2.0 | 1.2 | 1.7 | 1.9 | 2.1 | 1.1 | 1.8 | 3.5 | 0.2 |
| 28          | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 1.5 | 1.4 | 0.9 | 1.4 | 3.3 | 2.3 | 2.6 | 3.2 | 2.8 | 2.7 | 2.5 | 2.5 | 2.1 | 1.9 | 1.6 | 2.7 | 0.7 | 0.9 | 1.1 | 1.7 | 3.3 | 0.5 |
| 29          | 1.2 | 0.7 | 0.5 | 0.9 | 1.0 | 2.0 | 4.4 | 4.5 | 4.1 | 4.0 | 3.1 | 2.7 | 2.7 | 2.9 | 3.3 | 2.8 | 2.6 | 2.6 | 2.8 | 2.8 | 1.1 | 0.7 | 0.9 | 1.7 | 2.3 | 4.5 | 0.5 |
| 30          | 1.0 | 1.7 | 4.4 | 5.5 | 2.5 | 3.1 | 3.7 | 4.8 | 5.6 | 4.9 | 4.2 | 2.7 | 2.9 | 2.9 | 3.0 | 3.4 | 3.0 | 3.0 | 3.1 | 8.3 | 8.1 | 6.8 | 5.3 | 4.1 | 4.1 | 8.3 | 1.0 |
| 31          | 2.7 | 2.6 | 3.3 | 4.4 | 5.1 | 4.9 | 5.3 | 4.7 | 5.5 | 4.0 | 4.0 | 3.1 | 2.6 | 3.1 | 2.3 | 3.1 | 2.4 | 2.3 | 2.1 | 1.4 | 2.0 | 3.2 | 3.2 | 2.2 | 3.3 | 5.5 | 1.4 |
| Avg         | 2.2 | 2.1 | 2.2 | 2.2 | 1.9 | 2.0 | 2.3 | 3.2 | 3.8 | 4.0 | 3.6 | 3.2 | 3.3 | 3.4 | 3.3 | 3.3 | 3.1 | 3.0 | 2.8 | 2.7 | 2.5 | 2.3 | 2.3 | 2.3 | 2.8 | --  | --  |
| Max         | 6.3 | 7.0 | 6.8 | 7.0 | 7.6 | 7.8 | 8.6 | 8.7 | 7.6 | 7.2 | 5.9 | 5.8 | 6.3 | 6.4 | 5.5 | 6.0 | 6.2 | 5.7 | 5.9 | 8.3 | 8.1 | 6.8 | 5.3 | 6.5 | --  | 8.7 | --  |
| Min         | 0.6 | 0.4 | 0.3 | 0.3 | 0.4 | 0.2 | 0.3 | 0.9 | 1.4 | 1.6 | 2.0 | 2.0 | 2.1 | 2.3 | 1.9 | 1.9 | 1.5 | 2.1 | 1.5 | 1.0 | 0.5 | 0.3 | 0.3 | 0.6 | --  | --  | 0.2 |

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Jun 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           | 2.8 | 1.2 | 0.8 | 0.8 | 0.6 | 0.7 | 1.1 | 2.6 | 3.3 | 4.4 | 4.2 | 3.8 | 3.3 | 3.6 | 3.3 | 3.2 | 2.6 | 2.3 | 2.1 | 2.6 | 2.1 | 1.4 | 2.6 | 3.3 | 2.5 | 4.4 | 0.6 |
| 2           | 3.3 | 2.6 | 2.6 | 1.8 | 1.1 | 0.9 | 2.2 | 3.9 | 4.1 | 2.7 | 3.3 | 3.0 | 3.0 | 3.1 | 3.7 | 2.9 | 2.5 | 2.4 | 2.1 | 2.4 | 1.8 | 1.6 | 0.8 | 0.7 | 2.4 | 4.1 | 0.7 |
| 3           | 1.1 | 1.6 | 0.9 | 1.0 | 0.8 | 1.2 | 1.0 | 2.3 | 2.2 | 2.5 | 3.1 | 3.2 | 3.3 | 2.8 | 3.4 | 2.7 | 2.9 | 2.7 | 2.4 | 3.0 | 3.0 | 2.2 | 3.0 | 3.7 | 2.3 | 3.7 | 0.8 |
| 4           | 3.4 | 4.2 | 2.6 | 1.1 | 1.4 | 0.8 | 0.7 | 1.0 | 1.2 | 1.7 | 3.3 | 2.8 | 2.9 | 3.2 | 3.2 | 3.2 | 2.6 | 2.9 | 2.4 | 3.0 | 3.2 | 2.4 | 2.8 | 3.2 | 2.5 | 4.2 | 0.7 |
| 5           | 3.5 | 3.8 | 2.3 | 2.7 | 2.2 | 2.8 | 2.4 | 1.6 | 2.9 | 3.4 | 3.4 | 3.2 | 3.1 | 3.4 | 3.5 | 2.7 | 2.6 | 2.5 | 2.4 | 2.2 | 2.8 | 2.2 | 3.4 | 2.2 | 2.8 | 3.8 | 1.6 |
| 6           | 1.3 | 1.8 | 3.9 | 3.4 | 2.5 | 2.1 | 0.6 | 1.6 | 4.2 | 3.6 | 3.3 | 3.1 | 3.1 | 3.0 | 3.0 | 2.9 | 2.6 | 2.7 | 1.9 | 2.6 | 2.0 | 1.7 | 1.6 | 1.4 | 2.5 | 4.2 | 0.6 |
| 7           | 3.1 | 2.4 | 2.6 | 3.4 | 3.2 | 2.2 | 1.7 | 2.3 | 3.4 | 3.7 | 3.1 | 2.5 | 2.6 | 2.7 | 3.4 | 3.0 | 3.0 | 3.1 | 2.3 | 1.6 | 1.8 | 1.1 | 0.9 | 1.4 | 2.5 | 3.7 | 0.9 |
| 8           | 0.9 | 1.8 | 2.4 | 2.2 | 1.9 | 1.1 | 0.9 | 1.3 | 2.1 | 2.8 | 2.9 | 2.6 | 2.5 | 2.6 | 3.2 | 3.0 | 3.1 | 2.6 | 2.6 | 2.6 | 2.6 | 2.1 | 2.9 | 3.3 | 2.3 | 3.3 | 0.9 |
| 9           | 2.7 | 1.3 | 0.4 | 0.5 | 0.3 | 1.6 | 1.7 | 1.6 | 2.6 | 3.1 | 2.3 | 2.5 | 2.8 | 3.0 | 2.7 | 2.9 | 3.0 | 2.8 | 2.2 | 2.7 | 2.4 | 2.6 | 2.1 | 1.8 | 2.1 | 3.1 | 0.3 |
| 10          | 1.3 | 0.9 | 0.5 | 1.1 | 2.0 | 1.5 | 2.6 | 2.5 | 2.3 | 3.1 | 4.1 | 3.8 | 4.1 | 3.4 | 4.0 | 3.0 | 3.4 | 2.6 | 3.0 | 3.6 | 3.7 | 3.7 | 2.8 | 3.9 | 2.8 | 4.1 | 0.5 |
| 11          | 5.2 | 4.8 | 4.3 | 2.8 | 1.7 | 0.7 | 1.4 | 3.2 | 4.4 | 4.7 | 4.7 | 4.5 | 4.0 | 4.5 | 3.7 | 4.1 | 4.7 | 4.3 | 4.4 | 2.8 | 2.9 | 3.6 | 4.4 | 3.7 | 3.7 | 5.2 | 0.7 |
| 12          | 4.5 | 4.4 | 5.1 | 5.1 | 3.0 | 2.3 | 2.1 | 2.2 | 2.1 | 2.5 | 3.2 | 3.7 | 3.5 | 3.3 | 3.7 | 3.4 | 3.4 | 3.3 | 2.6 | 1.7 | 2.0 | 3.0 | 3.1 | 1.8 | 3.1 | 5.1 | 1.7 |
| 13          | 0.7 | 1.0 | 0.5 | 0.9 | 0.6 | 0.5 | 0.4 | 0.8 | 2.0 | 2.5 | 3.0 | 2.7 | 2.3 | 2.4 | 2.4 | 2.2 | 2.8 | 2.4 | 2.4 | 2.0 | 2.0 | 1.2 | 1.0 | 1.0 | 1.7 | 3.0 | 0.4 |
| 14          | 0.3 | 0.5 | 0.6 | 1.3 | 1.3 | 1.9 | 1.5 | 2.3 | 3.1 | 1.5 | 2.3 | 2.5 | 2.5 | 2.4 | 2.7 | 2.7 | 2.8 | 2.4 | 1.9 | 2.1 | 1.4 | 1.4 | 0.8 | 0.6 | 1.8 | 3.1 | 0.3 |
| 15          | 0.4 | 0.6 | 1.8 | 1.0 | 1.7 | 1.8 | 1.1 | 1.0 | 1.1 | 3.6 | 3.2 | 2.9 | 2.3 | 3.1 | 2.4 | 2.8 | 2.9 | 2.6 | 2.2 | 1.6 | 1.3 | 0.9 | 2.0 | 1.0 | 1.9 | 3.6 | 0.4 |
| 16          | 1.1 | 0.5 | 0.9 | 1.2 | 0.6 | 0.5 | 0.3 | 0.8 | 3.0 | 3.2 | 3.6 | 3.1 | 3.0 | 3.2 | 2.9 | 3.0 | 3.1 | 2.5 | 2.4 | 1.4 | 1.3 | 1.6 | 1.3 | 1.8 | 1.9 | 3.6 | 0.3 |
| 17          | 3.3 | 3.8 | 3.0 | 2.9 | 3.3 | 2.8 | 1.4 | 1.3 | 2.7 | 3.2 | 2.9 | 3.1 | 3.1 | 3.2 | 3.6 | 3.5 | 3.0 | 3.1 | 3.1 | 2.5 | 2.5 | 2.6 | 2.2 | 3.6 | 2.9 | 3.8 | 1.3 |
| 18          | 3.6 | 3.6 | 3.9 | 3.6 | 2.5 | 1.5 | 2.4 | 2.9 | 2.9 | 4.1 | 3.3 | 3.0 | 3.5 | 3.3 | 3.6 | 3.5 | 3.5 | 3.3 | 3.1 | 3.0 | 2.9 | 2.1 | 2.1 | 2.5 | 3.1 | 4.1 | 1.5 |
| 19          | 2.3 | 2.4 | 1.5 | 3.0 | 2.0 | 1.3 | 1.3 | 2.1 | 2.8 | 2.8 | 3.0 | 3.0 | 3.5 | 3.3 | 2.6 | 3.1 | 2.8 | 2.5 | 2.4 | 1.8 | 1.8 | 1.8 | 0.8 | 0.6 | 2.3 | 3.5 | 0.6 |
| 20          | 1.3 | 1.3 | 1.6 | 2.5 | 2.5 | 3.0 | 3.6 | 5.0 | 5.3 | 4.4 | 4.5 | 2.6 | 2.4 | 3.1 | 2.2 | 3.0 | 3.0 | 4.7 | 5.6 | 2.8 | 1.5 | 1.2 | 1.2 | 0.9 | 2.9 | 5.6 | 0.9 |
| 21          | 1.1 | 1.5 | 0.9 | 1.1 | 1.2 | 1.4 | 1.5 | 2.9 | 1.4 | 2.5 | 3.0 | 2.6 | 2.7 | 3.0 | 3.0 | 3.1 | 2.9 | 2.4 | 2.7 | 2.5 | 2.6 | 1.5 | 0.7 | 1.2 | 2.1 | 3.1 | 0.7 |
| 22          | 2.0 | 1.4 | 0.4 | 1.4 | 1.7 | 1.8 | 2.2 | 1.8 | 1.8 | 2.0 | 2.4 | 2.6 | 3.3 | 3.6 | 3.3 | 2.7 | 3.4 | 3.3 | 3.0 | 3.0 | 3.7 | 3.6 | 2.5 | 3.3 | 2.5 | 3.7 | 0.4 |
| 23          | 3.2 | 3.5 | 2.8 | 1.0 | 1.2 | 1.1 | 2.4 | 1.6 | 2.7 | 3.9 | 3.8 | 3.6 | 3.5 | 3.9 | 3.4 | 3.5 | 3.1 | 3.1 | 3.4 | 2.8 | 2.6 | 3.5 | 3.3 | 1.6 | 2.9 | 3.9 | 1.0 |
| 24          | 2.5 | 2.2 | 1.5 | 0.7 | 0.7 | 1.7 | 0.7 | 2.2 | 2.5 | 2.5 | 2.0 | 2.8 | 2.8 | 2.6 | 3.0 | 2.7 | 3.0 | 3.0 | 2.8 | 2.3 | 2.5 | 1.5 | 1.0 | 1.7 | 2.1 | 3.0 | 0.7 |
| 25          | 6.7 | 6.7 | 7.0 | 4.0 | 3.0 | 5.3 | 4.3 | 3.7 | 5.4 | 4.4 | 3.4 | 3.3 | 2.0 | 2.8 | 2.7 | 3.0 | 3.2 | 3.6 | 2.3 | 6.1 | 7.4 | 8.4 | 4.2 | 3.1 | 4.4 | 8.4 | 2.0 |
| 26          | 2.0 | 2.4 | 2.9 | 3.5 | 3.8 | 2.8 | 3.4 | 3.0 | 2.3 | 2.0 | 2.4 | 2.3 | 2.6 | 2.4 | 2.9 | 2.9 | 3.4 | 3.0 | 2.7 | 2.2 | 1.6 | 0.7 | 0.7 | 2.0 | 2.5 | 3.8 | 0.7 |
| 27          | 1.7 | 1.1 | 0.7 | 0.8 | 0.3 | 0.1 | 0.4 | 2.0 | 3.5 | 3.0 | 3.5 | 3.5 | 3.0 | 3.6 | 3.2 | 3.8 | 3.3 | 2.7 | 2.7 | 2.0 | 1.2 | 0.5 | 1.2 | 1.1 | 2.0 | 3.8 | 0.1 |
| 28          | 1.2 | 1.4 | 0.7 | 1.0 | 1.1 | 0.6 | 0.5 | 2.7 | 3.0 | 2.1 | 3.8 | 4.1 | 2.7 | 2.9 | 2.9 | 3.3 | 3.2 | 3.1 | 2.9 | 2.0 | 1.3 | 0.7 | 1.0 | 0.7 | 2.0 | 4.1 | 0.5 |
| 29          | 1.4 | 2.0 | 2.1 | 1.4 | 1.2 | 0.5 | 0.5 | 2.1 | 2.4 | 2.1 | 2.1 | 3.3 | 3.0 | 3.0 | 3.0 | 2.6 | 2.5 | 2.6 | 2.1 | 1.8 | 1.0 | 1.1 | 0.6 | 1.4 | 1.9 | 3.3 | 0.5 |
| 30          | 2.0 | 1.3 | 1.6 | 1.2 | 0.4 | 0.1 | 0.5 | 0.8 | 2.1 | 2.6 | 2.7 | 2.7 | 3.4 | 3.3 | 3.0 | 3.4 | 2.6 | 2.5 | 2.3 | 2.3 | 2.1 | 1.2 | 0.7 | 0.8 | 1.9 | 3.4 | 0.1 |
| Avg         | 2.3 | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | 1.6 | 2.2 | 2.8 | 3.0 | 3.2 | 3.1 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 | 2.9 | 2.7 | 2.5 | 2.4 | 2.1 | 1.9 | 2.0 | 2.5 | --  | --  |
| Max         | 6.7 | 6.7 | 7.0 | 5.1 | 3.8 | 5.3 | 4.3 | 5.0 | 5.4 | 4.7 | 4.7 | 4.5 | 4.1 | 4.5 | 4.0 | 4.1 | 4.7 | 4.7 | 5.6 | 6.1 | 7.4 | 8.4 | 4.4 | 3.9 | --  | 8.4 | --  |
| Min         | 0.3 | 0.5 | 0.4 | 0.5 | 0.3 | 0.1 | 0.3 | 0.8 | 1.1 | 1.5 | 2.0 | 2.3 | 2.0 | 2.4 | 2.2 | 2.2 | 2.5 | 2.3 | 1.9 | 1.4 | 1.0 | 0.5 | 0.6 | 0.6 | --  | --  | 0.1 |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Apr 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           | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 685 | 685 | 685 | 683 | 685 | 681 |
| 2           | 685 | 685 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 685 | 683 |
| 3           | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 682 | 681 | 681 | 680 | 679 | 678 | 678 | 679 | 679 | 680 | 681 | 681 | 681 | 681 | 683 | 678 |
| 4           | 681 | 682 | 682 | 682 | 683 | 683 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 686 | 686 | 686 | 686 | 684 | 686 | 681 |
| 5           | 686 | 686 | 687 | 687 | 687 | 687 | 687 | 688 | 688 | 688 | 688 | 687 | 687 | 686 | 686 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 688 | 685 |
| 6           | 686 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 686 | 685 | 685 | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 686 | 685 | 686 | 684 |
| 7           | 686 | 685 | 686 | 686 | 686 | 686 | 687 | 687 | 687 | 687 | 687 | 687 | 686 | 686 | 685 | 685 | 685 | 685 | 684 | 684 | 685 | 685 | 685 | 685 | 686 | 687 | 684 |
| 8           | 685 | 685 | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 684 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 683 | 685 | 681 |
| 9           | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 684 | 684 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 684 | 685 | 682 |
| 10          | 686 | 686 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 686 | 686 | 685 | 685 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 686 | 684 |
| 11          | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 686 | 683 |
| 12          | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 683 |
| 13          | 684 | 684 | 684 | 684 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 684 | 682 |
| 14          | 683 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 682 | 681 | 681 | 681 | 682 | 682 | 683 | 683 | 683 | 682 | 683 | 681 |
| 15          | 684 | 684 | 684 | 684 | 683 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 683 |
| 16          | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 686 | 686 | 686 | 686 | 686 | 685 | 685 | 685 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 686 | 684 |
| 17          | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 685 | 685 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 684 |
| 18          | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 687 | 686 | 686 | 686 | 686 | 685 | 685 | 685 | 685 | 684 | 685 | 685 | 686 | 686 | 686 | 685 | 687 |
| 19          | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 687 | 686 | 686 | 686 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 687 | 685 |
| 20          | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 685 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 685 | 686 | 683 |
| 21          | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 684 | 682 |
| 22          | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 684 | 682 |
| 23          | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 681 | 680 | 680 | 680 | 680 | 680 | 680 | 680 | 680 | 681 | 682 | 683 | 680 |
| 24          | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 681 | 681 | 680 | 680 | 679 | 679 | 678 | 678 | 678 | 679 | 679 | 680 | 681 | 681 | 679 | 682 |
| 25          | 678 | 678 | 678 | 678 | 678 | 677 | 678 | 679 | 679 | 679 | 679 | 679 | 679 | 679 | 679 | 679 | 678 | 678 | 678 | 678 | 679 | 679 | 680 | 681 | 681 | 679 | 681 |
| 26          | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 681 | 681 | 680 | 680 | 680 | 680 | 680 | 681 | 680 | 680 | 681 | 682 | 680 |
| 27          | 680 | 680 | 680 | 679 | 679 | 679 | 679 | 679 | 680 | 680 | 680 | 679 | 679 | 678 | 678 | 677 | 677 | 677 | 677 | 677 | 677 | 678 | 678 | 678 | 677 | 678 | 680 |
| 28          | 677 | 677 | 677 | 677 | 677 | 677 | 678 | 678 | 678 | 678 | 678 | 678 | 677 | 677 | 677 | 676 | 676 | 676 | 677 | 677 | 678 | 679 | 679 | 680 | 678 | 680 | 676 |
| 29          | 680 | 680 | 680 | 681 | 681 | 682 | 682 | 683 | 683 | 683 | 684 | 684 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 685 | 685 | 686 | 686 | 683 | 686 | 680 |
| 30          | 686 | 686 | 686 | 686 | 686 | 686 | 687 | 687 | 687 | 687 | 687 | 687 | 686 | 686 | 685 | 685 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 686 | 687 | 684 |
| Avg         | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | --  |
| Max         | 686 | 686 | 687 | 687 | 687 | 687 | 687 | 688 | 688 | 688 | 688 | 687 | 686 | 686 | 686 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | --  | 688 | --  |
| Min         | 677 | 677 | 677 | 677 | 677 | 677 | 678 | 678 | 678 | 678 | 678 | 678 | 677 | 677 | 677 | 676 | 676 | 676 | 677 | 677 | 678 | 678 | 678 | 677 | --  | --  | 676 |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: May 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 | 685 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 684 | 685 | 682 |     |
| 2           | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 682 |
| 3           | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 683 | 683 | 684 | 684 | 685 | 685 | 685 | 684 | 685 | 683 |     |
| 4           | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 685 | 685 | 684 | 684 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 686 | 683 |     |
| 5           | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 681 | 680 | 680 | 679 | 679 | 679 | 680 | 680 | 680 | 681 | 681 | 682 | 683 | 679 |     |
| 6           | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 680 | 679 | 679 | 678 | 677 | 677 | 677 | 678 | 679 | 680 | 680 | 680 | 681 | 680 | 681 | 677 |     |
| 7           | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 681 | 682 | 681 |     |
| 8           | 682 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 680 | 680 | 679 | 679 | 679 | 680 | 680 | 680 | 680 | 681 | 682 | 682 | 682 | 683 | 681 | 683 | 679 |
| 9           | 682 | 681 | 682 | 682 | 682 | 682 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 685 | 683 | 685 | 681 |
| 10          | 685 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 687 | 687 | 687 | 687 | 686 | 687 | 684 |     |
| 11          | 687 | 687 | 687 | 687 | 687 | 687 | 687 | 688 | 688 | 688 | 687 | 687 | 686 | 686 | 686 | 685 | 685 | 685 | 685 | 685 | 685 | 686 | 686 | 686 | 686 | 688 | 685 |     |
| 12          | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 683 | 685 | 681 |
| 13          | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 681 | 681 | 681 | 680 | 680 | 679 | 679 | 679 | 680 | 680 | 681 | 681 | 682 | 681 | 682 | 679 |     |
| 14          | 682 | 681 | 681 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 681 | 681 | 680 | 680 | 680 | 681 | 682 | 682 | 682 | 682 | 683 | 680 |     |
| 15          | 682 | 682 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 681 | 681 | 681 | 680 | 680 | 680 | 680 | 680 | 680 | 681 | 681 | 681 | 682 | 682 | 682 | 681 | 682 | 680 |     |
| 16          | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 683 | 683 | 683 | 683 | 684 | 683 | 682 | 684 | 681 |     |
| 17          | 683 | 683 | 683 | 683 | 682 | 682 | 683 | 683 | 683 | 682 | 682 | 682 | 681 | 681 | 680 | 679 | 679 | 678 | 678 | 678 | 679 | 680 | 680 | 680 | 681 | 683 | 678 |     |
| 18          | 680 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 681 | 681 | 681 | 680 | 680 | 680 | 680 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 680 |     |
| 19          | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 684 | 684 | 684 | 683 | 684 | 682 |     |
| 20          | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 682 | 682 | 683 | 683 | 683 | 684 | 681 |     |
| 21          | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 683 | 683 | 684 | 684 | 684 | 683 | 684 | 682 |
| 22          | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 684 | 685 | 682 |     |
| 23          | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 685 | 682 |     |
| 24          | 683 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 682 | 682 | 682 | 681 | 681 | 680 | 679 | 679 | 678 | 678 | 678 | 678 | 679 | 679 | 679 | 681 | 683 | 678 |     |
| 25          | 679 | 679 | 679 | 679 | 679 | 679 | 679 | 680 | 680 | 680 | 680 | 680 | 680 | 680 | 680 | 679 | 679 | 679 | 679 | 680 | 680 | 681 | 682 | 682 | 680 | 682 | 679 |     |
| 26          | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 684 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 684 | 684 | 684 | 683 | 684 | 682 |     |
| 27          | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 686 | 686 | 686 | 685 | 685 | 685 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 686 | 684 |     |
| 28          | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 684 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 685 | 683 |     |
| 29          | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 683 | 683 | 683 | 683 | 682 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 681 |     |
| 30          | 682 | 682 | 682 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 682 | 682 | 681 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 681 |     |
| 31          | 683 | 683 | 683 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 681 | 680 | 680 | 680 | 680 | 680 | 680 | 681 | 682 | 682 | 682 | 682 | 682 | 680 |     |
| Avg         | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 681 | 681 | 681 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | --  | --  |
| Max         | 687 | 687 | 687 | 687 | 687 | 687 | 687 | 688 | 688 | 688 | 687 | 687 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 687 | 687 | 687 | 687 | 687 | 688 | --  |     |
| Min         | 679 | 679 | 679 | 679 | 679 | 679 | 679 | 680 | 680 | 680 | 680 | 680 | 679 | 679 | 678 | 677 | 677 | 677 | 678 | 678 | 679 | 679 | 679 | 679 | 679 | --  | 677 |     |



**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Jun 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           | 682 | 682 | 682 | 681 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 681 | 681 | 680 | 680 | 680 | 680 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 682 | 680 |
| 2           | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 681 |
| 3           | 682 | 682 | 682 | 682 | 683 | 683 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 684 | 681 |     |
| 4           | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 684 | 681 |     |
| 5           | 682 | 681 | 681 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 683 | 683 | 682 | 683 | 681 |     |
| 6           | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 685 | 682 |     |
| 7           | 684 | 684 | 684 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 683 | 682 | 683 | 683 | 684 | 684 | 684 | 685 | 684 | 685 | 682 |     |
| 8           | 685 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 684 | 685 | 682 |     |
| 9           | 683 | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 681 | 681 | 680 | 680 | 680 | 681 | 681 | 681 | 682 | 682 | 684 | 680 |     |
| 10          | 682 | 682 | 681 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 681 | 680 | 680 | 680 | 679 | 680 | 680 | 681 | 681 | 681 | 681 | 682 | 679 |     |
| 11          | 682 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 683 | 682 | 682 | 682 | 682 | 682 | 681 | 681 | 681 | 680 | 681 | 681 | 682 | 682 | 683 | 683 | 682 | 683 | 680 |     |
| 12          | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 684 | 682 |     |
| 13          | 683 | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 684 | 682 |     |
| 14          | 683 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 684 | 683 | 683 | 683 | 683 | 683 | 683 | 682 | 682 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | 683 | 684 | 682 |     |
| 15          | 683 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 685 | 685 | 684 | 684 | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | 684 | 685 | 683 |     |
| 16          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 17          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 18          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 19          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 20          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 21          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 22          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 23          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 24          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 25          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 26          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 27          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 28          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 29          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| 30          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |     |
| Avg         | 683 | 683 | 682 | 683 | 683 | 683 | 683 | 684 | 684 | 684 | 684 | 683 | 683 | 683 | 682 | 682 | 681 | 681 | 681 | 682 | 682 | 682 | 683 | 683 | 683 | 683 | --  |     |
| Max         | 685 | 684 | 684 | 684 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 685 | 684 | 684 | 683 | 683 | 682 | 683 | 683 | 684 | 684 | 684 | 685 | 685 | --  | 685 |     |
| Min         | 682 | 681 | 681 | 681 | 681 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 681 | 681 | 680 | 680 | 680 | 679 | 680 | 680 | 681 | 681 | 681 | 681 | --  | 679 |     |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: Apr 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   | 0.37 | --   | --   | --   | 0.53 | 0.48 | 0.31  | -0.50 | --    | --    | --    | --    | -1.31 | -1.28 | -1.35 | -0.97 | -1.21 | -0.59 | -0.30 | 0.07  | 0.29  | 0.46  | 0.33 | 0.27 | -0.26 | 0.53 | -1.35 |
| 2   | 0.65 | 0.47 | 0.69 | 1.04 | 1.21 | 1.65 | 0.68  | -0.59 | -1.06 | -0.77 | --    | -1.27 | -1.29 | -1.47 | -1.31 | -1.13 | -0.91 | -0.62 | -0.29 | 0.08  | 0.31  | 1.66  | 2.19 | 1.27 | 0.05  | 2.19 | -1.47 |
| 3   | 2.73 | 1.17 | 2.27 | 2.78 | 1.64 | 0.94 | 0.67  | -0.73 | -1.45 | -1.39 | -0.89 | -1.46 | -1.99 | -2.03 | -1.53 | -1.37 | -1.16 | -0.74 | -0.23 | -0.12 | -0.10 | -0.12 | 0.07 | 0.03 | -0.13 | 2.78 | -2.03 |
| 4   | 0.31 | 0.29 | 0.29 | 1.15 | 1.69 | 1.27 | 1.67  | -0.36 | -0.94 | -0.83 | -1.04 | -1.64 | -1.65 | -1.35 | -1.26 | -1.10 | -0.86 | -0.65 | -0.30 | 0.51  | 1.33  | 0.72  | 1.33 | 1.93 | 0.02  | 1.93 | -1.65 |
| 5   | 0.99 | 0.36 | 0.28 | 0.26 | 0.27 | 0.29 | 0.21  | -0.47 | -1.05 | -1.48 | -1.92 | -1.83 | -1.72 | -1.42 | -1.62 | -1.28 | -1.00 | -0.60 | -0.12 | 0.72  | 0.44  | 1.06  | 1.00 | 0.75 | -0.33 | 1.06 | -1.92 |
| 6   | 0.95 | 1.76 | 1.89 | 1.43 | 1.56 | 1.77 | 1.03  | -0.07 | -0.55 | -0.65 | -1.15 | -1.60 | -2.40 | -1.82 | -1.52 | -1.42 | -0.89 | -0.59 | -0.24 | 0.24  | 1.91  | 2.27  | 1.60 | 2.04 | 0.23  | 2.27 | -2.40 |
| 7   | 2.00 | 1.23 | 1.34 | 2.18 | 2.22 | 1.93 | 1.87  | -0.46 | -1.20 | -1.29 | -1.38 | -1.64 | -1.58 | -1.08 | -1.20 | -0.97 | -0.77 | -0.44 | 0.16  | 1.37  | 0.95  | 1.22  | 1.63 | 2.39 | 0.35  | 2.39 | -1.64 |
| 8   | 1.93 | 2.53 | 2.30 | 2.68 | 2.51 | 2.10 | 1.11  | -0.04 | -0.73 | -1.35 | -1.61 | -2.08 | -2.09 | -1.44 | -1.50 | -0.99 | -0.89 | -0.58 | -0.23 | 0.25  | 0.27  | 0.18  | 0.49 | 0.17 | 0.12  | 2.68 | -2.09 |
| 9   | 0.60 | 0.70 | 1.11 | 1.77 | 1.28 | 1.99 | 1.41  | -0.43 | -1.06 | -0.88 | -1.44 | -1.35 | -1.06 | -1.12 | -1.14 | -1.18 | -0.88 | -0.69 | -0.35 | -0.11 | 1.02  | 1.36  | 1.30 | 0.56 | 0.06  | 1.99 | -1.44 |
| 10  | 1.66 | 1.46 | 0.59 | 0.43 | 0.90 | 1.68 | 1.43  | -0.74 | -1.00 | -1.16 | -1.58 | -1.57 | -1.62 | -1.49 | -1.19 | -1.08 | -0.98 | -0.63 | -0.29 | 0.11  | 1.12  | 1.20  | 1.85 | 1.82 | 0.04  | 1.85 | -1.62 |
| 11  | 1.54 | 1.82 | 2.25 | 2.28 | 1.35 | 0.62 | 0.49  | -0.34 | -1.00 | -0.97 | -1.04 | -2.03 | -2.23 | -1.53 | -1.17 | -1.14 | -1.04 | -0.55 | -0.16 | 0.79  | 0.49  | 0.95  | 1.52 | 1.48 | 0.10  | 2.28 | -2.23 |
| 12  | 1.43 | 2.13 | 2.30 | 2.60 | 2.09 | 1.00 | 1.07  | -0.65 | -0.94 | -1.03 | -1.19 | -1.47 | -1.79 | -1.49 | -1.27 | -1.27 | -1.02 | -0.72 | -0.28 | 0.27  | 0.97  | 1.14  | 1.02 | 1.81 | 0.20  | 2.60 | -1.79 |
| 13  | 2.46 | 1.94 | 2.64 | 1.72 | 1.69 | 0.76 | 0.50  | -0.41 | -0.93 | -1.31 | -1.06 | -2.00 | -1.82 | -1.96 | -1.14 | -0.89 | -0.75 | -0.62 | -0.16 | 0.41  | 0.81  | 1.71  | 1.22 | 2.40 | 0.22  | 2.64 | -2.00 |
| 14  | 2.46 | 2.69 | 2.10 | 1.42 | 1.62 | 1.28 | 1.51  | -0.80 | -0.93 | -1.57 | -1.11 | -1.17 | -1.49 | -2.16 | -1.45 | -1.50 | -1.34 | -0.67 | -0.30 | 0.35  | 0.46  | 0.90  | 1.52 | 1.64 | 0.14  | 2.69 | -2.16 |
| 15  | 1.75 | 1.81 | 1.04 | 1.27 | 0.73 | 1.47 | 1.19  | -0.89 | -1.15 | -1.11 | -1.92 | -1.99 | -1.33 | -1.34 | -1.43 | -1.39 | -1.02 | -0.75 | -0.37 | 0.05  | 0.29  | 0.56  | 0.52 | 1.35 | -0.11 | 1.81 | -1.99 |
| 16  | 1.80 | 2.30 | 1.81 | 1.66 | 1.74 | 1.85 | 1.46  | -0.57 | -1.29 | -1.24 | -1.08 | -1.46 | -1.47 | -1.66 | -1.23 | -1.24 | -1.07 | -0.66 | -0.29 | 0.19  | 0.55  | 0.69  | 1.78 | 1.84 | 0.18  | 2.30 | -1.66 |
| 17  | 2.03 | 1.64 | 2.49 | 2.26 | 2.27 | 2.33 | 1.35  | -0.67 | -0.92 | -0.99 | -1.07 | -1.71 | -1.49 | -1.28 | -1.24 | -1.21 | -0.91 | -0.64 | -0.25 | 0.38  | 1.20  | 2.22  | 1.64 | 1.62 | 0.38  | 2.49 | -1.71 |
| 18  | 1.55 | 1.85 | 1.55 | 1.73 | 1.42 | 0.74 | 0.70  | -0.33 | -0.94 | -1.22 | -1.87 | -1.58 | -1.30 | -1.42 | -1.61 | -1.43 | -1.18 | -0.72 | -0.32 | 0.11  | 0.59  | 0.73  | 0.56 | 0.52 | -0.08 | 1.85 | -1.87 |
| 19  | 1.03 | 2.02 | 2.20 | 1.81 | 1.66 | 2.07 | 1.47  | -0.93 | -1.13 | -1.15 | -1.30 | -1.23 | -1.50 | -1.42 | -1.74 | -1.35 | -1.27 | -0.94 | -0.39 | 0.15  | 0.56  | 1.81  | 1.58 | 1.25 | 0.14  | 2.20 | -1.74 |
| 20  | 1.40 | 1.98 | 2.08 | 2.17 | 1.59 | 1.82 | 1.05  | -0.38 | -1.17 | -1.46 | -1.01 | -1.28 | -1.28 | -1.47 | -1.62 | -1.26 | -1.02 | -0.78 | -0.37 | 0.16  | 1.16  | 2.26  | 1.96 | 1.40 | 0.25  | 2.26 | -1.62 |
| 21  | 1.53 | 2.34 | 1.46 | 2.18 | 1.96 | 1.40 | 0.62  | -0.41 | -1.11 | -1.37 | -1.48 | -1.61 | -1.63 | -1.61 | -1.38 | -1.25 | -0.96 | -0.72 | -0.30 | 0.36  | 0.89  | 1.89  | 1.38 | 1.67 | 0.16  | 2.34 | -1.63 |
| 22  | 2.15 | 2.25 | 2.22 | 1.69 | 1.15 | 1.75 | 0.61  | -0.57 | -1.15 | -1.15 | -1.42 | -1.87 | -1.65 | -1.41 | -1.52 | -1.67 | -1.17 | -0.72 | -0.29 | 0.30  | 1.77  | 2.57  | 1.11 | 2.29 | 0.22  | 2.57 | -1.87 |
| 23  | 1.59 | 0.69 | 0.78 | 0.57 | 0.36 | 0.05 | 0.04  | -0.41 | -0.80 | -1.15 | -1.78 | -2.21 | -2.33 | -1.98 | -1.76 | -1.76 | -0.92 | -0.54 | -0.20 | 0.35  | 1.22  | 0.44  | 0.32 | 0.82 | -0.36 | 1.59 | -2.33 |
| 24  | 1.32 | 1.17 | 1.43 | 1.24 | 1.50 | 1.15 | 0.62  | -0.99 | -1.41 | -1.77 | -1.83 | -1.49 | -1.49 | -1.25 | -1.13 | -0.86 | -0.60 | -0.49 | -0.23 | 0.21  | 0.39  | 0.16  | 0.20 | 0.26 | -0.16 | 1.50 | -1.83 |
| 25  | 0.07 | 0.02 | 0.08 | 0.07 | 0.21 | 0.09 | -0.15 | -0.59 | -0.80 | -1.19 | -1.35 | -1.47 | -1.57 | -1.67 | -1.50 | -1.42 | -1.11 | -0.70 | -0.36 | -0.14 | -0.01 | 0.45  | 0.98 | 1.12 | -0.46 | 1.12 | -1.67 |
| 26  | 0.61 | 1.60 | 1.57 | 0.78 | 0.75 | 0.65 | 0.38  | -0.53 | -1.22 | -1.38 | -1.37 | -1.29 | -1.42 | -1.55 | -1.36 | -1.46 | -0.97 | -0.63 | -0.34 | 0.11  | 0.68  | 0.91  | 1.49 | 1.32 | -0.11 | 1.60 | -1.55 |
| 27  | 1.03 | 0.51 | 0.42 | 0.65 | 0.94 | 1.04 | 0.41  | -0.56 | -1.15 | -1.49 | -1.75 | -2.46 | -2.27 | -1.61 | -1.21 | -0.96 | -0.63 | -0.44 | -0.25 | 0.06  | 0.54  | 0.43  | 0.63 | 0.77 | -0.31 | 1.04 | -2.46 |
| 28  | 0.60 | 0.15 | 0.09 | 0.08 | 0.08 | 0.13 | -0.06 | -0.33 | -0.48 | -0.55 | -0.62 | -0.44 | -0.57 | -0.98 | -1.21 | -1.19 | -0.95 | -0.59 | -0.25 | -0.07 | 0.01  | 0.11  | 0.05 | 0.04 | -0.29 | 0.60 | -1.21 |
| 29  | 0.14 | 0.14 | 0.34 | 0.24 | 0.24 | 0.37 | -0.04 | -0.76 | -1.46 | -1.20 | -1.40 | -1.57 | -1.81 | -1.47 | -1.20 | -1.15 | -0.73 | -0.62 | -0.38 | -0.05 | 0.24  | 0.73  | 1.06 | 0.51 | -0.41 | 1.06 | -1.81 |
| 30  | 0.48 | 0.48 | 0.47 | 0.60 | 0.65 | 0.93 | 0.74  | -0.65 | -1.05 | -1.85 | -1.57 | -1.77 | -1.53 | -1.43 | -1.60 | -1.28 | -1.21 | -0.81 | -0.48 | 0.04  | 0.45  | 1.62  | 0.64 | 1.36 | -0.28 | 1.62 | -1.85 |
| Avg | 1.30 | 1.36 | 1.38 | 1.40 | 1.26 | 1.19 | 0.81  | -0.54 | -1.04 | -1.21 | -1.37 | -1.61 | -1.62 | -1.51 | -1.38 | -1.24 | -0.98 | -0.65 | -0.27 | 0.24  | 0.69  | 1.08  | 1.10 | 1.22 | -0.01 | --   | --    |
| Max | 2.73 | 2.69 | 2.64 | 2.78 | 2.51 | 2.33 | 1.87  | -0.04 | -0.48 | -0.55 | -0.62 | -0.44 | -0.57 | -0.98 | -1.13 | -0.86 | -0.60 | -0.44 | 0.16  | 1.37  | 1.91  | 2.57  | 2.19 | 2.40 | --    | 2.78 | --    |
| Min | 0.07 | 0.02 | 0.08 | 0.07 | 0.08 | 0.05 | -0.15 | -0.99 | -1.46 | -1.85 | -1.92 | -2.46 | -2.40 | -2.16 | -1.76 | -1.76 | -1.34 | -0.94 | -0.48 | -0.14 | -0.10 | -0.12 | 0.05 | 0.03 | --    | --   | -2.46 |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: May 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   | 1.58  | 1.49  | 1.69  | 1.87  | 1.66  | 1.20  | 0.61  | -1.27 | -1.39 | -1.82 | -1.15 | -1.23 | -1.49 | -1.36 | -1.28 | -1.30 | -1.10 | -0.82 | -0.36 | 0.13  | 1.21  | 1.55  | 1.14  | 1.75  | 0.05  | 1.87 | -1.82 |
| 2   | 2.39  | 2.57  | 2.71  | 2.50  | 1.87  | 1.77  | 0.24  | -1.05 | -1.61 | -1.06 | -1.20 | -1.26 | -1.31 | -1.87 | -1.31 | -1.22 | -0.96 | -0.77 | -0.34 | 0.36  | 1.59  | 2.10  | 2.09  | 2.22  | 0.35  | 2.71 | -1.87 |
| 3   | 1.89  | 2.44  | 2.77  | 2.29  | 1.52  | 0.70  | 0.55  | -0.42 | -1.03 | -1.60 | -1.18 | -1.20 | -1.49 | -1.54 | -1.54 | -1.49 | -1.05 | -0.77 | -0.37 | 0.40  | 1.04  | 1.58  | 1.91  | 0.90  | 0.18  | 2.77 | -1.60 |
| 4   | 0.76  | 0.97  | 1.32  | 1.15  | 1.65  | 1.91  | 0.43  | -0.32 | -0.93 | -1.32 | -1.73 | -1.14 | -1.72 | -1.88 | -1.44 | -1.26 | -0.97 | -0.86 | -0.30 | 0.27  | 0.86  | 0.86  | 1.60  | 1.72  | -0.02 | 1.91 | -1.88 |
| 5   | 1.98  | 1.63  | 2.06  | 0.87  | 0.56  | 0.49  | 0.02  | -0.28 | -0.62 | -0.92 | -1.56 | -1.78 | -1.92 | -1.71 | -1.71 | -1.00 | -0.56 | -0.28 | -0.08 | 0.06  | 0.64  | 0.54  | 0.62  | 0.56  | -0.10 | 2.06 | -1.92 |
| 6   | 0.29  | 0.44  | 0.54  | 1.21  | 1.18  | 0.64  | 0.57  | -0.72 | -1.34 | -1.81 | -2.06 | -2.32 | -2.57 | -2.54 | -2.31 | -1.94 | -1.40 | -0.90 | -0.40 | -0.29 | -0.23 | -0.14 | -0.05 | -0.09 | -0.68 | 1.21 | -2.57 |
| 7   | -0.12 | -0.12 | -0.06 | 0.10  | -0.08 | 0.00  | -0.26 | -0.67 | -1.03 | -1.02 | -1.42 | -1.48 | -1.53 | -1.59 | -1.44 | -1.26 | -1.32 | -0.99 | -0.70 | -0.33 | -0.13 | 0.02  | -0.07 | -0.05 | -0.65 | 0.10 | -1.59 |
| 8   | 0.18  | -0.06 | -0.08 | -0.01 | -0.10 | 0.13  | -0.39 | -1.00 | -0.69 | -0.87 | -1.28 | -1.21 | -1.12 | -1.33 | -1.45 | -1.04 | -0.54 | -0.70 | -0.37 | -0.24 | -0.21 | -0.28 | -0.34 | -0.40 | -0.56 | 0.18 | -1.45 |
| 9   | -0.32 | -0.40 | -0.28 | 0.10  | 0.09  | -0.20 | -0.26 | -0.54 | -0.92 | -0.57 | -0.70 | -1.68 | -1.46 | -1.39 | -0.88 | -0.75 | -0.72 | -0.62 | -0.51 | -0.15 | 0.14  | 0.10  | 0.24  | 0.11  | -0.48 | 0.24 | -1.68 |
| 10  | 0.32  | -0.04 | -0.10 | -0.16 | -0.20 | -0.06 | -0.18 | -0.49 | -0.71 | -0.81 | -0.96 | -1.14 | -0.81 | -0.97 | -1.10 | -1.02 | -0.82 | -0.73 | -0.40 | -0.12 | 0.08  | 0.91  | 1.06  | 0.97  | -0.31 | 1.06 | -1.14 |
| 11  | 0.79  | 0.59  | 1.48  | 0.70  | 0.73  | 1.32  | -0.01 | -0.88 | -0.69 | -1.02 | -0.89 | -1.12 | -1.16 | -1.22 | -1.18 | -1.13 | -1.01 | -0.73 | -0.38 | -0.08 | 0.60  | 0.74  | 0.89  | 1.20  | -0.10 | 1.48 | -1.22 |
| 12  | 1.26  | 0.93  | 1.73  | 1.32  | 1.42  | 1.07  | 0.33  | -0.38 | -1.05 | -1.36 | -1.58 | -2.26 | -2.22 | -1.66 | -1.21 | -1.32 | -1.02 | -0.65 | -0.33 | 0.30  | 0.96  | 1.03  | 1.35  | 2.09  | -0.05 | 2.09 | -2.26 |
| 13  | 1.97  | 2.07  | 1.66  | 1.47  | 1.49  | 1.90  | 0.75  | -1.04 | -1.42 | -1.28 | -2.08 | -2.06 | -2.23 | -1.98 | -1.59 | -1.57 | -1.21 | -0.81 | -0.39 | 0.00  | -0.04 | 0.26  | 0.33  | 0.33  | -0.23 | 2.07 | -2.23 |
| 14  | 0.41  | 0.48  | 0.70  | 0.80  | 1.13  | 1.22  | 0.40  | -1.18 | -1.56 | -1.67 | -1.76 | -2.04 | -1.81 | -1.70 | -1.43 | -1.17 | -0.81 | -0.75 | -0.44 | -0.09 | -0.02 | 0.27  | 0.36  | 0.30  | -0.43 | 1.22 | -2.04 |
| 15  | 0.35  | 0.54  | 0.68  | 0.88  | 0.56  | 0.69  | -0.09 | -1.34 | -1.64 | -1.94 | -2.38 | -2.57 | -2.26 | -2.21 | -2.24 | -1.57 | -1.22 | -0.92 | -0.52 | -0.21 | -0.10 | -0.03 | 0.29  | 0.15  | -0.71 | 0.88 | -2.57 |
| 16  | 0.37  | 0.29  | -0.03 | -0.07 | 0.11  | -0.09 | -0.44 | -1.11 | -1.09 | -0.91 | -0.89 | -1.60 | -1.58 | -1.39 | -1.41 | -1.29 | -1.22 | -0.88 | -0.54 | -0.24 | 0.15  | 0.84  | 0.72  | 0.97  | -0.47 | 0.97 | -1.60 |
| 17  | 1.43  | 0.74  | 0.77  | 1.12  | 1.08  | 0.66  | -0.35 | -1.17 | -1.76 | -2.02 | -1.70 | -1.71 | -2.05 | -1.88 | -1.82 | -2.01 | -1.56 | -1.01 | -0.48 | -0.20 | -0.14 | -0.10 | -0.10 | -0.19 | -0.60 | 1.43 | -2.05 |
| 18  | -0.22 | -0.19 | -0.22 | -0.21 | 0.05  | 0.39  | -0.32 | -0.73 | -1.19 | -0.92 | -1.16 | -1.51 | -1.64 | -1.34 | -1.63 | -1.32 | -1.18 | -0.87 | -0.48 | -0.12 | 0.09  | 0.30  | 0.36  | 0.91  | -0.55 | 0.91 | -1.64 |
| 19  | 1.11  | 0.71  | 0.62  | 0.29  | 0.29  | 0.32  | -0.18 | -1.07 | -1.70 | -2.00 | -1.71 | -1.69 | -1.40 | -1.44 | -1.41 | -1.82 | -1.18 | -0.88 | -0.52 | -0.02 | 0.59  | 0.98  | 0.39  | 0.35  | -0.48 | 1.11 | -2.00 |
| 20  | 0.28  | 0.30  | 0.29  | 0.25  | 0.23  | 0.21  | -0.17 | -0.79 | -1.13 | -1.50 | -1.75 | -1.54 | -2.03 | -1.42 | -1.38 | -1.21 | -1.14 | -1.04 | -0.47 | -0.08 | 1.29  | 2.20  | 1.66  | 0.82  | -0.34 | 2.20 | -2.03 |
| 21  | 0.55  | 0.46  | 0.57  | 0.81  | 0.72  | 1.09  | 0.15  | -0.58 | -0.98 | -1.38 | -1.58 | -1.40 | -1.57 | -1.43 | -1.47 | -1.66 | -1.24 | -0.86 | -0.41 | 0.10  | 1.33  | 2.19  | 1.17  | 0.93  | -0.19 | 2.19 | -1.66 |
| 22  | 1.04  | 2.22  | 3.01  | 1.94  | 1.54  | 0.68  | 0.23  | -0.41 | -0.90 | -1.79 | -1.61 | -1.41 | -1.23 | -1.46 | -1.53 | -1.25 | -1.08 | -0.77 | -0.33 | 0.08  | 0.82  | 1.08  | 1.70  | 2.28  | 0.12  | 3.01 | -1.79 |
| 23  | 1.78  | 0.71  | 0.86  | 0.70  | 0.70  | 0.60  | 0.04  | -0.39 | -1.04 | -1.06 | -0.98 | -1.25 | -1.50 | -1.61 | -1.76 | -1.40 | -1.18 | -0.82 | -0.39 | 0.07  | 1.03  | 2.19  | 1.74  | 1.01  | -0.08 | 2.19 | -1.76 |
| 24  | 1.01  | 0.86  | 1.21  | 1.27  | 1.22  | 2.09  | 0.65  | -1.18 | -1.05 | -1.46 | -1.42 | -1.24 | -1.27 | -1.41 | -1.20 | -1.02 | -1.10 | -0.58 | -0.27 | 0.05  | 0.14  | 0.13  | 0.21  | 0.18  | -0.17 | 2.09 | -1.46 |
| 25  | 0.47  | 0.72  | 0.58  | 0.56  | 0.92  | 1.88  | 0.56  | -0.70 | -1.23 | -2.02 | -1.59 | -1.34 | -1.35 | -1.76 | -1.61 | -1.29 | -1.06 | -0.65 | -0.34 | 0.00  | 0.20  | 0.36  | 0.73  | 0.62  | -0.31 | 1.88 | -2.02 |
| 26  | 0.99  | 1.22  | 1.59  | 1.13  | 1.00  | 1.71  | 0.49  | -1.12 | -1.34 | -2.00 | -2.17 | -2.15 | -2.20 | -2.22 | -1.78 | -1.51 | -1.15 | -0.88 | -0.46 | 0.04  | 0.14  | 0.25  | 0.67  | 0.56  | -0.38 | 1.71 | -2.22 |
| 27  | 0.77  | 0.93  | 2.21  | 1.90  | 1.05  | 0.69  | -0.13 | -1.33 | -1.78 | -2.02 | -2.07 | -1.44 | -1.68 | -1.53 | -1.63 | -1.23 | -1.15 | -0.90 | -0.52 | -0.02 | 0.47  | 0.79  | 0.80  | 0.81  | -0.29 | 2.21 | -2.07 |
| 28  | 1.31  | 1.86  | 1.93  | 2.12  | 2.31  | 1.42  | 0.51  | -0.68 | -1.12 | -1.35 | -1.09 | -1.34 | -1.73 | -1.59 | -1.63 | -1.45 | -1.29 | -0.86 | -0.44 | 0.05  | 0.27  | 0.57  | 0.71  | 1.79  | 0.01  | 2.31 | -1.73 |
| 29  | 1.86  | 1.96  | 2.27  | 1.54  | 1.40  | 0.81  | 0.17  | -0.48 | -1.01 | -1.68 | -2.41 | -2.30 | -2.15 | -1.95 | -1.35 | -1.35 | -1.03 | -0.81 | -0.34 | 0.02  | 0.80  | 0.81  | 1.23  | 0.71  | -0.14 | 2.27 | -2.41 |
| 30  | 0.66  | 0.45  | 0.29  | 0.31  | 0.61  | 0.27  | -0.20 | -0.53 | -0.91 | -1.39 | -1.52 | -2.11 | -1.97 | -1.39 | -1.21 | -1.26 | -1.15 | -0.81 | -0.56 | -0.28 | -0.14 | -0.09 | -0.02 | -0.02 | -0.54 | 0.66 | -2.11 |
| 31  | -0.01 | 0.07  | 0.00  | 0.03  | 0.10  | 0.03  | -0.19 | -0.68 | -1.09 | -1.72 | -2.00 | -2.02 | -2.28 | -1.61 | -1.27 | -1.24 | -0.98 | -0.78 | -0.50 | -0.16 | -0.05 | -0.15 | -0.11 | 0.01  | -0.69 | 0.10 | -2.28 |
| Avg | 0.87  | 0.87  | 1.06  | 0.93  | 0.87  | 0.82  | 0.11  | -0.79 | -1.16 | -1.43 | -1.53 | -1.63 | -1.70 | -1.63 | -1.49 | -1.33 | -1.08 | -0.80 | -0.42 | -0.02 | 0.43  | 0.71  | 0.75  | 0.76  | -0.29 | --   | --    |
| Max | 2.39  | 2.57  | 3.01  | 2.50  | 2.31  | 2.09  | 0.75  | -0.28 | -0.62 | -0.57 | -0.70 | -1.12 | -0.81 | -0.97 | -0.88 | -0.75 | -0.54 | -0.28 | -0.08 | 0.40  | 1.59  | 2.20  | 2.09  | 2.28  | --    | 3.01 | --    |
| Min | -0.32 | -0.40 | -0.28 | -0.21 | -0.20 | -0.20 | -0.44 | -1.34 | -1.78 | -2.02 | -2.41 | -2.57 | -2.57 | -2.54 | -2.31 | -2.01 | -1.56 | -1.04 | -0.70 | -0.33 | -0.23 | -0.28 | -0.34 | -0.40 | --    | --   | -2.57 |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: Jun 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           | 0.25 | 0.38 | 0.79 | 0.67 | 0.66 | 0.37 | -0.08 | -0.46 | -1.04 | -1.63 | -2.17 | -2.30 | -1.97 | -1.81 | -1.62 | -1.19 | -1.18 | -0.88 | -0.47 | -0.11 | 0.25  | 0.64 | 0.63  | 0.69 | -0.48 | 0.79 | -2.30 |
| 2           | 0.77 | 1.16 | 1.05 | 1.38 | 1.40 | 0.94 | -0.17 | -0.55 | -1.14 | -1.28 | -1.16 | -1.42 | -1.09 | -1.54 | -1.33 | -1.17 | -1.09 | -0.82 | -0.51 | -0.16 | 0.13  | 1.12 | 1.30  | 1.17 | -0.13 | 1.40 | -1.54 |
| 3           | 1.02 | 1.21 | 1.55 | 1.47 | 1.89 | 1.42 | -0.04 | -0.84 | -0.88 | -1.13 | -1.37 | -1.16 | -1.50 | -1.82 | -1.98 | -1.33 | -1.27 | -0.85 | -0.48 | -0.07 | 0.22  | 0.72 | 0.86  | 0.86 | -0.15 | 1.89 | -1.98 |
| 4           | 1.80 | 1.46 | 1.47 | 1.41 | 1.63 | 1.41 | 0.19  | -0.84 | -1.27 | -1.26 | -1.37 | -1.32 | -1.20 | -1.53 | -1.47 | -1.37 | -1.10 | -0.89 | -0.47 | -0.06 | 0.72  | 2.02 | 0.83  | 0.39 | -0.03 | 2.02 | -1.53 |
| 5           | 0.83 | 1.05 | 1.33 | 2.00 | 1.75 | 1.95 | -0.25 | -1.08 | -0.96 | -0.90 | -1.11 | -1.01 | -1.16 | -1.47 | -1.51 | -1.19 | -1.08 | -0.78 | -0.46 | -0.04 | 0.24  | 0.88 | 0.58  | 0.78 | -0.07 | 2.00 | -1.51 |
| 6           | 0.63 | 1.50 | 0.76 | 0.73 | 1.57 | 1.30 | 0.00  | -0.72 | -0.80 | -0.84 | -1.04 | -1.49 | -1.52 | -1.20 | -1.35 | -1.14 | -1.03 | -0.83 | -0.50 | -0.09 | 0.35  | 0.96 | 1.80  | 1.84 | -0.05 | 1.84 | -1.52 |
| 7           | 1.16 | 1.40 | 1.43 | 1.22 | 0.88 | 1.20 | 0.17  | -0.88 | -0.60 | -1.07 | -1.28 | -1.35 | -1.36 | -1.30 | -1.47 | -1.29 | -1.33 | -0.85 | -0.55 | -0.14 | 0.22  | 0.91 | 0.82  | 0.68 | -0.14 | 1.43 | -1.47 |
| 8           | 0.31 | 0.13 | 0.03 | 0.08 | 0.12 | 0.19 | -0.45 | -0.91 | -1.45 | -2.03 | -1.89 | -1.40 | -1.52 | -1.38 | -1.37 | -1.29 | -1.02 | -0.69 | -0.40 | -0.10 | 0.08  | 0.50 | 0.58  | 0.47 | -0.56 | 0.58 | -2.03 |
| 9           | 1.10 | 2.14 | 2.13 | 1.21 | 1.81 | 1.74 | 0.54  | -0.90 | -1.23 | -1.22 | -1.05 | -1.23 | -1.31 | -1.57 | -1.75 | -1.22 | -1.11 | -0.85 | -0.49 | -0.07 | 0.49  | 0.22 | 0.94  | 0.78 | -0.04 | 2.14 | -1.75 |
| 10          | 0.97 | 1.70 | 1.73 | 1.38 | 0.47 | 1.08 | 0.31  | -0.90 | -1.68 | -1.93 | -2.13 | -2.54 | -2.37 | -1.95 | -1.58 | -1.64 | -1.20 | -0.97 | -0.48 | -0.03 | 0.08  | 0.15 | 0.63  | 0.47 | -0.44 | 1.73 | -2.54 |
| 11          | 0.34 | 0.36 | 0.50 | 0.51 | 0.86 | 0.90 | -0.45 | -1.28 | -1.59 | -2.07 | -2.23 | -2.50 | -2.35 | -2.64 | -2.10 | -1.76 | -1.63 | -1.14 | -0.61 | -0.29 | -0.14 | 0.02 | -0.02 | 0.00 | -0.81 | 0.90 | -2.64 |
| 12          | 0.22 | 0.32 | 0.50 | 0.49 | 0.60 | 0.60 | -0.32 | -1.09 | -0.79 | -1.77 | -2.47 | -2.37 | -1.95 | -1.79 | -1.61 | -1.53 | -1.37 | -1.17 | -0.64 | -0.23 | -0.13 | 0.24 | 0.24  | 0.98 | -0.63 | 0.98 | -2.47 |
| 13          | 1.83 | 1.61 | 1.82 | 1.17 | 0.96 | 1.13 | 0.22  | -0.66 | -0.64 | -1.00 | -1.48 | -1.93 | -1.93 | -1.43 | -1.33 | -1.30 | -1.38 | -1.10 | -0.60 | -0.07 | 0.72  | 1.72 | 1.14  | 1.44 | -0.05 | 1.83 | -1.93 |
| 14          | 2.13 | 2.23 | 1.91 | 1.55 | 1.88 | 1.34 | 0.41  | -0.95 | -0.95 | -0.92 | -1.67 | -1.79 | -1.23 | -1.13 | -1.29 | -1.16 | -1.14 | -0.78 | -0.44 | 0.22  | 1.19  | 1.83 | 1.59  | 2.23 | 0.21  | 2.23 | -1.79 |
| 15          | 2.63 | 2.41 | 3.17 | 1.37 | 2.09 | 2.91 | 1.32  | -0.50 | -0.72 | -1.48 | -1.05 | -1.34 | -1.46 | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | 0.72  | 3.17 | -1.48 |
| 16          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 17          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 18          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 19          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 20          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 21          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 22          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 23          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 24          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 25          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 26          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 27          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 28          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 29          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| 30          | --   | --   | --   | --   | --   | --   | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --   | --    | --   | --    | --   | --    |
| Avg         | 1.07 | 1.27 | 1.34 | 1.11 | 1.24 | 1.23 | 0.09  | -0.84 | -1.05 | -1.37 | -1.57 | -1.68 | -1.60 | -1.61 | -1.55 | -1.33 | -1.21 | -0.90 | -0.51 | -0.09 | 0.32  | 0.85 | 0.85  | 0.91 | -0.20 | --   | --    |
| Max         | 2.63 | 2.41 | 3.17 | 2.00 | 2.09 | 2.91 | 1.32  | -0.46 | -0.60 | -0.84 | -1.04 | -1.01 | -1.09 | -1.13 | -1.29 | -1.14 | -1.02 | -0.69 | -0.40 | 0.22  | 1.19  | 2.02 | 1.80  | 2.23 | --    | 3.17 | --    |
| Min         | 0.22 | 0.13 | 0.03 | 0.08 | 0.12 | 0.19 | -0.45 | -1.28 | -1.68 | -2.07 | -2.47 | -2.54 | -2.37 | -2.64 | -2.10 | -1.76 | -1.63 | -1.17 | -0.64 | -0.29 | -0.14 | 0.02 | -0.02 | 0.00 | --    | --   | -2.64 |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, Precip\_Inches"**  
**Month: Apr 2017**

[illegible]

SAROAD for Resolution, West\_Plant  
"Component, Channel: Table100, Precip\_Inches"  
Month: May 2017

[illegible]

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, Precip\_Inches"**  
**Month: Jun 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  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 9           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 10          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 11          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 12          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 13          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 14          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | 0   | 0   |
| 15          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0     | 0   | 0   |
| 16          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 17          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 18          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 19          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 20          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 21          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 22          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 23          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 24          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 25          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 26          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 27          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 28          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 29          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| 30          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --    | --  | --  |
| Total       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0     | --  | --  |
| Max         | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | --    | 0   | --  |
| Min         | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | --    | --  | 0   |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: Apr 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           | 41 | 45 | 47 | 47 | 46 | 45 | 41 | 34 | 30 | 24 | 23 | 23 | 22 | 22 | 23 | 30 | 25 | 21 | 24 | 27 | 31 | 32 | 33 | 35 | 32  | 47  | 21  |   |
| 2           | 38 | 38 | 42 | 43 | 45 | 48 | 45 | 41 | 32 | 28 | 28 | 26 | 23 | 21 | 21 | 20 | 20 | 21 | 23 | 25 | 25 | 30 | 30 | 32 | 31  | 48  | 20  |   |
| 3           | 32 | 32 | 33 | 33 | 36 | 34 | 34 | 29 | 24 | 23 | 21 | 19 | 16 | 15 | 16 | 16 | 16 | 15 | 14 | 16 | 20 | 26 | 37 | 47 | 25  | 47  | 14  |   |
| 4           | 52 | 40 | 34 | 45 | 41 | 41 | 42 | 36 | 26 | 24 | 20 | 17 | 15 | 16 | 11 | 12 | 13 | 14 | 17 | 19 | 21 | 23 | 24 | 25 | 26  | 52  | 11  |   |
| 5           | 22 | 18 | 15 | 15 | 14 | 15 | 18 | 15 | 12 | 12 | 12 | 11 | 12 | 11 | 10 | 9  | 8  | 8  | 9  | 11 | 14 | 16 | 15 | 14 | 13  | 22  | 8   |   |
| 6           | 16 | 17 | 17 | 18 | 18 | 17 | 15 | 12 | 11 | 11 | 11 | 9  | 8  | 8  | 8  | 8  | 8  | 9  | 10 | 12 | 14 | 16 | 17 | 17 | 13  | 18  | 8   |   |
| 7           | 17 | 16 | 17 | 18 | 20 | 21 | 22 | 18 | 17 | 15 | 12 | 11 | 11 | 10 | 9  | 9  | 10 | 10 | 12 | 14 | 16 | 17 | 18 | 19 | 15  | 22  | 9   |   |
| 8           | 18 | 20 | 20 | 21 | 20 | 18 | 22 | 19 | 18 | 13 | 10 | 9  | 8  | 8  | 7  | 8  | 8  | 7  | 6  | 9  | 19 | 27 | 31 | 33 | 16  | 33  | 6   |   |
| 9           | 23 | 24 | 27 | 29 | 28 | 33 | 34 | 30 | 24 | 22 | 18 | 17 | 16 | 14 | 11 | 10 | 12 | 13 | 13 | 16 | 18 | 20 | 22 | 23 | 21  | 34  | 10  |   |
| 10          | 25 | 25 | 23 | 22 | 24 | 25 | 25 | 21 | 19 | 15 | 14 | 11 | 11 | 8  | 8  | 8  | 6  | 6  | 6  | 8  | 11 | 12 | 13 | 13 | 15  | 25  | 6   |   |
| 11          | 13 | 13 | 14 | 15 | 13 | 12 | 12 | 11 | 12 | 9  | 8  | 5  | 4  | 4  | 5  | 5  | 5  | 6  | 8  | 10 | 10 | 12 | 13 | 13 | 10  | 15  | 4   |   |
| 12          | 14 | 15 | 15 | 16 | 16 | 14 | 15 | 13 | 11 | 9  | 9  | 8  | 8  | 8  | 8  | 7  | 7  | 8  | 10 | 11 | 12 | 13 | 15 | 15 | 12  | 16  | 7   |   |
| 13          | 15 | 16 | 16 | 16 | 16 | 14 | 14 | 16 | 15 | 13 | 11 | 9  | 7  | 6  | 7  | 9  | 10 | 10 | 11 | 14 | 16 | 17 | 17 | 20 | 13  | 20  | 6   |   |
| 14          | 20 | 20 | 20 | 20 | 22 | 22 | 24 | 19 | 17 | 14 | 15 | 15 | 12 | 9  | 10 | 10 | 10 | 11 | 11 | 15 | 17 | 19 | 20 | 21 | 16  | 24  | 9   |   |
| 15          | 22 | 22 | 23 | 24 | 24 | 27 | 26 | 21 | 16 | 15 | 14 | 12 | 11 | 10 | 9  | 8  | 8  | 8  | 9  | 13 | 13 | 15 | 17 | 18 | 16  | 27  | 8   |   |
| 16          | 18 | 18 | 18 | 17 | 19 | 20 | 21 | 17 | 15 | 12 | 8  | 8  | 7  | 6  | 5  | 5  | 5  | 7  | 9  | 9  | 9  | 12 | 13 | 13 | 12  | 21  | 5   |   |
| 17          | 13 | 13 | 14 | 15 | 15 | 16 | 16 | 16 | 13 | 12 | 12 | 10 | 9  | 8  | 8  | 7  | 9  | 9  | 9  | 9  | 11 | 14 | 15 | 15 | 12  | 16  | 7   |   |
| 18          | 17 | 17 | 19 | 19 | 19 | 20 | 21 | 19 | 16 | 15 | 14 | 14 | 15 | 14 | 13 | 13 | 12 | 10 | 11 | 13 | 14 | 18 | 20 | 23 | 16  | 23  | 10  |   |
| 19          | 24 | 26 | 28 | 29 | 31 | 33 | 31 | 24 | 22 | 21 | 20 | 17 | 16 | 14 | 12 | 13 | 12 | 13 | 14 | 15 | 15 | 18 | 19 | 20 | 20  | 33  | 12  |   |
| 20          | 21 | 22 | 23 | 22 | 22 | 20 | 20 | 16 | 14 | 12 | 11 | 11 | 9  | 9  | 9  | 9  | 8  | 9  | 11 | 12 | 12 | 11 | 11 | 10 | 14  | 23  | 8   |   |
| 21          | 12 | 12 | 12 | 14 | 14 | 13 | 13 | 13 | 10 | 9  | 7  | 7  | 7  | 7  | 6  | 5  | 5  | 7  | 7  | 8  | 9  | 10 | 11 | 13 | 10  | 14  | 5   |   |
| 22          | 14 | 16 | 16 | 16 | 15 | 16 | 15 | 14 | 13 | 10 | 9  | 8  | 7  | 7  | 6  | 6  | 6  | 7  | 7  | 9  | 11 | 11 | 13 | 13 | 11  | 16  | 6   |   |
| 23          | 14 | 11 | 11 | 12 | 13 | 17 | 20 | 20 | 19 | 17 | 14 | 13 | 11 | 10 | 7  | 6  | 6  | 6  | 7  | 9  | 11 | 11 | 12 | 14 | 12  | 20  | 6   |   |
| 24          | 15 | 13 | 12 | 12 | 13 | 13 | 14 | 13 | 11 | 10 | 9  | 9  | 9  | 10 | 10 | 10 | 11 | 11 | 12 | 13 | 13 | 13 | 13 | 14 | 12  | 15  | 9   |   |
| 25          | 15 | 17 | 20 | 23 | 27 | 33 | 39 | 39 | 43 | 40 | 38 | 35 | 32 | 27 | 25 | 24 | 21 | 20 | 19 | 16 | 10 | 12 | 14 | 16 | 25  | 43  | 10  |   |
| 26          | 14 | 17 | 16 | 16 | 19 | 18 | 20 | 16 | 15 | 12 | 11 | 11 | 9  | 10 | 9  | 9  | 10 | 11 | 11 | 13 | 14 | 15 | 15 | 16 | 14  | 20  | 9   |   |
| 27          | 17 | 21 | 30 | 30 | 25 | 21 | 21 | 20 | 19 | 19 | 19 | 18 | 19 | 20 | 19 | 20 | 21 | 21 | 21 | 23 | 25 | 24 | 24 | 25 | 22  | 30  | 17  |   |
| 28          | 26 | 35 | 34 | 36 | 37 | 39 | 41 | 38 | 39 | 39 | 40 | 45 | 47 | 43 | 29 | 17 | 11 | 10 | 6  | 5  | 5  | 8  | 12 | 16 | 27  | 47  | 5   |   |
| 29          | 17 | 20 | 21 | 18 | 20 | 22 | 22 | 18 | 16 | 14 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 15 | 16 | 18 | 18 | 19 | 16  | 22  | 12  |   |
| 30          | 18 | 18 | 18 | 15 | 15 | 17 | 18 | 13 | 12 | 11 | 10 | 9  | 9  | 8  | 8  | 8  | 7  | 8  | 8  | 10 | 12 | 12 | 13 | 14 | 12  | 18  | 7   |   |
| Avg         | 21 | 21 | 22 | 23 | 23 | 24 | 24 | 21 | 19 | 17 | 15 | 14 | 13 | 13 | 11 | 11 | 11 | 11 | 12 | 13 | 15 | 17 | 18 | 20 | 17  | --  | --  |   |
| Max         | 52 | 45 | 47 | 47 | 46 | 48 | 45 | 41 | 43 | 40 | 40 | 45 | 47 | 43 | 29 | 30 | 25 | 21 | 24 | 27 | 31 | 32 | 37 | 47 | --  | 52  | --  |   |
| Min         | 12 | 11 | 11 | 12 | 13 | 12 | 12 | 11 | 10 | 9  | 7  | 5  | 4  | 4  | 5  | 5  | 5  | 5  | 6  | 6  | 5  | 5  | 8  | 11 | 10  | --  | --  | 4 |



**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: May 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 | 14 | 14 | 15 | 13 | 14 | 14 | 10 | 11 | 9  | 8  | 8  | 7  | 7  | 7  | 7  | 7  | 7  | 8  | 9  | 10 | 12 | 12 | 13 | 10  | 15  | 7   |
| 2           | 14 | 14 | 14 | 15 | 15 | 14 | 13 | 12 | 12 | 10 | 9  | 9  | 8  | 8  | 8  | 8  | 8  | 9  | 10 | 12 | 14 | 14 | 15 | 15 | 12  | 15  | 8   |
| 3           | 16 | 16 | 17 | 18 | 18 | 17 | 18 | 16 | 12 | 10 | 10 | 11 | 11 | 10 | 9  | 8  | 5  | 6  | 9  | 11 | 13 | 14 | 15 | 15 | 13  | 18  | 5   |
| 4           | 16 | 15 | 11 | 10 | 11 | 11 | 9  | 10 | 8  | 7  | 6  | 6  | 6  | 5  | 5  | 5  | 5  | 5  | 6  | 8  | 8  | 10 | 12 | 12 | 9   | 16  | 5   |
| 5           | 13 | 12 | 13 | 11 | 11 | 13 | 14 | 14 | 13 | 12 | 12 | 9  | 8  | 7  | 7  | 7  | 7  | 8  | 9  | 10 | 12 | 11 | 12 | 12 | 11  | 14  | 7   |
| 6           | 13 | 13 | 14 | 15 | 15 | 15 | 17 | 14 | 14 | 14 | 14 | 13 | 11 | 9  | 8  | 8  | 8  | 10 | 12 | 25 | 31 | 32 | 33 | 35 | 16  | 35  | 8   |
| 7           | 39 | 38 | 41 | 47 | 50 | 54 | 52 | 46 | 43 | 45 | 47 | 44 | 42 | 38 | 36 | 34 | 31 | 33 | 36 | 39 | 39 | 39 | 39 | 41 | 41  | 54  | 31  |
| 8           | 40 | 42 | 42 | 41 | 40 | 40 | 40 | 34 | 29 | 28 | 27 | 25 | 24 | 23 | 23 | 23 | 51 | 44 | 34 | 35 | 38 | 50 | 61 | 68 | 38  | 68  | 23  |
| 9           | 82 | 94 | 94 | 83 | 86 | 88 | 83 | 80 | 72 | 68 | 61 | 47 | 42 | 38 | 40 | 37 | 43 | 47 | 46 | 53 | 58 | 61 | 65 | 66 | 64  | 94  | 37  |
| 10          | 65 | 66 | 61 | 70 | 71 | 71 | 69 | 58 | 54 | 54 | 50 | 44 | 42 | 38 | 34 | 32 | 32 | 31 | 32 | 37 | 39 | 45 | 47 | 49 | 50  | 71  | 31  |
| 11          | 51 | 51 | 53 | 54 | 52 | 54 | 50 | 41 | 36 | 34 | 33 | 30 | 29 | 28 | 26 | 25 | 25 | 25 | 26 | 29 | 33 | 34 | 38 | 40 | 37  | 54  | 25  |
| 12          | 41 | 38 | 42 | 40 | 43 | 41 | 37 | 35 | 28 | 26 | 24 | 18 | 14 | 15 | 17 | 17 | 16 | 14 | 15 | 17 | 20 | 23 | 24 | 26 | 26  | 43  | 14  |
| 13          | 28 | 30 | 30 | 29 | 30 | 31 | 28 | 22 | 19 | 17 | 15 | 14 | 12 | 12 | 12 | 10 | 9  | 8  | 9  | 11 | 14 | 16 | 17 | 19 | 18  | 31  | 8   |
| 14          | 20 | 21 | 21 | 21 | 21 | 24 | 26 | 22 | 22 | 20 | 16 | 14 | 13 | 13 | 11 | 13 | 15 | 15 | 15 | 18 | 22 | 25 | 24 | 24 | 19  | 26  | 11  |
| 15          | 28 | 31 | 34 | 37 | 40 | 41 | 36 | 26 | 24 | 21 | 18 | 15 | 13 | 13 | 13 | 17 | 19 | 16 | 13 | 13 | 13 | 15 | 17 | 21 | 22  | 41  | 13  |
| 16          | 25 | 27 | 32 | 34 | 36 | 36 | 36 | 35 | 36 | 42 | 41 | 34 | 28 | 28 | 23 | 21 | 19 | 17 | 14 | 18 | 20 | 21 | 24 | 27 | 28  | 42  | 14  |
| 17          | 29 | 31 | 33 | 33 | 32 | 35 | 32 | 28 | 28 | 25 | 22 | 19 | 17 | 16 | 15 | 13 | 14 | 15 | 17 | 19 | 25 | 30 | 33 | 34 | 25  | 35  | 13  |
| 18          | 36 | 36 | 37 | 36 | 37 | 40 | 38 | 35 | 34 | 33 | 29 | 21 | 14 | 14 | 12 | 12 | 10 | 8  | 9  | 11 | 12 | 13 | 14 | 16 | 23  | 40  | 8   |
| 19          | 18 | 19 | 20 | 26 | 31 | 34 | 34 | 26 | 24 | 23 | 19 | 16 | 13 | 9  | 9  | 10 | 10 | 11 | 12 | 13 | 15 | 15 | 14 | 15 | 18  | 34  | 9   |
| 20          | 15 | 15 | 15 | 15 | 16 | 16 | 15 | 14 | 14 | 13 | 12 | 10 | 10 | 9  | 8  | 8  | 8  | 8  | 9  | 12 | 13 | 14 | 14 | 16 | 13  | 16  | 8   |
| 21          | 16 | 14 | 14 | 13 | 14 | 15 | 14 | 12 | 10 | 9  | 8  | 7  | 7  | 6  | 5  | 5  | 6  | 7  | 7  | 8  | 10 | 12 | 11 | 13 | 10  | 16  | 5   |
| 22          | 12 | 13 | 14 | 14 | 14 | 15 | 14 | 14 | 12 | 10 | 9  | 9  | 9  | 8  | 7  | 7  | 7  | 8  | 8  | 9  | 11 | 11 | 13 | 14 | 11  | 15  | 7   |
| 23          | 12 | 12 | 13 | 11 | 10 | 10 | 11 | 11 | 9  | 8  | 8  | 8  | 6  | 6  | 6  | 6  | 5  | 6  | 6  | 7  | 8  | 9  | 9  | 10 | 9   | 13  | 5   |
| 24          | 10 | 11 | 12 | 13 | 13 | 13 | 14 | 12 | 12 | 10 | 9  | 8  | 8  | 6  | 6  | 7  | 7  | 7  | 7  | 7  | 8  | 10 | 11 | 10 | 10  | 14  | 6   |
| 25          | 10 | 11 | 12 | 12 | 13 | 15 | 15 | 11 | 10 | 9  | 9  | 7  | 7  | 6  | 5  | 5  | 5  | 5  | 6  | 7  | 8  | 8  | 9  | 12 | 9   | 15  | 5   |
| 26          | 13 | 12 | 13 | 14 | 15 | 18 | 17 | 14 | 15 | 12 | 11 | 11 | 7  | 8  | 7  | 7  | 8  | 8  | 8  | 10 | 11 | 11 | 11 | 12 | 11  | 18  | 7   |
| 27          | 12 | 12 | 13 | 13 | 12 | 12 | 12 | 11 | 10 | 8  | 7  | 7  | 7  | 6  | 6  | 6  | 6  | 6  | 7  | 8  | 10 | 11 | 12 | 13 | 9   | 13  | 6   |
| 28          | 14 | 15 | 16 | 17 | 18 | 18 | 17 | 15 | 12 | 11 | 10 | 9  | 8  | 7  | 7  | 6  | 5  | 4  | 5  | 7  | 8  | 8  | 9  | 10 | 11  | 18  | 4   |
| 29          | 10 | 11 | 11 | 12 | 11 | 11 | 12 | 11 | 10 | 11 | 12 | 11 | 9  | 6  | 5  | 5  | 6  | 6  | 7  | 8  | 9  | 10 | 10 | 9  | 9   | 12  | 5   |
| 30          | 10 | 10 | 13 | 16 | 18 | 19 | 20 | 23 | 22 | 20 | 18 | 16 | 14 | 13 | 13 | 10 | 9  | 9  | 10 | 23 | 24 | 26 | 25 | 27 | 17  | 27  | 9   |
| 31          | 28 | 28 | 28 | 27 | 28 | 29 | 28 | 27 | 25 | 21 | 19 | 17 | 15 | 14 | 13 | 12 | 12 | 11 | 12 | 12 | 15 | 16 | 16 | 16 | 20  | 29  | 11  |
| Avg         | 24 | 25 | 26 | 26 | 27 | 28 | 27 | 24 | 22 | 21 | 19 | 17 | 15 | 14 | 13 | 13 | 13 | 13 | 14 | 16 | 18 | 20 | 22 | 23 | 20  | --  | --  |
| Max         | 82 | 94 | 94 | 83 | 86 | 88 | 83 | 80 | 72 | 68 | 61 | 47 | 42 | 38 | 40 | 37 | 51 | 47 | 46 | 53 | 58 | 61 | 65 | 68 | --  | 94  | --  |
| Min         | 10 | 10 | 11 | 10 | 10 | 10 | 9  | 10 | 8  | 7  | 6  | 6  | 6  | 5  | 5  | 5  | 5  | 4  | 5  | 7  | 8  | 8  | 9  | 9  | --  | --  | 4   |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: Jun 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 | 19 | 20 | 21 | 22 | 21 | 21 | 21 | 18 | 17 | 15 | 13 | 13 | 14 | 13 | 13 | 11 | 11 | 11 | 13 | 14 | 15 | 18 | 19 | 16  | 22  | 11  |    |
| 2           | 19 | 21 | 24 | 29 | 32 | 34 | 32 | 28 | 24 | 20 | 19 | 18 | 17 | 15 | 15 | 14 | 13 | 13 | 13 | 14 | 15 | 16 | 18 | 19 | 20  | 34  | 13  |    |
| 3           | 19 | 19 | 19 | 20 | 22 | 22 | 21 | 20 | 17 | 16 | 15 | 13 | 12 | 11 | 10 | 9  | 9  | 8  | 9  | 10 | 11 | 12 | 11 | 14 | 15  | 22  | 8   |    |
| 4           | 15 | 17 | 19 | 20 | 22 | 22 | 21 | 17 | 16 | 14 | 13 | 11 | 11 | 10 | 10 | 9  | 9  | 9  | 10 | 11 | 13 | 14 | 13 | 13 | 14  | 22  | 9   |    |
| 5           | 15 | 16 | 18 | 19 | 20 | 21 | 20 | 16 | 15 | 14 | 13 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 11 | 12 | 13 | 15 | 15 | 15 | 14  | 21  | 10  |    |
| 6           | 17 | 19 | 21 | 21 | 23 | 24 | 23 | 20 | 18 | 15 | 13 | 13 | 12 | 12 | 11 | 10 | 10 | 11 | 11 | 12 | 13 | 15 | 17 | 18 | 19  | 16  | 24  | 10 |
| 7           | 20 | 19 | 21 | 22 | 22 | 24 | 23 | 19 | 17 | 15 | 12 | 12 | 11 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 14 | 15 | 15 | 16 | 15  | 24  | 10  |    |
| 8           | 22 | 24 | 27 | 28 | 28 | 29 | 26 | 22 | 18 | 15 | 13 | 9  | 6  | 7  | 6  | 7  | 7  | 8  | 9  | 10 | 11 | 12 | 12 | 13 | 15  | 29  | 6   |    |
| 9           | 15 | 16 | 17 | 16 | 18 | 18 | 17 | 14 | 13 | 12 | 12 | 10 | 10 | 9  | 9  | 10 | 9  | 9  | 10 | 11 | 13 | 13 | 15 | 15 | 13  | 18  | 9   |    |
| 10          | 16 | 16 | 17 | 17 | 17 | 17 | 16 | 13 | 12 | 10 | 7  | 6  | 6  | 6  | 6  | 5  | 4  | 4  | 4  | 5  | 5  | 6  | 9  | 13 | 10  | 17  | 4   |    |
| 11          | 13 | 16 | 19 | 26 | 31 | 32 | 23 | 16 | 13 | 10 | 8  | 7  | 6  | 6  | 7  | 7  | 7  | 9  | 15 | 17 | 16 | 16 | 19 | 21 | 15  | 32  | 6   |    |
| 12          | 22 | 20 | 19 | 20 | 21 | 23 | 22 | 20 | 20 | 18 | 16 | 16 | 16 | 16 | 15 | 12 | 12 | 12 | 13 | 15 | 13 | 14 | 13 | 13 | 17  | 23  | 12  |    |
| 13          | 14 | 15 | 15 | 13 | 13 | 14 | 13 | 11 | 8  | 7  | 6  | 5  | 4  | 5  | 4  | 4  | 4  | 4  | 4  | 5  | 6  | 7  | 7  | 8  | 8   | 15  | 4   |    |
| 14          | 8  | 8  | 9  | 8  | 9  | 8  | 8  | 8  | 7  | 6  | 4  | 3  | 3  | 3  | 2  | 2  | 1  | 1  | 2  | 2  | 4  | 5  | 5  | 5  | 5   | 9   | 1   |    |
| 15          | 6  | 6  | 7  | 6  | 7  | 6  | 6  | 6  | 4  | 4  | 3  | 3  | 2  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5   | 7   | 2   |    |
| 16          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 17          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 18          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 19          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 20          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 21          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 22          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 23          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 24          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 25          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 26          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 27          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 28          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 29          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| 30          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |    |
| Avg         | 16 | 17 | 18 | 19 | 20 | 21 | 19 | 17 | 15 | 13 | 11 | 10 | 9  | 10 | 9  | 9  | 8  | 9  | 9  | 11 | 11 | 13 | 13 | 15 | 14  | --  | --  |    |
| Max         | 22 | 24 | 27 | 29 | 32 | 34 | 32 | 28 | 24 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 13 | 15 | 17 | 16 | 17 | 19 | 21 | --  | 34  | --  |    |
| Min         | 6  | 6  | 7  | 6  | 7  | 6  | 6  | 6  | 4  | 4  | 3  | 3  | 2  | 3  | 2  | 2  | 1  | 1  | 2  | 2  | 4  | 5  | 5  | 5  | --  | --  | 1   |    |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: Apr 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      | 13.3 | 230 | 477 | 683 | 809 | 665   | 474   | 534 | 591 | 368 | 429 | 205 | 22.5 | 0       | 0  | 0  | 0  | 0      | 229 | 809   | 0   |
| 2   | 0       | 0 | 0 | 0 | 0 | 0      | 13.5 | 235 | 480 | 693 | 844 | 930   | 951   | 897 | 793 | 635 | 435 | 209 | 23.1 | 0       | 0  | 0  | 0  | 0      | 297 | 951   | 0   |
| 3   | 0       | 0 | 0 | 0 | 0 | 0      | 12.8 | 247 | 488 | 577 | 795 | 926   | 952   | 895 | 790 | 609 | 455 | 212 | 27.2 | 0       | 0  | 0  | 0  | 0.0913 | 291 | 952   | 0   |
| 4   | 0.0523  | 0 | 0 | 0 | 0 | 0      | 10.5 | 271 | 511 | 724 | 883 | 970   | 1,012 | 801 | 737 | 443 | 338 | 214 | 24.2 | 0       | 0  | 0  | 0  | 0      | 289 | 1,012 | 0   |
| 5   | 0       | 0 | 0 | 0 | 0 | 0      | 23   | 281 | 510 | 727 | 889 | 979   | 998   | 945 | 842 | 663 | 450 | 217 | 26.5 | 0       | 0  | 0  | 0  | 0      | 315 | 998   | 0   |
| 6   | 0       | 0 | 0 | 0 | 0 | 0      | 17.2 | 279 | 509 | 668 | 878 | 947   | 999   | 946 | 836 | 667 | 456 | 203 | 28.7 | 0       | 0  | 0  | 0  | 0      | 310 | 999   | 0   |
| 7   | 0       | 0 | 0 | 0 | 0 | 0      | 27.9 | 283 | 517 | 667 | 886 | 858   | 869   | 836 | 595 | 482 | 304 | 153 | 19.2 | 0       | 0  | 0  | 0  | 0      | 271 | 886   | 0   |
| 8   | 0       | 0 | 0 | 0 | 0 | 0.002  | 40.7 | 189 | 422 | 644 | 779 | 825   | 917   | 937 | 775 | 489 | 483 | 193 | 28.6 | 0       | 0  | 0  | 0  | 0      | 280 | 937   | 0   |
| 9   | 0       | 0 | 0 | 0 | 0 | 0      | 38.2 | 285 | 533 | 750 | 822 | 720   | 847   | 920 | 657 | 457 | 391 | 175 | 28.9 | 0       | 0  | 0  | 0  | 0      | 276 | 920   | 0   |
| 10  | 0       | 0 | 0 | 0 | 0 | 0      | 39.4 | 292 | 533 | 726 | 856 | 974   | 986   | 951 | 843 | 674 | 457 | 221 | 34.9 | 0       | 0  | 0  | 0  | 0      | 316 | 986   | 0   |
| 11  | 0       | 0 | 0 | 0 | 0 | 0      | 49.2 | 273 | 445 | 614 | 761 | 956   | 819   | 690 | 792 | 678 | 456 | 151 | 33   | 0       | 0  | 0  | 0  | 0      | 280 | 956   | 0   |
| 12  | 0       | 0 | 0 | 0 | 0 | 0.0135 | 48.7 | 287 | 524 | 734 | 891 | 978   | 1,003 | 957 | 848 | 678 | 464 | 232 | 40   | 0       | 0  | 0  | 0  | 0      | 320 | 1,003 | 0   |
| 13  | 0       | 0 | 0 | 0 | 0 | 0.0457 | 49.9 | 264 | 464 | 704 | 771 | 860   | 851   | 912 | 646 | 488 | 402 | 237 | 36.6 | 0       | 0  | 0  | 0  | 0      | 279 | 912   | 0   |
| 14  | 0       | 0 | 0 | 0 | 0 | 0.007  | 49.7 | 298 | 536 | 747 | 899 | 995   | 1,017 | 972 | 858 | 688 | 467 | 232 | 40.5 | 0       | 0  | 0  | 0  | 0      | 325 | 1,017 | 0   |
| 15  | 0       | 0 | 0 | 0 | 0 | 0.111  | 52.6 | 313 | 552 | 756 | 911 | 1,003 | 1,028 | 978 | 871 | 701 | 485 | 247 | 42.5 | 0       | 0  | 0  | 0  | 0      | 331 | 1,028 | 0   |
| 16  | 0       | 0 | 0 | 0 | 0 | 0.354  | 57.1 | 301 | 528 | 750 | 817 | 975   | 969   | 970 | 851 | 710 | 407 | 210 | 35.9 | 0       | 0  | 0  | 0  | 0      | 316 | 975   | 0   |
| 17  | 0       | 0 | 0 | 0 | 0 | 0.32   | 68.8 | 291 | 545 | 771 | 853 | 945   | 997   | 932 | 878 | 665 | 354 | 186 | 54.3 | 0       | 0  | 0  | 0  | 0      | 314 | 997   | 0   |
| 18  | 0       | 0 | 0 | 0 | 0 | 0.133  | 57.3 | 321 | 555 | 752 | 901 | 997   | 1,025 | 971 | 859 | 689 | 479 | 250 | 45.5 | 0       | 0  | 0  | 0  | 0      | 329 | 1,025 | 0   |
| 19  | 0       | 0 | 0 | 0 | 0 | 0.469  | 62.5 | 322 | 556 | 758 | 909 | 1,006 | 1,027 | 976 | 862 | 691 | 477 | 246 | 47.5 | 0       | 0  | 0  | 0  | 0      | 331 | 1,027 | 0   |
| 20  | 0       | 0 | 0 | 0 | 0 | 0.505  | 66.4 | 332 | 571 | 779 | 934 | 1,026 | 1,048 | 996 | 884 | 714 | 495 | 257 | 49.7 | 0       | 0  | 0  | 0  | 0      | 340 | 1,048 | 0   |
| 21  | 0       | 0 | 0 | 0 | 0 | 0.488  | 68.9 | 346 | 583 | 785 | 935 | 1,022 | 1,042 | 987 | 881 | 711 | 494 | 254 | 50.1 | 0       | 0  | 0  | 0  | 0      | 340 | 1,042 | 0   |
| 22  | 0       | 0 | 0 | 0 | 0 | 0.801  | 71.9 | 342 | 579 | 780 | 930 | 1,016 | 1,038 | 985 | 876 | 704 | 494 | 265 | 44   | 0       | 0  | 0  | 0  | 0      | 339 | 1,038 | 0   |
| 23  | 0       | 0 | 0 | 0 | 0 | 0.53   | 72.4 | 344 | 573 | 783 | 875 | 1,001 | 1,027 | 932 | 869 | 701 | 369 | 182 | 45.4 | 0.0085  | 0  | 0  | 0  | 0      | 324 | 1,027 | 0   |
| 24  | 0       | 0 | 0 | 0 | 0 | 1.01   | 77   | 349 | 587 | 787 | 923 | 967   | 879   | 773 | 625 | 384 | 275 | 163 | 59.4 | 0       | 0  | 0  | 0  | 0      | 285 | 967   | 0   |
| 25  | 0       | 0 | 0 | 0 | 0 | 3.12   | 101  | 226 | 409 | 632 | 759 | 736   | 941   | 939 | 810 | 690 | 476 | 209 | 49.2 | 0       | 0  | 0  | 0  | 0      | 291 | 941   | 0   |
| 26  | 0       | 0 | 0 | 0 | 0 | 2.3    | 91.3 | 359 | 586 | 771 | 868 | 1,020 | 1,038 | 981 | 876 | 698 | 437 | 178 | 28.4 | 0       | 0  | 0  | 0  | 0      | 331 | 1,038 | 0   |
| 27  | 0       | 0 | 0 | 0 | 0 | 2.29   | 59.9 | 237 | 544 | 738 | 882 | 975   | 985   | 926 | 601 | 384 | 212 | 132 | 32.3 | 0.185   | 0  | 0  | 0  | 0      | 280 | 985   | 0   |
| 28  | 0       | 0 | 0 | 0 | 0 | 1.83   | 85.7 | 140 | 257 | 204 | 260 | 167   | 299   | 771 | 821 | 716 | 499 | 258 | 61.9 | 0.0402  | 0  | 0  | 0  | 0      | 189 | 821   | 0   |
| 29  | 0       | 0 | 0 | 0 | 0 | 1.57   | 95.7 | 380 | 612 | 807 | 943 | 1,019 | 1,085 | 872 | 705 | 538 | 258 | 162 | 67.2 | 0.00775 | 0  | 0  | 0  | 0      | 314 | 1,085 | 0   |
| 30  | 0       | 0 | 0 | 0 | 0 | 2.17   | 100  | 381 | 613 | 807 | 941 | 1,019 | 1,040 | 994 | 890 | 725 | 514 | 282 | 67.5 | 0.0045  | 0  | 0  | 0  | 0      | 349 | 1,040 | 0   |
| Avg | 0.00174 | 0 | 0 | 0 | 0 | 0.602  | 54.1 | 290 | 520 | 711 | 847 | 916   | 939   | 906 | 792 | 615 | 424 | 211 | 39.8 | 0.00822 | 0  | 0  | 0  | 0.003  | 303 | --    | --  |
| Max | 0.0523  | 0 | 0 | 0 | 0 | 3.12   | 101  | 381 | 613 | 807 | 943 | 1,026 | 1,085 | 996 | 890 | 725 | 514 | 282 | 67.5 | 0.185   | 0  | 0  | 0  | 0.0913 | --  | 1,085 | --  |
| Min | 0       | 0 | 0 | 0 | 0 | 0      | 10.5 | 140 | 257 | 204 | 260 | 167   | 299   | 534 | 591 | 368 | 212 | 132 | 19.2 | 0       | 0  | 0  | 0  | 0      | --  | --    | 0   |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: May 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      | 2.04 | 104  | 381 | 609 | 802 | 938 | 1,016 | 1,039 | 994   | 889 | 725 | 514 | 282  | 68.1 | 0.00275 | 0  | 0  | 0  | 0  | 348 | 1,039 | 0   |
| 2   | 0 | 0 | 0       | 0       | 0      | 2.61 | 106  | 378 | 605 | 794 | 928 | 1,005 | 1,028 | 985   | 870 | 720 | 501 | 275  | 67.8 | 0.0095  | 0  | 0  | 0  | 0  | 344 | 1,028 | 0   |
| 3   | 0 | 0 | 0       | 0       | 0      | 2.14 | 107  | 375 | 605 | 794 | 920 | 998   | 1,014 | 970   | 873 | 715 | 515 | 282  | 67.8 | 0       | 0  | 0  | 0  | 0  | 343 | 1,014 | 0   |
| 4   | 0 | 0 | 0       | 0       | 0      | 2.27 | 113  | 378 | 602 | 794 | 923 | 1,003 | 1,024 | 977   | 877 | 717 | 508 | 278  | 70.6 | 0.0168  | 0  | 0  | 0  | 0  | 344 | 1,024 | 0   |
| 5   | 0 | 0 | 0       | 0       | 0      | 3.49 | 111  | 369 | 594 | 777 | 905 | 972   | 995   | 950   | 731 | 182 | 180 | 55.2 | 8.21 | 0       | 0  | 0  | 0  | 0  | 285 | 995   | 0   |
| 6   | 0 | 0 | 0       | 0       | 0      | 5.75 | 89.2 | 347 | 597 | 785 | 911 | 986   | 1,002 | 967   | 874 | 707 | 471 | 263  | 65.8 | 0.52    | 0  | 0  | 0  | 0  | 336 | 1,002 | 0   |
| 7   | 0 | 0 | 0       | 0       | 0      | 7.39 | 119  | 318 | 529 | 705 | 821 | 817   | 1,019 | 747   | 649 | 521 | 487 | 183  | 64.6 | 0.426   | 0  | 0  | 0  | 0  | 291 | 1,019 | 0   |
| 8   | 0 | 0 | 0       | 0       | 0      | 5.05 | 124  | 287 | 583 | 743 | 869 | 938   | 730   | 928   | 575 | 318 | 126 | 218  | 60.1 | 0.425   | 0  | 0  | 0  | 0  | 271 | 938   | 0   |
| 9   | 0 | 0 | 0.00675 | 0.0085  | 0.0993 | 4.58 | 39.7 | 191 | 270 | 195 | 297 | 815   | 848   | 638   | 372 | 389 | 226 | 160  | 44.3 | 0.601   | 0  | 0  | 0  | 0  | 187 | 848   | 0   |
| 10  | 0 | 0 | 0       | 0       | 0      | 3.67 | 126  | 379 | 610 | 676 | 769 | 698   | 578   | 664   | 740 | 516 | 330 | 289  | 81.5 | 0.987   | 0  | 0  | 0  | 0  | 269 | 769   | 0   |
| 11  | 0 | 0 | 0       | 0       | 0      | 4.97 | 130  | 384 | 605 | 797 | 936 | 1,016 | 1,034 | 985   | 879 | 714 | 511 | 289  | 82   | 0.531   | 0  | 0  | 0  | 0  | 349 | 1,034 | 0   |
| 12  | 0 | 0 | 0       | 0       | 0      | 5.36 | 131  | 389 | 607 | 795 | 939 | 978   | 1,017 | 986   | 873 | 710 | 465 | 234  | 81.1 | 1.75    | 0  | 0  | 0  | 0  | 342 | 1,017 | 0   |
| 13  | 0 | 0 | 0       | 0       | 0      | 3.98 | 139  | 400 | 627 | 819 | 961 | 1,040 | 1,058 | 1,004 | 895 | 729 | 529 | 305  | 91.1 | 0.6     | 0  | 0  | 0  | 0  | 358 | 1,058 | 0   |
| 14  | 0 | 0 | 0       | 0       | 0      | 6.06 | 146  | 382 | 543 | 607 | 672 | 795   | 704   | 614   | 660 | 516 | 325 | 258  | 98.7 | 1.25    | 0  | 0  | 0  | 0  | 264 | 795   | 0   |
| 15  | 0 | 0 | 0       | 0       | 0      | 5.95 | 143  | 406 | 629 | 821 | 962 | 1,041 | 1,042 | 931   | 923 | 726 | 510 | 294  | 84.7 | 1.91    | 0  | 0  | 0  | 0  | 355 | 1,042 | 0   |
| 16  | 0 | 0 | 0       | 0       | 0      | 9.56 | 123  | 311 | 460 | 381 | 531 | 892   | 1,060 | 728   | 709 | 551 | 542 | 312  | 96.5 | 0.407   | 0  | 0  | 0  | 0  | 279 | 1,060 | 0   |
| 17  | 0 | 0 | 0       | 0       | 0      | 6.27 | 145  | 399 | 624 | 813 | 951 | 1,030 | 1,047 | 996   | 893 | 731 | 526 | 303  | 95.1 | 1.52    | 0  | 0  | 0  | 0  | 357 | 1,047 | 0   |
| 18  | 0 | 0 | 0       | 0       | 0      | 7.66 | 143  | 393 | 623 | 812 | 957 | 1,050 | 1,067 | 1,015 | 911 | 743 | 542 | 323  | 103  | 1.05    | 0  | 0  | 0  | 0  | 362 | 1,067 | 0   |
| 19  | 0 | 0 | 0       | 0       | 0      | 4.51 | 159  | 426 | 652 | 840 | 979 | 1,059 | 1,074 | 1,029 | 920 | 751 | 548 | 321  | 103  | 1.11    | 0  | 0  | 0  | 0  | 369 | 1,074 | 0   |
| 20  | 0 | 0 | 0       | 0       | 0      | 5.29 | 161  | 427 | 651 | 843 | 971 | 1,040 | 1,055 | 1,005 | 902 | 741 | 542 | 319  | 105  | 1.15    | 0  | 0  | 0  | 0  | 365 | 1,055 | 0   |
| 21  | 0 | 0 | 0       | 0       | 0      | 6.24 | 152  | 409 | 608 | 745 | 940 | 1,037 | 1,052 | 1,002 | 903 | 742 | 542 | 320  | 104  | 1.07    | 0  | 0  | 0  | 0  | 357 | 1,052 | 0   |
| 22  | 0 | 0 | 0       | 0       | 0      | 5.82 | 159  | 411 | 634 | 821 | 953 | 1,035 | 1,074 | 1,044 | 888 | 752 | 547 | 306  | 97.3 | 3.17    | 0  | 0  | 0  | 0  | 364 | 1,074 | 0   |
| 23  | 0 | 0 | 0       | 0       | 0      | 5.36 | 164  | 415 | 639 | 828 | 968 | 1,051 | 1,064 | 1,011 | 907 | 751 | 550 | 312  | 101  | 2.48    | 0  | 0  | 0  | 0  | 365 | 1,064 | 0   |
| 24  | 0 | 0 | 0       | 0       | 0      | 5.67 | 167  | 416 | 635 | 822 | 958 | 1,043 | 1,060 | 1,007 | 900 | 738 | 507 | 256  | 95.9 | 1.16    | 0  | 0  | 0  | 0  | 359 | 1,060 | 0   |
| 25  | 0 | 0 | 0       | 0       | 0      | 11.6 | 161  | 330 | 550 | 766 | 857 | 946   | 972   | 966   | 758 | 621 | 531 | 259  | 95.7 | 5.65    | 0  | 0  | 0  | 0  | 326 | 972   | 0   |
| 26  | 0 | 0 | 0       | 0       | 0      | 5.93 | 174  | 421 | 644 | 838 | 976 | 1,057 | 1,078 | 1,023 | 922 | 755 | 551 | 332  | 113  | 2.07    | 0  | 0  | 0  | 0  | 370 | 1,078 | 0   |
| 27  | 0 | 0 | 0       | 0       | 0      | 5.98 | 179  | 431 | 655 | 844 | 981 | 1,060 | 1,077 | 1,029 | 924 | 765 | 562 | 337  | 117  | 1.77    | 0  | 0  | 0  | 0  | 374 | 1,077 | 0   |
| 28  | 0 | 0 | 0       | 0       | 0      | 7.55 | 171  | 415 | 633 | 821 | 959 | 1,040 | 1,060 | 1,009 | 909 | 752 | 553 | 332  | 117  | 2.27    | 0  | 0  | 0  | 0  | 366 | 1,060 | 0   |
| 29  | 0 | 0 | 0       | 0       | 0      | 8.22 | 168  | 412 | 628 | 816 | 942 | 1,003 | 976   | 977   | 842 | 628 | 386 | 305  | 75.5 | 4.3     | 0  | 0  | 0  | 0  | 340 | 1,003 | 0   |
| 30  | 0 | 0 | 0       | 0       | 0      | 11.5 | 170  | 349 | 479 | 711 | 780 | 951   | 889   | 888   | 840 | 759 | 554 | 313  | 157  | 1.78    | 0  | 0  | 0  | 0  | 327 | 951   | 0   |
| 31  | 0 | 0 | 0       | 0       | 0      | 4.21 | 156  | 400 | 621 | 798 | 933 | 1,008 | 1,033 | 909   | 954 | 701 | 423 | 302  | 97.9 | 3.02    | 0  | 0  | 0  | 0  | 348 | 1,033 | 0   |
| Avg | 0 | 0 | 0.00022 | 0.00027 | 0.0032 | 5.7  | 138  | 378 | 592 | 755 | 883 | 981   | 992   | 935   | 831 | 657 | 471 | 278  | 87.4 | 1.39    | 0  | 0  | 0  | 0  | 333 | --    | --  |
| Max | 0 | 0 | 0.00675 | 0.0085  | 0.0993 | 11.6 | 179  | 431 | 655 | 844 | 981 | 1,060 | 1,078 | 1,044 | 954 | 765 | 562 | 337  | 157  | 5.65    | 0  | 0  | 0  | 0  | --  | 1,078 | --  |
| Min | 0 | 0 | 0       | 0       | 0      | 2.04 | 39.7 | 191 | 270 | 195 | 297 | 698   | 578   | 614   | 372 | 182 | 126 | 55.2 | 8.21 | 0       | 0  | 0  | 0  | 0  | --  | --    | 0   |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: Jun 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  | 12.2 | 76.9 | 200 | 414 | 775 | 959 | 1,030 | 1,040 | 984   | 889 | 732 | 535 | 320 | 114 | 4.13 | 0  | 0  | 0  | 0  | 337 | 1,040 | 0   |
| 2           | 0  | 0  | 0  | 0  | 0  | 7.83 | 162  | 397 | 609 | 791 | 931 | 1,009 | 1,029 | 975   | 876 | 719 | 528 | 315 | 115 | 9.23 | 0  | 0  | 0  | 0  | 353 | 1,029 | 0   |
| 3           | 0  | 0  | 0  | 0  | 0  | 9.61 | 161  | 394 | 611 | 797 | 934 | 1,025 | 1,065 | 999   | 887 | 729 | 533 | 317 | 110 | 1.79 | 0  | 0  | 0  | 0  | 357 | 1,065 | 0   |
| 4           | 0  | 0  | 0  | 0  | 0  | 9.47 | 162  | 397 | 612 | 795 | 930 | 1,010 | 1,031 | 982   | 886 | 731 | 539 | 325 | 121 | 3.95 | 0  | 0  | 0  | 0  | 356 | 1,031 | 0   |
| 5           | 0  | 0  | 0  | 0  | 0  | 9.67 | 165  | 400 | 610 | 793 | 931 | 1,012 | 1,031 | 980   | 881 | 728 | 511 | 315 | 123 | 6.45 | 0  | 0  | 0  | 0  | 354 | 1,031 | 0   |
| 6           | 0  | 0  | 0  | 0  | 0  | 18.3 | 156  | 393 | 608 | 781 | 919 | 993   | 995   | 987   | 866 | 710 | 515 | 324 | 128 | 9.66 | 0  | 0  | 0  | 0  | 350 | 995   | 0   |
| 7           | 0  | 0  | 0  | 0  | 0  | 13.1 | 164  | 392 | 606 | 780 | 914 | 999   | 1,043 | 971   | 877 | 719 | 543 | 327 | 146 | 11.5 | 0  | 0  | 0  | 0  | 354 | 1,043 | 0   |
| 8           | 0  | 0  | 0  | 0  | 0  | 20.6 | 164  | 345 | 583 | 669 | 926 | 1,008 | 1,021 | 963   | 882 | 733 | 524 | 241 | 120 | 3.55 | 0  | 0  | 0  | 0  | 342 | 1,021 | 0   |
| 9           | 0  | 0  | 0  | 0  | 0  | 9.68 | 164  | 395 | 612 | 797 | 937 | 1,019 | 1,029 | 950   | 898 | 738 | 546 | 331 | 125 | 4.88 | 0  | 0  | 0  | 0  | 356 | 1,029 | 0   |
| 10          | 0  | 0  | 0  | 0  | 0  | 11.9 | 150  | 418 | 628 | 815 | 966 | 1,064 | 1,076 | 1,011 | 905 | 744 | 460 | 381 | 138 | 4.35 | 0  | 0  | 0  | 0  | 365 | 1,076 | 0   |
| 11          | 0  | 0  | 0  | 0  | 0  | 7.43 | 177  | 428 | 649 | 834 | 970 | 1,050 | 1,067 | 1,014 | 910 | 756 | 557 | 336 | 131 | 7.07 | 0  | 0  | 0  | 0  | 371 | 1,067 | 0   |
| 12          | 0  | 0  | 0  | 0  | 0  | 6.12 | 175  | 420 | 639 | 824 | 957 | 1,040 | 1,060 | 1,015 | 920 | 769 | 572 | 352 | 139 | 5.76 | 0  | 0  | 0  | 0  | 371 | 1,060 | 0   |
| 13          | 0  | 0  | 0  | 0  | 0  | 6.85 | 179  | 431 | 654 | 846 | 988 | 1,074 | 1,095 | 1,045 | 949 | 789 | 587 | 363 | 145 | 4.98 | 0  | 0  | 0  | 0  | 381 | 1,095 | 0   |
| 14          | 0  | 0  | 0  | 0  | 0  | 6.83 | 184  | 441 | 660 | 849 | 989 | 1,072 | 1,094 | 1,046 | 954 | 795 | 593 | 371 | 150 | 4.01 | 0  | 0  | 0  | 0  | 384 | 1,094 | 0   |
| 15          | 0  | 0  | 0  | 0  | 0  | 6.04 | 185  | 437 | 659 | 846 | 986 | 1,068 | 1,088 | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | 406 | 1,088 | 0   |
| 16          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 17          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 18          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 19          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 20          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 21          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 22          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 23          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 24          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 25          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 26          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 27          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 28          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 29          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| 30          | -- | -- | -- | -- | -- | --   | --   | --  | --  | --  | --  | --    | --    | --    | --  | --  | --  | --  | --  | --   | -- | -- | -- | -- | --  | --    | --  |
| Avg         | 0  | 0  | 0  | 0  | 0  | 10.4 | 162  | 392 | 610 | 799 | 949 | 1,031 | 1,051 | 994   | 898 | 742 | 539 | 330 | 129 | 5.81 | 0  | 0  | 0  | 0  | 361 | --    | --  |
| Max         | 0  | 0  | 0  | 0  | 0  | 20.6 | 185  | 441 | 660 | 849 | 989 | 1,074 | 1,095 | 1,046 | 954 | 795 | 593 | 381 | 150 | 11.5 | 0  | 0  | 0  | 0  | --  | 1,095 | --  |
| Min         | 0  | 0  | 0  | 0  | 0  | 6.04 | 76.9 | 200 | 414 | 669 | 914 | 993   | 995   | 950   | 866 | 710 | 460 | 241 | 110 | 1.79 | 0  | 0  | 0  | 0  | --  | --    | 0   |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Apr 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   | 9.8  | --   | --   | --   | 8.2  | 8.1  | 8.5  | 10.4 | --   | --   | --   | --   | 15.8 | 16.0 | 16.3 | 15.5 | 16.5 | 16.9 | 16.2 | 14.9 | 13.7 | 13.1 | 12.9 | 12.2 | 13.2 | 16.9 | 8.1  |
| 2   | 11.4 | 11.6 | 10.5 | 10.0 | 9.5  | 9.1  | 9.9  | 11.3 | 14.6 | 16.3 | --   | 18.3 | 19.5 | 20.4 | 21.0 | 21.5 | 21.4 | 21.2 | 20.5 | 19.0 | 18.7 | 16.9 | 16.5 | 15.7 | 15.9 | 21.5 | 9.1  |
| 3   | 15.3 | 15.6 | 14.7 | 14.3 | 13.5 | 13.8 | 13.8 | 16.1 | 18.3 | 19.0 | 19.5 | 21.4 | 23.2 | 24.3 | 23.9 | 24.4 | 24.6 | 24.0 | 22.7 | 21.8 | 20.6 | 18.7 | 16.5 | 15.7 | 19.0 | 24.6 | 13.5 |
| 4   | 14.5 | 13.8 | 12.9 | 10.9 | 10.8 | 9.7  | 9.5  | 11.5 | 14.0 | 15.2 | 16.7 | 18.3 | 19.8 | 20.1 | 20.4 | 20.2 | 19.9 | 19.7 | 18.7 | 17.1 | 15.9 | 15.0 | 14.4 | 13.7 | 15.5 | 20.4 | 9.5  |
| 5   | 14.8 | 16.0 | 15.9 | 16.0 | 15.9 | 15.4 | 14.1 | 15.7 | 17.7 | 19.0 | 20.7 | 21.9 | 23.1 | 24.2 | 25.3 | 25.7 | 25.7 | 25.4 | 24.5 | 22.4 | 20.8 | 19.5 | 19.5 | 19.9 | 20.0 | 25.7 | 14.1 |
| 6   | 18.6 | 17.8 | 17.5 | 17.1 | 16.6 | 16.8 | 17.4 | 19.8 | 21.7 | 22.9 | 24.9 | 26.8 | 28.5 | 28.8 | 29.0 | 29.4 | 28.6 | 27.6 | 26.1 | 24.2 | 21.9 | 21.0 | 20.3 | 20.0 | 22.6 | 29.4 | 16.6 |
| 7   | 19.3 | 19.8 | 19.2 | 18.5 | 17.5 | 17.0 | 17.0 | 20.6 | 22.9 | 24.5 | 25.7 | 26.7 | 27.4 | 27.3 | 27.6 | 27.4 | 27.0 | 26.2 | 24.9 | 23.2 | 21.9 | 20.9 | 20.0 | 19.4 | 22.6 | 27.6 | 17.0 |
| 8   | 19.3 | 18.4 | 18.1 | 17.3 | 17.4 | 17.4 | 16.6 | 18.6 | 20.6 | 23.2 | 24.5 | 25.8 | 26.7 | 26.6 | 26.7 | 25.8 | 25.7 | 24.7 | 23.3 | 21.4 | 20.4 | 19.6 | 18.6 | 17.7 | 21.4 | 26.7 | 16.6 |
| 9   | 17.0 | 16.2 | 15.2 | 14.1 | 13.9 | 12.6 | 12.8 | 14.6 | 17.3 | 18.5 | 20.0 | 20.9 | 20.8 | 21.5 | 22.1 | 22.2 | 22.0 | 21.3 | 20.1 | 19.0 | 17.4 | 16.6 | 15.8 | 15.1 | 17.8 | 22.2 | 12.6 |
| 10  | 14.4 | 14.3 | 14.6 | 14.9 | 13.8 | 13.0 | 13.4 | 16.4 | 18.3 | 20.4 | 21.8 | 23.1 | 23.9 | 24.7 | 25.0 | 25.1 | 25.0 | 24.3 | 23.1 | 21.6 | 19.2 | 18.2 | 17.2 | 16.7 | 19.3 | 25.1 | 13.0 |
| 11  | 16.3 | 16.2 | 15.7 | 15.0 | 16.0 | 16.2 | 16.8 | 19.4 | 20.9 | 22.5 | 24.4 | 27.4 | 28.2 | 28.1 | 28.1 | 28.2 | 27.9 | 26.6 | 24.9 | 22.7 | 22.4 | 20.2 | 19.5 | 19.3 | 21.8 | 28.2 | 15.0 |
| 12  | 18.4 | 17.7 | 17.5 | 16.7 | 16.5 | 17.6 | 17.2 | 20.3 | 22.4 | 23.8 | 25.5 | 26.6 | 28.1 | 28.5 | 28.5 | 28.8 | 28.5 | 27.8 | 26.2 | 24.5 | 23.3 | 21.9 | 20.5 | 20.1 | 22.8 | 28.8 | 16.5 |
| 13  | 20.0 | 19.3 | 18.7 | 18.9 | 19.0 | 20.0 | 20.5 | 19.9 | 22.7 | 24.8 | 26.2 | 28.8 | 29.3 | 30.2 | 29.1 | 28.5 | 28.2 | 28.2 | 27.0 | 24.8 | 23.7 | 21.8 | 21.1 | 19.6 | 23.8 | 30.2 | 18.7 |
| 14  | 18.9 | 18.2 | 17.8 | 17.7 | 16.8 | 17.0 | 16.6 | 20.1 | 21.8 | 24.0 | 24.3 | 24.9 | 26.1 | 27.5 | 27.0 | 27.4 | 27.6 | 26.7 | 26.1 | 23.9 | 22.5 | 21.3 | 20.0 | 19.1 | 22.2 | 27.6 | 16.6 |
| 15  | 18.3 | 17.6 | 16.9 | 16.2 | 16.3 | 15.1 | 15.7 | 19.1 | 21.0 | 22.5 | 24.8 | 25.8 | 25.6 | 26.3 | 27.0 | 27.1 | 26.8 | 26.3 | 25.1 | 23.2 | 22.7 | 20.9 | 19.5 | 18.8 | 21.6 | 27.1 | 15.1 |
| 16  | 18.1 | 17.6 | 17.2 | 17.5 | 16.4 | 16.3 | 16.4 | 19.7 | 22.3 | 24.5 | 25.3 | 26.6 | 27.4 | 28.5 | 28.4 | 28.7 | 28.2 | 27.2 | 25.8 | 24.3 | 23.3 | 21.1 | 20.1 | 19.6 | 22.5 | 28.7 | 16.3 |
| 17  | 19.5 | 19.0 | 18.5 | 17.9 | 17.5 | 16.9 | 17.9 | 20.6 | 22.9 | 24.2 | 24.9 | 26.6 | 27.4 | 27.7 | 28.3 | 28.6 | 28.2 | 27.5 | 26.4 | 24.8 | 23.4 | 21.7 | 21.1 | 20.8 | 23.0 | 28.6 | 16.9 |
| 18  | 20.4 | 19.7 | 19.2 | 18.7 | 18.9 | 19.3 | 19.0 | 20.7 | 23.1 | 24.9 | 26.5 | 27.4 | 27.7 | 28.4 | 29.0 | 29.4 | 29.5 | 29.1 | 27.9 | 25.8 | 24.6 | 23.7 | 23.4 | 22.7 | 24.1 | 29.5 | 18.7 |
| 19  | 21.8 | 20.4 | 19.6 | 19.4 | 18.7 | 17.9 | 18.1 | 21.3 | 22.8 | 23.8 | 24.9 | 25.8 | 26.7 | 27.2 | 28.3 | 27.9 | 28.0 | 27.3 | 26.2 | 24.6 | 23.6 | 21.5 | 20.8 | 20.1 | 23.2 | 28.3 | 17.9 |
| 20  | 19.4 | 18.5 | 18.0 | 17.7 | 17.4 | 17.5 | 17.5 | 20.1 | 22.5 | 24.2 | 24.8 | 25.8 | 26.7 | 27.3 | 28.0 | 28.0 | 27.8 | 27.3 | 26.2 | 24.5 | 23.0 | 21.4 | 20.9 | 20.9 | 22.7 | 28.0 | 17.4 |
| 21  | 19.4 | 18.5 | 18.9 | 17.4 | 17.3 | 17.9 | 18.2 | 20.6 | 23.7 | 25.5 | 26.8 | 27.5 | 28.3 | 29.0 | 29.2 | 29.3 | 29.1 | 28.5 | 27.2 | 25.5 | 24.6 | 22.8 | 22.7 | 21.5 | 23.7 | 29.3 | 17.3 |
| 22  | 20.1 | 19.4 | 19.1 | 18.8 | 18.8 | 18.4 | 19.2 | 21.9 | 23.9 | 26.0 | 27.7 | 29.0 | 30.0 | 30.6 | 31.4 | 32.0 | 31.5 | 30.8 | 29.2 | 27.4 | 25.1 | 24.1 | 23.0 | 22.1 | 25.0 | 32.0 | 18.4 |
| 23  | 21.8 | 23.8 | 23.8 | 22.6 | 22.5 | 21.9 | 21.1 | 22.0 | 23.5 | 25.6 | 27.5 | 29.5 | 30.5 | 31.5 | 32.7 | 33.3 | 31.9 | 31.0 | 30.0 | 28.2 | 26.2 | 25.9 | 25.1 | 23.6 | 26.5 | 33.3 | 21.1 |
| 24  | 22.1 | 21.6 | 21.0 | 20.7 | 20.1 | 20.2 | 20.7 | 23.3 | 25.2 | 26.4 | 27.4 | 27.6 | 28.2 | 28.6 | 28.5 | 28.2 | 27.6 | 26.9 | 25.9 | 24.3 | 23.5 | 23.3 | 22.3 | 21.0 | 24.4 | 28.6 | 20.1 |
| 25  | 20.4 | 20.0 | 19.4 | 19.1 | 17.9 | 17.3 | 17.3 | 17.7 | 18.4 | 19.6 | 20.4 | 21.2 | 22.4 | 23.2 | 23.5 | 23.9 | 24.0 | 23.7 | 23.0 | 22.3 | 21.6 | 19.8 | 18.6 | 18.2 | 20.5 | 24.0 | 17.3 |
| 26  | 18.6 | 16.3 | 16.0 | 16.0 | 14.9 | 15.1 | 15.0 | 17.4 | 19.9 | 21.3 | 22.2 | 23.1 | 24.3 | 25.3 | 25.5 | 25.9 | 25.6 | 25.0 | 24.5 | 23.1 | 22.1 | 21.7 | 21.0 | 20.7 | 20.8 | 25.9 | 14.9 |
| 27  | 20.4 | 19.7 | 18.9 | 18.4 | 18.0 | 17.8 | 18.5 | 20.0 | 21.6 | 22.9 | 24.2 | 25.9 | 26.7 | 26.6 | 26.7 | 26.6 | 26.1 | 25.7 | 25.0 | 23.9 | 22.8 | 23.0 | 22.4 | 21.6 | 22.6 | 26.7 | 17.8 |
| 28  | 21.3 | 20.2 | 20.1 | 19.5 | 18.9 | 18.2 | 17.9 | 19.0 | 19.5 | 20.0 | 20.4 | 19.9 | 20.0 | 21.7 | 23.4 | 23.9 | 24.1 | 23.3 | 21.0 | 19.0 | 17.5 | 16.1 | 15.6 | 14.4 | 19.8 | 24.1 | 14.4 |
| 29  | 13.8 | 12.4 | 11.9 | 12.6 | 11.3 | 10.1 | 10.6 | 13.1 | 15.4 | 16.2 | 17.2 | 18.4 | 19.8 | 20.2 | 20.4 | 20.8 | 20.2 | 20.1 | 19.8 | 18.7 | 18.1 | 17.1 | 16.2 | 16.0 | 16.3 | 20.8 | 10.1 |
| 30  | 16.1 | 16.0 | 15.6 | 15.9 | 15.3 | 13.8 | 14.1 | 17.9 | 19.4 | 21.6 | 22.3 | 23.3 | 23.5 | 24.2 | 24.9 | 25.1 | 25.1 | 24.4 | 23.5 | 22.0 | 21.2 | 19.7 | 19.2 | 18.2 | 20.1 | 25.1 | 13.8 |
| Avg | 18.0 | 17.8 | 17.3 | 16.9 | 16.2 | 15.9 | 16.0 | 18.3 | 20.6 | 22.2 | 23.6 | 24.6 | 25.2 | 25.8 | 26.2 | 26.3 | 26.1 | 25.5 | 24.4 | 22.7 | 21.5 | 20.3 | 19.5 | 18.8 | 21.2 | --   | --   |
| Max | 22.1 | 23.8 | 23.8 | 22.6 | 22.5 | 21.9 | 21.1 | 23.3 | 25.2 | 26.4 | 27.7 | 29.5 | 30.5 | 31.5 | 32.7 | 33.3 | 31.9 | 31.0 | 30.0 | 28.2 | 26.2 | 25.9 | 25.1 | 23.6 | --   | 33.3 | --   |
| Min | 9.8  | 11.6 | 10.5 | 10.0 | 8.2  | 8.1  | 8.5  | 10.4 | 14.0 | 15.2 | 16.7 | 18.3 | 15.8 | 16.0 | 16.3 | 15.5 | 16.5 | 16.9 | 16.2 | 14.9 | 13.7 | 13.1 | 12.9 | 12.2 | --   | --   | 8.1  |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: May 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   | 17.8 | 17.5 | 17.0 | 16.5 | 16.9 | 16.5 | 17.7 | 21.5 | 22.8 | 24.8 | 25.1 | 26.0 | 27.1 | 27.6 | 28.1 | 28.4 | 28.3 | 28.0 | 27.0 | 25.3 | 23.8 | 22.9 | 21.7 | 21.2 | 22.9 | 28.4 | 16.5 |
| 2   | 20.1 | 19.9 | 19.4 | 18.9 | 18.8 | 18.9 | 20.9 | 23.4 | 25.0 | 25.8 | 27.1 | 28.2 | 28.9 | 30.1 | 29.8 | 30.0 | 29.7 | 29.3 | 28.4 | 26.6 | 25.0 | 24.3 | 23.6 | 23.1 | 24.8 | 30.1 | 18.8 |
| 3   | 22.5 | 22.0 | 21.0 | 20.3 | 20.1 | 20.8 | 20.9 | 23.3 | 26.8 | 28.3 | 28.9 | 29.6 | 30.9 | 31.9 | 32.4 | 33.0 | 33.1 | 32.8 | 31.1 | 28.8 | 27.7 | 26.3 | 25.8 | 25.9 | 26.8 | 33.1 | 20.1 |
| 4   | 24.3 | 23.9 | 24.1 | 23.5 | 22.4 | 22.5 | 23.6 | 25.6 | 28.6 | 30.3 | 31.3 | 31.9 | 33.9 | 34.5 | 34.7 | 34.7 | 34.5 | 34.1 | 32.7 | 30.8 | 29.9 | 27.6 | 26.4 | 26.0 | 28.8 | 34.7 | 22.4 |
| 5   | 25.2 | 25.6 | 24.9 | 26.7 | 26.8 | 26.3 | 26.6 | 27.7 | 29.3 | 30.8 | 33.1 | 35.1 | 35.9 | 36.3 | 36.9 | 35.8 | 35.4 | 34.5 | 33.4 | 32.6 | 31.1 | 30.3 | 29.3 | 28.3 | 30.7 | 36.9 | 24.9 |
| 6   | 27.4 | 26.0 | 25.0 | 23.8 | 23.4 | 23.0 | 22.6 | 25.3 | 27.5 | 28.7 | 29.8 | 30.9 | 32.1 | 33.1 | 33.4 | 33.1 | 32.1 | 30.7 | 28.8 | 25.6 | 23.4 | 22.1 | 21.6 | 20.3 | 27.1 | 33.4 | 20.3 |
| 7   | 19.0 | 18.0 | 17.4 | 16.5 | 15.8 | 15.1 | 15.3 | 16.4 | 18.0 | 18.7 | 19.1 | 19.2 | 19.0 | 18.7 | 18.5 | 18.5 | 18.8 | 18.6 | 18.0 | 17.1 | 16.7 | 16.2 | 15.9 | 15.0 | 17.5 | 19.2 | 15.0 |
| 8   | 14.9 | 13.9 | 14.0 | 14.4 | 14.0 | 14.0 | 14.1 | 15.7 | 16.6 | 18.6 | 20.7 | 21.3 | 22.0 | 23.5 | 23.6 | 23.5 | 18.6 | 19.1 | 19.1 | 17.9 | 16.8 | 14.5 | 13.3 | 12.7 | 17.4 | 23.6 | 12.7 |
| 9   | 11.7 | 10.9 | 10.7 | 10.4 | 10.3 | 10.8 | 11.4 | 12.1 | 12.9 | 12.6 | 13.5 | 15.9 | 16.7 | 17.5 | 17.1 | 17.3 | 16.0 | 15.1 | 14.9 | 13.6 | 13.1 | 12.6 | 12.0 | 11.9 | 13.4 | 17.5 | 10.3 |
| 10  | 12.0 | 12.2 | 12.3 | 11.8 | 11.8 | 11.7 | 11.8 | 12.9 | 14.1 | 15.2 | 16.1 | 17.5 | 17.3 | 18.5 | 19.6 | 20.0 | 19.9 | 20.2 | 19.5 | 18.4 | 17.8 | 16.5 | 16.0 | 15.6 | 15.8 | 20.2 | 11.7 |
| 11  | 14.9 | 14.9 | 14.3 | 14.2 | 14.5 | 14.2 | 15.6 | 18.1 | 19.5 | 21.4 | 22.4 | 24.4 | 25.6 | 26.0 | 26.8 | 27.2 | 27.1 | 26.9 | 26.2 | 24.9 | 23.5 | 22.9 | 21.7 | 21.3 | 21.2 | 27.2 | 14.2 |
| 12  | 20.7 | 21.2 | 19.7 | 19.8 | 19.1 | 19.6 | 20.8 | 22.6 | 25.3 | 27.4 | 29.0 | 30.9 | 31.6 | 31.8 | 31.7 | 32.0 | 31.9 | 31.0 | 30.0 | 28.3 | 27.2 | 25.1 | 24.8 | 23.7 | 26.1 | 32.0 | 19.1 |
| 13  | 23.3 | 22.4 | 21.8 | 21.2 | 20.4 | 19.5 | 20.7 | 23.8 | 25.7 | 26.4 | 28.6 | 30.0 | 31.3 | 31.7 | 31.6 | 32.3 | 31.8 | 31.3 | 29.9 | 27.9 | 26.4 | 24.6 | 23.6 | 22.6 | 26.2 | 32.3 | 19.5 |
| 14  | 21.8 | 21.2 | 20.9 | 20.3 | 19.8 | 19.1 | 20.0 | 23.3 | 24.5 | 25.2 | 26.5 | 27.6 | 28.0 | 28.1 | 28.3 | 28.3 | 27.8 | 28.2 | 27.9 | 26.5 | 24.1 | 22.4 | 21.7 | 20.8 | 24.3 | 28.3 | 19.1 |
| 15  | 20.0 | 19.1 | 18.5 | 17.4 | 16.3 | 15.9 | 17.9 | 20.9 | 22.7 | 24.1 | 25.3 | 26.8 | 27.5 | 27.8 | 28.2 | 26.9 | 25.7 | 24.5 | 22.8 | 21.3 | 20.3 | 19.1 | 17.7 | 17.0 | 21.8 | 28.2 | 15.9 |
| 16  | 16.0 | 15.1 | 14.6 | 13.5 | 12.8 | 12.6 | 12.8 | 14.1 | 15.1 | 15.0 | 15.6 | 17.6 | 18.8 | 19.1 | 19.9 | 20.1 | 20.1 | 19.8 | 19.0 | 17.8 | 16.7 | 15.7 | 15.4 | 15.1 | 16.4 | 20.1 | 12.6 |
| 17  | 14.6 | 13.9 | 13.5 | 13.3 | 13.2 | 12.4 | 13.9 | 16.4 | 17.7 | 19.3 | 20.2 | 21.5 | 22.9 | 23.8 | 24.4 | 25.1 | 25.3 | 25.0 | 23.9 | 22.7 | 21.8 | 20.9 | 20.0 | 19.5 | 19.4 | 25.3 | 12.4 |
| 18  | 19.0 | 18.4 | 18.1 | 17.8 | 17.0 | 16.1 | 16.8 | 17.9 | 19.3 | 20.1 | 21.4 | 22.7 | 23.9 | 23.9 | 24.6 | 24.9 | 24.9 | 24.1 | 23.0 | 21.6 | 20.6 | 19.9 | 19.2 | 17.6 | 20.5 | 24.9 | 16.1 |
| 19  | 16.9 | 16.5 | 16.1 | 15.5 | 14.9 | 13.8 | 13.8 | 16.7 | 18.0 | 19.2 | 20.5 | 22.1 | 23.3 | 24.1 | 25.3 | 26.2 | 25.9 | 25.5 | 24.3 | 22.8 | 21.8 | 21.1 | 21.5 | 21.2 | 20.3 | 26.2 | 13.8 |
| 20  | 20.7 | 20.9 | 21.2 | 21.1 | 20.8 | 20.8 | 21.3 | 22.1 | 23.1 | 24.4 | 26.1 | 27.3 | 28.5 | 28.8 | 29.5 | 30.1 | 30.2 | 30.0 | 28.8 | 26.9 | 24.9 | 23.6 | 23.3 | 22.4 | 24.9 | 30.2 | 20.7 |
| 21  | 22.0 | 22.5 | 22.3 | 22.4 | 21.8 | 21.3 | 22.4 | 24.7 | 27.6 | 29.4 | 30.5 | 31.5 | 32.4 | 32.7 | 33.4 | 33.6 | 33.3 | 32.4 | 31.4 | 29.6 | 27.6 | 26.2 | 26.8 | 25.5 | 27.6 | 33.6 | 21.3 |
| 22  | 25.2 | 24.1 | 23.5 | 22.8 | 23.1 | 22.1 | 23.9 | 26.3 | 29.0 | 31.3 | 32.4 | 33.0 | 33.5 | 34.3 | 34.8 | 34.7 | 34.5 | 33.9 | 32.9 | 31.2 | 29.7 | 28.9 | 27.6 | 26.5 | 29.1 | 34.8 | 22.1 |
| 23  | 26.7 | 27.1 | 25.9 | 26.3 | 26.3 | 26.1 | 26.0 | 27.6 | 30.1 | 31.5 | 32.1 | 33.2 | 34.5 | 34.9 | 35.5 | 35.4 | 35.2 | 34.6 | 33.5 | 31.8 | 30.1 | 28.2 | 28.7 | 28.0 | 30.4 | 35.5 | 25.9 |
| 24  | 27.9 | 27.5 | 26.2 | 25.0 | 24.5 | 23.7 | 24.6 | 28.4 | 29.7 | 31.6 | 32.8 | 33.7 | 34.6 | 35.4 | 35.5 | 35.4 | 35.8 | 34.8 | 34.2 | 32.8 | 31.6 | 30.6 | 29.5 | 28.2 | 30.6 | 35.8 | 23.7 |
| 25  | 27.1 | 26.4 | 25.6 | 25.0 | 24.3 | 22.9 | 24.1 | 26.0 | 27.1 | 28.7 | 28.8 | 29.5 | 30.7 | 32.0 | 32.3 | 32.2 | 32.6 | 31.9 | 31.0 | 29.5 | 27.7 | 26.3 | 24.6 | 23.4 | 27.9 | 32.6 | 22.9 |
| 26  | 23.0 | 22.8 | 22.2 | 21.5 | 20.8 | 19.5 | 20.3 | 24.0 | 25.6 | 27.2 | 28.4 | 29.1 | 30.2 | 30.8 | 30.9 | 31.0 | 30.6 | 30.2 | 29.1 | 27.3 | 26.0 | 24.7 | 23.2 | 22.8 | 25.9 | 31.0 | 19.5 |
| 27  | 21.8 | 20.6 | 18.8 | 18.6 | 18.6 | 19.2 | 20.5 | 23.6 | 25.5 | 26.8 | 28.0 | 28.8 | 30.3 | 30.5 | 31.3 | 31.2 | 31.0 | 30.5 | 29.6 | 28.0 | 26.7 | 25.8 | 24.2 | 23.7 | 25.6 | 31.3 | 18.6 |
| 28  | 23.0 | 22.2 | 22.0 | 21.6 | 21.3 | 21.3 | 22.7 | 25.0 | 27.8 | 29.5 | 30.3 | 31.5 | 32.5 | 33.1 | 33.4 | 33.7 | 33.6 | 32.9 | 32.0 | 30.2 | 29.4 | 28.5 | 26.4 | 25.0 | 27.9 | 33.7 | 21.3 |
| 29  | 24.6 | 23.9 | 23.8 | 23.5 | 24.0 | 25.4 | 25.3 | 27.5 | 29.8 | 31.5 | 33.4 | 34.4 | 35.0 | 35.5 | 35.4 | 35.5 | 34.9 | 34.3 | 33.0 | 31.5 | 30.2 | 28.5 | 27.9 | 28.7 | 29.9 | 35.5 | 23.5 |
| 30  | 28.1 | 27.7 | 28.2 | 27.7 | 26.2 | 26.0 | 26.7 | 27.6 | 29.0 | 30.6 | 31.6 | 33.3 | 34.1 | 34.0 | 34.0 | 34.4 | 34.1 | 33.2 | 32.5 | 27.7 | 26.6 | 25.6 | 25.9 | 25.1 | 29.6 | 34.4 | 25.1 |
| 31  | 24.8 | 24.6 | 24.5 | 24.8 | 24.4 | 24.1 | 24.8 | 25.9 | 27.7 | 29.6 | 30.9 | 31.9 | 33.1 | 33.2 | 33.5 | 33.6 | 33.2 | 32.8 | 32.1 | 30.9 | 29.6 | 28.1 | 26.4 | 25.5 | 28.8 | 33.6 | 24.1 |
| Avg | 21.2 | 20.7 | 20.2 | 19.9 | 19.5 | 19.2 | 20.0 | 22.1 | 23.9 | 25.3 | 26.4 | 27.6 | 28.6 | 29.1 | 29.5 | 29.6 | 29.2 | 28.7 | 27.7 | 26.1 | 24.8 | 23.5 | 22.8 | 22.1 | 24.5 | --   | --   |
| Max | 28.1 | 27.7 | 28.2 | 27.7 | 26.8 | 26.3 | 26.7 | 28.4 | 30.1 | 31.6 | 33.4 | 35.1 | 35.9 | 36.3 | 36.9 | 35.8 | 35.8 | 34.8 | 34.2 | 32.8 | 31.6 | 30.6 | 29.5 | 28.7 | --   | 36.9 | --   |
| Min | 11.7 | 10.9 | 10.7 | 10.4 | 10.3 | 10.8 | 11.4 | 12.1 | 12.9 | 12.6 | 13.5 | 15.9 | 16.7 | 17.5 | 17.1 | 17.3 | 16.0 | 15.1 | 14.9 | 13.6 | 13.1 | 12.6 | 12.0 | 11.9 | --   | --   | 10.3 |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Jun 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           | 24.6 | 23.9 | 23.1 | 22.7 | 22.6 | 23.2 | 23.6 | 25.0 | 27.3 | 29.1 | 30.5 | 31.4 | 31.8 | 32.3 | 32.3 | 32.1 | 32.0 | 31.5 | 30.7 | 29.2 | 27.8 | 26.6 | 25.4 | 24.5 | 27.6 | 32.3 | 22.6 |
| 2           | 23.9 | 22.8 | 22.0 | 21.0 | 20.2 | 20.1 | 21.4 | 23.3 | 26.0 | 28.4 | 29.5 | 30.9 | 31.5 | 32.7 | 33.0 | 33.3 | 33.4 | 33.2 | 32.5 | 31.4 | 30.4 | 29.0 | 28.0 | 27.0 | 27.7 | 33.4 | 20.1 |
| 3           | 26.7 | 26.1 | 25.4 | 24.6 | 23.7 | 23.7 | 25.4 | 27.6 | 29.3 | 30.8 | 32.4 | 33.9 | 35.2 | 36.4 | 37.0 | 36.7 | 36.8 | 35.9 | 35.1 | 33.7 | 33.0 | 31.2 | 31.6 | 29.0 | 30.9 | 37.0 | 23.7 |
| 4           | 28.0 | 27.8 | 27.3 | 25.7 | 24.8 | 24.5 | 25.4 | 27.9 | 29.6 | 31.5 | 33.1 | 34.4 | 35.3 | 36.5 | 36.8 | 37.0 | 37.0 | 36.8 | 35.7 | 34.0 | 32.0 | 30.2 | 31.5 | 31.8 | 31.4 | 37.0 | 24.5 |
| 5           | 29.5 | 29.1 | 27.7 | 26.7 | 26.0 | 25.4 | 25.9 | 28.9 | 30.4 | 31.7 | 33.6 | 34.6 | 35.2 | 36.0 | 36.8 | 36.9 | 37.1 | 36.5 | 35.6 | 34.1 | 32.9 | 31.6 | 31.9 | 31.4 | 31.9 | 37.1 | 25.4 |
| 6           | 29.6 | 28.1 | 27.1 | 27.0 | 25.2 | 25.0 | 25.8 | 28.3 | 29.6 | 30.9 | 32.3 | 33.9 | 35.1 | 35.6 | 36.4 | 36.8 | 36.6 | 36.1 | 35.4 | 34.1 | 32.5 | 30.7 | 29.4 | 28.7 | 31.3 | 36.8 | 25.0 |
| 7           | 28.2 | 27.2 | 26.1 | 26.0 | 25.8 | 24.8 | 25.9 | 28.1 | 29.1 | 31.3 | 33.1 | 35.0 | 36.1 | 36.7 | 37.1 | 36.8 | 37.1 | 36.2 | 35.3 | 34.1 | 32.1 | 30.9 | 30.2 | 29.4 | 31.4 | 37.1 | 24.8 |
| 8           | 29.3 | 28.8 | 28.1 | 27.8 | 27.4 | 27.1 | 27.9 | 29.9 | 31.8 | 33.0 | 33.9 | 34.0 | 34.8 | 35.2 | 35.2 | 35.5 | 35.2 | 34.6 | 33.7 | 32.3 | 31.3 | 30.6 | 30.5 | 29.0 | 31.5 | 35.5 | 27.1 |
| 9           | 27.7 | 26.8 | 26.8 | 26.3 | 25.1 | 24.7 | 26.3 | 29.2 | 30.6 | 31.6 | 32.5 | 33.6 | 34.6 | 35.4 | 36.0 | 35.7 | 35.7 | 35.2 | 34.6 | 33.1 | 31.3 | 31.2 | 28.6 | 28.2 | 30.9 | 36.0 | 24.7 |
| 10          | 27.1 | 25.9 | 25.2 | 25.0 | 24.7 | 23.3 | 23.8 | 25.8 | 27.8 | 29.7 | 31.3 | 32.7 | 33.3 | 33.5 | 33.8 | 34.5 | 34.2 | 34.3 | 33.7 | 32.2 | 31.0 | 29.6 | 27.5 | 26.4 | 29.4 | 34.5 | 23.3 |
| 11          | 25.5 | 23.9 | 23.2 | 22.4 | 21.6 | 21.0 | 23.4 | 25.9 | 27.4 | 29.1 | 30.8 | 31.7 | 32.8 | 33.7 | 33.8 | 34.0 | 34.0 | 33.2 | 31.6 | 29.5 | 28.1 | 26.8 | 25.7 | 24.4 | 28.1 | 34.0 | 21.0 |
| 12          | 23.5 | 22.1 | 21.5 | 21.3 | 20.7 | 20.1 | 21.4 | 23.3 | 23.9 | 26.0 | 27.8 | 28.4 | 28.7 | 28.9 | 29.4 | 30.4 | 30.5 | 30.4 | 29.2 | 27.4 | 25.8 | 24.0 | 23.8 | 22.3 | 25.5 | 30.5 | 20.1 |
| 13          | 21.0 | 20.7 | 19.8 | 19.9 | 19.4 | 18.8 | 20.1 | 23.1 | 24.1 | 25.9 | 27.6 | 29.2 | 30.4 | 30.4 | 31.4 | 31.7 | 31.7 | 31.2 | 30.1 | 28.3 | 26.6 | 25.0 | 24.0 | 22.7 | 25.5 | 31.7 | 18.8 |
| 14          | 22.4 | 21.7 | 21.3 | 21.8 | 20.7 | 21.4 | 23.0 | 26.2 | 28.3 | 30.0 | 32.2 | 33.4 | 33.8 | 34.3 | 35.2 | 35.4 | 35.3 | 34.7 | 33.7 | 31.5 | 29.6 | 28.3 | 26.8 | 25.7 | 28.6 | 35.4 | 20.7 |
| 15          | 24.9 | 24.6 | 24.2 | 24.8 | 23.2 | 23.1 | 25.0 | 28.4 | 30.7 | 32.9 | 33.6 | 34.9 | 35.9 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 28.2 | 35.9 | 23.1 |
| 16          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 17          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 18          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 19          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 20          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 21          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 22          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 23          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 24          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 25          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 26          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 27          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 28          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 29          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 30          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| Avg         | 26.1 | 25.3 | 24.6 | 24.2 | 23.4 | 23.1 | 24.3 | 26.7 | 28.4 | 30.1 | 31.6 | 32.8 | 33.6 | 34.1 | 34.6 | 34.8 | 34.8 | 34.3 | 33.4 | 31.8 | 30.3 | 29.0 | 28.2 | 27.2 | 29.4 | --   | --   |
| Max         | 29.6 | 29.1 | 28.1 | 27.8 | 27.4 | 27.1 | 27.9 | 29.9 | 31.8 | 33.0 | 33.9 | 35.0 | 36.1 | 36.7 | 37.1 | 37.0 | 37.1 | 36.8 | 35.7 | 34.1 | 33.0 | 31.6 | 31.9 | 31.8 | --   | 37.1 | --   |
| Min         | 21.0 | 20.7 | 19.8 | 19.9 | 19.4 | 18.8 | 20.1 | 23.1 | 23.9 | 25.9 | 27.6 | 28.4 | 28.7 | 28.9 | 29.4 | 30.4 | 30.5 | 30.4 | 29.2 | 27.4 | 25.8 | 24.0 | 23.8 | 22.3 | --   | --   | 18.8 |

-- Indicates Invalid Data



**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Apr 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   | 68  | 316 | 269 | 7   | 29  | 76  | 34  | 106 | 318 | 84  | 227 | 150 | 217 | 235 | 250 | 359 | 227 | 352 | 352 | 36  | 68  | 55  | 45  | 34  | 21  | 359 | 7   |
| 2   | 302 | 2   | 301 | 3   | 24  | 358 | 52  | 154 | 130 | 252 | 258 | 243 | 264 | 252 | 261 | 271 | 269 | 273 | 267 | 301 | 311 | 39  | 15  | 306 | 300 | 358 | 2   |
| 3   | 48  | 290 | 50  | 53  | 355 | 55  | 61  | 80  | 153 | 186 | 251 | 228 | 217 | 229 | 240 | 238 | 237 | 224 | 231 | 237 | 230 | 278 | 328 | 331 | 251 | 355 | 48  |
| 4   | 289 | 298 | 286 | 56  | 358 | 60  | 42  | 238 | 91  | 280 | 262 | 225 | 242 | 268 | 283 | 276 | 269 | 274 | 269 | 356 | 5   | 14  | 354 | 33  | 309 | 358 | 5   |
| 5   | 34  | 78  | 72  | 63  | 66  | 82  | 54  | 77  | 71  | 70  | 65  | 70  | 59  | 31  | 228 | 232 | 197 | 250 | 5   | 58  | 186 | 358 | 47  | 82  | 64  | 358 | 5   |
| 6   | 58  | 19  | 15  | 340 | 341 | 359 | 312 | 338 | 21  | 282 | 141 | 167 | 194 | 182 | 216 | 251 | 266 | 265 | 267 | 301 | 46  | 353 | 8   | 3   | 325 | 359 | 3   |
| 7   | 23  | 41  | 50  | 62  | 24  | 34  | 42  | 94  | 168 | 177 | 226 | 206 | 235 | 270 | 250 | 255 | 249 | 273 | 322 | 17  | 336 | 56  | 341 | 8   | 346 | 341 | 8   |
| 8   | 30  | 27  | 60  | 67  | 65  | 51  | 7   | 175 | 209 | 171 | 199 | 203 | 217 | 256 | 245 | 263 | 272 | 275 | 271 | 283 | 308 | 286 | 336 | 296 | 278 | 336 | 7   |
| 9   | 303 | 64  | 325 | 57  | 359 | 15  | 43  | 193 | 202 | 249 | 241 | 241 | 255 | 280 | 254 | 245 | 263 | 278 | 274 | 301 | 355 | 347 | 331 | 301 | 294 | 359 | 15  |
| 10  | 30  | 19  | 45  | 74  | 7   | 347 | 46  | 91  | 195 | 199 | 210 | 227 | 247 | 248 | 281 | 270 | 256 | 260 | 272 | 322 | 70  | 13  | 27  | 13  | 327 | 347 | 7   |
| 11  | 32  | 25  | 4   | 346 | 48  | 62  | 82  | 42  | 154 | 202 | 207 | 179 | 174 | 210 | 254 | 256 | 246 | 257 | 287 | 2   | 340 | 37  | 50  | 21  | 359 | 346 | 2   |
| 12  | 321 | 358 | 3   | 341 | 41  | 58  | 63  | 74  | 195 | 217 | 220 | 262 | 192 | 239 | 260 | 248 | 262 | 257 | 282 | 322 | 3   | 20  | 347 | 32  | 312 | 358 | 3   |
| 13  | 36  | 7   | 26  | 26  | 48  | 70  | 82  | 275 | 164 | 198 | 232 | 185 | 210 | 221 | 259 | 259 | 266 | 252 | 267 | 318 | 322 | 24  | 54  | 59  | 310 | 322 | 7   |
| 14  | 57  | 40  | 44  | 54  | 48  | 54  | 32  | 111 | 179 | 181 | 280 | 264 | 245 | 221 | 249 | 236 | 236 | 266 | 248 | 282 | 327 | 30  | 10  | 58  | 323 | 327 | 10  |
| 15  | 42  | 41  | 349 | 31  | 76  | 347 | 57  | 69  | 208 | 219 | 190 | 191 | 261 | 280 | 257 | 245 | 260 | 270 | 254 | 305 | 358 | 297 | 265 | 330 | 296 | 358 | 31  |
| 16  | 13  | 30  | 354 | 40  | 24  | 14  | 41  | 47  | 159 | 183 | 239 | 200 | 231 | 226 | 261 | 267 | 239 | 275 | 279 | 335 | 350 | 289 | 16  | 314 | 313 | 354 | 13  |
| 17  | 323 | 306 | 34  | 36  | 24  | 43  | 52  | 92  | 164 | 239 | 255 | 222 | 257 | 257 | 269 | 249 | 263 | 266 | 274 | 306 | 324 | 48  | 28  | 29  | 313 | 324 | 24  |
| 18  | 16  | 11  | 345 | 19  | 51  | 54  | 2   | 211 | 173 | 199 | 133 | 245 | 263 | 256 | 243 | 249 | 250 | 253 | 247 | 281 | 341 | 33  | 293 | 320 | 292 | 345 | 2   |
| 19  | 327 | 23  | 54  | 2   | 356 | 37  | 51  | 84  | 169 | 221 | 235 | 263 | 257 | 262 | 243 | 249 | 241 | 235 | 271 | 301 | 315 | 44  | 32  | 18  | 311 | 356 | 2   |
| 20  | 7   | 23  | 3   | 30  | 43  | 59  | 27  | 224 | 140 | 179 | 286 | 258 | 269 | 256 | 244 | 271 | 262 | 255 | 253 | 291 | 7   | 38  | 312 | 315 | 308 | 315 | 3   |
| 21  | 287 | 31  | 34  | 28  | 32  | 54  | 12  | 153 | 156 | 212 | 193 | 240 | 232 | 239 | 258 | 259 | 262 | 267 | 264 | 303 | 330 | 5   | 330 | 341 | 296 | 341 | 5   |
| 22  | 48  | 40  | 12  | 22  | 38  | 44  | 37  | 97  | 203 | 220 | 220 | 139 | 184 | 262 | 253 | 230 | 247 | 272 | 283 | 329 | 354 | 39  | 303 | 29  | 333 | 354 | 12  |
| 23  | 28  | 59  | 70  | 82  | 81  | 3   | 315 | 39  | 96  | 88  | 94  | 144 | 178 | 146 | 224 | 228 | 256 | 267 | 272 | 298 | 74  | 310 | 300 | 10  | 41  | 315 | 3   |
| 24  | 29  | 59  | 58  | 61  | 63  | 71  | 90  | 123 | 202 | 213 | 230 | 246 | 250 | 252 | 262 | 259 | 270 | 261 | 270 | 277 | 306 | 250 | 205 | 133 | 244 | 306 | 29  |
| 25  | 202 | 211 | 193 | 228 | 176 | 197 | 223 | 251 | 244 | 249 | 254 | 251 | 252 | 254 | 255 | 253 | 260 | 261 | 258 | 258 | 267 | 218 | 10  | 20  | 242 | 267 | 10  |
| 26  | 316 | 14  | 22  | 297 | 306 | 287 | 103 | 234 | 129 | 207 | 242 | 249 | 276 | 251 | 259 | 250 | 270 | 263 | 251 | 288 | 54  | 72  | 52  | 62  | 282 | 316 | 14  |
| 27  | 327 | 108 | 71  | 85  | 69  | 66  | 77  | 105 | 215 | 223 | 219 | 199 | 225 | 249 | 259 | 258 | 268 | 266 | 262 | 292 | 349 | 318 | 294 | 18  | 272 | 349 | 18  |
| 28  | 337 | 167 | 276 | 261 | 282 | 229 | 144 | 269 | 272 | 250 | 257 | 270 | 270 | 268 | 261 | 261 | 259 | 263 | 284 | 283 | 285 | 293 | 13  | 12  | 272 | 337 | 12  |
| 29  | 41  | 255 | 348 | 360 | 40  | 274 | 179 | 240 | 174 | 255 | 258 | 252 | 254 | 264 | 284 | 267 | 291 | 263 | 264 | 301 | 315 | 1   | 58  | 61  | 286 | 360 | 1   |
| 30  | 72  | 78  | 79  | 75  | 55  | 63  | 6   | 30  | 228 | 140 | 240 | 242 | 271 | 264 | 246 | 252 | 251 | 262 | 257 | 301 | 303 | 2   | 295 | 310 | 298 | 310 | 2   |
| Avg | 10  | 24  | 19  | 32  | 33  | 39  | 47  | 113 | 174 | 209 | 229 | 221 | 237 | 248 | 254 | 255 | 256 | 264 | 272 | 308 | 340 | 2   | 355 | 8   | 301 | --  | --  |
| Max | 337 | 358 | 354 | 360 | 359 | 359 | 315 | 338 | 318 | 282 | 286 | 270 | 276 | 280 | 284 | 359 | 291 | 352 | 352 | 356 | 358 | 358 | 354 | 341 | --  | 360 | --  |
| Min | 7   | 2   | 3   | 2   | 7   | 3   | 2   | 30  | 21  | 70  | 65  | 70  | 59  | 31  | 216 | 228 | 197 | 224 | 5   | 2   | 3   | 1   | 8   | 3   | --  | --  | 1   |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: May 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   | 333 | 343 | 2   | 337 | 57  | 5   | 66  | 86  | 163 | 177 | 243 | 269 | 253 | 268 | 259 | 262 | 255 | 256 | 270 | 312 | 1   | 341 | 279 | 331 | 303 | 343 | 1   |
| 2   | 358 | 309 | 336 | 342 | 20  | 51  | 61  | 97  | 191 | 240 | 265 | 281 | 265 | 242 | 280 | 262 | 268 | 265 | 263 | 333 | 1   | 357 | 335 | 353 | 311 | 358 | 1   |
| 3   | 0   | 46  | 47  | 34  | 34  | 48  | 242 | 352 | 122 | 126 | 342 | 336 | 296 | 268 | 251 | 258 | 295 | 337 | 189 | 118 | 1   | 27  | 358 | 321 | 352 | 358 | 0   |
| 4   | 223 | 253 | 48  | 58  | 342 | 47  | 74  | 291 | 220 | 163 | 80  | 258 | 231 | 202 | 238 | 230 | 272 | 247 | 260 | 333 | 7   | 294 | 360 | 307 | 280 | 360 | 7   |
| 5   | 323 | 34  | 8   | 70  | 77  | 78  | 63  | 300 | 264 | 29  | 81  | 114 | 142 | 214 | 184 | 130 | 301 | 200 | 101 | 178 | 80  | 21  | 263 | 141 | 88  | 323 | 8   |
| 6   | 149 | 73  | 89  | 54  | 35  | 72  | 324 | 113 | 186 | 215 | 211 | 215 | 200 | 200 | 208 | 213 | 209 | 225 | 229 | 241 | 230 | 248 | 308 | 260 | 208 | 324 | 35  |
| 7   | 236 | 304 | 198 | 182 | 289 | 340 | 312 | 360 | 230 | 264 | 277 | 263 | 268 | 278 | 278 | 260 | 254 | 242 | 232 | 196 | 162 | 144 | 206 | 88  | 251 | 360 | 88  |
| 8   | 35  | 61  | 274 | 38  | 202 | 13  | 125 | 128 | 268 | 282 | 274 | 274 | 270 | 256 | 214 | 268 | 281 | 232 | 269 | 263 | 270 | 251 | 297 | 253 | 268 | 297 | 13  |
| 9   | 311 | 193 | 162 | 80  | 109 | 291 | 193 | 199 | 195 | 243 | 233 | 196 | 219 | 239 | 271 | 259 | 51  | 118 | 162 | 162 | 85  | 273 | 358 | 12  | 206 | 358 | 12  |
| 10  | 44  | 277 | 315 | 292 | 357 | 197 | 270 | 283 | 276 | 265 | 260 | 255 | 268 | 259 | 256 | 266 | 274 | 274 | 264 | 272 | 320 | 59  | 40  | 341 | 285 | 357 | 40  |
| 11  | 1   | 290 | 10  | 317 | 321 | 31  | 38  | 167 | 268 | 245 | 276 | 240 | 270 | 268 | 277 | 271 | 266 | 278 | 264 | 274 | 8   | 0   | 328 | 325 | 299 | 328 | 0   |
| 12  | 306 | 318 | 38  | 326 | 17  | 36  | 40  | 260 | 189 | 198 | 204 | 153 | 157 | 146 | 259 | 269 | 267 | 265 | 267 | 327 | 339 | 21  | 306 | 38  | 300 | 339 | 17  |
| 13  | 57  | 57  | 63  | 58  | 40  | 41  | 56  | 88  | 167 | 225 | 184 | 200 | 217 | 233 | 244 | 238 | 248 | 247 | 243 | 229 | 251 | 101 | 152 | 143 | 179 | 251 | 40  |
| 14  | 116 | 116 | 130 | 104 | 77  | 57  | 106 | 119 | 180 | 170 | 171 | 192 | 206 | 215 | 227 | 253 | 255 | 243 | 223 | 243 | 236 | 85  | 271 | 67  | 173 | 271 | 57  |
| 15  | 73  | 329 | 341 | 334 | 293 | 28  | 81  | 134 | 174 | 183 | 187 | 186 | 209 | 219 | 224 | 246 | 252 | 247 | 241 | 238 | 236 | 233 | 177 | 210 | 225 | 341 | 28  |
| 16  | 133 | 201 | 215 | 211 | 94  | 194 | 220 | 187 | 237 | 250 | 267 | 235 | 251 | 269 | 252 | 257 | 259 | 269 | 258 | 259 | 325 | 58  | 56  | 33  | 239 | 325 | 33  |
| 17  | 3   | 325 | 34  | 45  | 52  | 42  | 83  | 152 | 154 | 156 | 183 | 223 | 208 | 241 | 244 | 224 | 229 | 245 | 262 | 268 | 265 | 251 | 257 | 264 | 239 | 325 | 3   |
| 18  | 271 | 276 | 263 | 297 | 304 | 312 | 36  | 327 | 216 | 286 | 272 | 251 | 263 | 267 | 253 | 264 | 257 | 267 | 264 | 269 | 312 | 341 | 305 | 6   | 284 | 341 | 6   |
| 19  | 323 | 43  | 115 | 76  | 89  | 170 | 255 | 64  | 78  | 82  | 86  | 14  | 322 | 332 | 310 | 226 | 257 | 270 | 265 | 299 | 334 | 28  | 64  | 74  | 16  | 334 | 14  |
| 20  | 181 | 101 | 64  | 61  | 64  | 62  | 68  | 73  | 77  | 62  | 53  | 352 | 197 | 249 | 263 | 295 | 263 | 242 | 273 | 307 | 13  | 44  | 36  | 156 | 43  | 352 | 13  |
| 21  | 70  | 279 | 300 | 10  | 316 | 324 | 344 | 264 | 295 | 61  | 136 | 228 | 239 | 270 | 251 | 236 | 255 | 261 | 268 | 298 | 1   | 16  | 317 | 265 | 293 | 344 | 1   |
| 22  | 278 | 328 | 1   | 312 | 53  | 339 | 31  | 269 | 200 | 76  | 56  | 298 | 267 | 254 | 263 | 264 | 262 | 265 | 279 | 294 | 352 | 243 | 299 | 336 | 301 | 352 | 1   |
| 23  | 39  | 32  | 345 | 91  | 71  | 75  | 50  | 312 | 221 | 314 | 304 | 285 | 272 | 243 | 242 | 253 | 255 | 250 | 254 | 284 | 334 | 359 | 43  | 7   | 317 | 359 | 7   |
| 24  | 67  | 37  | 78  | 354 | 64  | 56  | 64  | 99  | 190 | 212 | 195 | 260 | 258 | 266 | 268 | 254 | 253 | 281 | 278 | 268 | 257 | 251 | 204 | 161 | 248 | 354 | 37  |
| 25  | 71  | 38  | 162 | 138 | 64  | 48  | 68  | 207 | 217 | 205 | 228 | 247 | 252 | 239 | 238 | 249 | 250 | 257 | 239 | 222 | 205 | 181 | 131 | 140 | 203 | 257 | 38  |
| 26  | 18  | 57  | 55  | 281 | 309 | 18  | 5   | 123 | 198 | 206 | 214 | 217 | 226 | 225 | 241 | 248 | 249 | 254 | 237 | 216 | 226 | 32  | 98  | 172 | 234 | 309 | 5   |
| 27  | 277 | 359 | 42  | 25  | 35  | 58  | 64  | 101 | 166 | 191 | 195 | 231 | 244 | 263 | 251 | 267 | 265 | 263 | 267 | 290 | 355 | 321 | 245 | 304 | 284 | 359 | 25  |
| 28  | 310 | 334 | 341 | 310 | 36  | 33  | 336 | 155 | 193 | 191 | 253 | 260 | 245 | 277 | 261 | 235 | 237 | 258 | 265 | 300 | 348 | 356 | 277 | 0   | 289 | 356 | 0   |
| 29  | 32  | 341 | 14  | 350 | 51  | 80  | 310 | 295 | 226 | 124 | 182 | 179 | 186 | 214 | 250 | 253 | 253 | 252 | 278 | 322 | 3   | 323 | 31  | 77  | 304 | 350 | 3   |
| 30  | 111 | 77  | 91  | 80  | 135 | 68  | 84  | 81  | 90  | 135 | 145 | 141 | 194 | 258 | 257 | 260 | 260 | 260 | 285 | 64  | 75  | 62  | 46  | 200 | 112 | 285 | 46  |
| 31  | 229 | 228 | 290 | 39  | 48  | 23  | 62  | 61  | 78  | 88  | 135 | 150 | 181 | 203 | 273 | 270 | 257 | 261 | 258 | 279 | 265 | 258 | 265 | 341 | 262 | 341 | 23  |
| Avg | 7   | 355 | 25  | 22  | 38  | 38  | 46  | 118 | 197 | 195 | 214 | 236 | 236 | 245 | 252 | 252 | 260 | 255 | 254 | 271 | 324 | 349 | 321 | 351 | 272 | --  | --  |
| Max | 358 | 359 | 345 | 354 | 357 | 340 | 344 | 360 | 295 | 314 | 342 | 352 | 322 | 332 | 310 | 295 | 301 | 337 | 285 | 333 | 355 | 359 | 360 | 353 | --  | 360 | --  |
| Min | 0   | 32  | 1   | 10  | 17  | 5   | 5   | 61  | 77  | 29  | 53  | 14  | 142 | 146 | 184 | 130 | 51  | 118 | 101 | 64  | 1   | 0   | 31  | 0   | --  | --  | 0   |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Jun 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           | 340 | 36  | 51  | 1   | 15  | 95  | 84  | 104 | 179 | 129 | 155 | 138 | 226 | 231 | 262 | 278 | 255 | 269 | 267 | 277 | 312 | 343 | 38  | 57  | 339 | 343 | 1   |
| 2           | 326 | 31  | 322 | 23  | 50  | 37  | 47  | 241 | 208 | 219 | 247 | 234 | 261 | 250 | 269 | 262 | 259 | 266 | 250 | 276 | 341 | 20  | 332 | 301 | 292 | 341 | 20  |
| 3           | 321 | 346 | 23  | 341 | 36  | 71  | 67  | 182 | 213 | 199 | 235 | 263 | 254 | 245 | 232 | 264 | 247 | 255 | 261 | 293 | 356 | 360 | 13  | 33  | 295 | 360 | 13  |
| 4           | 41  | 37  | 327 | 356 | 334 | 323 | 316 | 159 | 156 | 195 | 238 | 262 | 277 | 263 | 272 | 252 | 263 | 260 | 265 | 276 | 61  | 56  | 336 | 351 | 297 | 356 | 37  |
| 5           | 346 | 328 | 6   | 38  | 326 | 343 | 21  | 120 | 205 | 233 | 270 | 269 | 273 | 259 | 267 | 259 | 260 | 265 | 264 | 280 | 311 | 24  | 351 | 13  | 303 | 351 | 6   |
| 6           | 288 | 314 | 53  | 317 | 357 | 322 | 216 | 168 | 213 | 272 | 250 | 241 | 245 | 270 | 258 | 266 | 267 | 265 | 272 | 285 | 6   | 80  | 58  | 50  | 283 | 357 | 6   |
| 7           | 67  | 31  | 44  | 31  | 0   | 50  | 271 | 146 | 262 | 235 | 239 | 251 | 250 | 269 | 270 | 262 | 250 | 271 | 267 | 273 | 111 | 34  | 0   | 57  | 298 | 273 | 0   |
| 8           | 76  | 66  | 50  | 62  | 70  | 70  | 104 | 82  | 173 | 175 | 210 | 264 | 250 | 254 | 270 | 263 | 265 | 266 | 272 | 297 | 343 | 9   | 8   | 308 | 316 | 343 | 8   |
| 9           | 314 | 15  | 308 | 287 | 330 | 321 | 36  | 159 | 213 | 200 | 257 | 260 | 280 | 245 | 245 | 268 | 260 | 268 | 274 | 285 | 306 | 334 | 77  | 307 | 284 | 334 | 15  |
| 10          | 358 | 7   | 25  | 296 | 295 | 50  | 87  | 179 | 106 | 162 | 196 | 208 | 216 | 243 | 248 | 238 | 241 | 243 | 236 | 242 | 249 | 252 | 63  | 117 | 233 | 358 | 7   |
| 11          | 164 | 144 | 149 | 95  | 350 | 49  | 80  | 120 | 159 | 171 | 198 | 201 | 212 | 203 | 222 | 233 | 223 | 232 | 247 | 262 | 257 | 264 | 257 | 256 | 205 | 350 | 49  |
| 12          | 143 | 171 | 105 | 174 | 325 | 17  | 59  | 161 | 255 | 216 | 203 | 224 | 241 | 241 | 250 | 251 | 245 | 240 | 255 | 271 | 267 | 80  | 342 | 123 | 225 | 342 | 17  |
| 13          | 49  | 7   | 353 | 49  | 48  | 26  | 66  | 155 | 273 | 248 | 232 | 180 | 232 | 233 | 251 | 252 | 245 | 245 | 257 | 274 | 340 | 339 | 296 | 357 | 291 | 357 | 7   |
| 14          | 17  | 18  | 16  | 35  | 343 | 46  | 51  | 126 | 202 | 295 | 203 | 225 | 264 | 272 | 270 | 268 | 260 | 272 | 270 | 304 | 1   | 295 | 306 | 307 | 304 | 343 | 1   |
| 15          | 350 | 322 | 314 | 321 | 329 | 27  | 54  | 210 | 214 | 173 | 261 | 243 | 254 | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | 291 | 350 | 27  |
| 16          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 17          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 18          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 19          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 20          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 21          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 22          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 23          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 24          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 25          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 26          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 27          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 28          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 29          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 30          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| Avg         | 6   | 16  | 18  | 8   | 357 | 29  | 57  | 153 | 203 | 207 | 227 | 234 | 249 | 249 | 256 | 258 | 253 | 258 | 261 | 278 | 329 | 2   | 358 | 4   | 282 | --  | --  |
| Max         | 358 | 346 | 353 | 356 | 357 | 343 | 316 | 241 | 273 | 295 | 270 | 269 | 280 | 272 | 272 | 278 | 267 | 272 | 274 | 304 | 356 | 360 | 351 | 357 | --  | 360 | --  |
| Min         | 17  | 7   | 6   | 1   | 0   | 17  | 21  | 82  | 106 | 129 | 155 | 138 | 212 | 203 | 222 | 233 | 223 | 232 | 236 | 242 | 1   | 9   | 0   | 13  | --  | --  | 0   |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Apr 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 | 0.8 | 0.4 | 0.5 | 1.4 | 1.7 | 1.4 | 3.4 | 1.8  | 1.5 | 2.1 | 2.6 | 2.5 | 3.5 | 3.5 | 3.8 | 2.0 | 2.2 | 2.5 | 1.6 | 2.4 | 2.6 | 2.4 | 1.9 | 2.1 | 3.8  | 0.4 |
| 2   | 1.0 | 1.6 | 0.7 | 1.0 | 1.1 | 0.8 | 1.5 | 1.0 | 1.0  | 2.9 | 3.4 | 2.8 | 4.1 | 5.1 | 4.9 | 5.0 | 5.0 | 4.8 | 3.7 | 1.7 | 1.4 | 0.8 | 1.2 | 0.6 | 2.4 | 5.1  | 0.6 |
| 3   | 1.0 | 0.6 | 1.7 | 1.4 | 0.7 | 2.5 | 2.0 | 2.5 | 1.9  | 1.9 | 1.9 | 2.6 | 4.5 | 6.0 | 5.9 | 6.0 | 6.6 | 6.5 | 6.1 | 5.3 | 4.5 | 6.2 | 2.3 | 1.7 | 3.4 | 6.6  | 0.6 |
| 4   | 1.6 | 2.6 | 2.0 | 0.8 | 1.3 | 0.9 | 1.2 | 0.9 | 1.0  | 2.2 | 3.0 | 3.0 | 3.4 | 5.6 | 6.1 | 5.6 | 4.5 | 4.3 | 2.8 | 0.6 | 0.8 | 1.2 | 0.7 | 1.3 | 2.4 | 6.1  | 0.6 |
| 5   | 2.6 | 5.4 | 4.2 | 5.5 | 5.8 | 4.0 | 3.5 | 8.6 | 10.4 | 9.1 | 6.6 | 3.7 | 2.5 | 1.8 | 2.7 | 2.2 | 2.2 | 1.3 | 1.3 | 2.4 | 1.7 | 0.6 | 1.5 | 4.0 | 3.9 | 10.4 | 0.6 |
| 6   | 1.6 | 1.2 | 1.2 | 0.8 | 1.0 | 1.4 | 2.1 | 2.4 | 3.2  | 2.7 | 1.9 | 2.2 | 3.5 | 2.9 | 2.5 | 2.8 | 4.6 | 4.4 | 2.7 | 1.0 | 0.5 | 0.6 | 0.6 | 0.9 | 2.0 | 4.6  | 0.5 |
| 7   | 1.6 | 2.1 | 2.2 | 1.9 | 0.3 | 1.1 | 1.1 | 1.6 | 1.4  | 1.4 | 2.5 | 1.9 | 2.6 | 3.5 | 3.3 | 3.9 | 3.6 | 2.3 | 0.9 | 1.3 | 0.8 | 1.2 | 0.4 | 0.6 | 1.8 | 3.9  | 0.3 |
| 8   | 1.6 | 0.5 | 1.8 | 1.4 | 1.9 | 1.7 | 1.2 | 1.5 | 0.7  | 1.7 | 2.9 | 3.8 | 4.6 | 5.4 | 4.9 | 4.7 | 4.9 | 5.7 | 4.3 | 1.3 | 0.9 | 1.0 | 1.1 | 1.6 | 2.6 | 5.7  | 0.5 |
| 9   | 1.6 | 0.5 | 0.5 | 1.1 | 0.9 | 0.8 | 1.5 | 0.8 | 1.2  | 1.5 | 2.1 | 2.3 | 3.4 | 3.1 | 3.0 | 3.5 | 3.2 | 4.2 | 3.2 | 1.5 | 0.4 | 0.3 | 0.4 | 0.8 | 1.7 | 4.2  | 0.3 |
| 10  | 1.2 | 0.9 | 2.4 | 4.7 | 1.6 | 0.9 | 1.7 | 1.7 | 1.2  | 1.5 | 2.3 | 2.1 | 2.6 | 2.4 | 2.8 | 3.4 | 3.1 | 3.1 | 2.2 | 1.2 | 1.1 | 0.8 | 0.8 | 0.5 | 1.9 | 4.7  | 0.5 |
| 11  | 0.9 | 1.7 | 0.5 | 0.3 | 3.1 | 4.2 | 4.4 | 2.5 | 1.0  | 1.0 | 1.3 | 2.9 | 4.5 | 2.7 | 3.8 | 4.7 | 4.0 | 4.2 | 2.5 | 0.2 | 1.4 | 0.9 | 1.9 | 1.2 | 2.3 | 4.7  | 0.2 |
| 12  | 0.5 | 0.5 | 0.5 | 0.7 | 2.0 | 3.4 | 2.7 | 1.2 | 1.0  | 1.1 | 1.4 | 1.9 | 2.4 | 3.7 | 3.6 | 3.4 | 3.7 | 3.8 | 2.9 | 0.9 | 0.9 | 1.8 | 0.7 | 1.4 | 1.9 | 3.8  | 0.5 |
| 13  | 1.9 | 0.5 | 1.0 | 1.7 | 2.4 | 4.6 | 4.4 | 1.0 | 0.9  | 1.6 | 1.5 | 3.2 | 5.0 | 5.0 | 6.0 | 5.5 | 4.4 | 4.0 | 2.4 | 1.1 | 0.7 | 0.8 | 1.1 | 1.0 | 2.6 | 6.0  | 0.5 |
| 14  | 0.9 | 0.5 | 1.8 | 2.1 | 2.2 | 2.5 | 1.1 | 2.3 | 1.0  | 2.2 | 3.1 | 4.1 | 3.4 | 4.6 | 4.7 | 4.5 | 4.6 | 3.8 | 3.4 | 1.0 | 0.8 | 0.6 | 0.8 | 1.3 | 2.4 | 4.7  | 0.5 |
| 15  | 0.8 | 1.7 | 0.8 | 1.5 | 1.9 | 0.4 | 1.3 | 2.3 | 1.5  | 1.3 | 2.6 | 2.4 | 2.7 | 3.0 | 3.6 | 3.1 | 3.5 | 3.2 | 2.4 | 1.6 | 1.7 | 1.1 | 0.7 | 0.6 | 1.9 | 3.6  | 0.4 |
| 16  | 0.6 | 0.9 | 1.0 | 2.0 | 1.3 | 1.4 | 1.0 | 0.7 | 1.5  | 1.2 | 1.2 | 1.8 | 2.8 | 3.1 | 3.7 | 3.6 | 3.4 | 4.0 | 3.0 | 1.3 | 1.4 | 0.6 | 0.5 | 0.3 | 1.8 | 4.0  | 0.3 |
| 17  | 0.6 | 0.6 | 0.8 | 1.4 | 1.2 | 1.5 | 2.5 | 1.5 | 0.8  | 1.7 | 2.3 | 2.2 | 3.1 | 3.1 | 3.6 | 3.9 | 4.1 | 4.4 | 3.2 | 1.1 | 0.4 | 0.5 | 0.7 | 0.8 | 1.9 | 4.4  | 0.4 |
| 18  | 0.8 | 0.6 | 0.5 | 1.0 | 2.3 | 3.1 | 1.3 | 0.5 | 0.8  | 1.4 | 2.0 | 3.0 | 4.2 | 4.1 | 4.1 | 4.7 | 5.3 | 5.2 | 3.7 | 2.3 | 0.7 | 0.3 | 1.2 | 0.9 | 2.2 | 5.3  | 0.3 |
| 19  | 0.8 | 1.0 | 0.7 | 0.7 | 0.8 | 0.5 | 1.6 | 1.6 | 1.4  | 1.9 | 2.1 | 3.5 | 3.7 | 4.4 | 3.9 | 4.4 | 4.3 | 3.8 | 3.2 | 0.9 | 0.8 | 1.2 | 1.6 | 1.0 | 2.1 | 4.4  | 0.5 |
| 20  | 0.5 | 0.4 | 0.6 | 1.0 | 1.4 | 2.3 | 0.9 | 0.6 | 0.9  | 1.3 | 2.5 | 3.0 | 3.8 | 4.1 | 4.5 | 4.4 | 4.7 | 4.4 | 3.7 | 2.1 | 0.5 | 0.6 | 0.8 | 0.5 | 2.1 | 4.7  | 0.4 |
| 21  | 0.5 | 1.3 | 1.8 | 1.4 | 1.7 | 3.1 | 1.9 | 0.9 | 1.2  | 1.7 | 2.2 | 3.0 | 3.1 | 3.4 | 4.1 | 4.5 | 4.9 | 5.4 | 3.5 | 1.1 | 0.8 | 0.8 | 0.7 | 0.7 | 2.2 | 5.4  | 0.5 |
| 22  | 1.7 | 0.6 | 1.0 | 1.4 | 1.4 | 1.4 | 2.6 | 1.2 | 1.6  | 1.7 | 2.0 | 1.8 | 2.1 | 2.6 | 2.7 | 3.6 | 3.9 | 3.3 | 2.7 | 1.1 | 0.5 | 1.7 | 0.5 | 1.3 | 1.9 | 3.9  | 0.5 |
| 23  | 1.5 | 4.7 | 4.1 | 4.9 | 5.2 | 2.9 | 2.9 | 4.1 | 4.1  | 3.5 | 3.9 | 3.6 | 3.1 | 3.0 | 4.3 | 5.0 | 5.2 | 4.3 | 2.9 | 1.2 | 0.7 | 2.0 | 2.2 | 0.9 | 3.3 | 5.2  | 0.7 |
| 24  | 1.0 | 1.6 | 1.5 | 1.6 | 1.4 | 2.0 | 2.0 | 2.1 | 4.4  | 5.6 | 5.3 | 5.5 | 6.0 | 6.3 | 6.0 | 6.1 | 6.0 | 5.8 | 4.3 | 2.0 | 0.5 | 2.9 | 2.7 | 1.4 | 3.5 | 6.3  | 0.5 |
| 25  | 3.8 | 3.7 | 3.1 | 2.0 | 2.0 | 3.4 | 3.9 | 3.4 | 4.5  | 4.3 | 5.0 | 5.6 | 6.1 | 7.2 | 6.1 | 6.3 | 7.0 | 7.1 | 6.1 | 5.4 | 3.8 | 1.0 | 1.3 | 1.3 | 4.3 | 7.2  | 1.0 |
| 26  | 2.0 | 1.2 | 1.5 | 1.3 | 1.1 | 1.2 | 0.8 | 1.0 | 2.4  | 1.8 | 2.2 | 2.8 | 2.9 | 4.1 | 4.4 | 5.0 | 5.5 | 4.6 | 3.5 | 1.5 | 0.5 | 0.7 | 0.8 | 1.0 | 2.2 | 5.5  | 0.5 |
| 27  | 0.5 | 0.7 | 0.8 | 1.2 | 1.3 | 1.3 | 1.0 | 0.7 | 2.8  | 3.3 | 3.2 | 3.8 | 5.5 | 5.3 | 5.9 | 6.1 | 6.5 | 5.4 | 4.4 | 1.9 | 0.9 | 1.1 | 0.9 | 0.8 | 2.7 | 6.5  | 0.5 |
| 28  | 1.5 | 1.1 | 1.0 | 1.3 | 1.5 | 1.1 | 0.9 | 2.9 | 4.3  | 6.0 | 6.5 | 6.4 | 5.6 | 7.5 | 7.8 | 8.1 | 8.8 | 8.8 | 9.0 | 7.1 | 4.9 | 2.5 | 3.7 | 4.0 | 4.7 | 9.0  | 0.9 |
| 29  | 3.4 | 1.1 | 1.6 | 2.8 | 2.6 | 1.0 | 1.1 | 1.9 | 1.9  | 2.1 | 2.5 | 4.0 | 5.8 | 5.5 | 5.5 | 6.1 | 4.0 | 3.7 | 2.4 | 1.6 | 1.3 | 0.8 | 2.2 | 3.1 | 2.8 | 6.1  | 0.8 |
| 30  | 4.3 | 4.2 | 4.8 | 3.8 | 2.9 | 1.4 | 0.9 | 2.2 | 1.9  | 2.1 | 2.5 | 4.2 | 4.1 | 4.0 | 4.1 | 4.3 | 3.9 | 4.5 | 3.4 | 1.4 | 0.8 | 0.9 | 1.0 | 0.8 | 2.9 | 4.8  | 0.8 |
| Avg | 1.5 | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 1.9 | 2.0 | 2.1  | 2.4 | 2.8 | 3.2 | 3.8 | 4.2 | 4.4 | 4.6 | 4.6 | 4.4 | 3.4 | 1.8 | 1.3 | 1.3 | 1.3 | 1.3 | 2.5 | --   | --  |
| Max | 4.3 | 5.4 | 4.8 | 5.5 | 5.8 | 4.6 | 4.4 | 8.6 | 10.4 | 9.1 | 6.6 | 6.4 | 6.1 | 7.5 | 7.8 | 8.1 | 8.8 | 8.8 | 9.0 | 7.1 | 4.9 | 6.2 | 3.7 | 4.0 | --  | 10.4 | --  |
| Min | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.8 | 0.5 | 0.7  | 1.0 | 1.2 | 1.8 | 2.1 | 1.8 | 2.5 | 2.2 | 2.0 | 1.3 | 0.9 | 0.2 | 0.4 | 0.3 | 0.4 | 0.3 | --  | --   | 0.2 |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: May 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   | 0.7 | 1.4 | 0.9 | 0.8 | 2.4 | 1.3 | 2.0 | 2.7 | 1.5 | 2.1 | 2.0 | 2.2 | 3.2 | 3.4 | 3.4 | 3.8 | 4.0 | 4.2 | 3.7 | 1.4 | 0.4  | 0.9  | 0.9 | 0.6 | 2.1 | 4.2  | 0.4 |
| 2   | 0.3 | 0.3 | 0.3 | 0.2 | 1.0 | 2.4 | 3.6 | 2.7 | 2.1 | 1.7 | 2.1 | 3.2 | 4.3 | 5.1 | 4.8 | 5.3 | 4.7 | 4.5 | 3.4 | 1.1 | 0.7  | 0.7  | 0.7 | 0.6 | 2.3 | 5.3  | 0.2 |
| 3   | 0.5 | 0.8 | 1.2 | 1.1 | 1.9 | 2.1 | 0.9 | 2.1 | 2.6 | 3.0 | 1.9 | 2.1 | 2.5 | 3.4 | 3.1 | 3.8 | 3.3 | 2.9 | 1.8 | 1.0 | 1.1  | 0.4  | 0.9 | 1.2 | 1.9 | 3.8  | 0.4 |
| 4   | 0.9 | 1.1 | 1.6 | 1.9 | 0.8 | 2.8 | 2.2 | 0.7 | 1.6 | 2.8 | 3.7 | 2.0 | 2.7 | 2.6 | 3.2 | 2.9 | 3.3 | 3.6 | 3.2 | 1.5 | 1.7  | 1.1  | 0.5 | 0.5 | 2.0 | 3.7  | 0.5 |
| 5   | 0.6 | 1.7 | 1.0 | 5.0 | 5.8 | 5.7 | 5.0 | 3.2 | 2.8 | 3.3 | 4.4 | 2.7 | 4.5 | 3.1 | 2.9 | 2.8 | 1.5 | 4.0 | 4.3 | 3.4 | 1.4  | 1.0  | 0.6 | 1.2 | 3.0 | 5.8  | 0.6 |
| 6   | 1.3 | 1.7 | 1.2 | 0.6 | 1.7 | 2.2 | 0.8 | 0.5 | 2.6 | 4.2 | 5.1 | 5.4 | 6.0 | 7.0 | 7.3 | 8.5 | 8.8 | 7.2 | 7.6 | 6.4 | 3.0  | 2.1  | 2.1 | 2.3 | 4.0 | 8.8  | 0.5 |
| 7   | 2.0 | 2.1 | 1.2 | 1.4 | 1.2 | 0.8 | 1.4 | 0.7 | 1.3 | 4.0 | 4.6 | 5.3 | 6.3 | 6.5 | 5.5 | 5.5 | 4.9 | 4.3 | 4.2 | 1.6 | 1.1  | 0.9  | 1.3 | 0.5 | 2.9 | 6.5  | 0.5 |
| 8   | 1.2 | 0.7 | 0.5 | 2.9 | 0.7 | 0.9 | 0.9 | 0.9 | 1.3 | 2.1 | 3.4 | 4.1 | 3.7 | 2.9 | 3.1 | 3.0 | 3.4 | 3.0 | 4.2 | 3.8 | 3.4  | 4.2  | 3.5 | 2.2 | 2.5 | 4.2  | 0.5 |
| 9   | 2.4 | 1.8 | 1.7 | 2.3 | 1.7 | 0.8 | 0.5 | 1.5 | 1.7 | 2.2 | 2.7 | 2.9 | 3.3 | 3.5 | 3.7 | 3.6 | 3.9 | 4.3 | 3.1 | 1.8 | 2.0  | 1.3  | 1.1 | 0.6 | 2.3 | 4.3  | 0.5 |
| 10  | 0.8 | 0.4 | 1.2 | 0.7 | 0.3 | 0.5 | 0.5 | 0.9 | 1.5 | 3.0 | 3.4 | 4.0 | 4.1 | 3.8 | 4.0 | 3.8 | 4.0 | 4.2 | 3.9 | 2.0 | 1.1  | 0.9  | 0.9 | 0.5 | 2.1 | 4.2  | 0.3 |
| 11  | 0.9 | 0.6 | 0.4 | 0.8 | 1.1 | 0.8 | 1.0 | 1.0 | 0.9 | 2.0 | 2.0 | 1.8 | 3.2 | 3.7 | 4.1 | 4.9 | 5.0 | 4.5 | 3.9 | 1.6 | 0.7  | 1.2  | 0.8 | 0.4 | 2.0 | 5.0  | 0.4 |
| 12  | 0.6 | 1.0 | 1.0 | 1.0 | 0.8 | 2.3 | 1.6 | 1.2 | 1.0 | 1.3 | 2.4 | 4.0 | 4.0 | 2.3 | 4.2 | 3.9 | 4.4 | 4.9 | 3.3 | 1.4 | 1.0  | 1.2  | 0.5 | 0.4 | 2.1 | 4.9  | 0.4 |
| 13  | 0.6 | 0.7 | 1.0 | 1.5 | 1.1 | 1.3 | 2.0 | 1.1 | 1.6 | 1.8 | 3.0 | 3.9 | 5.2 | 5.6 | 6.0 | 6.2 | 6.2 | 6.4 | 5.7 | 4.8 | 4.1  | 0.7  | 1.0 | 1.5 | 3.1 | 6.4  | 0.6 |
| 14  | 1.0 | 1.2 | 1.7 | 1.1 | 1.6 | 1.4 | 1.0 | 2.2 | 3.8 | 4.3 | 5.0 | 4.5 | 4.5 | 5.0 | 4.8 | 4.8 | 3.8 | 4.2 | 4.3 | 3.9 | 2.7  | 0.6  | 1.0 | 1.1 | 2.9 | 5.0  | 0.6 |
| 15  | 0.7 | 0.9 | 1.0 | 0.6 | 0.7 | 1.2 | 1.7 | 2.7 | 4.8 | 5.6 | 5.6 | 6.3 | 7.1 | 6.4 | 7.3 | 8.1 | 8.5 | 7.2 | 6.5 | 5.3 | 4.7  | 2.6  | 1.0 | 1.2 | 4.1 | 8.5  | 0.6 |
| 16  | 1.8 | 2.1 | 1.9 | 1.3 | 0.8 | 1.0 | 1.4 | 1.9 | 2.4 | 3.6 | 4.3 | 4.1 | 4.1 | 4.9 | 5.4 | 5.5 | 5.0 | 5.3 | 4.6 | 2.8 | 0.8  | 1.1  | 1.7 | 1.3 | 2.9 | 5.5  | 0.8 |
| 17  | 1.1 | 0.5 | 0.7 | 0.9 | 1.2 | 0.8 | 0.7 | 1.4 | 2.8 | 2.5 | 2.2 | 3.1 | 3.7 | 5.1 | 5.8 | 5.6 | 5.3 | 5.7 | 5.6 | 3.6 | 4.1  | 3.9  | 3.3 | 2.5 | 3.0 | 5.8  | 0.5 |
| 18  | 2.8 | 1.4 | 1.5 | 1.2 | 1.0 | 0.6 | 0.7 | 1.0 | 1.5 | 2.1 | 3.6 | 4.5 | 6.0 | 6.4 | 6.9 | 5.7 | 6.3 | 5.8 | 5.4 | 2.7 | 1.1  | 1.0  | 1.0 | 0.8 | 3.0 | 6.9  | 0.6 |
| 19  | 0.7 | 0.5 | 1.0 | 2.8 | 3.6 | 2.1 | 2.3 | 6.4 | 6.0 | 4.6 | 2.6 | 2.7 | 3.1 | 2.7 | 3.3 | 3.5 | 3.7 | 4.7 | 4.3 | 1.2 | 0.6  | 2.2  | 3.3 | 3.5 | 3.0 | 6.4  | 0.5 |
| 20  | 2.5 | 3.9 | 6.0 | 6.2 | 5.6 | 7.5 | 8.4 | 9.4 | 4.6 | 7.5 | 4.3 | 2.8 | 3.0 | 2.5 | 2.8 | 2.8 | 2.8 | 4.0 | 4.0 | 2.1 | 0.6  | 1.3  | 1.7 | 1.5 | 4.1 | 9.4  | 0.6 |
| 21  | 0.8 | 1.8 | 1.3 | 2.0 | 1.5 | 0.9 | 0.9 | 0.8 | 2.7 | 4.5 | 2.4 | 2.2 | 3.1 | 3.4 | 3.8 | 3.8 | 4.8 | 4.5 | 3.8 | 1.6 | 0.6  | 0.7  | 1.0 | 0.5 | 2.2 | 4.8  | 0.5 |
| 22  | 0.6 | 0.5 | 0.6 | 0.5 | 2.3 | 1.4 | 0.9 | 1.3 | 2.6 | 4.2 | 1.7 | 2.4 | 3.7 | 4.2 | 4.4 | 4.9 | 6.6 | 5.6 | 4.8 | 2.2 | 0.3  | 0.4  | 0.4 | 0.4 | 2.4 | 6.6  | 0.3 |
| 23  | 2.3 | 2.4 | 1.8 | 3.4 | 4.7 | 5.2 | 3.9 | 1.4 | 2.2 | 2.0 | 2.4 | 2.9 | 3.4 | 4.1 | 4.8 | 4.8 | 5.1 | 4.8 | 3.9 | 1.5 | 0.7  | 0.6  | 2.4 | 1.0 | 3.0 | 5.2  | 0.6 |
| 24  | 3.2 | 2.7 | 1.9 | 1.2 | 1.4 | 1.6 | 0.9 | 1.4 | 1.2 | 1.9 | 1.7 | 2.9 | 4.1 | 5.0 | 5.0 | 5.5 | 6.3 | 5.4 | 4.5 | 3.9 | 3.6  | 2.6  | 2.7 | 1.2 | 3.0 | 6.3  | 0.9 |
| 25  | 1.0 | 0.7 | 1.7 | 2.2 | 1.0 | 0.7 | 1.1 | 2.1 | 4.0 | 5.0 | 4.4 | 4.5 | 4.9 | 5.9 | 5.7 | 5.8 | 5.7 | 6.4 | 6.3 | 5.6 | 3.5  | 2.5  | 1.5 | 1.4 | 3.5 | 6.4  | 0.7 |
| 26  | 1.1 | 0.9 | 0.7 | 0.8 | 0.9 | 0.6 | 0.9 | 1.2 | 3.3 | 5.3 | 5.5 | 5.5 | 6.7 | 6.7 | 6.5 | 6.4 | 6.3 | 6.2 | 4.8 | 3.4 | 2.6  | 1.1  | 2.2 | 1.5 | 3.4 | 6.7  | 0.6 |
| 27  | 1.4 | 0.9 | 1.1 | 0.9 | 1.9 | 3.0 | 2.9 | 1.7 | 3.1 | 3.3 | 2.6 | 1.8 | 2.8 | 3.4 | 3.8 | 3.9 | 3.9 | 4.5 | 4.1 | 1.9 | 0.7  | 0.8  | 0.7 | 0.9 | 2.3 | 4.5  | 0.7 |
| 28  | 0.3 | 0.2 | 0.4 | 0.4 | 0.2 | 0.9 | 1.3 | 0.5 | 1.2 | 1.5 | 2.6 | 3.1 | 3.5 | 3.3 | 3.5 | 3.4 | 3.6 | 3.7 | 3.4 | 1.7 | 1.4  | 1.5  | 0.9 | 1.0 | 1.8 | 3.7  | 0.2 |
| 29  | 1.2 | 0.5 | 0.7 | 1.5 | 2.9 | 3.9 | 2.1 | 1.3 | 1.6 | 2.7 | 3.2 | 3.7 | 3.3 | 3.0 | 3.5 | 3.0 | 5.2 | 4.5 | 4.0 | 1.8 | 1.0  | 0.4  | 1.3 | 4.2 | 2.5 | 5.2  | 0.4 |
| 30  | 2.6 | 4.6 | 4.7 | 2.9 | 1.9 | 2.0 | 4.3 | 4.4 | 3.1 | 3.4 | 4.8 | 3.2 | 3.7 | 4.6 | 4.6 | 5.4 | 5.3 | 5.2 | 4.4 | 8.6 | 10.2 | 11.3 | 7.2 | 3.7 | 4.8 | 11.3 | 1.9 |
| 31  | 3.8 | 3.0 | 2.8 | 4.3 | 4.9 | 4.2 | 5.5 | 6.0 | 4.7 | 4.6 | 4.1 | 3.3 | 3.4 | 2.3 | 4.6 | 4.0 | 4.4 | 4.1 | 3.6 | 2.6 | 3.2  | 4.3  | 2.4 | 1.2 | 3.8 | 6.0  | 1.2 |
| Avg | 1.4 | 1.4 | 1.4 | 1.8 | 1.9 | 2.0 | 2.0 | 2.1 | 2.5 | 3.3 | 3.3 | 3.5 | 4.1 | 4.3 | 4.6 | 4.7 | 4.8 | 4.8 | 4.3 | 2.8 | 2.1  | 1.8  | 1.6 | 1.3 | 2.8 | --   | --  |
| Max | 3.8 | 4.6 | 6.0 | 6.2 | 5.8 | 7.5 | 8.4 | 9.4 | 6.0 | 7.5 | 5.6 | 6.3 | 7.1 | 7.0 | 7.3 | 8.5 | 8.8 | 7.2 | 7.6 | 8.6 | 10.2 | 11.3 | 7.2 | 4.2 | --  | 11.3 | --  |
| Min | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.9 | 1.3 | 1.7 | 1.8 | 2.5 | 2.3 | 2.8 | 2.8 | 1.5 | 2.9 | 1.8 | 1.0 | 0.3  | 0.4  | 0.4 | 0.4 | --  | --   | 0.2 |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Jun 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           | 0.7 | 0.5 | 1.2 | 0.4 | 1.2 | 1.9 | 2.9 | 1.8 | 2.0 | 4.2 | 4.6 | 3.4 | 4.5 | 3.6 | 5.1 | 4.7 | 4.5 | 4.2 | 4.4 | 3.5 | 1.0 | 0.5 | 0.8 | 1.0 | 2.6 | 5.1 | 0.4 |
| 2           | 0.5 | 0.5 | 0.5 | 0.4 | 1.3 | 0.8 | 0.9 | 1.0 | 1.1 | 1.6 | 2.8 | 2.9 | 3.2 | 3.5 | 4.3 | 4.6 | 4.6 | 4.0 | 3.4 | 2.3 | 1.1 | 1.1 | 0.8 | 0.5 | 2.0 | 4.6 | 0.4 |
| 3           | 0.8 | 0.9 | 1.0 | 0.9 | 0.6 | 1.4 | 1.1 | 0.7 | 1.1 | 1.3 | 1.7 | 2.7 | 3.8 | 4.4 | 3.9 | 4.1 | 4.7 | 5.0 | 4.2 | 2.7 | 1.7 | 1.6 | 1.5 | 1.5 | 2.2 | 5.0 | 0.6 |
| 4           | 0.6 | 1.2 | 1.1 | 0.7 | 0.6 | 0.7 | 0.4 | 0.7 | 1.1 | 1.4 | 1.7 | 2.2 | 3.2 | 3.8 | 4.4 | 4.6 | 4.9 | 5.2 | 5.3 | 2.4 | 0.3 | 1.0 | 1.3 | 2.1 | 2.1 | 5.3 | 0.3 |
| 5           | 0.9 | 0.6 | 0.4 | 1.2 | 0.8 | 0.9 | 0.5 | 0.9 | 0.8 | 1.2 | 2.3 | 3.2 | 3.8 | 4.1 | 3.9 | 4.2 | 4.5 | 5.1 | 4.9 | 2.8 | 0.6 | 0.7 | 1.5 | 1.5 | 2.1 | 5.1 | 0.4 |
| 6           | 0.9 | 0.4 | 1.0 | 1.3 | 0.6 | 0.5 | 0.1 | 0.7 | 1.2 | 1.9 | 2.3 | 2.7 | 2.9 | 3.3 | 3.4 | 3.6 | 4.3 | 4.0 | 3.8 | 2.1 | 0.6 | 0.8 | 0.9 | 0.6 | 1.8 | 4.3 | 0.1 |
| 7           | 0.7 | 0.8 | 0.8 | 1.3 | 1.5 | 1.3 | 0.4 | 0.7 | 0.7 | 1.7 | 1.6 | 1.9 | 3.3 | 3.6 | 5.6 | 4.9 | 5.2 | 4.8 | 4.4 | 3.1 | 1.2 | 1.3 | 2.0 | 2.5 | 2.3 | 5.6 | 0.4 |
| 8           | 5.0 | 4.2 | 5.3 | 2.4 | 3.0 | 4.3 | 2.6 | 2.6 | 2.0 | 3.1 | 3.2 | 4.3 | 4.0 | 5.0 | 5.6 | 5.9 | 4.9 | 5.1 | 4.8 | 3.1 | 1.7 | 1.7 | 1.8 | 1.0 | 3.6 | 5.9 | 1.0 |
| 9           | 0.6 | 0.6 | 0.5 | 0.7 | 0.2 | 0.4 | 0.6 | 0.8 | 1.6 | 1.7 | 2.5 | 3.4 | 3.5 | 3.7 | 5.2 | 5.4 | 4.7 | 4.1 | 3.2 | 2.7 | 1.2 | 1.6 | 0.4 | 1.1 | 2.1 | 5.4 | 0.2 |
| 10          | 0.6 | 0.7 | 0.8 | 0.5 | 1.6 | 1.0 | 0.5 | 1.2 | 1.6 | 2.8 | 4.0 | 4.9 | 5.6 | 5.9 | 5.0 | 5.5 | 5.4 | 5.4 | 5.3 | 4.0 | 4.2 | 3.2 | 1.2 | 1.5 | 3.0 | 5.9 | 0.5 |
| 11          | 3.0 | 2.2 | 1.4 | 1.6 | 1.0 | 1.3 | 1.9 | 2.4 | 4.1 | 4.3 | 4.9 | 5.4 | 4.5 | 5.3 | 5.2 | 5.9 | 6.5 | 6.2 | 6.3 | 6.0 | 2.6 | 2.0 | 2.2 | 2.3 | 3.7 | 6.5 | 1.0 |
| 12          | 1.0 | 1.6 | 1.0 | 1.5 | 0.8 | 1.1 | 1.0 | 1.1 | 2.3 | 3.5 | 4.2 | 5.3 | 5.2 | 4.6 | 4.2 | 5.5 | 4.7 | 4.8 | 4.8 | 4.1 | 2.8 | 0.8 | 1.3 | 0.6 | 2.8 | 5.5 | 0.6 |
| 13          | 0.9 | 0.6 | 0.5 | 2.1 | 1.2 | 1.1 | 0.6 | 0.5 | 0.8 | 1.8 | 2.3 | 2.2 | 2.6 | 2.5 | 3.3 | 3.6 | 3.8 | 3.9 | 3.5 | 2.1 | 0.6 | 0.6 | 0.6 | 0.5 | 1.8 | 3.9 | 0.5 |
| 14          | 0.7 | 1.1 | 0.8 | 2.0 | 0.9 | 2.6 | 2.8 | 1.9 | 0.9 | 1.3 | 1.9 | 2.3 | 3.0 | 2.9 | 3.9 | 4.0 | 3.6 | 4.0 | 3.9 | 1.7 | 0.5 | 0.4 | 0.4 | 1.0 | 2.0 | 4.0 | 0.4 |
| 15          | 0.4 | 0.7 | 0.5 | 1.3 | 0.8 | 1.9 | 2.4 | 0.6 | 0.8 | 1.6 | 2.3 | 2.6 | 3.4 | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | 1.5 | 3.4 | 0.4 |
| 16          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 17          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 18          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 19          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 20          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 21          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 22          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 23          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 24          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 25          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 26          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 27          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 28          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 29          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 30          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| Avg         | 1.2 | 1.1 | 1.1 | 1.2 | 1.1 | 1.4 | 1.2 | 1.2 | 1.5 | 2.2 | 2.8 | 3.3 | 3.8 | 4.0 | 4.5 | 4.8 | 4.7 | 4.7 | 4.4 | 3.1 | 1.4 | 1.2 | 1.2 | 1.3 | 2.4 | --  | --  |
| Max         | 5.0 | 4.2 | 5.3 | 2.4 | 3.0 | 4.3 | 2.9 | 2.6 | 4.1 | 4.3 | 4.9 | 5.4 | 5.6 | 5.9 | 5.6 | 5.9 | 6.5 | 6.2 | 6.3 | 6.0 | 4.2 | 3.2 | 2.2 | 2.5 | --  | 6.5 | --  |
| Min         | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.4 | 0.1 | 0.5 | 0.7 | 1.2 | 1.6 | 1.9 | 2.6 | 2.5 | 3.3 | 3.6 | 3.6 | 3.9 | 3.2 | 1.7 | 0.3 | 0.4 | 0.4 | 0.5 | --  | --  | 0.1 |

-- Indicates Invalid Data

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Apr 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 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 703 | 703 | 703 | 701 | 703 | 699 |
| 2   | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 701 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 702 | 703 | 700 |
| 3   | 701 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 700 | 700 | 699 | 698 | 698 | 697 | 696 | 696 | 696 | 696 | 697 | 698 | 698 | 699 | 699 | 701 | 696 |
| 4   | 699 | 700 | 700 | 700 | 701 | 701 | 702 | 703 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 704 | 704 | 704 | 702 | 704 | 699 |
| 5   | 704 | 705 | 705 | 705 | 705 | 705 | 705 | 706 | 706 | 706 | 706 | 705 | 705 | 704 | 703 | 703 | 703 | 702 | 702 | 703 | 703 | 703 | 703 | 703 | 704 | 706 | 702 |
| 6   | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 704 | 703 | 704 | 703 | 703 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 703 | 703 | 703 | 703 | 703 | 701 |
| 7   | 703 | 703 | 703 | 703 | 703 | 704 | 704 | 705 | 705 | 705 | 705 | 704 | 704 | 703 | 703 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 702 |
| 8   | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 700 | 699 | 699 | 699 | 699 | 698 | 698 | 699 | 699 | 699 | 700 | 701 | 702 | 698 |
| 9   | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 702 | 702 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 703 | 703 | 703 | 702 | 703 | 700 |
| 10  | 703 | 704 | 703 | 703 | 703 | 703 | 703 | 704 | 704 | 704 | 704 | 704 | 703 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 704 | 702 |
| 11  | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 703 | 701 |
| 12  | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 702 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 703 | 701 |
| 13  | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 701 | 702 | 699 |
| 14  | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 698 | 699 | 699 | 700 | 700 | 701 | 700 | 701 | 698 |
| 15  | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 703 | 703 | 702 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 703 | 701 |
| 16  | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 703 | 703 | 702 | 703 | 701 |
| 17  | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 704 | 704 | 704 | 704 | 704 | 703 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 704 | 702 |
| 18  | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 704 | 704 | 704 | 704 | 703 | 703 | 703 | 703 | 702 | 702 | 702 | 701 | 702 | 702 | 703 | 703 | 703 | 703 | 704 | 701 |
| 19  | 703 | 703 | 703 | 703 | 703 | 703 | 704 | 704 | 704 | 704 | 704 | 704 | 703 | 703 | 702 | 702 | 701 | 701 | 701 | 701 | 702 | 703 | 703 | 703 | 703 | 704 | 702 |
| 20  | 703 | 703 | 702 | 702 | 702 | 703 | 703 | 703 | 704 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 |
| 21  | 702 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 701 | 701 | 702 | 699 |
| 22  | 701 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 702 | 699 |
| 23  | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 698 | 697 | 697 | 697 | 696 | 697 | 697 | 697 | 697 | 698 | 699 | 701 | 696 |
| 24  | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 698 | 697 | 697 | 696 | 696 | 696 | 695 | 695 | 696 | 696 | 696 | 696 | 697 | 699 | 695 |
| 25  | 696 | 696 | 695 | 695 | 695 | 695 | 696 | 696 | 697 | 697 | 697 | 697 | 697 | 697 | 696 | 696 | 695 | 695 | 696 | 696 | 697 | 697 | 698 | 698 | 696 | 698 | 695 |
| 26  | 699 | 698 | 698 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 698 | 698 | 697 | 697 | 699 | 700 | 697 |
| 27  | 697 | 697 | 697 | 697 | 697 | 696 | 697 | 697 | 697 | 697 | 697 | 697 | 696 | 695 | 695 | 694 | 694 | 694 | 694 | 694 | 695 | 695 | 695 | 695 | 696 | 697 | 694 |
| 28  | 695 | 695 | 695 | 695 | 695 | 695 | 695 | 696 | 696 | 696 | 696 | 695 | 695 | 695 | 694 | 694 | 693 | 693 | 694 | 695 | 696 | 697 | 697 | 698 | 695 | 698 | 693 |
| 29  | 698 | 698 | 698 | 699 | 699 | 700 | 700 | 701 | 701 | 702 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 703 | 704 | 704 | 701 | 704 | 698 |
| 30  | 704 | 704 | 704 | 704 | 704 | 704 | 705 | 705 | 705 | 705 | 705 | 705 | 704 | 704 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 705 | 702 |
| Avg | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | --  | --  |
| Max | 704 | 705 | 705 | 705 | 705 | 705 | 705 | 706 | 706 | 706 | 706 | 705 | 705 | 704 | 703 | 703 | 703 | 702 | 702 | 703 | 703 | 704 | 704 | 704 | --  | 706 | --  |
| Min | 695 | 695 | 695 | 695 | 695 | 695 | 695 | 696 | 696 | 696 | 696 | 695 | 695 | 695 | 694 | 694 | 693 | 693 | 694 | 694 | 695 | 695 | 695 | 695 | --  | --  | 693 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: May 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           | 703 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 703 | 700 |
| 2           | 701 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 701 | 699 |
| 3           | 700 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 701 | 701 | 702 | 702 | 702 | 701 | 702 | 700 |
| 4           | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 700 | 701 | 703 | 700 |
| 5           | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 698 | 697 | 696 | 696 | 696 | 696 | 696 | 697 | 697 | 697 | 697 | 698 | 698 | 696 |
| 6           | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 698 | 698 | 697 | 696 | 695 | 694 | 694 | 694 | 695 | 696 | 697 | 697 | 698 | 698 | 697 | 699 | 694 |
| 7           | 699 | 699 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 699 | 700 | 698 |
| 8           | 700 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 698 | 698 | 697 | 697 | 696 | 697 | 697 | 697 | 698 | 699 | 700 | 700 | 701 | 699 | 701 | 696 |
| 9           | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 703 | 703 | 701 | 703 | 700 |
| 10          | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 703 | 704 | 704 | 704 | 704 | 704 | 704 | 705 | 705 | 704 | 705 | 703 |
| 11          | 705 | 705 | 705 | 705 | 705 | 705 | 706 | 706 | 706 | 705 | 705 | 705 | 704 | 704 | 703 | 703 | 703 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 704 | 706 | 702 |
| 12          | 703 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 700 | 703 | 698 |
| 13          | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 698 | 698 | 697 | 697 | 696 | 696 | 696 | 697 | 697 | 698 | 698 | 699 | 698 | 699 | 696 |
| 14          | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 698 | 699 | 699 | 699 | 699 | 700 | 697 |
| 15          | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 698 | 699 | 697 |
| 16          | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 700 | 701 | 699 |
| 17          | 701 | 701 | 701 | 701 | 700 | 700 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 698 | 698 | 697 | 696 | 696 | 695 | 696 | 696 | 697 | 697 | 698 | 699 | 701 | 695 |
| 18          | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 700 | 700 | 699 | 699 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 698 | 700 | 698 |
| 19          | 699 | 699 | 699 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 700 | 699 | 699 | 699 | 700 | 700 | 701 | 701 | 701 | 700 | 701 | 699 |
| 20          | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 698 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 698 |
| 21          | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 699 | 699 | 700 | 700 | 701 | 701 | 701 | 701 | 702 | 699 |
| 22          | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 699 |
| 23          | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 699 |
| 24          | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 699 | 699 | 699 | 698 | 697 | 697 | 696 | 695 | 695 | 695 | 695 | 695 | 696 | 696 | 696 | 698 | 700 | 695 |
| 25          | 696 | 696 | 696 | 696 | 696 | 696 | 697 | 697 | 697 | 697 | 698 | 697 | 697 | 697 | 696 | 696 | 696 | 696 | 696 | 697 | 697 | 698 | 699 | 699 | 697 | 699 | 696 |
| 26          | 699 | 699 | 699 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 699 | 699 | 699 | 700 | 700 | 701 | 701 | 702 | 700 | 702 | 699 |
| 27          | 702 | 702 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 703 | 703 | 703 | 702 | 702 | 702 | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 703 | 701 |
| 28          | 702 | 702 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 702 | 700 |
| 29          | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 700 | 700 | 700 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 701 | 698 |
| 30          | 699 | 699 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 698 | 699 | 699 | 700 | 700 | 701 | 701 | 700 | 700 | 701 | 698 |
| 31          | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 697 | 698 | 699 | 699 | 700 | 699 | 700 | 697 |
| Avg         | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 698 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | --  | --  |
| Max         | 705 | 705 | 705 | 705 | 705 | 705 | 706 | 706 | 706 | 705 | 705 | 705 | 704 | 704 | 704 | 703 | 704 | 704 | 704 | 704 | 704 | 705 | 705 | 705 | --  | 706 | --  |
| Min         | 696 | 696 | 696 | 696 | 696 | 696 | 697 | 697 | 697 | 697 | 698 | 697 | 697 | 696 | 695 | 694 | 694 | 694 | 694 | 695 | 695 | 695 | 696 | 696 | --  | --  | 694 |



**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Jun 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   | 700 | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 699 | 699 | 699 | 699 | 698 | 698 | 698 | 697 | 697 | 697 | 698 | 698 | 699 | 699 | 700 | 699 | 700 | 697 |
| 2   | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 698 |
| 3   | 699 | 699 | 699 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 698 |
| 4   | 699 | 699 | 699 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 698 |
| 5   | 699 | 698 | 698 | 699 | 699 | 700 | 700 | 700 | 701 | 700 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 700 | 699 | 698 |
| 6   | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 700 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 699 |
| 7   | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 700 | 700 | 700 | 701 | 701 | 702 | 701 | 702 | 699 |
| 8   | 702 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 703 | 703 | 703 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 701 | 703 |
| 9   | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 698 | 698 | 699 | 699 | 701 | 697 |
| 10  | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 699 | 698 | 697 | 697 | 696 | 696 | 696 | 697 | 698 | 698 | 698 | 698 | 698 | 696 |
| 11  | 698 | 699 | 698 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 697 | 698 | 698 | 699 | 699 | 700 | 700 | 699 | 700 | 697 |
| 12  | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 701 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 699 |
| 13  | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 702 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 699 |
| 14  | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 701 | 699 |
| 15  | 701 | 700 | 700 | 700 | 700 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 702 | 700 |
| 16  | 701 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 702 | 702 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 702 | 699 |
| 17  | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 698 | 699 | 698 |
| 18  | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 699 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 697 | 697 | 697 | 697 | 698 | 698 | 698 | 698 | 697 |
| 19  | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 700 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 697 | 698 | 698 | 699 | 699 | 699 | 698 | 697 |
| 20  | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 697 | 698 | 698 | 698 | 698 | 698 | 699 | 700 |
| 21  | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 698 | 698 | 698 | 697 | 696 | 696 | 695 | 695 | 695 | 696 | 696 | 696 | 697 | 697 | 697 | 699 | 695 |
| 22  | 697 | 697 | 697 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 697 | 697 | 697 | 697 | 698 | 698 | 699 | 698 | 699 |
| 23  | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 699 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 699 | 698 |
| 24  | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 700 | 699 | 699 | 699 | 698 | 698 | 697 | 697 | 697 | 698 | 698 | 699 | 699 | 699 | 699 | 699 | 697 |
| 25  | 700 | 700 | 700 | 701 | 701 | 702 | 702 | 702 | 703 | 703 | 702 | 702 | 702 | 701 | 701 | 700 | 699 | 699 | 699 | 700 | 700 | 701 | 701 | 701 | 701 | 703 | 699 |
| 26  | 702 | 702 | 702 | 703 | 703 | 703 | 704 | 704 | 704 | 703 | 703 | 703 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 700 | 700 | 700 | 700 | 700 | 700 | 702 | 704 |
| 27  | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 702 | 702 | 702 | 701 | 701 | 701 | 700 | 700 | 699 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 700 | 698 |
| 28  | 699 | 700 | 699 | 699 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 701 | 698 |
| 29  | 699 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 701 | 701 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 700 | 700 | 700 | 702 | 699 |
| 30  | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 702 | 702 | 701 | 701 | 700 | 700 | 699 | 699 | 699 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 700 | 702 | 698 |
| Avg | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 701 | 701 | 701 | 700 | 700 | 700 | 699 | 699 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 699 | 700 | --  | --  |
| Max | 702 | 702 | 702 | 703 | 703 | 703 | 704 | 704 | 704 | 703 | 703 | 703 | 702 | 701 | 701 | 700 | 700 | 700 | 700 | 700 | 700 | 701 | 701 | 702 | --  | 704 | --  |
| Min | 697 | 697 | 697 | 698 | 698 | 698 | 698 | 699 | 699 | 699 | 698 | 698 | 698 | 697 | 696 | 696 | 695 | 695 | 695 | 696 | 696 | 696 | 697 | 697 | --  | --  | 695 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, DeltaT"**  
**Month: Apr 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   | 1.59 | 1.39 | 1.62 | 1.69 | 2.24 | 1.55 | 0.63 | -0.12 | -0.49 | -0.86 | -1.03 | -0.87 | -0.82 | -0.94 | -1.21 | -0.86 | -0.81 | -0.36 | 0.54 | 1.23 | 1.92 | 1.14 | 0.88 | 2.56 | 0.44 | 2.56 | -1.21 |
| 2   | 1.81 | 2.26 | 2.22 | 2.10 | 1.49 | 2.37 | 1.52 | -0.24 | -0.51 | -0.98 | -1.43 | -1.55 | -1.61 | -1.79 | -1.62 | -1.30 | -0.94 | -0.36 | 0.90 | 3.42 | 1.84 | 2.18 | 3.07 | 1.93 | 0.62 | 3.42 | -1.79 |
| 3   | 2.54 | 2.51 | 2.23 | 2.18 | 1.84 | 2.22 | 1.56 | -0.28 | -0.49 | -0.72 | -1.09 | -1.26 | -1.40 | -1.49 | -1.23 | -1.06 | -0.73 | -0.14 | 0.42 | 0.72 | 0.65 | 0.24 | 0.86 | 1.09 | 0.38 | 2.54 | -1.49 |
| 4   | 1.58 | 2.99 | 1.90 | 1.67 | 1.55 | 1.41 | 1.02 | -0.27 | -0.47 | -0.95 | -1.26 | -1.51 | -1.68 | -1.45 | -1.33 | -0.87 | -0.56 | -0.28 | 1.00 | 3.37 | 1.58 | 2.84 | 1.94 | 2.84 | 0.63 | 3.37 | -1.68 |
| 5   | 1.83 | 1.78 | 3.06 | 0.94 | 0.79 | 0.25 | 0.23 | -0.12 | -0.32 | -0.54 | -0.77 | -1.01 | -1.12 | -1.10 | -1.08 | -0.88 | -0.66 | -0.30 | 2.17 | 3.60 | 2.79 | 3.41 | 3.14 | 3.57 | 0.82 | 3.60 | -1.12 |
| 6   | 2.72 | 3.01 | 3.12 | 2.19 | 1.65 | 1.56 | 0.92 | -0.20 | -0.47 | -0.64 | -0.86 | -1.07 | -1.00 | -0.91 | -0.98 | -0.96 | -0.78 | -0.07 | 1.32 | 3.86 | 2.91 | 3.33 | 2.94 | 3.00 | 1.02 | 3.86 | -1.07 |
| 7   | 2.60 | 2.99 | 3.13 | 2.74 | 1.72 | 1.99 | 2.17 | -0.01 | -0.44 | -0.53 | -0.76 | -0.99 | -1.00 | -0.83 | -0.71 | -0.53 | -0.01 | 0.63  | 3.63 | 2.70 | 3.53 | 2.46 | 2.89 | 3.14 | 1.27 | 3.63 | -1.00 |
| 8   | 3.49 | 3.40 | 3.47 | 2.69 | 2.75 | 2.28 | 1.94 | 0.22  | -0.44 | -0.37 | -0.70 | -0.88 | -1.13 | -1.39 | -1.15 | -0.69 | -0.79 | -0.10 | 1.06 | 1.63 | 1.30 | 2.18 | 2.16 | 2.24 | 0.97 | 3.49 | -1.39 |
| 9   | 3.96 | 2.22 | 1.14 | 1.19 | 1.37 | 1.62 | 1.52 | -0.29 | -0.50 | -0.92 | -1.11 | -1.11 | -1.37 | -1.43 | -1.02 | -0.72 | -0.56 | -0.01 | 1.01 | 3.48 | 2.14 | 2.03 | 2.66 | 2.97 | 0.76 | 3.96 | -1.43 |
| 10  | 2.33 | 2.84 | 2.09 | 3.00 | 1.85 | 3.38 | 2.16 | -0.27 | -0.49 | -0.82 | -0.95 | -1.05 | -1.20 | -1.14 | -1.39 | -1.29 | -0.88 | -0.20 | 1.63 | 4.52 | 2.08 | 3.20 | 3.55 | 3.61 | 1.11 | 4.52 | -1.39 |
| 11  | 3.39 | 2.42 | 2.43 | 3.46 | 2.82 | 3.31 | 3.36 | -0.08 | -0.42 | -0.58 | -0.59 | -0.87 | -0.81 | -1.04 | -1.27 | -1.17 | -0.71 | 0.28  | 1.35 | 4.99 | 3.02 | 1.58 | 1.60 | 2.03 | 1.19 | 4.99 | -1.27 |
| 12  | 2.87 | 3.19 | 2.76 | 3.29 | 3.29 | 3.61 | 2.47 | -0.13 | -0.22 | -0.62 | -0.82 | -1.13 | -1.31 | -1.27 | -1.13 | -1.10 | -0.74 | -0.12 | 1.49 | 4.28 | 2.42 | 3.10 | 3.98 | 3.28 | 1.31 | 4.28 | -1.31 |
| 13  | 2.68 | 2.63 | 3.87 | 3.20 | 3.58 | 3.34 | 2.47 | 0.32  | -0.67 | -0.70 | -0.77 | -0.84 | -0.95 | -1.11 | -0.86 | -0.46 | -0.42 | -0.08 | 1.23 | 3.90 | 4.15 | 1.56 | 1.33 | 2.03 | 1.23 | 4.15 | -1.11 |
| 14  | 3.30 | 3.36 | 3.31 | 3.64 | 3.48 | 3.18 | 1.50 | -0.44 | -0.55 | -0.80 | -1.17 | -1.17 | -1.35 | -1.45 | -1.37 | -1.23 | -0.80 | -0.18 | 1.07 | 4.20 | 4.39 | 2.92 | 1.99 | 3.30 | 1.21 | 4.39 | -1.45 |
| 15  | 3.66 | 3.21 | 2.84 | 3.60 | 3.26 | 3.35 | 2.48 | -0.38 | -0.71 | -0.63 | -0.98 | -1.27 | -1.41 | -1.44 | -1.36 | -1.19 | -0.89 | -0.21 | 1.33 | 5.10 | 3.49 | 3.39 | 2.53 | 3.16 | 1.29 | 5.10 | -1.44 |
| 16  | 2.78 | 2.38 | 2.71 | 2.84 | 2.93 | 3.21 | 2.67 | -0.38 | -0.66 | -0.70 | -0.69 | -1.11 | -1.00 | -1.16 | -1.24 | -1.11 | -0.63 | 0.15  | 1.62 | 4.44 | 4.31 | 3.29 | 2.86 | 3.19 | 1.28 | 4.44 | -1.24 |
| 17  | 3.32 | 3.79 | 3.20 | 2.83 | 3.27 | 2.81 | 2.03 | -0.23 | -0.50 | -0.75 | -0.86 | -1.13 | -1.32 | -1.29 | -1.32 | -1.16 | -0.56 | 0.09  | 1.08 | 4.87 | 2.12 | 2.01 | 3.73 | 3.35 | 1.22 | 4.87 | -1.32 |
| 18  | 2.80 | 3.20 | 3.07 | 3.45 | 4.04 | 3.29 | 2.09 | -0.36 | -0.64 | -0.73 | -1.05 | -1.35 | -1.44 | -1.41 | -1.40 | -1.18 | -0.86 | -0.24 | 0.68 | 1.69 | 3.29 | 2.24 | 1.42 | 2.12 | 0.95 | 4.04 | -1.44 |
| 19  | 1.69 | 2.48 | 3.17 | 2.11 | 2.04 | 2.19 | 1.68 | -0.37 | -0.35 | -0.92 | -1.10 | -1.37 | -1.40 | -1.37 | -1.49 | -1.27 | -0.91 | -0.36 | 0.88 | 3.96 | 2.87 | 2.31 | 3.36 | 2.74 | 0.86 | 3.96 | -1.49 |
| 20  | 2.84 | 3.20 | 3.96 | 3.40 | 3.44 | 2.78 | 1.23 | -0.61 | -0.63 | -0.79 | -1.12 | -1.24 | -1.59 | -1.43 | -1.58 | -1.29 | -0.89 | -0.33 | 0.58 | 3.13 | 4.91 | 1.64 | 3.39 | 2.76 | 1.07 | 4.91 | -1.59 |
| 21  | 2.90 | 4.08 | 3.69 | 2.76 | 2.52 | 3.51 | 2.02 | -0.34 | -0.52 | -0.76 | -1.21 | -1.38 | -1.27 | -1.36 | -1.38 | -1.23 | -0.84 | -0.23 | 0.92 | 4.23 | 2.34 | 1.62 | 2.70 | 1.56 | 1.01 | 4.23 | -1.38 |
| 22  | 2.87 | 4.35 | 4.07 | 3.75 | 3.47 | 1.86 | 1.43 | -0.30 | -0.71 | -0.74 | -0.78 | -1.17 | -1.20 | -1.21 | -1.06 | -1.06 | -0.64 | -0.13 | 1.96 | 4.93 | 2.52 | 4.27 | 3.97 | 3.38 | 1.41 | 4.93 | -1.21 |
| 23  | 2.83 | 3.83 | 3.01 | 3.14 | 3.04 | 2.86 | 1.18 | -0.15 | -0.48 | -0.79 | -1.16 | -1.14 | -1.05 | -1.17 | -1.22 | -0.95 | -0.20 | 0.48  | 1.30 | 4.53 | 5.13 | 1.85 | 2.40 | 3.56 | 1.28 | 5.13 | -1.22 |
| 24  | 2.87 | 3.43 | 3.36 | 3.20 | 2.63 | 2.86 | 2.13 | 0.00  | -0.29 | -0.65 | -0.95 | -1.33 | -1.11 | -1.11 | -0.81 | -0.27 | -0.01 | 0.15  | 0.51 | 1.56 | 4.54 | 2.23 | 1.05 | 1.17 | 1.05 | 4.54 | -1.33 |
| 25  | 0.75 | 0.73 | 0.84 | 1.33 | 1.34 | 0.88 | 0.39 | -0.24 | -0.81 | -1.20 | -1.18 | -1.58 | -1.85 | -1.81 | -1.57 | -1.55 | -1.02 | -0.32 | 0.27 | 0.56 | 0.58 | 0.71 | 2.23 | 3.87 | 0.06 | 3.87 | -1.85 |
| 26  | 2.10 | 2.43 | 2.10 | 1.60 | 1.01 | 2.52 | 1.44 | -0.34 | -0.70 | -1.05 | -1.15 | -1.37 | -1.48 | -1.65 | -1.65 | -1.35 | -0.85 | 0.14  | 0.84 | 2.77 | 4.61 | 2.94 | 2.78 | 2.68 | 0.77 | 4.61 | -1.65 |
| 27  | 2.93 | 2.36 | 2.79 | 3.29 | 3.01 | 3.28 | 2.14 | 0.51  | -0.33 | -0.87 | -1.17 | -1.34 | -1.63 | -1.65 | -1.20 | -0.56 | -0.07 | 0.09  | 0.43 | 1.51 | 1.59 | 1.15 | 1.83 | 2.05 | 0.84 | 3.29 | -1.65 |
| 28  | 2.33 | 1.71 | 1.10 | 1.18 | 1.41 | 2.51 | 1.83 | 0.36  | -0.12 | -0.33 | -0.31 | -0.33 | -0.72 | -1.37 | -1.42 | -1.27 | -0.82 | -0.34 | 0.11 | 0.46 | 0.62 | 0.84 | 0.98 | 0.85 | 0.39 | 2.51 | -1.42 |
| 29  | 1.93 | 1.78 | 1.85 | 1.46 | 1.56 | 2.16 | 1.25 | -0.41 | -0.80 | -1.21 | -1.48 | -1.75 | -1.96 | -1.80 | -1.30 | -1.23 | -0.47 | -0.42 | 0.07 | 1.82 | 4.00 | 1.50 | 3.18 | 3.68 | 0.56 | 4.00 | -1.96 |
| 30  | 3.93 | 3.15 | 2.73 | 2.03 | 2.44 | 1.64 | 0.32 | -0.52 | -0.79 | -0.85 | -1.34 | -1.35 | -1.81 | -1.64 | -1.78 | -1.47 | -1.21 | -0.65 | 0.37 | 3.37 | 2.45 | 3.03 | 3.36 | 2.96 | 0.77 | 3.93 | -1.81 |
| Avg | 2.64 | 2.77 | 2.69 | 2.53 | 2.39 | 2.46 | 1.66 | -0.19 | -0.52 | -0.77 | -0.99 | -1.18 | -1.30 | -1.34 | -1.27 | -1.04 | -0.67 | -0.11 | 1.06 | 3.16 | 2.80 | 2.24 | 2.49 | 2.69 | 0.93 | --   | --    |
| Max | 3.96 | 4.35 | 4.07 | 3.75 | 4.04 | 3.61 | 3.36 | 0.51  | -0.12 | -0.33 | -0.31 | -0.33 | -0.72 | -0.83 | -0.71 | -0.27 | -0.01 | 0.63  | 3.63 | 5.10 | 5.13 | 4.27 | 3.98 | 3.87 | --   | 5.13 | --    |
| Min | 0.75 | 0.73 | 0.84 | 0.94 | 0.79 | 0.25 | 0.23 | -0.61 | -0.81 | -1.21 | -1.48 | -1.75 | -1.96 | -1.81 | -1.78 | -1.55 | -1.21 | -0.65 | 0.07 | 0.46 | 0.58 | 0.24 | 0.86 | 0.85 | --   | --   | -1.96 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, DeltaT"**  
**Month: May 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           | 2.62 | 3.16 | 3.26 | 2.43 | 3.27 | 2.78 | 1.02  | -0.67 | -0.64 | -0.73 | -1.27 | -1.38 | -1.53 | -1.66 | -1.60 | -1.39 | -1.04 | -0.48 | 0.54  | 4.26 | 3.20 | 3.08 | 3.90 | 3.66 | 1.03  | 4.26 | -1.66 |
| 2           | 3.35 | 3.74 | 2.77 | 3.06 | 3.83 | 3.28 | 0.89  | -0.22 | -0.20 | -0.77 | -1.12 | -1.50 | -1.66 | -1.57 | -1.48 | -1.35 | -0.92 | -0.35 | 0.68  | 3.78 | 2.94 | 3.02 | 4.04 | 4.19 | 1.18  | 4.19 | -1.66 |
| 3           | 3.81 | 3.28 | 3.41 | 3.33 | 3.36 | 3.40 | 1.16  | -0.36 | -0.55 | -0.73 | -0.97 | -1.13 | -1.28 | -1.48 | -1.40 | -1.16 | -0.80 | -0.23 | 0.42  | 1.20 | 2.62 | 2.96 | 3.34 | 2.43 | 1.03  | 3.81 | -1.48 |
| 4           | 2.23 | 1.00 | 0.81 | 2.23 | 3.00 | 2.70 | 0.60  | -0.17 | -0.45 | -0.61 | -0.83 | -1.01 | -1.05 | -1.25 | -1.01 | -1.13 | -0.81 | -0.19 | 1.10  | 4.40 | 3.79 | 4.05 | 2.75 | 3.53 | 0.99  | 4.40 | -1.25 |
| 5           | 2.69 | 3.05 | 3.06 | 4.16 | 3.40 | 1.72 | 0.53  | -0.17 | -0.41 | -0.59 | -0.86 | -1.24 | -1.22 | -1.27 | -1.21 | -1.11 | -0.87 | 0.38  | 0.71  | 0.62 | 1.66 | 1.40 | 1.95 | 2.51 | 0.79  | 4.16 | -1.27 |
| 6           | 1.00 | 0.86 | 2.76 | 3.16 | 2.85 | 3.37 | 1.80  | -0.25 | -0.57 | -0.66 | -0.99 | -1.16 | -1.50 | -1.34 | -1.25 | -0.97 | -0.66 | -0.25 | 0.14  | 0.29 | 0.44 | 0.84 | 2.52 | 2.55 | 0.54  | 3.37 | -1.50 |
| 7           | 1.10 | 2.10 | 2.79 | 2.51 | 3.39 | 2.73 | 0.77  | -0.54 | -0.83 | -1.47 | -1.92 | -1.78 | -1.63 | -1.58 | -1.75 | -1.95 | -1.28 | -0.52 | 0.15  | 0.80 | 1.94 | 2.77 | 1.26 | 1.57 | 0.36  | 3.39 | -1.95 |
| 8           | 1.48 | 1.10 | 0.63 | 1.62 | 1.15 | 1.68 | 0.50  | -0.10 | -0.93 | -1.32 | -1.62 | -1.85 | -1.55 | -1.63 | -1.51 | -0.95 | 0.44  | -0.02 | 0.15  | 0.66 | 0.62 | 0.09 | 0.18 | 0.07 | -0.05 | 1.68 | -1.85 |
| 9           | 0.25 | 0.24 | 0.33 | 0.21 | 0.51 | 0.45 | 0.14  | -0.24 | -0.10 | -0.35 | -0.91 | -0.98 | -1.58 | -1.50 | -1.73 | -1.30 | -0.98 | -0.46 | -0.05 | 0.50 | 1.60 | 1.72 | 1.14 | 0.71 | -0.10 | 1.72 | -1.73 |
| 10          | 0.22 | 0.69 | 1.40 | 1.33 | 1.26 | 1.22 | 0.57  | -0.41 | -1.03 | -1.32 | -1.64 | -1.51 | -1.40 | -1.38 | -1.61 | -0.85 | -0.79 | -0.79 | -0.05 | 1.37 | 2.86 | 1.15 | 1.96 | 2.60 | 0.16  | 2.86 | -1.64 |
| 11          | 1.67 | 1.94 | 1.64 | 1.96 | 1.83 | 1.53 | 0.09  | -0.73 | -0.58 | -1.15 | -1.36 | -1.62 | -1.88 | -1.87 | -1.78 | -1.66 | -1.34 | -0.77 | 0.05  | 1.30 | 2.90 | 2.14 | 2.38 | 1.69 | 0.27  | 2.90 | -1.88 |
| 12          | 2.47 | 2.08 | 1.34 | 2.66 | 1.65 | 2.02 | 0.48  | -0.65 | -0.73 | -0.95 | -1.26 | -1.37 | -1.34 | -1.58 | -1.59 | -1.47 | -0.98 | -0.09 | 0.61  | 3.81 | 3.52 | 3.36 | 3.73 | 3.55 | 0.80  | 3.81 | -1.59 |
| 13          | 3.33 | 2.83 | 2.83 | 2.95 | 1.91 | 3.11 | 1.30  | -0.35 | -0.64 | -0.95 | -1.36 | -1.51 | -1.64 | -1.63 | -1.67 | -1.43 | -1.02 | -0.48 | 0.22  | 0.71 | 0.77 | 2.84 | 2.42 | 2.89 | 0.64  | 3.33 | -1.67 |
| 14          | 4.30 | 4.12 | 2.92 | 3.43 | 3.49 | 3.50 | 1.38  | -0.50 | -0.38 | -0.87 | -0.64 | -0.99 | -1.13 | -0.91 | -1.02 | -0.78 | -0.47 | -0.34 | 0.20  | 0.70 | 0.86 | 1.13 | 2.08 | 1.14 | 0.89  | 4.30 | -1.13 |
| 15          | 0.95 | 1.94 | 1.56 | 2.10 | 2.89 | 1.70 | 0.26  | -0.35 | -0.68 | -1.03 | -1.24 | -1.55 | -1.81 | -1.81 | -1.64 | -1.52 | -1.18 | -0.71 | -0.15 | 0.61 | 0.82 | 0.83 | 1.81 | 1.48 | 0.14  | 2.89 | -1.81 |
| 16          | 1.71 | 1.40 | 0.73 | 1.35 | 2.63 | 1.86 | 1.10  | -0.67 | -0.92 | -0.99 | -1.89 | -1.87 | -2.08 | -1.83 | -1.63 | -1.52 | -1.50 | -0.96 | -0.10 | 1.14 | 3.43 | 1.61 | 2.40 | 2.87 | 0.26  | 3.43 | -2.08 |
| 17          | 2.96 | 2.87 | 2.61 | 2.61 | 1.92 | 1.92 | -0.20 | -0.85 | -0.97 | -1.38 | -1.59 | -1.67 | -1.96 | -2.07 | -2.00 | -1.74 | -1.35 | -0.85 | -0.10 | 0.76 | 0.58 | 0.53 | 0.64 | 0.59 | 0.05  | 2.96 | -2.07 |
| 18          | 0.69 | 1.63 | 2.48 | 1.79 | 2.25 | 2.08 | -0.01 | -0.21 | -0.85 | -1.37 | -1.57 | -1.80 | -2.00 | -1.94 | -1.86 | -1.72 | -1.27 | -0.78 | -0.04 | 1.15 | 1.73 | 1.34 | 1.69 | 1.64 | 0.13  | 2.48 | -2.00 |
| 19          | 2.80 | 1.94 | 1.52 | 1.22 | 0.98 | 1.37 | -0.08 | -0.42 | -0.72 | -1.03 | -1.35 | -1.43 | -1.48 | -1.67 | -1.65 | -1.74 | -1.45 | -0.96 | -0.17 | 0.88 | 1.93 | 2.70 | 2.56 | 3.66 | 0.31  | 3.66 | -1.74 |
| 20          | 2.20 | 1.67 | 3.38 | 1.45 | 1.05 | 1.65 | 0.94  | -0.39 | -0.62 | -0.89 | -1.16 | -1.31 | -1.54 | -1.51 | -1.55 | -1.58 | -1.22 | -0.78 | 0.01  | 1.66 | 3.38 | 2.93 | 3.78 | 2.55 | 0.59  | 3.78 | -1.58 |
| 21          | 1.34 | 2.30 | 1.63 | 1.76 | 1.41 | 1.75 | 0.78  | -0.29 | -0.57 | -0.78 | -1.27 | -1.43 | -1.69 | -1.72 | -1.68 | -1.56 | -1.33 | -0.71 | 0.26  | 2.67 | 3.87 | 2.32 | 3.75 | 3.56 | 0.60  | 3.87 | -1.72 |
| 22          | 3.02 | 3.12 | 3.77 | 3.94 | 2.95 | 2.86 | 0.15  | -0.56 | -0.71 | -0.94 | -1.35 | -1.59 | -1.70 | -1.67 | -1.79 | -1.47 | -1.18 | -0.57 | 0.29  | 1.83 | 4.90 | 3.03 | 4.17 | 3.39 | 1.00  | 4.90 | -1.79 |
| 23          | 2.93 | 3.05 | 1.39 | 1.36 | 1.66 | 3.21 | 1.07  | -0.54 | -0.70 | -0.93 | -1.14 | -1.51 | -1.82 | -1.67 | -1.73 | -1.58 | -1.21 | -0.52 | 0.45  | 2.28 | 4.23 | 2.80 | 3.89 | 3.64 | 0.78  | 4.23 | -1.82 |
| 24          | 3.19 | 2.48 | 2.95 | 3.06 | 3.40 | 3.38 | 1.68  | -0.20 | -0.73 | -0.94 | -1.34 | -1.39 | -1.79 | -1.73 | -1.74 | -1.51 | -1.08 | -0.23 | 0.24  | 0.71 | 0.83 | 1.07 | 1.40 | 1.10 | 0.53  | 3.40 | -1.79 |
| 25          | 2.26 | 5.03 | 3.38 | 2.45 | 4.31 | 2.57 | 1.16  | 0.47  | -0.29 | -0.90 | -1.20 | -1.48 | -1.59 | -1.81 | -1.34 | -1.18 | -0.91 | -0.33 | 0.20  | 0.55 | 0.79 | 1.02 | 1.04 | 1.08 | 0.64  | 5.03 | -1.81 |
| 26          | 4.11 | 3.72 | 3.48 | 3.46 | 3.31 | 2.87 | 0.09  | -0.66 | -0.81 | -1.10 | -1.42 | -1.79 | -1.65 | -1.85 | -1.80 | -1.62 | -1.26 | -0.68 | 0.06  | 0.72 | 0.84 | 0.85 | 1.47 | 1.66 | 0.50  | 4.11 | -1.85 |
| 27          | 3.24 | 3.44 | 3.40 | 3.11 | 2.29 | 2.34 | -0.11 | -0.69 | -0.89 | -1.23 | -1.29 | -1.49 | -1.78 | -1.82 | -1.85 | -1.55 | -1.27 | -0.78 | 0.14  | 2.52 | 3.67 | 2.72 | 3.60 | 2.58 | 0.76  | 3.67 | -1.85 |
| 28          | 3.40 | 3.27 | 3.01 | 2.76 | 3.52 | 3.15 | 0.80  | -0.03 | -0.27 | -0.96 | -1.35 | -1.63 | -1.70 | -1.81 | -1.77 | -1.51 | -1.25 | -0.61 | 0.51  | 3.34 | 3.74 | 3.61 | 4.17 | 3.58 | 1.08  | 4.17 | -1.81 |
| 29          | 3.38 | 3.18 | 3.41 | 2.06 | 3.82 | 3.43 | 0.81  | -0.70 | -0.93 | -1.17 | -1.57 | -1.50 | -1.56 | -1.59 | -1.35 | -1.11 | -0.43 | -0.29 | 0.81  | 3.43 | 3.87 | 2.57 | 2.74 | 3.37 | 1.03  | 3.87 | -1.59 |
| 30          | 3.33 | 4.11 | 3.28 | 2.75 | 2.49 | 1.28 | 1.35  | -0.27 | -0.64 | -1.24 | -1.34 | -1.20 | -1.33 | -1.80 | -1.49 | -1.40 | -1.32 | -0.76 | 0.42  | 0.01 | 0.00 | 0.24 | 0.25 | 0.32 | 0.29  | 4.11 | -1.80 |
| 31          | 0.78 | 1.41 | 1.24 | 1.00 | 0.87 | 0.72 | 0.26  | -0.44 | -0.77 | -1.34 | -1.54 | -1.75 | -1.74 | -1.76 | -1.87 | -1.53 | -0.69 | -0.58 | 0.49  | 0.99 | 0.75 | 0.41 | 0.79 | 2.01 | -0.10 | 2.01 | -1.87 |
| Avg         | 2.35 | 2.47 | 2.36 | 2.36 | 2.47 | 2.31 | 0.69  | -0.39 | -0.65 | -0.99 | -1.30 | -1.47 | -1.60 | -1.64 | -1.59 | -1.40 | -1.01 | -0.51 | 0.26  | 1.60 | 2.23 | 1.97 | 2.38 | 2.33 | 0.55  | --   | --    |
| Max         | 4.30 | 5.03 | 3.77 | 4.16 | 4.31 | 3.50 | 1.80  | 0.47  | -0.10 | -0.35 | -0.64 | -0.98 | -1.05 | -0.91 | -1.01 | -0.78 | 0.44  | 0.38  | 1.10  | 4.40 | 4.90 | 4.05 | 4.17 | 4.19 | --    | 5.03 | --    |
| Min         | 0.22 | 0.24 | 0.33 | 0.21 | 0.51 | 0.45 | -0.20 | -0.85 | -1.03 | -1.47 | -1.92 | -1.87 | -2.08 | -2.07 | -2.00 | -1.95 | -1.50 | -0.96 | -0.17 | 0.01 | 0.00 | 0.09 | 0.18 | 0.07 | --    | --   | -2.08 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, DeltaT"**  
**Month: Jun 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   | 1.64 | 1.32 | 1.94 | 2.55 | 1.99 | 2.44 | 1.38  | 0.16  | -0.34 | -1.18 | -1.58 | -1.70 | -1.93 | -1.67 | -1.82 | -1.57 | -1.33 | -0.74 | 0.02  | 0.95 | 4.08 | 3.90 | 1.90 | 2.43 | 0.54  | 4.08 | -1.93 |
| 2   | 4.84 | 2.49 | 0.91 | 2.11 | 3.69 | 2.76 | 0.13  | -0.61 | -0.57 | -1.13 | -1.46 | -1.56 | -1.75 | -1.74 | -1.78 | -1.57 | -1.25 | -0.69 | 0.10  | 1.33 | 4.06 | 1.96 | 2.95 | 3.12 | 0.68  | 4.84 | -1.78 |
| 3   | 2.39 | 2.70 | 3.34 | 3.13 | 3.59 | 2.60 | 1.08  | -0.07 | -0.30 | -0.83 | -1.30 | -1.54 | -1.76 | -1.76 | -1.70 | -1.56 | -1.10 | -0.62 | 0.31  | 2.08 | 4.00 | 2.20 | 2.83 | 2.78 | 0.86  | 4.00 | -1.76 |
| 4   | 1.91 | 1.74 | 2.02 | 2.64 | 3.18 | 3.54 | 1.10  | -0.35 | -0.92 | -0.93 | -1.32 | -1.56 | -1.69 | -1.85 | -1.67 | -1.57 | -1.25 | -0.65 | 0.12  | 1.63 | 5.17 | 2.54 | 2.47 | 2.86 | 0.72  | 5.17 | -1.85 |
| 5   | 3.12 | 2.95 | 2.92 | 2.73 | 3.74 | 3.48 | 0.72  | -0.33 | -0.37 | -0.92 | -1.37 | -1.60 | -1.63 | -1.71 | -1.83 | -1.50 | -1.10 | -0.60 | 0.14  | 1.36 | 2.95 | 3.75 | 2.38 | 3.22 | 0.85  | 3.75 | -1.83 |
| 6   | 2.69 | 3.60 | 1.96 | 2.82 | 3.61 | 3.07 | 0.69  | -0.54 | -0.28 | -0.91 | -1.22 | -1.61 | -1.72 | -1.87 | -1.62 | -1.48 | -1.19 | -0.62 | 0.35  | 2.34 | 4.57 | 5.37 | 2.22 | 1.45 | 0.90  | 5.37 | -1.87 |
| 7   | 1.94 | 1.13 | 2.03 | 3.00 | 2.68 | 2.49 | 0.17  | -0.33 | -0.29 | -0.96 | -1.27 | -1.48 | -1.35 | -1.91 | -1.72 | -1.58 | -1.24 | -0.55 | 0.26  | 1.03 | 2.22 | 4.01 | 3.43 | 2.64 | 0.60  | 4.01 | -1.91 |
| 8   | 3.44 | 3.16 | 2.98 | 3.57 | 4.16 | 3.57 | 1.28  | 0.57  | -0.34 | -0.59 | -1.39 | -1.44 | -1.65 | -1.56 | -1.58 | -1.40 | -1.15 | -0.52 | 0.03  | 1.18 | 4.19 | 2.35 | 2.79 | 1.68 | 0.97  | 4.19 | -1.65 |
| 9   | 2.42 | 3.09 | 3.27 | 2.99 | 3.05 | 2.86 | 0.50  | -0.70 | -0.31 | -1.00 | -1.32 | -1.59 | -1.60 | -1.71 | -1.71 | -1.53 | -1.23 | -0.68 | 0.17  | 1.52 | 2.28 | 4.23 | 3.93 | 4.95 | 0.91  | 4.95 | -1.71 |
| 10  | 3.49 | 2.02 | 2.38 | 3.35 | 2.93 | 2.43 | 1.18  | -0.46 | -0.91 | -1.00 | -1.33 | -1.60 | -1.73 | -1.87 | -1.61 | -1.25 | -0.96 | -0.75 | 0.06  | 1.05 | 1.23 | 1.63 | 1.84 | 1.66 | 0.49  | 3.49 | -1.87 |
| 11  | 0.86 | 0.87 | 1.46 | 2.08 | 1.82 | 1.93 | -0.05 | -0.54 | -0.75 | -1.02 | -1.51 | -1.72 | -1.83 | -1.73 | -1.78 | -1.50 | -1.26 | -0.75 | -0.25 | 0.39 | 0.86 | 1.02 | 0.66 | 0.90 | -0.08 | 2.08 | -1.83 |
| 12  | 2.97 | 3.28 | 3.21 | 2.76 | 1.86 | 2.31 | 0.17  | -0.46 | -0.81 | -1.20 | -1.50 | -1.67 | -1.99 | -2.01 | -1.85 | -1.69 | -1.45 | -0.99 | -0.31 | 0.53 | 1.60 | 2.02 | 3.37 | 2.30 | 0.44  | 3.37 | -2.01 |
| 13  | 2.39 | 3.27 | 3.41 | 3.57 | 3.64 | 2.84 | 0.14  | -0.72 | -0.85 | -0.86 | -1.23 | -1.37 | -1.64 | -1.74 | -1.78 | -1.68 | -1.39 | -0.92 | 0.02  | 2.92 | 3.68 | 2.39 | 3.56 | 3.05 | 0.86  | 3.68 | -1.78 |
| 14  | 3.35 | 2.55 | 2.85 | 3.80 | 3.61 | 2.82 | 0.68  | -0.78 | -0.24 | -0.93 | -1.37 | -1.57 | -1.67 | -1.65 | -1.56 | -1.55 | -1.28 | -0.72 | 0.14  | 3.51 | 3.90 | 3.36 | 4.11 | 4.72 | 1.09  | 4.72 | -1.67 |
| 15  | 3.44 | 3.27 | 3.77 | 3.13 | 2.41 | 4.16 | 0.65  | -0.70 | 0.06  | -0.80 | -1.28 | -1.59 | -1.68 | -1.80 | -1.86 | -1.54 | -1.37 | -0.74 | 0.46  | 4.30 | 4.23 | 4.43 | 3.78 | 3.36 | 1.17  | 4.43 | -1.86 |
| 16  | 3.16 | 2.69 | 3.82 | 3.92 | 3.71 | 3.43 | 1.40  | -0.35 | -0.09 | -0.73 | -1.34 | -1.58 | -1.87 | -1.93 | -1.78 | -1.51 | -1.39 | -0.74 | 0.31  | 3.91 | 3.53 | 2.90 | 3.42 | 3.81 | 1.11  | 3.92 | -1.93 |
| 17  | 2.99 | 3.38 | 4.05 | 4.28 | 2.95 | 3.02 | 0.58  | -0.61 | -0.13 | -0.88 | -1.36 | -1.51 | -1.82 | -1.93 | -1.74 | -1.67 | -1.30 | -0.66 | 0.26  | 2.83 | 4.26 | 3.50 | 3.26 | 4.01 | 1.07  | 4.28 | -1.93 |
| 18  | 3.93 | 4.16 | 3.93 | 2.99 | 3.35 | 2.84 | 1.22  | -0.52 | 0.00  | -0.75 | -1.27 | -1.46 | -1.65 | -1.69 | -1.68 | -1.64 | -1.29 | -0.65 | 0.33  | 3.12 | 3.51 | 3.73 | 3.87 | 3.77 | 1.17  | 4.16 | -1.69 |
| 19  | 3.46 | 2.96 | 3.18 | 3.23 | 3.39 | 3.28 | 1.71  | -0.56 | -0.33 | -0.40 | -1.07 | -1.54 | -1.79 | -1.93 | -1.86 | -1.65 | -1.31 | -0.78 | 0.02  | 1.45 | 4.07 | 4.70 | 2.96 | 2.98 | 1.01  | 4.70 | -1.93 |
| 20  | 2.35 | 2.27 | 3.15 | 2.89 | 3.95 | 2.95 | 1.15  | -0.29 | -0.73 | -1.26 | -1.38 | -1.41 | -1.62 | -1.57 | -1.75 | -1.79 | -1.38 | -0.88 | -0.17 | 1.03 | 4.43 | 4.09 | 2.91 | 3.51 | 0.85  | 4.43 | -1.79 |
| 21  | 2.84 | 1.69 | 3.28 | 3.71 | 2.37 | 3.09 | 1.47  | -0.46 | -0.44 | -0.75 | -1.30 | -1.60 | -1.88 | -1.88 | -1.80 | -1.46 | -1.14 | -0.63 | 0.19  | 1.58 | 2.40 | 3.54 | 3.50 | 3.42 | 0.82  | 3.71 | -1.88 |
| 22  | 3.11 | 3.38 | 3.56 | 2.83 | 3.02 | 2.77 | 1.51  | -0.44 | -0.80 | -1.08 | -1.35 | -1.58 | -1.86 | -1.89 | -1.89 | -1.60 | -1.32 | -0.61 | -0.04 | 0.78 | 2.68 | 5.01 | 4.18 | 3.98 | 0.93  | 5.01 | -1.89 |
| 23  | 2.05 | 1.22 | 1.93 | 1.74 | 2.59 | 2.28 | 0.66  | -0.63 | -0.70 | -1.10 | -1.57 | -1.78 | -1.87 | -1.94 | -1.90 | -1.79 | -1.31 | -0.74 | 0.08  | 1.10 | 3.38 | 2.66 | 3.36 | 3.44 | 0.47  | 3.44 | -1.94 |
| 24  | 3.38 | 3.10 | 3.02 | 2.88 | 3.07 | 2.90 | 1.82  | -0.39 | -0.77 | -1.08 | -1.20 | -1.45 | -1.67 | -1.84 | -1.79 | -1.57 | -1.19 | -0.65 | 0.23  | 2.30 | 5.16 | 2.81 | 2.14 | 3.07 | 0.93  | 5.16 | -1.84 |
| 25  | 1.09 | 0.21 | 0.30 | 0.23 | 0.35 | 0.48 | 0.09  | -0.29 | -0.93 | -1.14 | -1.24 | -1.51 | -1.41 | -1.61 | -1.75 | -1.66 | -1.31 | -0.71 | 0.08  | 0.41 | 0.19 | 0.24 | 0.55 | 1.33 | -0.33 | 1.33 | -1.75 |
| 26  | 1.16 | 0.75 | 1.01 | 0.42 | 0.60 | 0.51 | -0.06 | -0.51 | -0.94 | -1.10 | -1.35 | -1.41 | -1.64 | -1.86 | -1.85 | -1.68 | -1.42 | -0.79 | -0.05 | 1.26 | 3.84 | 2.00 | 3.10 | 3.47 | 0.15  | 3.84 | -1.86 |
| 27  | 3.36 | 2.99 | 3.46 | 2.86 | 3.32 | 3.15 | 1.16  | 0.01  | -0.45 | -0.82 | -1.14 | -1.68 | -1.71 | -1.87 | -1.77 | -1.53 | -1.22 | -0.82 | -0.02 | 1.19 | 3.63 | 1.82 | 3.54 | 3.85 | 0.89  | 3.85 | -1.87 |
| 28  | 3.30 | 1.89 | 3.02 | 3.18 | 3.32 | 2.33 | 1.40  | -0.21 | -0.71 | -1.16 | -1.45 | -1.64 | -1.77 | -1.90 | -1.71 | -1.52 | -1.22 | -0.79 | 0.11  | 1.73 | 4.10 | 3.21 | 1.95 | 1.35 | 0.70  | 4.10 | -1.90 |
| 29  | 2.15 | 3.37 | 3.19 | 3.96 | 3.06 | 2.55 | 0.40  | -0.67 | -0.96 | -1.00 | -1.42 | -1.64 | -1.81 | -1.72 | -1.84 | -1.68 | -1.33 | -0.70 | 0.08  | 2.60 | 3.86 | 3.73 | 3.35 | 2.37 | 0.83  | 3.96 | -1.84 |
| 30  | 2.26 | 3.92 | 3.76 | 3.02 | 3.78 | 3.40 | 0.50  | -0.55 | -0.65 | -0.92 | -1.29 | -1.59 | -1.70 | -1.86 | -1.75 | -1.59 | -1.32 | -0.91 | 0.16  | 2.92 | 3.90 | 3.40 | 4.61 | 4.95 | 1.10  | 4.95 | -1.86 |
| Avg | 2.72 | 2.51 | 2.77 | 2.88 | 2.96 | 2.74 | 0.83  | -0.41 | -0.53 | -0.95 | -1.34 | -1.57 | -1.72 | -1.80 | -1.76 | -1.58 | -1.27 | -0.72 | 0.11  | 1.81 | 3.40 | 3.08 | 2.96 | 3.01 | 0.76  | --   | --    |
| Max | 4.84 | 4.16 | 4.05 | 4.28 | 4.16 | 4.16 | 1.82  | 0.57  | 0.06  | -0.40 | -1.07 | -1.37 | -1.35 | -1.56 | -1.56 | -1.25 | -0.96 | -0.52 | 0.46  | 4.30 | 5.17 | 5.37 | 4.61 | 4.95 | --    | 5.37 | --    |
| Min | 0.86 | 0.21 | 0.30 | 0.23 | 0.35 | 0.48 | -0.06 | -0.78 | -0.96 | -1.26 | -1.58 | -1.78 | -1.99 | -2.01 | -1.90 | -1.79 | -1.45 | -0.99 | -0.31 | 0.39 | 0.19 | 0.24 | 0.55 | 0.90 | --    | --   | -2.01 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, RH\_percent"**  
**Month: Apr 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           | 63 | 64 | 71 | 73 | 76 | 75 | 65 | 44 | 30 | 26 | 24 | 24 | 24 | 24 | 23 | 24 | 23 | 22 | 23 | 31 | 39 | 45 | 51 | 63 | 43  | 76  | 22  |
| 2           | 57 | 68 | 74 | 79 | 78 | 82 | 76 | 55 | 38 | 32 | 30 | 27 | 23 | 22 | 21 | 20 | 20 | 21 | 24 | 34 | 43 | 50 | 58 | 58 | 45  | 82  | 20  |
| 3           | 63 | 67 | 67 | 74 | 74 | 77 | 74 | 49 | 34 | 25 | 22 | 20 | 18 | 16 | 16 | 16 | 17 | 15 | 15 | 18 | 22 | 27 | 42 | 68 | 39  | 77  | 15  |
| 4           | 85 | 71 | 81 | 85 | 83 | 83 | 80 | 57 | 37 | 28 | 23 | 18 | 17 | 15 | 12 | 15 | 15 | 16 | 19 | 28 | 34 | 45 | 47 | 54 | 44  | 85  | 12  |
| 5           | 51 | 48 | 40 | 19 | 19 | 17 | 16 | 15 | 14 | 13 | 13 | 12 | 11 | 12 | 11 | 10 | 9  | 9  | 22 | 35 | 37 | 46 | 48 | 48 | 24  | 51  | 9   |
| 6           | 48 | 50 | 52 | 45 | 42 | 42 | 39 | 29 | 16 | 12 | 12 | 11 | 10 | 9  | 9  | 9  | 9  | 10 | 13 | 21 | 31 | 38 | 38 | 40 | 26  | 52  | 9   |
| 7           | 42 | 47 | 52 | 56 | 52 | 53 | 57 | 36 | 25 | 16 | 14 | 13 | 12 | 11 | 11 | 12 | 12 | 14 | 29 | 34 | 43 | 38 | 45 | 47 | 32  | 57  | 11  |
| 8           | 52 | 55 | 61 | 60 | 64 | 65 | 61 | 51 | 33 | 18 | 13 | 12 | 10 | 9  | 10 | 11 | 10 | 8  | 8  | 15 | 24 | 31 | 36 | 32 | 31  | 65  | 8   |
| 9           | 42 | 45 | 45 | 49 | 54 | 58 | 55 | 40 | 30 | 26 | 21 | 19 | 18 | 15 | 13 | 14 | 15 | 14 | 17 | 26 | 33 | 36 | 43 | 49 | 32  | 58  | 13  |
| 10          | 49 | 56 | 55 | 60 | 55 | 61 | 61 | 36 | 21 | 15 | 14 | 15 | 10 | 11 | 10 | 9  | 7  | 7  | 11 | 21 | 26 | 31 | 35 | 40 | 30  | 61  | 7   |
| 11          | 39 | 38 | 41 | 46 | 46 | 51 | 50 | 25 | 17 | 12 | 12 | 9  | 9  | 7  | 7  | 7  | 7  | 9  | 11 | 20 | 27 | 26 | 27 | 30 | 24  | 51  | 7   |
| 12          | 35 | 42 | 44 | 45 | 48 | 55 | 49 | 32 | 22 | 13 | 11 | 10 | 10 | 9  | 9  | 9  | 9  | 10 | 13 | 22 | 27 | 31 | 37 | 38 | 26  | 55  | 9   |
| 13          | 38 | 40 | 48 | 48 | 53 | 55 | 55 | 37 | 22 | 14 | 12 | 11 | 10 | 9  | 10 | 11 | 11 | 12 | 14 | 21 | 25 | 31 | 33 | 37 | 27  | 55  | 9   |
| 14          | 43 | 50 | 52 | 56 | 59 | 59 | 53 | 37 | 23 | 20 | 19 | 17 | 14 | 12 | 12 | 12 | 12 | 12 | 14 | 25 | 26 | 33 | 36 | 47 | 31  | 59  | 12  |
| 15          | 55 | 56 | 57 | 62 | 60 | 63 | 61 | 35 | 21 | 16 | 15 | 14 | 13 | 11 | 11 | 10 | 9  | 10 | 15 | 25 | 33 | 35 | 36 | 41 | 32  | 63  | 9   |
| 16          | 41 | 41 | 46 | 50 | 53 | 60 | 54 | 32 | 20 | 13 | 10 | 9  | 8  | 8  | 7  | 7  | 8  | 10 | 12 | 24 | 32 | 32 | 33 | 34 | 27  | 60  | 7   |
| 17          | 36 | 40 | 41 | 43 | 48 | 51 | 45 | 29 | 18 | 15 | 14 | 12 | 11 | 10 | 9  | 9  | 11 | 11 | 11 | 19 | 22 | 25 | 35 | 34 | 25  | 51  | 9   |
| 18          | 36 | 40 | 42 | 48 | 53 | 54 | 53 | 31 | 21 | 16 | 16 | 17 | 16 | 16 | 14 | 14 | 13 | 13 | 13 | 14 | 21 | 29 | 29 | 35 | 27  | 54  | 13  |
| 19          | 39 | 46 | 54 | 57 | 56 | 60 | 56 | 38 | 29 | 25 | 22 | 19 | 17 | 15 | 15 | 14 | 14 | 16 | 15 | 23 | 31 | 32 | 41 | 38 | 32  | 60  | 14  |
| 20          | 41 | 47 | 55 | 54 | 58 | 57 | 48 | 30 | 21 | 14 | 14 | 12 | 11 | 11 | 10 | 10 | 10 | 11 | 12 | 15 | 24 | 22 | 29 | 30 | 27  | 58  | 10  |
| 21          | 34 | 40 | 41 | 40 | 43 | 44 | 37 | 22 | 13 | 12 | 11 | 9  | 9  | 8  | 7  | 7  | 8  | 8  | 8  | 15 | 20 | 20 | 26 | 25 | 21  | 44  | 7   |
| 22          | 31 | 38 | 42 | 45 | 50 | 46 | 45 | 27 | 15 | 11 | 10 | 10 | 9  | 8  | 8  | 8  | 8  | 9  | 11 | 19 | 22 | 29 | 33 | 33 | 24  | 50  | 8   |
| 23          | 31 | 36 | 35 | 39 | 36 | 33 | 30 | 23 | 18 | 16 | 15 | 13 | 12 | 10 | 9  | 7  | 8  | 9  | 10 | 15 | 20 | 12 | 15 | 21 | 20  | 39  | 7   |
| 24          | 29 | 34 | 40 | 44 | 45 | 50 | 44 | 25 | 16 | 12 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 13 | 14 | 20 | 17 | 14 | 16 | 22  | 50  | 11  |
| 25          | 16 | 17 | 20 | 24 | 26 | 32 | 37 | 39 | 40 | 38 | 36 | 33 | 29 | 27 | 25 | 23 | 21 | 19 | 18 | 14 | 10 | 12 | 17 | 26 | 25  | 40  | 10  |
| 26          | 29 | 34 | 35 | 35 | 31 | 38 | 34 | 21 | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 11 | 11 | 12 | 13 | 16 | 27 | 28 | 28 | 33 | 22  | 38  | 9   |
| 27          | 40 | 37 | 43 | 50 | 53 | 60 | 56 | 44 | 24 | 20 | 20 | 20 | 20 | 20 | 19 | 21 | 21 | 21 | 21 | 24 | 24 | 23 | 32 | 38 | 31  | 60  | 19  |
| 28          | 41 | 37 | 35 | 37 | 40 | 47 | 49 | 41 | 39 | 37 | 39 | 43 | 43 | 38 | 27 | 16 | 11 | 11 | 6  | 5  | 6  | 9  | 12 | 16 | 29  | 49  | 5   |
| 29          | 24 | 29 | 35 | 39 | 43 | 43 | 36 | 18 | 16 | 15 | 14 | 13 | 14 | 12 | 13 | 13 | 14 | 13 | 13 | 17 | 27 | 27 | 34 | 41 | 23  | 43  | 12  |
| 30          | 45 | 45 | 45 | 41 | 41 | 37 | 29 | 19 | 13 | 12 | 12 | 11 | 11 | 9  | 9  | 9  | 9  | 9  | 10 | 16 | 20 | 28 | 32 | 30 | 23  | 45  | 9   |
| Avg         | 42 | 45 | 48 | 50 | 51 | 54 | 50 | 34 | 23 | 19 | 17 | 16 | 15 | 14 | 13 | 12 | 12 | 12 | 14 | 21 | 27 | 30 | 34 | 38 | 29  | --  | --  |
| Max         | 85 | 71 | 81 | 85 | 83 | 83 | 80 | 57 | 40 | 38 | 39 | 43 | 43 | 38 | 27 | 24 | 23 | 22 | 29 | 35 | 43 | 50 | 58 | 68 | --  | 85  | --  |
| Min         | 16 | 17 | 20 | 19 | 19 | 17 | 16 | 15 | 13 | 11 | 10 | 9  | 8  | 7  | 7  | 7  | 7  | 7  | 6  | 5  | 6  | 9  | 12 | 16 | --  | --  | 5   |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, RH\_percent"**  
**Month: May 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 | 35 | 37 | 35 | 44 | 46 | 37 | 20 | 12 | 10 | 10 | 9  | 8  | 8  | 8  | 8  | 8  | 8  | 9  | 15 | 22 | 22 | 29 | 29 | 21  | 46  | 8   |
| 2           | 29 | 32 | 33 | 37 | 42 | 43 | 32 | 22 | 15 | 12 | 11 | 10 | 10 | 9  | 9  | 9  | 10 | 10 | 11 | 16 | 22 | 25 | 34 | 35 | 22  | 43  | 9   |
| 3           | 36 | 38 | 42 | 44 | 47 | 51 | 37 | 23 | 14 | 11 | 11 | 11 | 11 | 11 | 10 | 9  | 9  | 9  | 10 | 11 | 16 | 23 | 30 | 28 | 23  | 51  | 9   |
| 4           | 28 | 26 | 25 | 28 | 31 | 29 | 20 | 13 | 7  | 7  | 7  | 6  | 5  | 5  | 5  | 6  | 6  | 7  | 9  | 16 | 22 | 24 | 23 | 26 | 16  | 31  | 5   |
| 5           | 24 | 26 | 30 | 33 | 30 | 22 | 21 | 17 | 13 | 12 | 10 | 9  | 8  | 8  | 8  | 7  | 8  | 8  | 8  | 10 | 11 | 11 | 14 | 18 | 15  | 33  | 7   |
| 6           | 12 | 13 | 19 | 28 | 31 | 35 | 34 | 22 | 16 | 16 | 15 | 13 | 11 | 9  | 9  | 8  | 10 | 10 | 14 | 25 | 29 | 32 | 40 | 40 | 21  | 40  | 8   |
| 7           | 38 | 40 | 49 | 52 | 60 | 65 | 55 | 47 | 48 | 48 | 45 | 42 | 40 | 37 | 33 | 31 | 30 | 33 | 36 | 39 | 42 | 49 | 51 | 51 | 44  | 65  | 30  |
| 8           | 52 | 54 | 51 | 56 | 53 | 56 | 47 | 34 | 29 | 27 | 25 | 23 | 24 | 23 | 22 | 22 | 47 | 41 | 31 | 34 | 37 | 51 | 60 | 66 | 40  | 66  | 22  |
| 9           | 84 | 92 | 91 | 89 | 93 | 95 | 91 | 83 | 73 | 66 | 55 | 49 | 42 | 36 | 34 | 33 | 31 | 41 | 45 | 52 | 65 | 77 | 77 | 78 | 65  | 95  | 31  |
| 10          | 74 | 78 | 84 | 87 | 88 | 89 | 79 | 60 | 54 | 50 | 46 | 42 | 38 | 34 | 31 | 31 | 29 | 29 | 31 | 37 | 51 | 57 | 65 | 74 | 56  | 89  | 29  |
| 11          | 71 | 76 | 77 | 79 | 79 | 81 | 65 | 44 | 36 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 23 | 24 | 25 | 29 | 39 | 48 | 53 | 56 | 46  | 81  | 23  |
| 12          | 62 | 61 | 61 | 71 | 69 | 70 | 56 | 39 | 27 | 24 | 23 | 21 | 15 | 16 | 17 | 16 | 16 | 14 | 16 | 29 | 38 | 43 | 46 | 49 | 37  | 71  | 14  |
| 13          | 53 | 53 | 60 | 66 | 60 | 69 | 50 | 32 | 20 | 18 | 16 | 15 | 14 | 13 | 13 | 11 | 9  | 9  | 9  | 12 | 14 | 19 | 20 | 23 | 28  | 69  | 9   |
| 14          | 35 | 36 | 38 | 47 | 54 | 56 | 40 | 25 | 22 | 18 | 16 | 16 | 14 | 15 | 15 | 15 | 16 | 16 | 15 | 18 | 21 | 22 | 26 | 23 | 26  | 56  | 14  |
| 15          | 27 | 37 | 42 | 48 | 55 | 56 | 46 | 30 | 22 | 21 | 18 | 15 | 14 | 13 | 14 | 17 | 17 | 14 | 12 | 12 | 14 | 16 | 19 | 23 | 25  | 56  | 12  |
| 16          | 25 | 29 | 33 | 35 | 42 | 46 | 45 | 36 | 38 | 40 | 34 | 31 | 27 | 25 | 21 | 20 | 18 | 15 | 16 | 19 | 25 | 28 | 35 | 39 | 30  | 46  | 15  |
| 17          | 45 | 48 | 50 | 54 | 55 | 54 | 40 | 28 | 27 | 25 | 22 | 20 | 18 | 17 | 15 | 14 | 14 | 15 | 17 | 20 | 25 | 29 | 32 | 34 | 30  | 55  | 14  |
| 18          | 36 | 40 | 44 | 47 | 52 | 56 | 43 | 34 | 31 | 30 | 26 | 18 | 15 | 13 | 12 | 13 | 10 | 8  | 9  | 12 | 13 | 13 | 15 | 17 | 25  | 56  | 8   |
| 19          | 25 | 28 | 30 | 33 | 33 | 38 | 34 | 31 | 27 | 22 | 19 | 14 | 11 | 11 | 11 | 10 | 10 | 11 | 12 | 13 | 16 | 24 | 27 | 24 | 21  | 38  | 10  |
| 20          | 18 | 18 | 24 | 19 | 17 | 20 | 18 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 8  | 8  | 8  | 9  | 10 | 13 | 18 | 22 | 29 | 27 | 15  | 29  | 8   |
| 21          | 24 | 19 | 14 | 15 | 15 | 17 | 15 | 12 | 11 | 10 | 8  | 8  | 8  | 7  | 6  | 7  | 7  | 7  | 8  | 11 | 16 | 18 | 23 | 24 | 13  | 24  | 6   |
| 22          | 25 | 27 | 31 | 36 | 36 | 31 | 21 | 16 | 11 | 10 | 9  | 9  | 8  | 8  | 7  | 7  | 8  | 8  | 9  | 10 | 17 | 19 | 24 | 25 | 17  | 36  | 7   |
| 23          | 24 | 26 | 21 | 20 | 22 | 27 | 22 | 14 | 8  | 8  | 7  | 7  | 7  | 7  | 7  | 7  | 6  | 7  | 7  | 8  | 14 | 15 | 20 | 19 | 14  | 27  | 6   |
| 24          | 19 | 18 | 22 | 26 | 31 | 34 | 29 | 17 | 12 | 10 | 9  | 8  | 8  | 7  | 7  | 7  | 7  | 8  | 8  | 7  | 8  | 9  | 11 | 10 | 14  | 34  | 7   |
| 25          | 11 | 17 | 19 | 15 | 23 | 15 | 15 | 12 | 11 | 11 | 10 | 8  | 8  | 7  | 7  | 6  | 5  | 6  | 6  | 7  | 8  | 8  | 9  | 11 | 11  | 23  | 5   |
| 26          | 19 | 24 | 26 | 31 | 34 | 32 | 23 | 17 | 16 | 14 | 13 | 11 | 8  | 7  | 7  | 8  | 8  | 7  | 9  | 10 | 10 | 10 | 12 | 14 | 15  | 34  | 7   |
| 27          | 21 | 27 | 27 | 29 | 28 | 29 | 19 | 15 | 11 | 8  | 7  | 8  | 8  | 7  | 7  | 7  | 8  | 8  | 9  | 12 | 17 | 18 | 23 | 22 | 16  | 29  | 7   |
| 28          | 25 | 27 | 28 | 29 | 35 | 37 | 27 | 22 | 15 | 13 | 11 | 10 | 8  | 8  | 7  | 6  | 6  | 5  | 7  | 11 | 17 | 18 | 19 | 21 | 17  | 37  | 5   |
| 29          | 21 | 22 | 25 | 25 | 29 | 28 | 21 | 16 | 10 | 10 | 10 | 10 | 8  | 6  | 6  | 6  | 7  | 7  | 9  | 12 | 17 | 17 | 18 | 21 | 15  | 29  | 6   |
| 30          | 21 | 24 | 28 | 28 | 28 | 28 | 29 | 23 | 21 | 19 | 16 | 15 | 14 | 13 | 11 | 10 | 9  | 9  | 11 | 20 | 30 | 27 | 27 | 26 | 20  | 30  | 9   |
| 31          | 30 | 32 | 33 | 33 | 33 | 34 | 32 | 26 | 23 | 20 | 18 | 16 | 14 | 13 | 12 | 11 | 12 | 11 | 12 | 13 | 15 | 15 | 15 | 18 | 20  | 34  | 11  |
| Avg         | 34 | 36 | 39 | 41 | 44 | 45 | 37 | 27 | 22 | 20 | 18 | 17 | 15 | 14 | 13 | 13 | 13 | 13 | 14 | 18 | 23 | 26 | 30 | 31 | 25  | --  | --  |
| Max         | 84 | 92 | 91 | 89 | 93 | 95 | 91 | 83 | 73 | 66 | 55 | 49 | 42 | 37 | 34 | 33 | 47 | 41 | 45 | 52 | 65 | 77 | 77 | 78 | --  | 95  | --  |
| Min         | 11 | 13 | 14 | 15 | 15 | 15 | 15 | 12 | 7  | 7  | 7  | 6  | 5  | 5  | 5  | 6  | 5  | 5  | 6  | 7  | 8  | 8  | 9  | 10 | --  | --  | 5   |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, RH\_percent"**  
**Month: Jun 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 | 23 | 27 | 32 | 31 | 34 | 35 | 29 | 21 | 15 | 14 | 14 | 14 | 13 | 13 | 12 | 11 | 10 | 12 | 13 | 19 | 22 | 19 | 20 | 20  | 35  | 10  |
| 2           | 26 | 27 | 28 | 33 | 40 | 42 | 34 | 28 | 24 | 22 | 20 | 18 | 16 | 15 | 14 | 13 | 13 | 13 | 13 | 14 | 21 | 23 | 26 | 29 | 23  | 42  | 13  |
| 3           | 29 | 32 | 35 | 39 | 43 | 40 | 34 | 22 | 18 | 16 | 14 | 13 | 12 | 11 | 10 | 10 | 9  | 9  | 10 | 12 | 18 | 19 | 23 | 25 | 21  | 43  | 9   |
| 4           | 25 | 26 | 28 | 33 | 40 | 42 | 33 | 23 | 15 | 13 | 13 | 12 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 17 | 20 | 22 | 24 | 20  | 42  | 10  |
| 5           | 27 | 30 | 30 | 33 | 40 | 42 | 31 | 21 | 16 | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 10 | 11 | 12 | 14 | 17 | 22 | 24 | 27 | 20  | 42  | 10  |
| 6           | 28 | 33 | 31 | 35 | 41 | 43 | 32 | 22 | 19 | 15 | 14 | 13 | 12 | 11 | 10 | 10 | 11 | 12 | 13 | 17 | 21 | 27 | 26 | 25 | 22  | 43  | 10  |
| 7           | 30 | 29 | 32 | 36 | 40 | 37 | 30 | 22 | 18 | 14 | 12 | 11 | 11 | 10 | 11 | 11 | 11 | 12 | 12 | 13 | 15 | 21 | 24 | 26 | 20  | 40  | 10  |
| 8           | 28 | 30 | 33 | 38 | 43 | 48 | 40 | 34 | 20 | 19 | 14 | 8  | 7  | 7  | 7  | 8  | 8  | 9  | 10 | 12 | 18 | 19 | 21 | 21 | 21  | 48  | 7   |
| 9           | 23 | 27 | 28 | 31 | 31 | 35 | 26 | 18 | 15 | 13 | 12 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 13 | 14 | 22 | 23 | 21 | 18  | 35  | 10  |
| 10          | 20 | 24 | 28 | 35 | 37 | 35 | 32 | 19 | 11 | 11 | 11 | 10 | 8  | 8  | 8  | 6  | 5  | 5  | 5  | 5  | 5  | 7  | 10 | 13 | 15  | 37  | 5   |
| 11          | 14 | 18 | 24 | 30 | 33 | 37 | 32 | 24 | 14 | 12 | 10 | 9  | 8  | 8  | 7  | 8  | 9  | 11 | 15 | 16 | 14 | 15 | 19 | 19 | 17  | 37  | 7   |
| 12          | 26 | 30 | 31 | 31 | 32 | 34 | 27 | 20 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 12 | 15 | 14 | 14 | 14 | 20 | 22 | 20  | 34  | 12  |
| 13          | 25 | 29 | 30 | 32 | 36 | 33 | 23 | 14 | 9  | 8  | 7  | 6  | 5  | 5  | 5  | 5  | 5  | 5  | 6  | 8  | 11 | 11 | 16 | 15 | 15  | 36  | 5   |
| 14          | 17 | 17 | 17 | 21 | 23 | 22 | 15 | 11 | 9  | 6  | 5  | 5  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 5  | 9  | 10 | 12 | 13 | 10  | 23  | 3   |
| 15          | 12 | 13 | 16 | 15 | 15 | 22 | 14 | 9  | 7  | 5  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 6  | 11 | 12 | 11 | 12 | 9   | 22  | 3   |
| 16          | 12 | 13 | 15 | 18 | 20 | 21 | 16 | 10 | 8  | 6  | 6  | 6  | 5  | 4  | 4  | 4  | 3  | 4  | 4  | 6  | 9  | 10 | 12 | 13 | 9   | 21  | 3   |
| 17          | 13 | 17 | 21 | 21 | 22 | 24 | 19 | 14 | 11 | 9  | 7  | 7  | 6  | 6  | 5  | 5  | 5  | 5  | 6  | 8  | 13 | 15 | 15 | 19 | 12  | 24  | 5   |
| 18          | 19 | 20 | 22 | 22 | 24 | 23 | 21 | 15 | 13 | 12 | 10 | 8  | 8  | 7  | 6  | 6  | 6  | 7  | 7  | 10 | 14 | 17 | 22 | 20 | 14  | 24  | 6   |
| 19          | 22 | 21 | 21 | 22 | 22 | 24 | 25 | 14 | 10 | 9  | 7  | 7  | 6  | 6  | 6  | 6  | 6  | 6  | 7  | 8  | 14 | 18 | 19 | 21 | 14  | 25  | 6   |
| 20          | 20 | 19 | 22 | 24 | 25 | 24 | 21 | 14 | 11 | 10 | 9  | 8  | 8  | 8  | 7  | 7  | 7  | 7  | 8  | 10 | 17 | 20 | 18 | 21 | 14  | 25  | 7   |
| 21          | 22 | 20 | 20 | 24 | 22 | 26 | 25 | 16 | 12 | 11 | 11 | 11 | 10 | 8  | 8  | 7  | 7  | 7  | 7  | 9  | 11 | 15 | 20 | 23 | 15  | 26  | 7   |
| 22          | 28 | 28 | 28 | 31 | 32 | 36 | 32 | 23 | 22 | 20 | 18 | 16 | 15 | 13 | 12 | 11 | 11 | 11 | 12 | 13 | 16 | 23 | 26 | 26 | 21  | 36  | 11  |
| 23          | 30 | 34 | 40 | 43 | 48 | 50 | 42 | 31 | 27 | 24 | 21 | 19 | 18 | 16 | 15 | 15 | 15 | 14 | 13 | 14 | 18 | 23 | 26 | 29 | 26  | 50  | 13  |
| 24          | 30 | 31 | 33 | 34 | 35 | 39 | 37 | 24 | 16 | 13 | 12 | 11 | 10 | 9  | 8  | 8  | 7  | 9  | 10 | 12 | 18 | 19 | 18 | 21 | 19  | 39  | 7   |
| 25          | 18 | 21 | 22 | 24 | 26 | 26 | 26 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 12 | 10 | 10 | 9  | 11 | 11 | 15 | 16 | 17 | 19 | 18  | 26  | 9   |
| 26          | 19 | 19 | 21 | 23 | 27 | 29 | 28 | 28 | 25 | 24 | 23 | 21 | 18 | 16 | 15 | 15 | 14 | 14 | 14 | 15 | 18 | 20 | 27 | 28 | 21  | 29  | 14  |
| 27          | 31 | 33 | 33 | 36 | 40 | 41 | 34 | 25 | 20 | 15 | 10 | 9  | 7  | 6  | 5  | 5  | 6  | 6  | 7  | 8  | 10 | 12 | 17 | 20 | 18  | 41  | 5   |
| 28          | 21 | 19 | 22 | 24 | 26 | 28 | 28 | 22 | 22 | 23 | 22 | 22 | 20 | 17 | 16 | 13 | 12 | 13 | 13 | 14 | 21 | 24 | 23 | 23 | 20  | 28  | 12  |
| 29          | 26 | 32 | 30 | 32 | 33 | 33 | 27 | 19 | 16 | 17 | 15 | 14 | 11 | 10 | 10 | 9  | 9  | 9  | 11 | 15 | 22 | 23 | 25 | 24 | 20  | 33  | 9   |
| 30          | 22 | 27 | 29 | 29 | 30 | 31 | 21 | 13 | 8  | 7  | 7  | 6  | 6  | 6  | 6  | 5  | 5  | 4  | 5  | 6  | 8  | 11 | 14 | 15 | 13  | 31  | 4   |
| Avg         | 23 | 25 | 27 | 29 | 32 | 33 | 28 | 20 | 16 | 14 | 13 | 11 | 10 | 9  | 9  | 9  | 9  | 9  | 9  | 11 | 15 | 18 | 20 | 21 | 18  | --  | --  |
| Max         | 31 | 34 | 40 | 43 | 48 | 50 | 42 | 34 | 27 | 24 | 23 | 22 | 20 | 17 | 16 | 15 | 15 | 14 | 15 | 17 | 22 | 27 | 27 | 29 | --  | 50  | --  |
| Min         | 12 | 13 | 15 | 15 | 15 | 21 | 14 | 9  | 7  | 5  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 5  | 5  | 7  | 10 | 12 | --  | --  | 3   |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, SR\_wm2"**  
**Month: Apr 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      | 21.7 | 214 | 435 | 633 | 731 | 519 | 415   | 499 | 655 | 444 | 443 | 220 | 35.5 | 0      | 0       | 0  | 0       | 0        | 219 | 731   | 0   |
| 2   | 0 | 0      | 0 | 0 | 0        | 0      | 28   | 219 | 439 | 644 | 802 | 901 | 928   | 891 | 790 | 645 | 447 | 226 | 38.2 | 0      | 0       | 0  | 0       | 0        | 292 | 928   | 0   |
| 3   | 0 | 0      | 0 | 0 | 0        | 0      | 31.1 | 226 | 441 | 549 | 753 | 897 | 928   | 890 | 794 | 600 | 458 | 219 | 44.4 | 0      | 0       | 0  | 0.00375 | 0.00025  | 285 | 928   | 0   |
| 4   | 0 | 0      | 0 | 0 | 0        | 0      | 34.3 | 242 | 465 | 674 | 829 | 937 | 1,004 | 880 | 733 | 477 | 345 | 223 | 41   | 0      | 0       | 0  | 0       | 0        | 287 | 1,004 | 0   |
| 5   | 0 | 0      | 0 | 0 | 0        | 0      | 44.8 | 245 | 454 | 671 | 827 | 925 | 955   | 920 | 819 | 650 | 449 | 240 | 37.6 | 0      | 0       | 0  | 0       | 0        | 301 | 955   | 0   |
| 6   | 0 | 0      | 0 | 0 | 0        | 0      | 38.6 | 243 | 464 | 649 | 833 | 927 | 936   | 926 | 827 | 670 | 466 | 224 | 44.2 | 0      | 0       | 0  | 0       | 0        | 302 | 936   | 0   |
| 7   | 0 | 0      | 0 | 0 | 0        | 0      | 40.9 | 247 | 466 | 616 | 837 | 833 | 842   | 839 | 566 | 489 | 290 | 158 | 22.1 | 0      | 0       | 0  | 0       | 0        | 260 | 842   | 0   |
| 8   | 0 | 0      | 0 | 0 | 0        | 0      | 35.4 | 170 | 390 | 586 | 700 | 775 | 909   | 911 | 747 | 501 | 498 | 233 | 45.9 | 0      | 0       | 0  | 0       | 0        | 271 | 911   | 0   |
| 9   | 0 | 0      | 0 | 0 | 0        | 0      | 45.3 | 250 | 483 | 696 | 776 | 722 | 840   | 898 | 630 | 410 | 365 | 188 | 33.6 | 0      | 0       | 0  | 0       | 0        | 264 | 898   | 0   |
| 10  | 0 | 0      | 0 | 0 | 0        | 0      | 49.7 | 257 | 485 | 681 | 810 | 909 | 950   | 927 | 834 | 676 | 472 | 241 | 48.8 | 0      | 0       | 0  | 0       | 0        | 306 | 950   | 0   |
| 11  | 0 | 0      | 0 | 0 | 0        | 0      | 60   | 242 | 407 | 575 | 720 | 908 | 794   | 841 | 838 | 681 | 461 | 167 | 46.2 | 0      | 0       | 0  | 0       | 0        | 281 | 908   | 0   |
| 12  | 0 | 0      | 0 | 0 | 0        | 0.105  | 56.5 | 253 | 475 | 682 | 834 | 934 | 966   | 931 | 831 | 673 | 470 | 247 | 51.2 | 0      | 0       | 0  | 0       | 0        | 308 | 966   | 0   |
| 13  | 0 | 0      | 0 | 0 | 0        | 0.102  | 53   | 243 | 440 | 650 | 734 | 815 | 847   | 869 | 653 | 446 | 409 | 245 | 49.2 | 0      | 0       | 0  | 0       | 0        | 269 | 869   | 0   |
| 14  | 0 | 0      | 0 | 0 | 0        | 0.01   | 61.8 | 267 | 493 | 697 | 845 | 942 | 977   | 941 | 839 | 681 | 472 | 247 | 52.6 | 0      | 0       | 0  | 0       | 0        | 313 | 977   | 0   |
| 15  | 0 | 0      | 0 | 0 | 0        | 0.0903 | 68.1 | 282 | 506 | 707 | 855 | 952 | 984   | 953 | 855 | 695 | 491 | 259 | 54.5 | 0      | 0       | 0  | 0       | 0        | 319 | 984   | 0   |
| 16  | 0 | 0      | 0 | 0 | 0        | 0.556  | 68.3 | 276 | 493 | 708 | 772 | 917 | 915   | 944 | 834 | 698 | 438 | 202 | 42.3 | 0      | 0       | 0  | 0       | 0        | 304 | 944   | 0   |
| 17  | 0 | 0      | 0 | 0 | 0        | 0.351  | 81.6 | 261 | 506 | 717 | 763 | 930 | 980   | 885 | 858 | 688 | 419 | 202 | 69.1 | 0      | 0       | 0  | 0       | 0        | 307 | 980   | 0   |
| 18  | 0 | 0      | 0 | 0 | 0        | 0.171  | 78.7 | 290 | 509 | 706 | 850 | 945 | 975   | 940 | 843 | 683 | 487 | 264 | 62.7 | 0      | 0       | 0  | 0       | 0        | 318 | 975   | 0   |
| 19  | 0 | 0      | 0 | 0 | 0        | 0.403  | 76.9 | 286 | 509 | 710 | 852 | 948 | 978   | 942 | 842 | 685 | 485 | 261 | 63.8 | 0      | 0       | 0  | 0       | 0        | 318 | 978   | 0   |
| 20  | 0 | 0      | 0 | 0 | 0        | 0.653  | 85   | 300 | 525 | 725 | 873 | 970 | 997   | 963 | 862 | 706 | 504 | 276 | 66.5 | 0      | 0       | 0  | 0       | 0        | 327 | 997   | 0   |
| 21  | 0 | 0      | 0 | 0 | 0        | 0.639  | 91.5 | 311 | 536 | 737 | 881 | 971 | 999   | 961 | 862 | 702 | 502 | 272 | 64.6 | 0      | 0       | 0  | 0       | 0        | 329 | 999   | 0   |
| 22  | 0 | 0      | 0 | 0 | 0        | 0.566  | 92.7 | 308 | 532 | 729 | 874 | 964 | 993   | 957 | 857 | 699 | 481 | 282 | 53.8 | 0      | 0       | 0  | 0       | 0        | 326 | 993   | 0   |
| 23  | 0 | 0      | 0 | 0 | 0.00025  | 0.8    | 89.5 | 303 | 531 | 729 | 829 | 949 | 971   | 912 | 849 | 680 | 352 | 193 | 56   | 0.384  | 0.0045  | 0  | 0       | 0        | 310 | 971   | 0   |
| 24  | 0 | 0      | 0 | 0 | 0        | 1.24   | 97.4 | 312 | 533 | 735 | 864 | 945 | 792   | 736 | 637 | 367 | 265 | 180 | 68.8 | 0      | 0       | 0  | 0       | 0        | 272 | 945   | 0   |
| 25  | 0 | 0      | 0 | 0 | 0        | 2.27   | 84.8 | 303 | 523 | 680 | 668 | 862 | 972   | 879 | 785 | 680 | 475 | 235 | 58.4 | 0.147  | 0       | 0  | 0       | 0        | 300 | 972   | 0   |
| 26  | 0 | 0      | 0 | 0 | 0        | 1.9    | 93.7 | 323 | 543 | 733 | 860 | 961 | 991   | 951 | 855 | 688 | 466 | 179 | 33.7 | 0      | 0       | 0  | 0       | 0        | 320 | 991   | 0   |
| 27  | 0 | 0      | 0 | 0 | 0        | 1.73   | 51.7 | 208 | 489 | 692 | 807 | 938 | 948   | 911 | 669 | 371 | 208 | 140 | 41.3 | 0.543  | 0       | 0  | 0       | 0        | 270 | 948   | 0   |
| 28  | 0 | 0.012  | 0 | 0 | 0        | 1.31   | 86   | 103 | 229 | 295 | 257 | 254 | 448   | 856 | 848 | 708 | 512 | 276 | 77.2 | 0.327  | 0       | 0  | 0       | 0        | 206 | 856   | 0   |
| 29  | 0 | 0      | 0 | 0 | 0        | 1.59   | 118  | 340 | 566 | 756 | 896 | 984 | 1,008 | 974 | 588 | 579 | 252 | 248 | 104  | 0.214  | 0       | 0  | 0       | 0        | 309 | 1,008 | 0   |
| 30  | 0 | 0      | 0 | 0 | 0        | 2.14   | 123  | 345 | 563 | 757 | 894 | 982 | 1,012 | 975 | 878 | 719 | 526 | 301 | 87.3 | 0.15   | 0       | 0  | 0       | 0        | 340 | 1,012 | 0   |
| Avg | 0 | 0.0004 | 0 | 0 | 0.000008 | 0.554  | 66.3 | 262 | 481 | 671 | 794 | 880 | 908   | 897 | 783 | 613 | 430 | 228 | 53.1 | 0.0589 | 0.00015 | 0  | 0.00013 | 0.000008 | 294 | --    | --  |
| Max | 0 | 0.012  | 0 | 0 | 0.00025  | 2.27   | 123  | 345 | 566 | 757 | 896 | 984 | 1,012 | 975 | 878 | 719 | 526 | 301 | 104  | 0.543  | 0.0045  | 0  | 0.00375 | 0.00025  | --  | 1,012 | --  |
| Min | 0 | 0      | 0 | 0 | 0        | 0      | 21.7 | 103 | 229 | 295 | 257 | 254 | 415   | 499 | 566 | 367 | 208 | 140 | 22.1 | 0      | 0       | 0  | 0       | 0        | --  | --    | 0   |



**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, SR\_wm2"**  
**Month: May 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       | 2.25 | 124  | 342 | 560 | 751 | 892 | 980   | 1,010 | 974   | 878 | 719 | 529  | 302 | 87.7 | 0.17  | 0  | 0        | 0       | 0        | 340 | 1,010 | 0   |
| 2   | 0 | 0 | 0 | 0      | 0       | 3.03 | 123  | 337 | 556 | 747 | 882 | 968   | 999   | 966   | 836 | 705 | 514  | 289 | 85.2 | 0.315 | 0  | 0        | 0       | 0        | 334 | 999   | 0   |
| 3   | 0 | 0 | 0 | 0      | 0       | 2.74 | 123  | 336 | 557 | 747 | 875 | 961   | 986   | 953   | 860 | 704 | 520  | 300 | 89.7 | 0.479 | 0  | 0        | 0       | 0        | 334 | 986   | 0   |
| 4   | 0 | 0 | 0 | 0      | 0       | 2.17 | 127  | 343 | 564 | 752 | 883 | 968   | 997   | 960   | 858 | 702 | 522  | 304 | 93.3 | 0.449 | 0  | 0        | 0       | 0        | 337 | 997   | 0   |
| 5   | 0 | 0 | 0 | 0      | 0.0745  | 3.51 | 120  | 331 | 549 | 731 | 861 | 937   | 971   | 933   | 779 | 714 | 546  | 110 | 17.4 | 0     | 0  | 0        | 0       | 0.014    | 317 | 971   | 0   |
| 6   | 0 | 0 | 0 | 0      | 0       | 4.98 | 95.6 | 330 | 548 | 739 | 879 | 950   | 986   | 954   | 861 | 695 | 481  | 278 | 81.7 | 1.59  | 0  | 0        | 0       | 0        | 328 | 986   | 0   |
| 7   | 0 | 0 | 0 | 0      | 0       | 5.66 | 124  | 333 | 448 | 705 | 888 | 819   | 680   | 720   | 730 | 673 | 435  | 170 | 46.3 | 1.16  | 0  | 0        | 0.016   | 0        | 282 | 888   | 0   |
| 8   | 0 | 0 | 0 | 0.004  | 0       | 4.44 | 133  | 229 | 559 | 744 | 885 | 959   | 823   | 911   | 690 | 410 | 69.1 | 144 | 87   | 0.795 | 0  | 0        | 0       | 0        | 277 | 959   | 0   |
| 9   | 0 | 0 | 0 | 0      | 0       | 2.89 | 45.6 | 235 | 201 | 294 | 683 | 566   | 981   | 918   | 803 | 577 | 423  | 140 | 41.7 | 1.66  | 0  | 0.00025  | 0       | 0        | 246 | 981   | 0   |
| 10  | 0 | 0 | 0 | 0      | 0       | 3.6  | 134  | 345 | 534 | 688 | 862 | 717   | 714   | 674   | 701 | 358 | 357  | 307 | 100  | 2.17  | 0  | 0        | 0       | 0        | 271 | 862   | 0   |
| 11  | 0 | 0 | 0 | 0      | 0       | 6.12 | 140  | 348 | 559 | 745 | 887 | 966   | 998   | 961   | 862 | 705 | 521  | 302 | 98.9 | 1.73  | 0  | 0        | 0       | 0        | 337 | 998   | 0   |
| 12  | 0 | 0 | 0 | 0      | 0       | 6.74 | 141  | 352 | 560 | 748 | 887 | 906   | 989   | 956   | 856 | 696 | 471  | 236 | 98.7 | 3.11  | 0  | 0        | 0       | 0        | 329 | 989   | 0   |
| 13  | 0 | 0 | 0 | 0      | 0       | 6.14 | 149  | 361 | 578 | 767 | 907 | 987   | 1,021 | 980   | 875 | 724 | 541  | 321 | 109  | 2     | 0  | 0        | 0       | 0        | 347 | 1,021 | 0   |
| 14  | 0 | 0 | 0 | 0      | 0       | 8.06 | 157  | 362 | 489 | 623 | 536 | 757   | 769   | 626   | 659 | 460 | 394  | 283 | 111  | 3.86  | 0  | 0        | 0       | 0        | 260 | 769   | 0   |
| 15  | 0 | 0 | 0 | 0      | 0       | 7.66 | 151  | 366 | 583 | 768 | 914 | 992   | 1,020 | 976   | 834 | 713 | 523  | 322 | 127  | 5.49  | 0  | 0        | 0       | 0        | 346 | 1,020 | 0   |
| 16  | 0 | 0 | 0 | 0      | 0       | 7.5  | 123  | 363 | 408 | 486 | 929 | 862   | 963   | 808   | 671 | 608 | 556  | 331 | 113  | 1.15  | 0  | 0        | 0       | 0        | 301 | 963   | 0   |
| 17  | 0 | 0 | 0 | 0      | 0       | 8.89 | 151  | 359 | 576 | 762 | 898 | 977   | 1,009 | 972   | 873 | 725 | 538  | 321 | 113  | 3.69  | 0  | 0        | 0       | 0        | 345 | 1,009 | 0   |
| 18  | 0 | 0 | 0 | 0      | 0       | 9.51 | 146  | 355 | 577 | 763 | 905 | 993   | 1,028 | 989   | 891 | 735 | 557  | 344 | 124  | 3.87  | 0  | 0        | 0       | 0        | 351 | 1,028 | 0   |
| 19  | 0 | 0 | 0 | 0      | 0       | 8.55 | 168  | 389 | 607 | 790 | 925 | 1,007 | 1,039 | 998   | 897 | 746 | 559  | 340 | 126  | 4.37  | 0  | 0        | 0       | 0        | 358 | 1,039 | 0   |
| 20  | 0 | 0 | 0 | 0      | 0       | 8.26 | 166  | 386 | 606 | 790 | 923 | 981   | 1,013 | 981   | 885 | 740 | 552  | 341 | 128  | 4.29  | 0  | 0        | 0       | 0        | 354 | 1,013 | 0   |
| 21  | 0 | 0 | 0 | 0      | 0       | 9.41 | 160  | 373 | 594 | 746 | 883 | 979   | 1,021 | 981   | 884 | 735 | 553  | 339 | 127  | 4.19  | 0  | 0        | 0       | 0        | 349 | 1,021 | 0   |
| 22  | 0 | 0 | 0 | 0      | 0       | 10.9 | 165  | 375 | 589 | 771 | 905 | 982   | 1,016 | 984   | 886 | 734 | 549  | 324 | 113  | 5.92  | 0  | 0        | 0       | 0        | 350 | 1,016 | 0   |
| 23  | 0 | 0 | 0 | 0      | 0       | 11.1 | 166  | 378 | 597 | 782 | 917 | 994   | 1,029 | 988   | 891 | 743 | 558  | 329 | 121  | 5.76  | 0  | 0        | 0       | 0        | 354 | 1,029 | 0   |
| 24  | 0 | 0 | 0 | 0      | 0       | 12.1 | 166  | 376 | 588 | 771 | 910 | 988   | 1,018 | 985   | 876 | 728 | 531  | 284 | 131  | 3.66  | 0  | 0        | 0       | 0        | 349 | 1,018 | 0   |
| 25  | 0 | 0 | 0 | 0.0303 | 0.0135  | 9.73 | 144  | 300 | 515 | 726 | 820 | 910   | 958   | 974   | 735 | 629 | 513  | 292 | 116  | 10.6  | 0  | 0        | 0       | 0        | 319 | 974   | 0   |
| 26  | 0 | 0 | 0 | 0      | 0       | 12.8 | 173  | 383 | 599 | 792 | 927 | 1,004 | 1,038 | 1,005 | 903 | 749 | 565  | 355 | 136  | 7.31  | 0  | 0        | 0       | 0        | 360 | 1,038 | 0   |
| 27  | 0 | 0 | 0 | 0      | 0       | 13.4 | 176  | 392 | 605 | 791 | 929 | 1,006 | 1,039 | 1,005 | 906 | 755 | 572  | 355 | 139  | 7.16  | 0  | 0        | 0       | 0        | 362 | 1,039 | 0   |
| 28  | 0 | 0 | 0 | 0      | 0       | 14.3 | 168  | 377 | 590 | 774 | 913 | 991   | 1,024 | 990   | 892 | 747 | 565  | 347 | 136  | 7.23  | 0  | 0        | 0       | 0        | 356 | 1,024 | 0   |
| 29  | 0 | 0 | 0 | 0      | 0       | 15   | 164  | 373 | 582 | 767 | 898 | 962   | 954   | 937   | 794 | 600 | 395  | 297 | 83.6 | 6.8   | 0  | 0        | 0       | 0        | 326 | 962   | 0   |
| 30  | 0 | 0 | 0 | 0      | 0       | 15.5 | 154  | 324 | 426 | 703 | 812 | 743   | 753   | 932   | 726 | 668 | 575  | 375 | 140  | 6.22  | 0  | 0        | 0       | 0        | 306 | 932   | 0   |
| 31  | 0 | 0 | 0 | 0      | 0       | 3.57 | 144  | 363 | 562 | 747 | 880 | 949   | 991   | 918   | 886 | 705 | 410  | 340 | 85.6 | 3.84  | 0  | 0        | 0       | 0        | 333 | 991   | 0   |
| Avg | 0 | 0 | 0 | 0.0011 | 0.00284 | 7.76 | 143  | 349 | 544 | 726 | 874 | 928   | 962   | 932   | 828 | 674 | 497  | 294 | 103  | 3.58  | 0  | 0.000008 | 0.00052 | 0.000452 | 328 | --    | --  |
| Max | 0 | 0 | 0 | 0.0303 | 0.0745  | 15.5 | 176  | 392 | 607 | 792 | 929 | 1,007 | 1,039 | 1,005 | 906 | 755 | 575  | 375 | 140  | 10.6  | 0  | 0.00025  | 0.016   | 0.014    | --  | 1,039 | --  |
| Min | 0 | 0 | 0 | 0      | 0       | 2.17 | 45.6 | 229 | 201 | 294 | 536 | 566   | 680   | 626   | 659 | 358 | 69.1 | 110 | 17.4 | 0     | 0  | 0        | 0       | 0        | --  | --    | 0   |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, SR\_wm2"**  
**Month: Jun 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 | 9.95 | 74.9 | 211 | 410 | 747 | 903 | 971   | 999   | 963   | 868 | 722 | 546 | 339 | 136 | 9.51 | 0  | 0  | 0  | 0  | 330 | 999   | 0   |
| 2   | 0       | 0       | 0 | 0 | 0 | 12.6 | 156  | 360 | 564 | 748 | 881 | 954   | 985   | 952   | 856 | 711 | 540 | 333 | 131 | 9.47 | 0  | 0  | 0  | 0  | 341 | 985   | 0   |
| 3   | 0       | 0       | 0 | 0 | 0 | 14.8 | 157  | 358 | 566 | 749 | 883 | 965   | 984   | 961   | 865 | 718 | 545 | 333 | 127 | 5.11 | 0  | 0  | 0  | 0  | 343 | 984   | 0   |
| 4   | 0       | 0       | 0 | 0 | 0 | 14.8 | 160  | 360 | 564 | 745 | 881 | 959   | 989   | 959   | 866 | 723 | 547 | 341 | 140 | 10.2 | 0  | 0  | 0  | 0  | 344 | 989   | 0   |
| 5   | 0       | 0       | 0 | 0 | 0 | 15.8 | 155  | 360 | 563 | 745 | 883 | 960   | 990   | 957   | 862 | 721 | 521 | 334 | 145 | 12.8 | 0  | 0  | 0  | 0  | 343 | 990   | 0   |
| 6   | 0       | 0       | 0 | 0 | 0 | 21.8 | 144  | 355 | 570 | 719 | 865 | 942   | 967   | 963   | 853 | 701 | 536 | 341 | 136 | 14   | 0  | 0  | 0  | 0  | 339 | 967   | 0   |
| 7   | 0       | 0       | 0 | 0 | 0 | 20.2 | 166  | 357 | 565 | 739 | 859 | 910   | 869   | 962   | 825 | 711 | 557 | 330 | 159 | 19   | 0  | 0  | 0  | 0  | 335 | 962   | 0   |
| 8   | 0       | 0       | 0 | 0 | 0 | 24.3 | 161  | 297 | 520 | 616 | 869 | 951   | 960   | 912   | 868 | 724 | 525 | 341 | 161 | 8.77 | 0  | 0  | 0  | 0  | 331 | 960   | 0   |
| 9   | 0       | 0       | 0 | 0 | 0 | 15.7 | 161  | 361 | 569 | 742 | 876 | 954   | 987   | 947   | 874 | 728 | 555 | 348 | 145 | 12.2 | 0  | 0  | 0  | 0  | 345 | 987   | 0   |
| 10  | 0       | 0       | 0 | 0 | 0 | 20.6 | 147  | 377 | 590 | 763 | 921 | 999   | 1,036 | 1,006 | 873 | 669 | 544 | 403 | 159 | 13.3 | 0  | 0  | 0  | 0  | 355 | 1,036 | 0   |
| 11  | 0       | 0       | 0 | 0 | 0 | 16.1 | 176  | 384 | 600 | 774 | 908 | 987   | 1,027 | 987   | 891 | 745 | 563 | 359 | 149 | 13.4 | 0  | 0  | 0  | 0  | 357 | 1,027 | 0   |
| 12  | 0       | 0       | 0 | 0 | 0 | 15.7 | 175  | 380 | 592 | 762 | 894 | 979   | 1,020 | 992   | 899 | 757 | 583 | 372 | 161 | 15.4 | 0  | 0  | 0  | 0  | 358 | 1,020 | 0   |
| 13  | 0       | 0       | 0 | 0 | 0 | 16.9 | 182  | 395 | 607 | 783 | 921 | 1,008 | 1,051 | 1,021 | 925 | 776 | 598 | 386 | 168 | 15   | 0  | 0  | 0  | 0  | 369 | 1,051 | 0   |
| 14  | 0       | 0       | 0 | 0 | 0 | 17   | 186  | 400 | 610 | 789 | 924 | 1,013 | 1,056 | 1,027 | 932 | 784 | 606 | 392 | 174 | 16.3 | 0  | 0  | 0  | 0  | 372 | 1,056 | 0   |
| 15  | 0       | 0       | 0 | 0 | 0 | 17.6 | 186  | 398 | 612 | 789 | 925 | 1,011 | 1,052 | 1,021 | 927 | 781 | 603 | 390 | 172 | 15.7 | 0  | 0  | 0  | 0  | 371 | 1,052 | 0   |
| 16  | 0       | 0       | 0 | 0 | 0 | 17   | 183  | 393 | 602 | 783 | 915 | 997   | 1,036 | 1,007 | 914 | 769 | 596 | 386 | 170 | 14.1 | 0  | 0  | 0  | 0  | 366 | 1,036 | 0   |
| 17  | 0       | 0       | 0 | 0 | 0 | 16.2 | 166  | 372 | 578 | 754 | 889 | 974   | 1,016 | 987   | 892 | 748 | 575 | 368 | 157 | 15   | 0  | 0  | 0  | 0  | 354 | 1,016 | 0   |
| 18  | 0       | 0       | 0 | 0 | 0 | 16.1 | 157  | 350 | 545 | 708 | 853 | 942   | 981   | 953   | 869 | 732 | 553 | 349 | 147 | 13.4 | 0  | 0  | 0  | 0  | 340 | 981   | 0   |
| 19  | 0       | 0.004   | 0 | 0 | 0 | 8.95 | 111  | 365 | 559 | 659 | 854 | 957   | 987   | 949   | 864 | 725 | 555 | 356 | 171 | 21.7 | 0  | 0  | 0  | 0  | 339 | 987   | 0   |
| 20  | 0       | 0       | 0 | 0 | 0 | 15.8 | 154  | 320 | 523 | 688 | 818 | 903   | 942   | 919   | 869 | 795 | 587 | 363 | 145 | 11   | 0  | 0  | 0  | 0  | 335 | 942   | 0   |
| 21  | 0       | 0       | 0 | 0 | 0 | 12.9 | 142  | 337 | 528 | 704 | 837 | 922   | 961   | 935   | 844 | 708 | 538 | 338 | 145 | 14.7 | 0  | 0  | 0  | 0  | 332 | 961   | 0   |
| 22  | 0       | 0       | 0 | 0 | 0 | 12.6 | 121  | 329 | 532 | 704 | 834 | 918   | 957   | 931   | 846 | 712 | 544 | 348 | 152 | 16.2 | 0  | 0  | 0  | 0  | 332 | 957   | 0   |
| 23  | 0       | 0       | 0 | 0 | 0 | 13.7 | 148  | 345 | 547 | 714 | 850 | 936   | 976   | 947   | 856 | 718 | 554 | 356 | 154 | 8.8  | 0  | 0  | 0  | 0  | 338 | 976   | 0   |
| 24  | 0       | 0       | 0 | 0 | 0 | 11.2 | 117  | 326 | 526 | 694 | 824 | 910   | 957   | 936   | 848 | 712 | 547 | 350 | 148 | 13.7 | 0  | 0  | 0  | 0  | 330 | 957   | 0   |
| 25  | 0.00775 | 0       | 0 | 0 | 0 | 14.1 | 130  | 237 | 526 | 658 | 759 | 857   | 952   | 925   | 836 | 703 | 538 | 354 | 154 | 17   | 0  | 0  | 0  | 0  | 319 | 952   | 0   |
| 26  | 0       | 0       | 0 | 0 | 0 | 10.8 | 136  | 333 | 531 | 691 | 821 | 910   | 950   | 931   | 848 | 712 | 542 | 352 | 155 | 15.9 | 0  | 0  | 0  | 0  | 331 | 950   | 0   |
| 27  | 0       | 0       | 0 | 0 | 0 | 13   | 148  | 342 | 547 | 715 | 854 | 947   | 996   | 976   | 898 | 759 | 586 | 389 | 173 | 18.4 | 0  | 0  | 0  | 0  | 348 | 996   | 0   |
| 28  | 0       | 0       | 0 | 0 | 0 | 12.1 | 154  | 354 | 552 | 715 | 842 | 924   | 958   | 914   | 835 | 707 | 550 | 356 | 155 | 16.3 | 0  | 0  | 0  | 0  | 335 | 958   | 0   |
| 29  | 0       | 0       | 0 | 0 | 0 | 11   | 161  | 365 | 571 | 739 | 869 | 952   | 992   | 972   | 882 | 741 | 569 | 373 | 158 | 16.7 | 0  | 0  | 0  | 0  | 349 | 992   | 0   |
| 30  | 0       | 0       | 0 | 0 | 0 | 11.3 | 159  | 367 | 569 | 740 | 874 | 967   | 1,015 | 995   | 904 | 762 | 588 | 392 | 177 | 18.1 | 0  | 0  | 0  | 0  | 356 | 1,015 | 0   |
| Avg | 0.00026 | 0.00013 | 0 | 0 | 0 | 15   | 152  | 350 | 558 | 729 | 869 | 953   | 988   | 963   | 873 | 733 | 560 | 359 | 154 | 14   | 0  | 0  | 0  | 0  | 345 | --    | --  |
| Max | 0.00775 | 0.004   | 0 | 0 | 0 | 24.3 | 186  | 400 | 612 | 789 | 925 | 1,013 | 1,056 | 1,027 | 932 | 795 | 606 | 403 | 177 | 21.7 | 0  | 0  | 0  | 0  | --  | 1,056 | --  |
| Min | 0       | 0       | 0 | 0 | 0 | 8.95 | 74.9 | 211 | 410 | 616 | 759 | 857   | 869   | 912   | 825 | 669 | 521 | 330 | 127 | 5.11 | 0  | 0  | 0  | 0  | --  | --    | 0   |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Apr 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   | 4.8  | 4.7  | 3.5  | 3.1  | 2.8  | 2.9  | 4.7  | 9.6  | 13.7 | 15.4 | 16.5 | 16.7 | 17.1 | 17.6 | 18.3 | 18.1 | 18.1 | 18.2 | 16.9 | 14.1 | 11.2 | 9.9  | 8.4  | 6.1  | 11.3 | 18.3 | 2.8  |
| 2   | 6.9  | 4.9  | 3.9  | 2.7  | 2.8  | 2.1  | 3.3  | 8.7  | 14.0 | 17.4 | 18.9 | 20.3 | 21.8 | 22.7 | 23.4 | 23.7 | 23.6 | 23.0 | 20.8 | 16.4 | 13.5 | 11.6 | 9.6  | 9.5  | 13.6 | 23.7 | 2.1  |
| 3   | 8.1  | 7.1  | 7.0  | 5.7  | 5.6  | 4.8  | 5.4  | 11.8 | 17.3 | 20.1 | 21.6 | 23.0 | 24.3 | 25.2 | 25.5 | 26.1 | 26.2 | 25.3 | 23.9 | 22.3 | 21.3 | 19.5 | 15.9 | 14.0 | 17.0 | 26.2 | 4.8  |
| 4   | 12.1 | 11.1 | 8.5  | 6.6  | 5.4  | 4.5  | 4.7  | 9.5  | 14.4 | 17.4 | 18.9 | 20.4 | 21.6 | 22.0 | 22.3 | 21.7 | 21.4 | 21.1 | 18.8 | 14.3 | 12.3 | 9.2  | 8.3  | 6.8  | 13.9 | 22.3 | 4.5  |
| 5   | 7.2  | 7.7  | 9.4  | 14.7 | 14.6 | 15.5 | 15.2 | 16.4 | 17.9 | 20.0 | 21.9 | 23.7 | 24.8 | 25.7 | 26.5 | 27.0 | 27.1 | 26.9 | 22.6 | 15.9 | 14.0 | 11.2 | 10.3 | 9.4  | 17.7 | 27.1 | 7.2  |
| 6   | 8.9  | 8.1  | 7.6  | 9.3  | 9.6  | 9.7  | 10.4 | 15.7 | 22.3 | 25.1 | 26.5 | 28.0 | 29.0 | 29.7 | 30.6 | 30.6 | 30.2 | 28.7 | 25.7 | 19.7 | 15.9 | 13.5 | 13.0 | 11.9 | 19.1 | 30.6 | 7.6  |
| 7   | 11.3 | 10.0 | 9.0  | 8.0  | 8.5  | 8.1  | 7.7  | 15.0 | 21.0 | 24.9 | 26.7 | 28.1 | 28.6 | 29.0 | 28.7 | 28.5 | 27.8 | 26.9 | 21.1 | 17.8 | 14.8 | 14.5 | 11.8 | 10.6 | 18.3 | 29.0 | 7.7  |
| 8   | 9.2  | 8.4  | 7.1  | 6.9  | 6.2  | 6.2  | 7.3  | 11.8 | 18.2 | 23.3 | 25.3 | 26.0 | 27.2 | 28.0 | 28.1 | 27.3 | 27.3 | 25.8 | 23.5 | 21.7 | 21.3 | 19.0 | 18.1 | 17.2 | 18.3 | 28.1 | 6.2  |
| 9   | 12.1 | 10.4 | 10.2 | 8.8  | 7.5  | 6.4  | 6.8  | 12.3 | 17.1 | 19.6 | 21.3 | 22.1 | 22.7 | 23.4 | 23.7 | 23.3 | 23.3 | 22.2 | 20.0 | 15.5 | 12.7 | 11.0 | 9.1  | 7.6  | 15.4 | 23.7 | 6.4  |
| 10  | 7.3  | 5.6  | 6.2  | 5.0  | 5.6  | 4.1  | 4.7  | 12.5 | 19.0 | 21.6 | 22.9 | 24.1 | 25.2 | 25.9 | 26.7 | 27.0 | 26.7 | 25.6 | 22.2 | 15.8 | 13.3 | 10.9 | 9.3  | 7.7  | 15.6 | 27.0 | 4.1  |
| 11  | 7.2  | 7.3  | 6.3  | 5.0  | 4.8  | 4.0  | 5.3  | 14.4 | 20.7 | 23.9 | 24.9 | 27.0 | 28.3 | 29.4 | 30.0 | 29.7 | 29.2 | 27.1 | 24.4 | 18.0 | 15.2 | 14.7 | 13.8 | 12.6 | 17.6 | 30.0 | 4.0  |
| 12  | 10.7 | 8.7  | 7.7  | 7.2  | 6.6  | 5.5  | 7.2  | 14.2 | 19.9 | 24.4 | 26.5 | 28.3 | 29.2 | 29.5 | 30.0 | 30.2 | 29.9 | 28.7 | 25.5 | 18.9 | 16.3 | 14.2 | 12.1 | 11.4 | 18.5 | 30.2 | 5.5  |
| 13  | 10.9 | 10.1 | 8.2  | 8.2  | 7.1  | 6.8  | 7.6  | 14.4 | 21.8 | 25.8 | 27.3 | 28.9 | 30.1 | 31.0 | 30.6 | 29.6 | 29.8 | 29.4 | 26.8 | 21.8 | 19.0 | 16.3 | 14.9 | 13.1 | 19.6 | 31.0 | 6.8  |
| 14  | 10.8 | 9.3  | 8.3  | 7.4  | 6.7  | 6.3  | 8.1  | 14.7 | 20.8 | 24.2 | 25.4 | 26.2 | 27.3 | 28.3 | 28.7 | 28.8 | 28.7 | 28.1 | 25.9 | 20.2 | 18.7 | 15.7 | 14.1 | 11.0 | 18.5 | 28.8 | 6.3  |
| 15  | 9.0  | 8.3  | 7.6  | 6.7  | 6.7  | 5.8  | 6.9  | 14.7 | 20.2 | 23.4 | 25.1 | 26.7 | 27.3 | 28.0 | 28.4 | 28.6 | 28.3 | 27.4 | 24.5 | 17.8 | 14.6 | 12.9 | 11.9 | 10.2 | 17.5 | 28.6 | 5.8  |
| 16  | 9.6  | 9.2  | 8.0  | 7.1  | 6.3  | 5.1  | 6.9  | 14.7 | 21.4 | 25.2 | 26.8 | 28.3 | 28.8 | 29.8 | 30.3 | 30.2 | 29.4 | 27.9 | 25.0 | 17.6 | 14.0 | 12.9 | 12.1 | 11.2 | 18.2 | 30.3 | 5.1  |
| 17  | 10.2 | 9.1  | 8.5  | 8.1  | 6.8  | 6.2  | 8.5  | 15.5 | 21.7 | 25.2 | 26.3 | 28.0 | 29.0 | 29.5 | 30.1 | 30.4 | 29.8 | 28.3 | 26.6 | 19.8 | 17.6 | 15.9 | 13.1 | 13.0 | 19.0 | 30.4 | 6.2  |
| 18  | 12.6 | 11.0 | 10.1 | 8.9  | 8.0  | 7.6  | 9.0  | 17.0 | 22.9 | 25.9 | 27.6 | 28.8 | 29.6 | 30.2 | 30.8 | 31.2 | 31.2 | 30.2 | 28.5 | 25.6 | 22.1 | 17.7 | 17.5 | 15.5 | 20.8 | 31.2 | 7.6  |
| 19  | 14.5 | 12.9 | 11.0 | 10.3 | 10.3 | 9.7  | 11.0 | 17.9 | 22.4 | 24.8 | 26.2 | 27.4 | 28.3 | 29.1 | 29.8 | 29.8 | 29.4 | 28.6 | 26.3 | 20.4 | 16.5 | 15.6 | 12.9 | 12.9 | 19.9 | 29.8 | 9.7  |
| 20  | 11.7 | 10.0 | 8.2  | 8.1  | 7.0  | 6.6  | 9.0  | 16.1 | 21.8 | 25.1 | 26.7 | 27.5 | 28.8 | 29.1 | 29.7 | 29.9 | 29.6 | 28.7 | 26.9 | 22.5 | 16.6 | 16.5 | 13.1 | 11.9 | 19.2 | 29.9 | 6.6  |
| 21  | 9.9  | 8.0  | 7.3  | 7.4  | 6.9  | 6.5  | 9.3  | 17.5 | 23.6 | 26.0 | 27.6 | 28.7 | 29.5 | 30.5 | 30.9 | 31.1 | 30.8 | 29.6 | 27.5 | 21.2 | 18.0 | 16.7 | 14.2 | 14.2 | 19.7 | 31.1 | 6.5  |
| 22  | 12.0 | 9.9  | 9.0  | 8.4  | 7.3  | 7.8  | 9.0  | 17.5 | 24.8 | 27.2 | 28.8 | 30.1 | 31.3 | 32.1 | 32.6 | 32.9 | 32.4 | 31.6 | 27.8 | 21.3 | 19.1 | 15.6 | 13.9 | 13.0 | 20.6 | 32.9 | 7.3  |
| 23  | 13.0 | 11.2 | 11.4 | 10.4 | 11.5 | 12.8 | 16.2 | 22.9 | 25.8 | 27.9 | 29.6 | 30.5 | 31.3 | 32.9 | 33.8 | 34.2 | 32.8 | 31.6 | 29.7 | 24.6 | 21.9 | 26.0 | 24.0 | 19.8 | 23.6 | 34.2 | 10.4 |
| 24  | 15.7 | 13.5 | 11.5 | 10.1 | 9.6  | 8.1  | 10.4 | 18.8 | 24.9 | 26.8 | 27.9 | 29.1 | 29.6 | 30.1 | 30.0 | 29.3 | 28.5 | 27.9 | 26.8 | 24.5 | 19.7 | 22.3 | 22.9 | 21.4 | 21.6 | 30.1 | 8.1  |
| 25  | 21.4 | 20.8 | 19.9 | 18.7 | 18.2 | 18.0 | 17.9 | 19.0 | 20.6 | 21.7 | 22.3 | 23.5 | 25.0 | 25.3 | 25.5 | 26.1 | 26.0 | 25.3 | 24.4 | 23.7 | 22.8 | 21.7 | 18.8 | 14.3 | 21.7 | 26.1 | 14.3 |
| 26  | 12.4 | 10.4 | 9.8  | 9.5  | 10.4 | 8.4  | 10.5 | 17.8 | 21.3 | 22.8 | 23.9 | 25.2 | 26.2 | 27.2 | 27.8 | 27.7 | 27.4 | 26.0 | 24.9 | 21.8 | 16.9 | 15.6 | 14.6 | 13.1 | 18.8 | 27.8 | 8.4  |
| 27  | 11.3 | 12.1 | 10.8 | 9.8  | 9.4  | 8.5  | 10.5 | 15.4 | 21.9 | 24.0 | 25.2 | 26.5 | 27.9 | 28.5 | 28.6 | 28.0 | 27.2 | 26.9 | 26.2 | 24.1 | 23.7 | 24.0 | 19.4 | 16.9 | 20.3 | 28.6 | 8.5  |
| 28  | 15.6 | 19.0 | 20.4 | 19.7 | 18.6 | 16.2 | 16.1 | 19.6 | 20.4 | 21.8 | 21.9 | 21.8 | 22.2 | 24.5 | 25.5 | 26.0 | 25.9 | 24.9 | 22.3 | 20.2 | 18.5 | 17.1 | 16.3 | 15.0 | 20.4 | 26.0 | 15.0 |
| 29  | 10.9 | 8.4  | 6.3  | 5.1  | 3.9  | 3.7  | 6.6  | 15.0 | 17.0 | 18.2 | 19.4 | 20.6 | 21.7 | 22.6 | 22.1 | 22.6 | 21.8 | 22.3 | 21.4 | 18.3 | 13.1 | 12.6 | 10.0 | 8.0  | 14.6 | 22.6 | 3.7  |
| 30  | 6.6  | 6.6  | 6.3  | 7.3  | 7.2  | 8.4  | 11.2 | 17.4 | 21.3 | 22.7 | 24.0 | 24.6 | 25.8 | 26.3 | 27.0 | 26.8 | 26.8 | 26.0 | 24.3 | 19.5 | 16.0 | 12.8 | 10.9 | 10.5 | 17.3 | 27.0 | 6.3  |
| Avg | 10.8 | 9.8  | 9.0  | 8.5  | 8.1  | 7.5  | 8.9  | 15.3 | 20.3 | 23.0 | 24.5 | 25.7 | 26.7 | 27.4 | 27.9 | 27.9 | 27.6 | 26.7 | 24.4 | 19.8 | 17.0 | 15.6 | 13.8 | 12.3 | 18.3 | --   | --   |
| Max | 21.4 | 20.8 | 20.4 | 19.7 | 18.6 | 18.0 | 17.9 | 22.9 | 25.8 | 27.9 | 29.6 | 30.5 | 31.3 | 32.9 | 33.8 | 34.2 | 32.8 | 31.6 | 29.7 | 25.6 | 23.7 | 26.0 | 24.0 | 21.4 | --   | 34.2 | --   |
| Min | 4.8  | 4.7  | 3.5  | 2.7  | 2.8  | 2.1  | 3.3  | 8.7  | 13.7 | 15.4 | 16.5 | 16.7 | 17.1 | 17.6 | 18.3 | 18.1 | 18.1 | 18.2 | 16.9 | 14.1 | 11.2 | 9.2  | 8.3  | 6.1  | --   | --   | 2.1  |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: May 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   | 9.8  | 8.5  | 7.7  | 8.1  | 6.0  | 5.4  | 8.7  | 17.6 | 23.0 | 25.2 | 27.0 | 28.2 | 28.9 | 29.9 | 30.4 | 30.5 | 30.1 | 29.3 | 27.5 | 21.6 | 17.1 | 16.0 | 13.3 | 12.4 | 19.2 | 30.5 | 5.4  |
| 2   | 11.7 | 10.5 | 10.4 | 9.3  | 8.0  | 7.7  | 12.3 | 19.4 | 24.4 | 27.2 | 28.7 | 29.9 | 31.0 | 31.6 | 32.0 | 32.1 | 31.6 | 30.8 | 29.0 | 24.2 | 19.9 | 17.9 | 14.8 | 13.8 | 21.2 | 32.1 | 7.7  |
| 3   | 12.8 | 12.1 | 11.0 | 10.4 | 9.7  | 8.8  | 13.5 | 21.4 | 27.5 | 29.4 | 30.4 | 31.6 | 32.6 | 33.7 | 34.2 | 34.6 | 34.4 | 33.7 | 31.8 | 29.7 | 25.2 | 20.7 | 17.5 | 17.3 | 23.5 | 34.6 | 8.8  |
| 4   | 17.3 | 18.3 | 18.5 | 16.6 | 14.7 | 14.6 | 19.6 | 25.9 | 30.4 | 32.2 | 33.1 | 34.3 | 34.8 | 35.8 | 36.2 | 36.5 | 36.1 | 35.1 | 32.4 | 25.7 | 21.3 | 19.3 | 19.0 | 17.1 | 26.0 | 36.5 | 14.6 |
| 5   | 17.5 | 16.7 | 14.9 | 13.9 | 15.8 | 18.7 | 21.8 | 27.5 | 31.0 | 32.6 | 34.9 | 36.8 | 37.7 | 38.1 | 38.6 | 38.7 | 38.4 | 36.2 | 35.0 | 34.1 | 31.9 | 31.1 | 28.5 | 26.5 | 29.0 | 38.7 | 13.9 |
| 6   | 28.3 | 27.1 | 22.6 | 18.4 | 16.6 | 15.1 | 16.8 | 23.0 | 27.8 | 29.1 | 30.4 | 31.6 | 32.9 | 33.7 | 34.3 | 34.1 | 33.0 | 31.7 | 29.8 | 26.4 | 24.2 | 22.4 | 19.1 | 18.7 | 26.1 | 34.3 | 15.1 |
| 7   | 19.1 | 16.7 | 14.2 | 13.6 | 12.1 | 11.1 | 14.0 | 17.8 | 18.8 | 19.9 | 21.0 | 20.8 | 20.3 | 20.2 | 20.7 | 21.2 | 20.6 | 19.9 | 18.8 | 17.8 | 16.0 | 13.4 | 13.1 | 12.9 | 17.2 | 21.2 | 11.1 |
| 8   | 11.9 | 11.6 | 12.2 | 11.3 | 12.2 | 11.5 | 13.3 | 15.9 | 18.2 | 19.7 | 21.6 | 23.2 | 24.0 | 25.4 | 25.8 | 25.3 | 19.8 | 20.4 | 20.3 | 18.6 | 17.4 | 15.4 | 14.2 | 13.4 | 17.6 | 25.8 | 11.3 |
| 9   | 12.2 | 11.6 | 11.9 | 11.5 | 10.6 | 10.3 | 11.3 | 12.5 | 13.6 | 14.3 | 15.9 | 16.7 | 18.5 | 19.4 | 20.4 | 20.2 | 20.3 | 17.6 | 16.2 | 14.7 | 12.6 | 11.2 | 11.9 | 11.7 | 14.5 | 20.4 | 10.3 |
| 10  | 12.3 | 12.0 | 11.2 | 10.9 | 10.4 | 10.4 | 11.5 | 14.5 | 16.3 | 17.5 | 18.9 | 19.7 | 20.3 | 21.2 | 22.3 | 21.7 | 21.9 | 22.3 | 21.0 | 18.6 | 15.0 | 14.1 | 12.5 | 10.9 | 16.1 | 22.3 | 10.4 |
| 11  | 11.1 | 10.2 | 9.7  | 9.3  | 9.0  | 8.8  | 12.1 | 17.8 | 21.1 | 23.4 | 25.0 | 26.2 | 27.6 | 28.4 | 29.0 | 29.4 | 29.3 | 28.7 | 27.4 | 25.1 | 21.6 | 18.9 | 17.2 | 16.6 | 20.1 | 29.4 | 8.8  |
| 12  | 15.1 | 15.0 | 14.8 | 12.8 | 13.0 | 12.8 | 16.3 | 22.8 | 27.3 | 29.1 | 30.5 | 31.6 | 33.2 | 33.8 | 33.8 | 33.9 | 33.3 | 32.1 | 30.5 | 24.7 | 20.8 | 18.8 | 17.6 | 16.5 | 23.8 | 33.9 | 12.8 |
| 13  | 15.3 | 14.7 | 13.2 | 11.7 | 12.8 | 10.8 | 15.5 | 22.1 | 26.2 | 27.9 | 29.6 | 30.9 | 32.0 | 32.7 | 33.4 | 33.9 | 33.5 | 32.7 | 31.0 | 28.8 | 27.0 | 23.0 | 22.6 | 21.2 | 24.3 | 33.9 | 10.8 |
| 14  | 15.6 | 15.2 | 14.2 | 11.9 | 10.4 | 10.0 | 15.1 | 22.3 | 25.2 | 26.8 | 27.2 | 28.2 | 29.2 | 29.1 | 29.6 | 29.6 | 29.4 | 29.8 | 29.1 | 27.1 | 24.7 | 23.2 | 20.7 | 21.6 | 22.7 | 29.8 | 10.0 |
| 15  | 20.8 | 16.0 | 14.1 | 12.5 | 10.5 | 11.0 | 14.4 | 20.2 | 23.5 | 25.0 | 26.1 | 27.5 | 28.5 | 29.5 | 29.1 | 28.6 | 27.5 | 26.0 | 24.3 | 22.3 | 20.8 | 19.9 | 17.6 | 17.1 | 21.4 | 29.5 | 10.5 |
| 16  | 15.8 | 14.8 | 14.9 | 12.9 | 10.6 | 10.1 | 11.4 | 15.5 | 16.5 | 16.9 | 19.3 | 20.0 | 21.3 | 21.7 | 22.2 | 22.2 | 22.4 | 21.7 | 20.2 | 18.0 | 13.8 | 12.6 | 10.5 | 9.1  | 16.4 | 22.4 | 9.1  |
| 17  | 8.1  | 7.6  | 7.3  | 6.5  | 6.2  | 6.5  | 10.8 | 16.2 | 19.1 | 20.6 | 22.0 | 23.2 | 24.5 | 25.4 | 26.2 | 26.7 | 26.9 | 26.5 | 25.2 | 23.2 | 22.8 | 22.2 | 21.0 | 20.2 | 18.5 | 26.9 | 6.2  |
| 18  | 19.4 | 17.6 | 15.8 | 15.1 | 13.4 | 11.7 | 15.4 | 19.2 | 21.2 | 22.4 | 23.6 | 25.1 | 26.1 | 26.4 | 26.7 | 27.1 | 26.8 | 25.8 | 24.3 | 21.9 | 20.6 | 20.1 | 18.5 | 18.0 | 20.9 | 27.1 | 11.7 |
| 19  | 13.1 | 11.6 | 10.4 | 10.2 | 14.0 | 13.1 | 15.2 | 16.7 | 18.6 | 20.7 | 22.1 | 23.8 | 25.3 | 26.5 | 27.4 | 27.9 | 27.8 | 26.9 | 25.5 | 23.5 | 20.2 | 15.7 | 14.5 | 15.8 | 19.4 | 27.9 | 10.2 |
| 20  | 19.1 | 19.3 | 15.8 | 18.8 | 19.7 | 17.8 | 20.0 | 23.4 | 24.8 | 26.4 | 27.9 | 29.0 | 30.0 | 30.9 | 31.7 | 32.1 | 31.9 | 31.4 | 29.6 | 26.4 | 21.4 | 18.6 | 15.6 | 15.9 | 24.1 | 32.1 | 15.6 |
| 21  | 16.9 | 19.4 | 22.7 | 22.3 | 22.1 | 21.6 | 23.9 | 27.0 | 28.7 | 30.8 | 32.4 | 33.3 | 34.2 | 34.8 | 35.3 | 35.3 | 34.8 | 33.9 | 32.1 | 28.1 | 22.8 | 21.0 | 18.1 | 16.9 | 27.0 | 35.3 | 16.9 |
| 22  | 16.3 | 15.4 | 13.9 | 12.1 | 11.9 | 14.3 | 20.0 | 26.7 | 30.9 | 32.8 | 33.8 | 34.8 | 35.8 | 36.6 | 37.1 | 36.9 | 36.3 | 35.3 | 33.7 | 30.8 | 24.6 | 22.5 | 19.7 | 18.6 | 26.3 | 37.1 | 11.9 |
| 23  | 18.2 | 17.6 | 19.5 | 19.9 | 18.6 | 16.4 | 20.9 | 28.4 | 31.8 | 33.2 | 34.6 | 35.7 | 36.5 | 36.9 | 37.4 | 37.2 | 37.0 | 35.9 | 34.2 | 30.9 | 24.5 | 22.5 | 19.7 | 19.6 | 27.8 | 37.4 | 16.4 |
| 24  | 19.3 | 19.2 | 17.5 | 15.8 | 14.4 | 13.4 | 18.0 | 25.6 | 30.7 | 32.8 | 34.6 | 35.6 | 37.1 | 37.6 | 38.0 | 38.0 | 37.7 | 36.2 | 35.4 | 33.9 | 32.9 | 31.3 | 29.7 | 29.3 | 28.9 | 38.0 | 13.4 |
| 25  | 26.9 | 21.8 | 20.0 | 23.6 | 18.7 | 23.5 | 24.3 | 26.5 | 27.9 | 29.2 | 30.4 | 31.8 | 32.9 | 34.0 | 33.8 | 34.0 | 34.2 | 33.2 | 32.3 | 30.8 | 29.1 | 27.2 | 26.0 | 24.7 | 28.2 | 34.2 | 18.7 |
| 26  | 18.7 | 15.2 | 13.9 | 11.8 | 10.9 | 11.4 | 16.8 | 22.9 | 26.5 | 27.9 | 29.3 | 30.7 | 31.5 | 32.3 | 32.8 | 32.9 | 32.6 | 31.7 | 30.4 | 28.7 | 27.1 | 25.7 | 23.7 | 21.6 | 24.5 | 32.9 | 10.9 |
| 27  | 16.7 | 13.5 | 12.4 | 11.2 | 11.0 | 10.5 | 16.0 | 22.2 | 26.2 | 27.9 | 29.2 | 30.8 | 31.7 | 32.4 | 33.1 | 33.0 | 32.7 | 32.0 | 30.4 | 26.3 | 21.3 | 19.5 | 16.8 | 16.6 | 23.1 | 33.1 | 10.5 |
| 28  | 14.9 | 14.2 | 13.6 | 13.4 | 11.7 | 11.7 | 17.3 | 22.9 | 27.5 | 30.4 | 31.8 | 33.2 | 34.3 | 35.0 | 35.5 | 35.7 | 35.2 | 34.3 | 32.4 | 27.7 | 21.7 | 19.8 | 18.2 | 16.9 | 24.5 | 35.7 | 11.7 |
| 29  | 15.9 | 15.1 | 13.7 | 14.0 | 12.2 | 13.4 | 19.0 | 26.5 | 31.6 | 33.2 | 34.7 | 35.5 | 36.2 | 37.5 | 37.2 | 37.1 | 35.9 | 35.4 | 33.0 | 28.4 | 23.6 | 22.7 | 21.7 | 20.2 | 26.4 | 37.5 | 12.2 |
| 30  | 19.5 | 18.0 | 16.4 | 16.0 | 16.0 | 17.0 | 21.0 | 28.2 | 30.6 | 32.5 | 33.7 | 34.4 | 34.8 | 36.1 | 36.2 | 36.1 | 36.0 | 34.9 | 33.1 | 30.2 | 26.4 | 26.3 | 26.4 | 26.3 | 27.8 | 36.2 | 16.0 |
| 31  | 24.6 | 23.3 | 22.8 | 22.9 | 23.2 | 23.1 | 24.4 | 27.6 | 29.6 | 31.7 | 32.7 | 33.9 | 34.7 | 35.4 | 35.9 | 35.9 | 34.6 | 34.6 | 32.7 | 31.0 | 30.2 | 29.1 | 27.0 | 24.0 | 29.4 | 35.9 | 22.8 |
| Avg | 16.6 | 15.5 | 14.6 | 13.8 | 13.1 | 13.0 | 16.5 | 21.8 | 25.0 | 26.7 | 28.1 | 29.3 | 30.3 | 31.0 | 31.5 | 31.6 | 31.0 | 30.2 | 28.7 | 25.8 | 22.5 | 20.7 | 18.9 | 18.1 | 23.1 | --   | --   |
| Max | 28.3 | 27.1 | 22.8 | 23.6 | 23.2 | 23.5 | 24.4 | 28.4 | 31.8 | 33.2 | 34.9 | 36.8 | 37.7 | 38.1 | 38.6 | 38.7 | 38.4 | 36.2 | 35.4 | 34.1 | 32.9 | 31.3 | 29.7 | 29.3 | --   | 38.7 | --   |
| Min | 8.1  | 7.6  | 7.3  | 6.5  | 6.0  | 5.4  | 8.7  | 12.5 | 13.6 | 14.3 | 15.9 | 16.7 | 18.5 | 19.4 | 20.4 | 20.2 | 19.8 | 17.6 | 16.2 | 14.7 | 12.6 | 11.2 | 10.5 | 9.1  | --   | --   | 5.4  |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Jun 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   | 21.7 | 21.0 | 19.4 | 17.5 | 17.7 | 17.3 | 19.4 | 23.4 | 27.1 | 30.7 | 32.4 | 33.0 | 33.3 | 33.7 | 34.1 | 34.2 | 34.0 | 33.2 | 31.7 | 29.5 | 23.8 | 23.5 | 25.5 | 23.5 | 26.7 | 34.2 | 17.3 |
| 2   | 20.0 | 19.3 | 18.5 | 16.3 | 14.0 | 13.6 | 18.4 | 23.6 | 27.0 | 29.3 | 30.6 | 32.4 | 33.6 | 34.6 | 35.3 | 35.5 | 35.4 | 34.6 | 33.5 | 31.2 | 26.3 | 24.9 | 22.5 | 20.8 | 26.3 | 35.5 | 13.6 |
| 3   | 20.4 | 19.1 | 17.8 | 16.3 | 15.2 | 15.7 | 19.9 | 25.9 | 29.4 | 31.9 | 33.8 | 35.5 | 36.8 | 37.9 | 38.5 | 38.7 | 38.0 | 37.4 | 35.9 | 32.6 | 27.1 | 25.9 | 23.4 | 21.7 | 28.1 | 38.7 | 15.2 |
| 4   | 21.5 | 20.6 | 19.8 | 17.8 | 16.0 | 15.5 | 20.3 | 26.5 | 30.7 | 32.4 | 34.5 | 36.0 | 37.2 | 38.1 | 38.6 | 39.0 | 38.8 | 37.9 | 36.5 | 33.4 | 28.1 | 25.7 | 24.1 | 22.5 | 28.8 | 39.0 | 15.5 |
| 5   | 20.8 | 19.7 | 19.5 | 18.4 | 16.4 | 16.0 | 21.1 | 27.4 | 31.1 | 33.5 | 35.2 | 36.4 | 37.4 | 38.5 | 39.0 | 39.1 | 38.9 | 37.9 | 36.6 | 33.9 | 30.8 | 26.5 | 25.0 | 23.2 | 29.2 | 39.1 | 16.0 |
| 6   | 22.5 | 20.3 | 20.6 | 19.0 | 17.7 | 17.2 | 21.9 | 27.7 | 30.6 | 32.5 | 33.9 | 35.5 | 36.8 | 38.0 | 38.6 | 38.8 | 38.5 | 37.5 | 35.9 | 32.5 | 28.8 | 25.1 | 24.6 | 24.5 | 29.1 | 38.8 | 17.2 |
| 7   | 21.9 | 21.8 | 20.8 | 19.0 | 17.6 | 18.6 | 22.6 | 27.4 | 30.7 | 32.8 | 34.8 | 36.2 | 37.0 | 38.7 | 39.0 | 39.0 | 38.5 | 37.3 | 36.1 | 34.0 | 31.3 | 26.1 | 23.8 | 22.2 | 29.5 | 39.0 | 17.6 |
| 8   | 20.8 | 19.9 | 19.3 | 18.6 | 18.2 | 18.0 | 23.1 | 28.0 | 32.1 | 33.0 | 34.8 | 35.7 | 36.4 | 37.1 | 37.3 | 37.5 | 37.1 | 36.1 | 34.9 | 32.1 | 26.2 | 24.5 | 23.1 | 22.9 | 28.6 | 37.5 | 18.0 |
| 9   | 21.3 | 19.5 | 18.7 | 17.8 | 17.2 | 16.3 | 21.5 | 28.0 | 30.9 | 33.1 | 34.4 | 35.7 | 36.6 | 37.3 | 37.9 | 37.8 | 37.5 | 36.8 | 35.4 | 32.6 | 30.3 | 24.5 | 23.0 | 24.1 | 28.7 | 37.9 | 16.3 |
| 10  | 24.5 | 21.1 | 18.8 | 15.8 | 15.0 | 15.9 | 19.1 | 25.4 | 29.0 | 30.4 | 31.9 | 33.1 | 34.4 | 35.2 | 35.4 | 35.7 | 35.9 | 36.0 | 34.9 | 32.8 | 31.0 | 28.9 | 27.5 | 26.6 | 28.1 | 36.0 | 15.0 |
| 11  | 26.3 | 25.0 | 23.2 | 18.7 | 17.3 | 15.9 | 20.5 | 25.4 | 28.5 | 29.9 | 31.3 | 32.7 | 33.5 | 34.5 | 35.4 | 35.7 | 35.4 | 34.5 | 32.8 | 30.6 | 28.7 | 27.4 | 26.7 | 25.2 | 28.1 | 35.7 | 15.9 |
| 12  | 20.0 | 17.5 | 16.2 | 16.0 | 15.4 | 14.7 | 18.8 | 23.9 | 25.6 | 26.8 | 28.2 | 29.3 | 30.2 | 30.9 | 31.7 | 32.3 | 32.4 | 31.8 | 30.3 | 28.0 | 25.0 | 23.6 | 18.4 | 16.5 | 24.3 | 32.4 | 14.7 |
| 13  | 15.0 | 12.8 | 12.0 | 10.7 | 9.4  | 10.0 | 15.4 | 22.0 | 26.0 | 27.5 | 29.1 | 30.3 | 31.8 | 32.8 | 33.4 | 33.7 | 33.3 | 32.4 | 30.9 | 26.2 | 20.7 | 18.7 | 15.5 | 15.0 | 22.7 | 33.7 | 9.4  |
| 14  | 13.5 | 13.3 | 12.6 | 10.8 | 10.2 | 11.1 | 16.8 | 24.1 | 28.3 | 31.4 | 33.3 | 34.4 | 35.7 | 36.4 | 36.9 | 37.3 | 37.0 | 36.1 | 34.5 | 29.0 | 22.5 | 20.2 | 17.7 | 15.9 | 24.9 | 37.3 | 10.2 |
| 15  | 15.5 | 14.8 | 13.5 | 13.5 | 13.9 | 11.0 | 17.8 | 25.8 | 30.3 | 33.7 | 35.2 | 36.7 | 37.7 | 38.5 | 39.2 | 39.2 | 38.9 | 37.9 | 35.8 | 29.6 | 22.5 | 19.9 | 19.0 | 18.0 | 26.6 | 39.2 | 11.0 |
| 16  | 17.4 | 16.6 | 14.8 | 13.1 | 12.3 | 12.1 | 18.1 | 25.5 | 30.6 | 33.9 | 35.4 | 36.6 | 38.1 | 39.1 | 39.5 | 39.6 | 39.4 | 38.5 | 36.7 | 31.2 | 25.3 | 23.2 | 21.2 | 19.5 | 27.4 | 39.6 | 12.1 |
| 17  | 18.8 | 16.9 | 15.1 | 15.1 | 15.2 | 14.9 | 19.6 | 26.6 | 30.7 | 33.7 | 35.3 | 36.8 | 38.2 | 39.1 | 39.7 | 39.8 | 39.5 | 38.7 | 37.2 | 32.9 | 25.9 | 23.3 | 22.3 | 19.7 | 28.1 | 39.8 | 14.9 |
| 18  | 18.7 | 17.8 | 16.8 | 16.5 | 15.7 | 16.1 | 20.8 | 27.5 | 31.6 | 34.0 | 35.7 | 37.4 | 38.8 | 39.9 | 40.8 | 41.3 | 41.2 | 40.3 | 38.8 | 34.3 | 28.8 | 25.9 | 23.3 | 22.9 | 29.4 | 41.3 | 15.7 |
| 19  | 21.6 | 22.4 | 21.8 | 20.6 | 20.1 | 19.6 | 21.6 | 30.3 | 35.0 | 37.1 | 39.8 | 41.6 | 43.4 | 44.6 | 44.9 | 45.1 | 44.8 | 44.1 | 42.7 | 39.8 | 34.6 | 31.0 | 29.6 | 28.0 | 33.5 | 45.1 | 19.6 |
| 20  | 28.8 | 29.6 | 27.4 | 25.9 | 25.0 | 25.7 | 30.0 | 37.0 | 39.8 | 41.7 | 42.9 | 44.0 | 45.0 | 45.7 | 46.2 | 46.5 | 45.9 | 45.1 | 43.6 | 40.1 | 33.3 | 30.7 | 30.9 | 28.6 | 36.6 | 46.5 | 25.0 |
| 21  | 28.2 | 29.0 | 28.5 | 25.6 | 26.5 | 24.3 | 26.8 | 34.0 | 38.9 | 39.8 | 41.1 | 42.4 | 43.6 | 44.1 | 44.9 | 44.6 | 44.4 | 43.5 | 42.0 | 39.2 | 36.9 | 31.9 | 28.1 | 26.6 | 35.6 | 44.9 | 24.3 |
| 22  | 24.9 | 24.2 | 23.7 | 22.8 | 22.8 | 21.7 | 24.8 | 31.8 | 34.2 | 35.4 | 37.2 | 38.6 | 40.1 | 40.9 | 41.8 | 41.9 | 41.6 | 40.8 | 39.5 | 37.7 | 34.2 | 28.9 | 26.9 | 27.2 | 32.7 | 41.9 | 21.7 |
| 23  | 30.2 | 29.3 | 25.4 | 24.1 | 22.3 | 21.5 | 25.4 | 30.8 | 33.3 | 35.3 | 36.8 | 38.0 | 39.1 | 40.3 | 41.2 | 41.5 | 41.0 | 40.5 | 39.3 | 36.9 | 32.9 | 29.1 | 26.9 | 25.2 | 32.8 | 41.5 | 21.5 |
| 24  | 24.2 | 23.5 | 22.4 | 22.2 | 21.4 | 20.5 | 22.9 | 30.2 | 35.8 | 38.2 | 39.7 | 41.2 | 42.6 | 43.4 | 43.8 | 43.9 | 43.4 | 42.5 | 41.0 | 37.5 | 31.5 | 29.9 | 29.9 | 28.2 | 33.3 | 43.9 | 20.5 |
| 25  | 31.9 | 34.8 | 33.7 | 32.9 | 31.8 | 31.2 | 32.2 | 33.6 | 35.6 | 36.8 | 38.3 | 39.7 | 40.5 | 41.8 | 42.7 | 42.9 | 42.7 | 41.8 | 40.3 | 38.6 | 36.1 | 35.0 | 33.9 | 31.6 | 36.7 | 42.9 | 31.2 |
| 26  | 31.8 | 31.8 | 30.8 | 31.5 | 30.1 | 29.9 | 30.9 | 32.1 | 33.9 | 34.9 | 36.2 | 37.4 | 38.8 | 40.0 | 40.7 | 41.0 | 40.9 | 40.1 | 38.9 | 36.5 | 32.3 | 29.9 | 25.9 | 25.1 | 34.2 | 41.0 | 25.1 |
| 27  | 23.2 | 21.8 | 21.7 | 20.5 | 19.1 | 18.6 | 23.1 | 30.0 | 33.7 | 35.3 | 37.0 | 38.4 | 39.6 | 40.1 | 40.4 | 40.4 | 39.7 | 38.8 | 37.4 | 35.1 | 29.6 | 26.9 | 23.0 | 20.8 | 30.6 | 40.4 | 18.6 |
| 28  | 19.7 | 20.6 | 19.2 | 18.7 | 18.3 | 18.3 | 21.8 | 28.6 | 32.4 | 33.6 | 34.7 | 35.4 | 36.4 | 37.5 | 38.4 | 38.8 | 38.7 | 38.2 | 36.6 | 33.9 | 28.0 | 25.8 | 25.5 | 25.4 | 29.4 | 38.8 | 18.3 |
| 29  | 23.2 | 20.9 | 21.3 | 19.8 | 19.0 | 18.8 | 22.6 | 28.3 | 32.0 | 33.0 | 34.6 | 35.9 | 37.1 | 37.9 | 38.4 | 38.7 | 38.5 | 37.9 | 36.6 | 32.9 | 27.3 | 25.1 | 23.5 | 23.5 | 29.5 | 38.7 | 18.8 |
| 30  | 23.6 | 20.9 | 19.0 | 18.4 | 17.0 | 16.2 | 21.3 | 27.7 | 31.6 | 33.5 | 35.3 | 37.0 | 38.0 | 39.1 | 39.5 | 39.8 | 39.7 | 38.8 | 37.1 | 32.5 | 26.0 | 22.4 | 19.6 | 18.6 | 28.9 | 39.8 | 16.2 |
| Avg | 22.4 | 21.5 | 20.4 | 19.1 | 18.3 | 17.9 | 21.9 | 27.9 | 31.5 | 33.5 | 35.1 | 36.5 | 37.6 | 38.5 | 39.1 | 39.3 | 39.0 | 38.2 | 36.8 | 33.6 | 28.9 | 26.1 | 24.3 | 23.1 | 29.6 | --   | --   |
| Max | 31.9 | 34.8 | 33.7 | 32.9 | 31.8 | 31.2 | 32.2 | 37.0 | 39.8 | 41.7 | 42.9 | 44.0 | 45.0 | 45.7 | 46.2 | 46.5 | 45.9 | 45.1 | 43.6 | 40.1 | 36.9 | 35.0 | 33.9 | 31.6 | --   | 46.5 | --   |
| Min | 13.5 | 12.8 | 12.0 | 10.7 | 9.4  | 10.0 | 15.4 | 22.0 | 25.6 | 26.8 | 28.2 | 29.3 | 30.2 | 30.9 | 31.7 | 32.3 | 32.4 | 31.8 | 30.3 | 26.2 | 20.7 | 18.7 | 15.5 | 15.0 | --   | --   | 9.4  |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Apr 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   | 89  | 86  | 98  | 94  | 84  | 94  | 93  | 119 | 75  | 59  | 192 | 178 | 200 | 230 | 220 | 343 | 81  | 263 | 35  | 54  | 89  | 99  | 87  | 68  | 97  | 343 | 35  |
| 2   | 83  | 105 | 86  | 103 | 103 | 100 | 89  | 92  | 194 | 282 | 255 | 246 | 269 | 253 | 259 | 263 | 272 | 266 | 267 | 255 | 105 | 105 | 94  | 91  | 167 | 282 | 83  |
| 3   | 95  | 99  | 105 | 103 | 95  | 97  | 94  | 89  | 273 | 180 | 232 | 216 | 222 | 223 | 220 | 237 | 231 | 220 | 233 | 253 | 233 | 293 | 54  | 112 | 183 | 293 | 54  |
| 4   | 312 | 310 | 114 | 99  | 102 | 97  | 95  | 86  | 209 | 255 | 256 | 269 | 281 | 300 | 288 | 266 | 262 | 262 | 255 | 284 | 103 | 96  | 100 | 92  | 253 | 312 | 86  |
| 5   | 90  | 96  | 114 | 106 | 103 | 64  | 80  | 89  | 76  | 58  | 56  | 41  | 53  | 28  | 187 | 125 | 309 | 160 | 236 | 119 | 91  | 98  | 102 | 80  | 90  | 309 | 28  |
| 6   | 99  | 91  | 77  | 82  | 91  | 86  | 93  | 107 | 91  | 66  | 104 | 148 | 118 | 134 | 213 | 233 | 237 | 250 | 267 | 17  | 100 | 100 | 85  | 91  | 106 | 267 | 17  |
| 7   | 92  | 87  | 87  | 101 | 102 | 96  | 89  | 91  | 121 | 111 | 340 | 234 | 229 | 231 | 246 | 254 | 238 | 289 | 210 | 102 | 98  | 94  | 97  | 96  | 120 | 340 | 87  |
| 8   | 92  | 93  | 100 | 90  | 90  | 100 | 97  | 101 | 78  | 292 | 221 | 208 | 214 | 247 | 266 | 270 | 272 | 279 | 261 | 246 | 241 | 211 | 230 | 266 | 214 | 292 | 78  |
| 9   | 186 | 101 | 104 | 103 | 103 | 99  | 96  | 77  | 285 | 273 | 311 | 231 | 234 | 262 | 273 | 262 | 285 | 275 | 264 | 246 | 104 | 98  | 94  | 90  | 188 | 311 | 77  |
| 10  | 95  | 100 | 94  | 119 | 84  | 90  | 109 | 82  | 73  | 148 | 78  | 255 | 98  | 313 | 268 | 266 | 249 | 264 | 264 | 197 | 103 | 88  | 90  | 93  | 109 | 313 | 73  |
| 11  | 88  | 96  | 99  | 86  | 94  | 87  | 74  | 91  | 116 | 284 | 277 | 89  | 261 | 241 | 236 | 240 | 247 | 265 | 278 | 195 | 100 | 101 | 91  | 86  | 123 | 284 | 74  |
| 12  | 88  | 96  | 95  | 91  | 87  | 88  | 94  | 85  | 250 | 294 | 355 | 270 | 274 | 253 | 283 | 267 | 281 | 268 | 266 | 34  | 102 | 86  | 87  | 92  | 58  | 355 | 34  |
| 13  | 97  | 85  | 92  | 93  | 90  | 96  | 93  | 98  | 106 | 70  | 58  | 190 | 221 | 211 | 234 | 253 | 266 | 251 | 274 | 254 | 323 | 102 | 103 | 103 | 122 | 323 | 58  |
| 14  | 93  | 105 | 94  | 90  | 96  | 100 | 98  | 93  | 315 | 272 | 254 | 250 | 205 | 218 | 221 | 247 | 240 | 269 | 257 | 272 | 281 | 83  | 102 | 101 | 182 | 315 | 83  |
| 15  | 99  | 102 | 103 | 92  | 87  | 102 | 93  | 84  | 97  | 255 | 293 | 280 | 246 | 259 | 279 | 248 | 247 | 235 | 258 | 294 | 96  | 92  | 95  | 92  | 133 | 294 | 84  |
| 16  | 96  | 94  | 97  | 100 | 93  | 97  | 97  | 99  | 111 | 143 | 98  | 229 | 238 | 276 | 277 | 270 | 284 | 276 | 274 | 104 | 94  | 91  | 88  | 92  | 111 | 284 | 88  |
| 17  | 87  | 79  | 95  | 109 | 103 | 98  | 92  | 91  | 120 | 281 | 309 | 246 | 262 | 251 | 272 | 262 | 272 | 278 | 267 | 284 | 102 | 100 | 92  | 86  | 120 | 309 | 79  |
| 18  | 74  | 90  | 93  | 96  | 90  | 108 | 100 | 95  | 134 | 102 | 313 | 273 | 246 | 244 | 250 | 263 | 240 | 268 | 248 | 258 | 267 | 105 | 103 | 111 | 150 | 313 | 74  |
| 19  | 102 | 103 | 106 | 101 | 97  | 104 | 101 | 115 | 264 | 241 | 233 | 251 | 253 | 244 | 245 | 257 | 259 | 257 | 268 | 201 | 102 | 102 | 98  | 100 | 172 | 268 | 97  |
| 20  | 95  | 90  | 82  | 91  | 100 | 96  | 93  | 101 | 113 | 164 | 258 | 271 | 258 | 276 | 260 | 249 | 266 | 264 | 258 | 261 | 23  | 95  | 88  | 90  | 130 | 276 | 23  |
| 21  | 95  | 91  | 99  | 100 | 85  | 82  | 79  | 103 | 137 | 280 | 255 | 263 | 254 | 266 | 257 | 256 | 263 | 264 | 250 | 38  | 106 | 100 | 92  | 95  | 125 | 280 | 38  |
| 22  | 99  | 95  | 95  | 90  | 98  | 98  | 98  | 81  | 120 | 108 | 75  | 272 | 293 | 314 | 296 | 266 | 277 | 270 | 262 | 326 | 103 | 91  | 88  | 97  | 83  | 326 | 75  |
| 23  | 94  | 100 | 97  | 105 | 98  | 99  | 118 | 92  | 75  | 102 | 123 | 97  | 119 | 143 | 226 | 231 | 249 | 267 | 276 | 260 | 338 | 229 | 230 | 169 | 138 | 338 | 75  |
| 24  | 109 | 102 | 105 | 95  | 102 | 102 | 100 | 113 | 234 | 207 | 216 | 232 | 242 | 254 | 267 | 252 | 271 | 269 | 269 | 251 | 216 | 207 | 202 | 195 | 204 | 271 | 95  |
| 25  | 205 | 208 | 227 | 231 | 224 | 203 | 235 | 258 | 248 | 242 | 240 | 253 | 249 | 249 | 256 | 254 | 257 | 251 | 251 | 257 | 271 | 272 | 256 | 56  | 244 | 272 | 56  |
| 26  | 104 | 105 | 95  | 109 | 88  | 85  | 87  | 98  | 88  | 188 | 284 | 256 | 273 | 248 | 242 | 261 | 269 | 261 | 248 | 246 | 87  | 94  | 86  | 97  | 140 | 284 | 85  |
| 27  | 109 | 94  | 90  | 107 | 93  | 97  | 116 | 97  | 248 | 222 | 210 | 215 | 234 | 245 | 261 | 256 | 273 | 260 | 252 | 259 | 243 | 249 | 55  | 90  | 201 | 273 | 55  |
| 28  | 87  | 192 | 231 | 237 | 261 | 267 | 319 | 254 | 286 | 249 | 262 | 270 | 282 | 270 | 263 | 256 | 266 | 265 | 278 | 276 | 265 | 294 | 331 | 10  | 270 | 331 | 10  |
| 29  | 103 | 113 | 105 | 107 | 99  | 99  | 110 | 87  | 34  | 267 | 248 | 265 | 237 | 282 | 267 | 269 | 258 | 261 | 260 | 244 | 56  | 111 | 97  | 78  | 150 | 282 | 34  |
| 30  | 102 | 88  | 100 | 87  | 99  | 95  | 100 | 116 | 136 | 176 | 259 | 280 | 251 | 263 | 252 | 252 | 248 | 252 | 248 | 216 | 107 | 98  | 91  | 93  | 152 | 280 | 87  |
| Avg | 98  | 99  | 100 | 101 | 97  | 97  | 96  | 97  | 125 | 221 | 261 | 243 | 242 | 253 | 253 | 256 | 262 | 261 | 260 | 257 | 101 | 105 | 95  | 94  | 150 | --  | --  |
| Max | 312 | 310 | 231 | 237 | 261 | 267 | 319 | 258 | 315 | 294 | 355 | 280 | 293 | 314 | 296 | 343 | 309 | 289 | 278 | 326 | 338 | 294 | 331 | 266 | --  | 355 | --  |
| Min | 74  | 79  | 77  | 82  | 84  | 64  | 74  | 77  | 34  | 58  | 56  | 41  | 53  | 28  | 187 | 125 | 81  | 160 | 35  | 17  | 23  | 83  | 54  | 10  | --  | --  | 10  |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: May 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   | 94  | 92  | 88  | 95  | 95  | 97  | 103 | 95  | 125 | 27  | 272 | 270 | 229 | 263 | 276 | 270 | 264 | 258 | 275 | 286 | 101 | 96  | 94  | 83  | 109 | 286 | 27  |
| 2   | 94  | 88  | 94  | 100 | 100 | 97  | 86  | 83  | 289 | 281 | 263 | 263 | 250 | 270 | 258 | 258 | 266 | 269 | 258 | 259 | 104 | 103 | 101 | 89  | 177 | 289 | 83  |
| 3   | 105 | 106 | 99  | 101 | 105 | 95  | 94  | 88  | 75  | 59  | 76  | 63  | 275 | 257 | 243 | 256 | 253 | 235 | 213 | 230 | 120 | 108 | 83  | 90  | 114 | 275 | 59  |
| 4   | 81  | 86  | 96  | 97  | 88  | 87  | 102 | 117 | 82  | 69  | 58  | 76  | 274 | 290 | 13  | 277 | 279 | 241 | 274 | 29  | 99  | 89  | 97  | 84  | 76  | 290 | 13  |
| 5   | 76  | 81  | 95  | 81  | 87  | 100 | 102 | 99  | 69  | 58  | 77  | 111 | 108 | 168 | 217 | 274 | 257 | 225 | 197 | 158 | 184 | 205 | 160 | 155 | 129 | 274 | 58  |
| 6   | 196 | 202 | 89  | 102 | 108 | 87  | 92  | 113 | 128 | 194 | 203 | 196 | 212 | 200 | 200 | 209 | 216 | 222 | 221 | 229 | 223 | 236 | 277 | 225 | 190 | 277 | 87  |
| 7   | 247 | 250 | 105 | 143 | 285 | 157 | 334 | 177 | 262 | 264 | 257 | 275 | 274 | 277 | 266 | 257 | 250 | 229 | 222 | 220 | 199 | 140 | 105 | 128 | 231 | 334 | 105 |
| 8   | 102 | 111 | 108 | 94  | 120 | 109 | 116 | 290 | 280 | 278 | 263 | 269 | 279 | 276 | 263 | 274 | 58  | 174 | 245 | 252 | 231 | 226 | 253 | 239 | 234 | 290 | 58  |
| 9   | 297 | 230 | 179 | 77  | 108 | 106 | 103 | 95  | 205 | 210 | 209 | 224 | 221 | 231 | 263 | 263 | 224 | 119 | 129 | 136 | 102 | 130 | 110 | 108 | 165 | 297 | 77  |
| 10  | 101 | 183 | 162 | 115 | 93  | 106 | 314 | 304 | 285 | 245 | 264 | 273 | 281 | 270 | 257 | 271 | 267 | 272 | 264 | 243 | 180 | 113 | 97  | 93  | 237 | 314 | 93  |
| 11  | 96  | 90  | 98  | 89  | 91  | 94  | 93  | 110 | 260 | 306 | 243 | 274 | 269 | 275 | 280 | 265 | 266 | 273 | 264 | 250 | 54  | 116 | 99  | 94  | 179 | 306 | 54  |
| 12  | 87  | 87  | 96  | 97  | 84  | 92  | 90  | 107 | 137 | 104 | 297 | 250 | 112 | 232 | 269 | 260 | 260 | 256 | 272 | 357 | 90  | 95  | 99  | 96  | 107 | 357 | 84  |
| 13  | 89  | 99  | 109 | 101 | 96  | 98  | 96  | 352 | 53  | 229 | 177 | 236 | 221 | 220 | 244 | 246 | 236 | 232 | 234 | 220 | 218 | 209 | 193 | 215 | 191 | 352 | 53  |
| 14  | 86  | 62  | 96  | 103 | 105 | 105 | 95  | 105 | 169 | 147 | 180 | 210 | 215 | 216 | 226 | 238 | 240 | 232 | 224 | 249 | 258 | 242 | 244 | 223 | 187 | 258 | 62  |
| 15  | 227 | 98  | 100 | 94  | 92  | 100 | 108 | 118 | 175 | 193 | 192 | 209 | 215 | 223 | 226 | 243 | 237 | 237 | 238 | 222 | 218 | 228 | 190 | 172 | 189 | 243 | 92  |
| 16  | 147 | 202 | 211 | 152 | 137 | 167 | 303 | 228 | 221 | 241 | 238 | 235 | 243 | 272 | 253 | 249 | 260 | 255 | 262 | 245 | 160 | 107 | 101 | 104 | 216 | 303 | 101 |
| 17  | 99  | 85  | 93  | 104 | 102 | 96  | 109 | 104 | 153 | 191 | 224 | 217 | 225 | 236 | 245 | 246 | 263 | 258 | 262 | 268 | 263 | 249 | 245 | 219 | 204 | 268 | 85  |
| 18  | 234 | 252 | 297 | 91  | 81  | 95  | 113 | 292 | 251 | 231 | 262 | 278 | 259 | 268 | 262 | 257 | 273 | 271 | 267 | 245 | 239 | 259 | 278 | 272 | 259 | 297 | 81  |
| 19  | 147 | 97  | 97  | 108 | 128 | 167 | 54  | 56  | 65  | 68  | 32  | 19  | 31  | 217 | 244 | 228 | 223 | 232 | 244 | 230 | 159 | 103 | 112 | 115 | 123 | 244 | 19  |
| 20  | 156 | 153 | 322 | 163 | 152 | 170 | 135 | 85  | 60  | 58  | 55  | 157 | 138 | 360 | 175 | 241 | 283 | 279 | 271 | 251 | 49  | 105 | 91  | 98  | 130 | 360 | 49  |
| 21  | 98  | 113 | 145 | 126 | 110 | 151 | 140 | 79  | 70  | 58  | 104 | 186 | 242 | 271 | 261 | 263 | 255 | 256 | 269 | 260 | 70  | 102 | 89  | 81  | 135 | 271 | 58  |
| 22  | 86  | 90  | 105 | 95  | 97  | 82  | 107 | 102 | 38  | 51  | 275 | 260 | 276 | 281 | 260 | 278 | 262 | 260 | 270 | 258 | 23  | 93  | 92  | 90  | 68  | 281 | 23  |
| 23  | 101 | 89  | 97  | 106 | 99  | 88  | 104 | 121 | 66  | 61  | 55  | 284 | 257 | 269 | 254 | 265 | 254 | 257 | 258 | 236 | 93  | 106 | 96  | 85  | 109 | 284 | 55  |
| 24  | 97  | 90  | 88  | 94  | 95  | 97  | 97  | 121 | 114 | 248 | 246 | 258 | 282 | 262 | 227 | 251 | 261 | 271 | 272 | 268 | 251 | 232 | 203 | 204 | 214 | 282 | 88  |
| 25  | 226 | 204 | 85  | 247 | 133 | 200 | 152 | 201 | 213 | 210 | 236 | 241 | 229 | 227 | 217 | 226 | 245 | 261 | 230 | 221 | 212 | 211 | 209 | 196 | 214 | 261 | 85  |
| 26  | 169 | 108 | 94  | 106 | 101 | 95  | 98  | 113 | 174 | 211 | 221 | 216 | 200 | 237 | 234 | 249 | 249 | 241 | 223 | 215 | 218 | 223 | 208 | 94  | 186 | 249 | 94  |
| 27  | 91  | 116 | 98  | 91  | 95  | 89  | 75  | 99  | 112 | 115 | 80  | 275 | 265 | 277 | 263 | 271 | 268 | 251 | 257 | 263 | 101 | 90  | 87  | 84  | 108 | 277 | 75  |
| 28  | 78  | 82  | 91  | 88  | 92  | 82  | 65  | 269 | 274 | 283 | 265 | 247 | 233 | 209 | 242 | 230 | 240 | 239 | 266 | 273 | 110 | 85  | 82  | 101 | 193 | 283 | 65  |
| 29  | 92  | 89  | 93  | 96  | 97  | 72  | 79  | 110 | 114 | 77  | 121 | 152 | 100 | 93  | 3   | 293 | 250 | 258 | 281 | 263 | 112 | 90  | 84  | 88  | 96  | 293 | 3   |
| 30  | 95  | 80  | 126 | 96  | 102 | 101 | 96  | 105 | 109 | 119 | 100 | 138 | 209 | 252 | 245 | 250 | 255 | 272 | 290 | 52  | 64  | 99  | 83  | 74  | 111 | 290 | 52  |
| 31  | 72  | 72  | 93  | 100 | 92  | 93  | 89  | 63  | 66  | 114 | 106 | 150 | 163 | 205 | 242 | 267 | 245 | 233 | 242 | 261 | 260 | 250 | 247 | 288 | 161 | 288 | 63  |
| Avg | 111 | 109 | 103 | 104 | 102 | 106 | 95  | 104 | 127 | 162 | 217 | 232 | 236 | 249 | 250 | 256 | 254 | 247 | 251 | 247 | 153 | 142 | 126 | 121 | 173 | --  | --  |
| Max | 297 | 252 | 322 | 247 | 285 | 200 | 334 | 352 | 289 | 306 | 297 | 284 | 282 | 360 | 280 | 293 | 283 | 279 | 290 | 357 | 263 | 259 | 278 | 288 | --  | 360 | --  |
| Min | 72  | 62  | 85  | 77  | 81  | 72  | 54  | 56  | 38  | 27  | 32  | 19  | 31  | 93  | 3   | 209 | 58  | 119 | 129 | 29  | 23  | 85  | 82  | 74  | --  | --  | 3   |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Jun 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           | 107 | 95  | 89  | 97  | 104 | 90  | 86  | 114 | 141 | 110 | 143 | 203 | 245 | 247 | 256 | 252 | 254 | 255 | 284 | 268 | 310 | 282 | 252 | 271 | 199 | 310 | 86  |
| 2           | 308 | 103 | 106 | 100 | 98  | 94  | 82  | 95  | 267 | 275 | 273 | 269 | 272 | 273 | 267 | 260 | 258 | 268 | 255 | 250 | 347 | 103 | 104 | 89  | 259 | 347 | 82  |
| 3           | 90  | 101 | 88  | 103 | 100 | 92  | 106 | 280 | 291 | 288 | 283 | 271 | 253 | 267 | 273 | 271 | 278 | 245 | 259 | 283 | 128 | 103 | 97  | 104 | 233 | 291 | 88  |
| 4           | 99  | 97  | 95  | 100 | 103 | 90  | 96  | 174 | 75  | 21  | 282 | 268 | 276 | 266 | 276 | 259 | 266 | 267 | 270 | 271 | 312 | 106 | 102 | 101 | 138 | 312 | 21  |
| 5           | 95  | 101 | 97  | 98  | 97  | 94  | 106 | 81  | 302 | 281 | 241 | 266 | 255 | 270 | 257 | 266 | 269 | 266 | 268 | 274 | 293 | 111 | 95  | 87  | 234 | 302 | 81  |
| 6           | 95  | 105 | 98  | 109 | 93  | 101 | 90  | 69  | 286 | 272 | 273 | 261 | 242 | 256 | 248 | 261 | 266 | 271 | 276 | 279 | 288 | 250 | 101 | 97  | 244 | 288 | 69  |
| 7           | 100 | 98  | 103 | 92  | 101 | 87  | 103 | 182 | 284 | 288 | 284 | 263 | 277 | 258 | 247 | 260 | 268 | 275 | 276 | 272 | 268 | 34  | 98  | 97  | 250 | 288 | 34  |
| 8           | 82  | 98  | 101 | 98  | 119 | 101 | 102 | 150 | 247 | 228 | 223 | 245 | 266 | 272 | 273 | 273 | 266 | 273 | 274 | 283 | 153 | 99  | 85  | 95  | 185 | 283 | 82  |
| 9           | 87  | 98  | 88  | 81  | 94  | 96  | 86  | 97  | 274 | 249 | 261 | 264 | 288 | 266 | 256 | 260 | 268 | 255 | 274 | 281 | 280 | 134 | 107 | 250 | 243 | 288 | 81  |
| 10          | 259 | 106 | 101 | 93  | 98  | 101 | 80  | 107 | 126 | 178 | 201 | 215 | 211 | 221 | 227 | 215 | 228 | 233 | 226 | 240 | 219 | 207 | 212 | 209 | 188 | 259 | 80  |
| 11          | 215 | 180 | 175 | 86  | 103 | 94  | 106 | 45  | 153 | 186 | 219 | 209 | 215 | 211 | 214 | 218 | 229 | 221 | 249 | 247 | 244 | 224 | 228 | 220 | 200 | 249 | 45  |
| 12          | 126 | 73  | 108 | 70  | 98  | 79  | 96  | 333 | 240 | 221 | 241 | 220 | 250 | 222 | 238 | 233 | 246 | 231 | 266 | 272 | 274 | 281 | 126 | 99  | 215 | 333 | 70  |
| 13          | 102 | 100 | 95  | 96  | 99  | 95  | 100 | 107 | 109 | 262 | 172 | 158 | 235 | 279 | 262 | 268 | 260 | 265 | 261 | 254 | 91  | 103 | 93  | 90  | 139 | 279 | 90  |
| 14          | 95  | 90  | 84  | 86  | 84  | 83  | 78  | 104 | 258 | 187 | 267 | 252 | 252 | 285 | 286 | 270 | 273 | 272 | 261 | 281 | 84  | 99  | 85  | 86  | 130 | 286 | 78  |
| 15          | 98  | 88  | 91  | 88  | 92  | 91  | 87  | 88  | 264 | 284 | 265 | 275 | 258 | 275 | 251 | 273 | 259 | 263 | 279 | 276 | 102 | 90  | 87  | 98  | 169 | 284 | 87  |
| 16          | 88  | 84  | 91  | 99  | 98  | 100 | 89  | 126 | 265 | 273 | 254 | 261 | 241 | 250 | 273 | 273 | 256 | 274 | 275 | 248 | 103 | 96  | 84  | 85  | 178 | 275 | 84  |
| 17          | 97  | 103 | 89  | 90  | 96  | 101 | 93  | 117 | 256 | 290 | 260 | 268 | 267 | 262 | 262 | 259 | 268 | 269 | 267 | 283 | 97  | 98  | 100 | 99  | 181 | 290 | 89  |
| 18          | 98  | 92  | 105 | 104 | 99  | 90  | 84  | 91  | 264 | 263 | 270 | 273 | 282 | 274 | 277 | 263 | 269 | 268 | 268 | 266 | 89  | 100 | 93  | 81  | 184 | 282 | 81  |
| 19          | 95  | 89  | 86  | 93  | 95  | 100 | 112 | 90  | 234 | 296 | 280 | 268 | 273 | 265 | 269 | 272 | 266 | 264 | 272 | 292 | 357 | 98  | 103 | 93  | 279 | 357 | 86  |
| 20          | 106 | 166 | 93  | 99  | 83  | 96  | 106 | 101 | 78  | 121 | 132 | 148 | 304 | 245 | 281 | 276 | 277 | 344 | 349 | 90  | 96  | 108 | 102 | 96  | 101 | 349 | 78  |
| 21          | 94  | 89  | 107 | 110 | 92  | 96  | 100 | 83  | 175 | 274 | 267 | 251 | 241 | 255 | 257 | 278 | 272 | 270 | 267 | 258 | 210 | 148 | 106 | 95  | 188 | 278 | 83  |
| 22          | 109 | 101 | 89  | 95  | 104 | 106 | 104 | 84  | 246 | 217 | 226 | 236 | 254 | 260 | 251 | 261 | 257 | 278 | 270 | 267 | 281 | 341 | 44  | 88  | 223 | 341 | 44  |
| 23          | 234 | 176 | 110 | 104 | 106 | 94  | 81  | 61  | 7   | 273 | 223 | 243 | 258 | 249 | 246 | 259 | 263 | 269 | 285 | 282 | 309 | 104 | 94  | 102 | 228 | 309 | 7   |
| 24          | 101 | 102 | 105 | 101 | 91  | 105 | 88  | 113 | 105 | 358 | 253 | 286 | 285 | 259 | 254 | 273 | 271 | 274 | 275 | 284 | 142 | 91  | 97  | 92  | 119 | 358 | 88  |
| 25          | 107 | 91  | 94  | 87  | 87  | 84  | 72  | 93  | 116 | 110 | 123 | 138 | 153 | 266 | 245 | 256 | 266 | 277 | 279 | 335 | 68  | 81  | 118 | 105 | 106 | 335 | 68  |
| 26          | 97  | 92  | 87  | 97  | 109 | 109 | 105 | 96  | 100 | 167 | 233 | 261 | 229 | 250 | 255 | 254 | 250 | 263 | 267 | 258 | 157 | 110 | 99  | 81  | 156 | 267 | 81  |
| 27          | 95  | 103 | 99  | 104 | 102 | 94  | 99  | 25  | 198 | 202 | 193 | 224 | 235 | 244 | 259 | 260 | 261 | 257 | 255 | 246 | 173 | 102 | 107 | 99  | 171 | 261 | 25  |
| 28          | 91  | 94  | 101 | 97  | 97  | 107 | 81  | 167 | 228 | 232 | 241 | 236 | 231 | 236 | 256 | 259 | 264 | 265 | 275 | 276 | 89  | 98  | 103 | 98  | 177 | 276 | 81  |
| 29          | 87  | 98  | 111 | 134 | 99  | 99  | 95  | 97  | 79  | 188 | 221 | 247 | 246 | 282 | 233 | 243 | 283 | 287 | 306 | 296 | 112 | 102 | 94  | 98  | 139 | 306 | 79  |
| 30          | 100 | 106 | 99  | 96  | 92  | 100 | 79  | 95  | 62  | 332 | 270 | 276 | 273 | 269 | 279 | 261 | 236 | 236 | 225 | 212 | 96  | 104 | 87  | 81  | 122 | 332 | 62  |
| Avg         | 101 | 102 | 99  | 97  | 98  | 96  | 93  | 99  | 227 | 249 | 242 | 246 | 254 | 258 | 258 | 260 | 262 | 265 | 270 | 270 | 125 | 106 | 102 | 99  | 179 | --  | --  |
| Max         | 308 | 180 | 175 | 134 | 119 | 109 | 112 | 333 | 302 | 358 | 284 | 286 | 304 | 285 | 286 | 278 | 283 | 344 | 349 | 335 | 357 | 341 | 252 | 271 | --  | 358 | --  |
| Min         | 82  | 73  | 84  | 70  | 83  | 79  | 72  | 25  | 7   | 21  | 123 | 138 | 153 | 211 | 214 | 215 | 228 | 221 | 225 | 90  | 68  | 34  | 44  | 81  | --  | --  | 7   |



**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WD\_20m"**  
**Month: Apr 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           | 101 | 93 | 96 | 91 | 86  | 92 | 100 | 111 | 73  | 58  | 155 | 135 | 167 | 195 | 182 | 334 | 94 | 230 | 31 | 52 | 86 | 115 | 111 | 96 | 103 | 334 | 31  |
| 2           | 91  | 84 | 94 | 99 | 104 | 85 | 91  | 91  | 164 | 252 | 212 | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | 110 | 252 | 84  |
| 3           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 4           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 5           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 6           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 7           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 8           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 9           | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 10          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 11          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 12          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 13          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 14          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 15          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 16          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 17          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 18          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 19          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 20          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 21          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 22          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 23          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 24          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 25          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 26          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 27          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 28          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 29          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| 30          | --  | -- | -- | -- | --  | -- | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | -- | --  | -- | -- | -- | --  | --  | -- | --  | --  | --  |
| Avg         | 96  | 89 | 95 | 95 | 95  | 88 | 96  | 101 | 119 | 335 | 183 | 135 | 167 | 195 | 182 | 334 | 94 | 230 | 31 | 52 | 86 | 115 | 111 | 96 | 105 | --  | --  |
| Max         | 101 | 93 | 96 | 99 | 104 | 92 | 100 | 111 | 164 | 252 | 212 | 135 | 167 | 195 | 182 | 334 | 94 | 230 | 31 | 52 | 86 | 115 | 111 | 96 | --  | 334 | --  |
| Min         | 91  | 84 | 94 | 91 | 86  | 85 | 91  | 91  | 73  | 58  | 155 | 135 | 167 | 195 | 182 | 334 | 94 | 230 | 31 | 52 | 86 | 115 | 111 | 96 | --  | --  | 31  |

-- Indicates Invalid Data

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WD\_20m"**  
**Month: May 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          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 12          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 13          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 14          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 15          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 16          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 17          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 18          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 19          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 20          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 21          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 22          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 23          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 24          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 25          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 26          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 27          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 28          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 29          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 30          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| 31          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| Avg         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| Max         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |
| Min         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |

-- Indicates Invalid Data

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WD\_20m"**  
**Month: Jun 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          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 12          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 13          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 14          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 15          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 16          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 17          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 18          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 19          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 20          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 21          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 22          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 23          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 24          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 25          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 26          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 27          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 28          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 29          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 30          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Avg         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Max         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Min         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |

-- Indicates Invalid Data

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Apr 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 | 1.1 | 0.9 | 1.0 | 0.9 | 0.9 | 1.8 | 1.4 | 2.8 | 2.2 | 1.7 | 1.4 | 2.2 | 2.6 | 2.3 | 2.5 | 1.5 | 1.0 | 1.7 | 1.9 | 1.5 | 1.6 | 1.2 | 0.9 | 1.6 | 2.8 | 0.9 |
| 2           | 1.2 | 0.6 | 0.7 | 0.8 | 1.1 | 0.8 | 0.8 | 1.1 | 0.6 | 3.2 | 3.6 | 3.2 | 3.8 | 4.3 | 4.1 | 3.8 | 4.0 | 4.0 | 2.5 | 0.8 | 1.3 | 1.4 | 0.9 | 1.2 | 2.1 | 4.3 | 0.6 |
| 3           | 1.0 | 1.2 | 1.2 | 0.8 | 1.2 | 1.1 | 1.1 | 0.9 | 0.5 | 1.8 | 1.9 | 2.4 | 2.8 | 4.5 | 3.3 | 4.6 | 5.2 | 5.2 | 5.3 | 3.9 | 4.1 | 5.1 | 1.2 | 1.2 | 2.6 | 5.3 | 0.5 |
| 4           | 0.5 | 1.5 | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 1.3 | 0.8 | 2.6 | 3.3 | 3.6 | 4.7 | 4.1 | 4.8 | 4.0 | 3.2 | 3.1 | 2.2 | 0.8 | 1.5 | 1.0 | 1.1 | 1.0 | 2.1 | 4.8 | 0.5 |
| 5           | 1.2 | 1.2 | 1.6 | 2.6 | 2.8 | 4.9 | 4.2 | 4.6 | 4.9 | 5.0 | 4.8 | 3.7 | 3.0 | 2.2 | 1.8 | 1.4 | 1.4 | 0.9 | 0.3 | 0.7 | 1.0 | 1.0 | 1.1 | 0.9 | 2.4 | 5.0 | 0.3 |
| 6           | 1.2 | 1.0 | 0.9 | 1.6 | 1.4 | 1.7 | 2.1 | 2.3 | 2.4 | 2.3 | 1.6 | 1.8 | 1.7 | 1.9 | 2.6 | 2.6 | 3.2 | 2.9 | 2.3 | 0.8 | 1.2 | 1.1 | 1.1 | 0.8 | 1.8 | 3.2 | 0.8 |
| 7           | 1.3 | 1.3 | 1.2 | 1.0 | 1.6 | 1.4 | 1.1 | 0.9 | 0.7 | 0.6 | 1.6 | 2.3 | 2.6 | 2.0 | 3.0 | 2.8 | 2.2 | 1.4 | 0.5 | 1.1 | 0.9 | 1.3 | 0.9 | 1.2 | 1.5 | 3.0 | 0.5 |
| 8           | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 0.7 | 0.6 | 0.6 | 1.8 | 2.5 | 3.2 | 3.9 | 3.7 | 3.7 | 3.9 | 4.4 | 2.7 | 2.5 | 2.2 | 1.8 | 2.2 | 1.5 | 2.1 | 4.4 | 0.6 |
| 9           | 0.7 | 1.0 | 1.8 | 1.5 | 1.4 | 1.4 | 1.2 | 0.8 | 1.4 | 2.1 | 2.1 | 2.7 | 2.9 | 2.7 | 2.6 | 2.7 | 2.8 | 3.2 | 2.2 | 0.6 | 1.2 | 1.3 | 1.2 | 1.0 | 1.8 | 3.2 | 0.6 |
| 10          | 1.1 | 0.9 | 1.2 | 0.8 | 1.3 | 0.9 | 0.7 | 1.1 | 1.0 | 1.4 | 1.4 | 1.9 | 1.7 | 2.1 | 2.7 | 2.9 | 2.8 | 2.3 | 1.5 | 0.7 | 1.5 | 1.2 | 1.1 | 1.1 | 1.5 | 2.9 | 0.7 |
| 11          | 1.1 | 1.4 | 1.4 | 1.2 | 1.3 | 0.8 | 0.9 | 2.1 | 0.9 | 1.3 | 1.8 | 1.4 | 2.0 | 2.8 | 3.4 | 3.2 | 3.0 | 3.3 | 2.2 | 0.5 | 1.0 | 1.5 | 1.4 | 1.1 | 1.7 | 3.4 | 0.5 |
| 12          | 1.1 | 0.9 | 0.9 | 1.1 | 1.1 | 1.0 | 1.1 | 0.8 | 0.3 | 0.9 | 1.3 | 2.5 | 2.9 | 2.5 | 2.4 | 2.7 | 3.1 | 3.1 | 2.0 | 0.7 | 1.3 | 1.1 | 1.0 | 1.3 | 1.5 | 3.1 | 0.3 |
| 13          | 1.5 | 1.1 | 0.8 | 1.3 | 1.1 | 1.1 | 0.8 | 0.6 | 0.8 | 0.9 | 1.0 | 1.4 | 2.8 | 3.9 | 4.6 | 4.0 | 3.1 | 2.7 | 2.4 | 1.0 | 0.8 | 1.3 | 1.6 | 1.6 | 1.8 | 4.6 | 0.6 |
| 14          | 1.3 | 0.9 | 1.0 | 0.9 | 1.0 | 1.2 | 1.4 | 0.9 | 0.7 | 2.6 | 3.3 | 2.5 | 3.0 | 3.4 | 3.5 | 3.3 | 3.1 | 2.4 | 2.3 | 0.9 | 1.0 | 1.1 | 1.4 | 1.0 | 1.8 | 3.5 | 0.7 |
| 15          | 0.9 | 1.0 | 1.0 | 0.8 | 1.1 | 1.1 | 0.7 | 1.2 | 0.4 | 0.8 | 1.8 | 2.7 | 2.7 | 2.6 | 2.9 | 2.7 | 2.5 | 1.9 | 1.8 | 0.7 | 1.2 | 1.2 | 1.3 | 1.0 | 1.5 | 2.9 | 0.4 |
| 16          | 1.4 | 1.3 | 1.2 | 1.1 | 1.1 | 1.1 | 1.3 | 1.1 | 1.2 | 1.1 | 0.9 | 2.1 | 1.9 | 2.6 | 3.2 | 2.9 | 3.3 | 2.9 | 2.0 | 0.4 | 1.0 | 1.2 | 0.8 | 0.9 | 1.6 | 3.3 | 0.4 |
| 17          | 1.0 | 1.0 | 0.9 | 0.9 | 1.2 | 1.2 | 1.1 | 0.7 | 0.4 | 2.2 | 2.1 | 2.0 | 2.7 | 2.8 | 3.1 | 2.9 | 3.5 | 3.4 | 2.3 | 0.7 | 1.4 | 1.2 | 0.9 | 0.8 | 1.7 | 3.5 | 0.4 |
| 18          | 1.1 | 1.1 | 1.1 | 0.9 | 1.1 | 1.0 | 1.0 | 0.8 | 0.7 | 1.0 | 1.8 | 2.9 | 3.3 | 3.7 | 3.8 | 4.3 | 4.3 | 3.5 | 2.7 | 2.5 | 1.2 | 1.2 | 1.5 | 1.2 | 2.0 | 4.3 | 0.7 |
| 19          | 1.4 | 1.1 | 1.0 | 1.0 | 1.1 | 1.2 | 1.0 | 0.7 | 1.2 | 2.6 | 2.1 | 3.0 | 2.8 | 3.0 | 3.5 | 3.9 | 3.3 | 3.0 | 2.3 | 0.6 | 0.9 | 1.2 | 1.0 | 1.2 | 1.8 | 3.9 | 0.6 |
| 20          | 1.2 | 1.0 | 1.0 | 1.1 | 1.0 | 0.9 | 1.2 | 1.0 | 0.9 | 1.2 | 2.3 | 2.8 | 3.3 | 3.2 | 3.9 | 3.8 | 3.7 | 3.4 | 3.0 | 1.5 | 0.7 | 2.0 | 1.2 | 1.2 | 1.9 | 3.9 | 0.7 |
| 21          | 1.2 | 0.9 | 1.1 | 1.1 | 1.1 | 1.3 | 1.0 | 1.5 | 0.8 | 2.3 | 3.1 | 2.8 | 2.5 | 2.8 | 3.4 | 3.5 | 4.2 | 4.1 | 2.6 | 0.7 | 1.3 | 1.6 | 1.1 | 1.6 | 2.0 | 4.2 | 0.7 |
| 22          | 1.3 | 1.2 | 1.2 | 1.2 | 0.9 | 1.3 | 1.0 | 1.2 | 1.9 | 1.4 | 1.3 | 2.2 | 2.1 | 2.4 | 2.1 | 2.8 | 3.1 | 2.7 | 2.0 | 0.6 | 1.5 | 1.0 | 1.1 | 1.1 | 1.6 | 3.1 | 0.6 |
| 23          | 1.4 | 1.3 | 1.5 | 1.3 | 1.6 | 1.8 | 2.3 | 2.5 | 3.3 | 3.8 | 3.9 | 3.1 | 2.0 | 2.7 | 3.1 | 4.3 | 3.5 | 2.9 | 2.5 | 0.7 | 1.1 | 2.7 | 1.9 | 1.3 | 2.4 | 4.3 | 0.7 |
| 24          | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 | 0.6 | 2.1 | 4.2 | 5.1 | 4.6 | 4.4 | 4.3 | 4.6 | 4.7 | 5.0 | 4.5 | 4.0 | 2.4 | 0.8 | 3.2 | 2.9 | 2.1 | 2.7 | 5.1 | 0.6 |
| 25          | 3.1 | 2.6 | 1.9 | 1.8 | 1.7 | 3.1 | 3.2 | 2.7 | 3.7 | 3.5 | 3.3 | 4.2 | 4.2 | 5.0 | 4.6 | 4.9 | 5.0 | 5.3 | 5.1 | 5.5 | 5.7 | 4.3 | 1.6 | 0.9 | 3.6 | 5.7 | 0.9 |
| 26          | 1.2 | 1.0 | 1.3 | 1.3 | 1.8 | 0.9 | 1.0 | 2.1 | 2.4 | 1.9 | 2.1 | 2.1 | 2.5 | 3.6 | 4.7 | 4.6 | 4.7 | 2.8 | 2.5 | 1.5 | 0.5 | 1.2 | 1.0 | 1.0 | 2.1 | 4.7 | 0.5 |
| 27          | 0.7 | 1.0 | 0.5 | 0.6 | 0.8 | 0.7 | 0.8 | 0.6 | 2.2 | 2.7 | 2.5 | 2.7 | 4.0 | 4.5 | 4.9 | 4.7 | 5.1 | 4.1 | 3.6 | 2.2 | 2.6 | 2.7 | 0.9 | 0.8 | 2.3 | 5.1 | 0.5 |
| 28          | 0.7 | 2.2 | 1.6 | 1.9 | 1.6 | 0.7 | 0.8 | 2.2 | 1.8 | 3.2 | 4.4 | 4.9 | 5.2 | 6.3 | 6.6 | 6.4 | 6.9 | 7.3 | 8.6 | 7.0 | 5.1 | 3.0 | 2.7 | 1.8 | 3.9 | 8.6 | 0.7 |
| 29          | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 0.9 | 0.6 | 1.7 | 2.1 | 2.0 | 2.7 | 3.6 | 4.1 | 4.5 | 4.0 | 3.8 | 4.1 | 3.0 | 4.0 | 2.0 | 0.2 | 1.5 | 1.0 | 0.4 | 2.1 | 4.5 | 0.2 |
| 30          | 0.6 | 0.8 | 0.6 | 1.4 | 1.4 | 1.9 | 2.3 | 2.1 | 1.5 | 1.7 | 3.1 | 2.5 | 3.3 | 3.3 | 3.5 | 3.2 | 3.1 | 3.3 | 2.6 | 1.0 | 1.4 | 0.9 | 0.8 | 1.1 | 2.0 | 3.5 | 0.6 |
| Avg         | 1.1 | 1.2 | 1.1 | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.5 | 2.1 | 2.5 | 2.7 | 3.0 | 3.3 | 3.6 | 3.6 | 3.6 | 3.3 | 2.7 | 1.6 | 1.6 | 1.7 | 1.3 | 1.1 | 2.0 | --  | --  |
| Max         | 3.1 | 2.6 | 1.9 | 2.6 | 2.8 | 4.9 | 4.2 | 4.6 | 4.9 | 5.0 | 5.1 | 4.9 | 5.2 | 6.3 | 6.6 | 6.4 | 6.9 | 7.3 | 8.6 | 7.0 | 5.7 | 5.1 | 2.9 | 2.1 | --  | 8.6 | --  |
| Min         | 0.5 | 0.6 | 0.5 | 0.6 | 0.8 | 0.7 | 0.6 | 0.6 | 0.3 | 0.6 | 0.9 | 1.4 | 1.7 | 1.9 | 1.8 | 1.4 | 1.4 | 0.9 | 0.3 | 0.4 | 0.2 | 0.9 | 0.8 | 0.4 | --  | --  | 0.2 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: May 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 | 1.2 | 1.1 | 1.4 | 0.9 | 1.1 | 0.9 | 0.8 | 0.7 | 0.9 | 2.6 | 2.5 | 2.8 | 3.4 | 3.3 | 3.3 | 3.7 | 3.5 | 3.0 | 0.8 | 0.9 | 1.4 | 0.9 | 0.9 | 1.8 | 3.7 | 0.7 |
| 2           | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 0.4 | 1.2 | 2.6 | 2.6 | 3.2 | 3.2 | 3.8 | 4.2 | 4.1 | 4.0 | 3.4 | 2.5 | 1.1 | 1.1 | 1.4 | 0.8 | 0.8 | 2.0 | 4.2 | 0.4 |
| 3           | 1.1 | 1.0 | 0.9 | 1.2 | 0.9 | 0.8 | 1.3 | 0.9 | 2.8 | 3.8 | 2.0 | 2.0 | 2.4 | 3.0 | 2.9 | 2.8 | 2.3 | 2.9 | 4.1 | 3.1 | 1.3 | 1.4 | 0.9 | 1.4 | 2.0 | 4.1 | 0.8 |
| 4           | 1.3 | 2.2 | 2.2 | 1.2 | 1.3 | 1.1 | 2.7 | 2.5 | 3.2 | 3.6 | 3.3 | 2.3 | 1.5 | 1.9 | 1.8 | 2.8 | 3.3 | 3.1 | 2.7 | 0.8 | 1.1 | 1.1 | 1.0 | 0.8 | 2.0 | 3.6 | 0.8 |
| 5           | 1.1 | 1.1 | 1.1 | 1.0 | 1.4 | 2.0 | 2.2 | 2.6 | 3.9 | 3.9 | 3.4 | 3.8 | 3.9 | 2.8 | 2.6 | 2.7 | 3.5 | 3.4 | 3.4 | 2.9 | 2.1 | 2.5 | 1.3 | 1.8 | 2.5 | 3.9 | 1.0 |
| 6           | 2.6 | 2.4 | 0.9 | 0.7 | 1.0 | 1.0 | 0.9 | 0.9 | 1.6 | 3.5 | 4.9 | 5.0 | 4.7 | 4.6 | 5.2 | 6.5 | 6.4 | 6.4 | 6.4 | 5.3 | 3.9 | 2.1 | 1.2 | 1.5 | 3.3 | 6.5 | 0.7 |
| 7           | 2.3 | 1.1 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 1.8 | 4.0 | 4.6 | 4.9 | 5.3 | 5.2 | 4.6 | 4.1 | 3.4 | 3.3 | 2.5 | 1.5 | 1.1 | 0.6 | 0.8 | 0.6 | 2.3 | 5.3 | 0.4 |
| 8           | 1.1 | 0.9 | 1.3 | 0.4 | 0.7 | 0.6 | 0.5 | 1.3 | 2.3 | 2.9 | 3.1 | 3.6 | 3.1 | 2.9 | 3.2 | 3.4 | 3.1 | 2.0 | 3.8 | 3.2 | 3.6 | 4.7 | 2.4 | 1.7 | 2.3 | 4.7 | 0.4 |
| 9           | 1.3 | 1.1 | 1.4 | 1.3 | 0.9 | 0.7 | 0.9 | 0.7 | 1.8 | 1.9 | 2.3 | 3.1 | 2.5 | 2.7 | 3.4 | 3.0 | 2.5 | 4.6 | 2.8 | 1.6 | 0.7 | 0.7 | 0.5 | 1.0 | 1.8 | 4.6 | 0.5 |
| 10          | 1.0 | 0.5 | 0.3 | 0.5 | 0.5 | 0.6 | 0.5 | 1.3 | 2.3 | 2.5 | 3.0 | 3.5 | 3.4 | 3.1 | 3.2 | 3.3 | 3.0 | 3.7 | 3.0 | 1.9 | 0.6 | 1.2 | 1.1 | 0.7 | 1.9 | 3.7 | 0.3 |
| 11          | 0.9 | 1.0 | 1.1 | 1.1 | 1.1 | 0.9 | 1.2 | 1.0 | 0.8 | 1.3 | 1.9 | 2.5 | 3.0 | 3.6 | 4.3 | 4.1 | 3.9 | 3.9 | 3.1 | 2.1 | 0.5 | 0.9 | 0.9 | 1.1 | 1.9 | 4.3 | 0.5 |
| 12          | 0.7 | 1.2 | 1.3 | 0.9 | 1.2 | 1.1 | 1.0 | 1.1 | 1.2 | 1.3 | 2.0 | 2.4 | 2.4 | 2.8 | 4.0 | 3.2 | 3.4 | 3.4 | 2.7 | 0.2 | 0.7 | 0.9 | 0.9 | 0.6 | 1.7 | 4.0 | 0.2 |
| 13          | 0.7 | 1.1 | 0.7 | 0.6 | 1.4 | 0.7 | 1.0 | 0.6 | 1.0 | 1.7 | 2.4 | 2.7 | 3.8 | 4.5 | 4.2 | 4.7 | 4.8 | 4.5 | 4.2 | 4.1 | 3.9 | 1.9 | 2.0 | 1.1 | 2.4 | 4.8 | 0.6 |
| 14          | 0.3 | 0.6 | 0.7 | 0.6 | 0.6 | 1.1 | 0.9 | 0.9 | 2.8 | 3.5 | 3.4 | 3.8 | 4.4 | 3.7 | 3.2 | 3.2 | 2.8 | 3.2 | 3.3 | 3.7 | 3.0 | 2.3 | 1.2 | 2.5 | 2.3 | 4.4 | 0.3 |
| 15          | 2.2 | 0.7 | 1.3 | 1.0 | 1.0 | 1.3 | 1.0 | 1.6 | 3.3 | 3.7 | 5.3 | 5.2 | 4.5 | 4.9 | 6.0 | 6.0 | 6.1 | 6.1 | 5.3 | 3.3 | 2.9 | 2.9 | 1.6 | 1.7 | 3.3 | 6.1 | 0.7 |
| 16          | 1.2 | 2.1 | 2.1 | 0.9 | 1.1 | 0.5 | 0.6 | 2.4 | 2.7 | 2.6 | 2.9 | 2.9 | 3.7 | 3.8 | 4.6 | 4.2 | 4.6 | 3.7 | 3.4 | 2.4 | 0.6 | 1.3 | 0.9 | 1.1 | 2.4 | 4.6 | 0.5 |
| 17          | 1.0 | 1.0 | 0.8 | 0.7 | 0.8 | 1.3 | 0.8 | 0.4 | 1.5 | 2.0 | 1.7 | 2.3 | 3.2 | 3.4 | 4.0 | 4.5 | 4.2 | 4.0 | 4.1 | 3.1 | 3.8 | 3.9 | 3.0 | 2.4 | 2.4 | 4.5 | 0.4 |
| 18          | 1.7 | 1.1 | 0.6 | 0.5 | 0.5 | 0.7 | 0.8 | 0.4 | 1.8 | 2.5 | 2.9 | 4.0 | 4.6 | 5.2 | 5.9 | 4.9 | 5.0 | 4.7 | 4.2 | 2.4 | 2.4 | 2.1 | 2.1 | 2.1 | 2.6 | 5.9 | 0.4 |
| 19          | 0.9 | 1.3 | 1.3 | 1.8 | 1.8 | 1.3 | 4.7 | 6.0 | 5.0 | 3.7 | 2.2 | 2.4 | 2.0 | 2.0 | 2.5 | 2.7 | 3.5 | 4.3 | 3.9 | 2.7 | 1.2 | 0.9 | 1.0 | 1.2 | 2.5 | 6.0 | 0.9 |
| 20          | 2.0 | 1.6 | 0.6 | 2.3 | 2.4 | 1.5 | 1.9 | 3.9 | 4.5 | 3.8 | 3.4 | 2.2 | 1.8 | 2.4 | 2.0 | 2.8 | 1.7 | 2.8 | 3.6 | 2.2 | 1.0 | 1.1 | 0.9 | 1.1 | 2.2 | 4.5 | 0.6 |
| 21          | 2.2 | 2.5 | 2.3 | 2.0 | 2.0 | 2.1 | 2.2 | 2.8 | 4.2 | 3.3 | 2.0 | 2.4 | 3.2 | 3.0 | 3.1 | 3.5 | 3.7 | 3.8 | 3.0 | 1.6 | 0.9 | 1.6 | 1.1 | 0.7 | 2.5 | 4.2 | 0.7 |
| 22          | 0.9 | 1.0 | 0.8 | 1.1 | 1.1 | 1.6 | 2.9 | 1.8 | 2.7 | 2.8 | 2.7 | 2.9 | 2.7 | 3.3 | 4.2 | 4.4 | 4.5 | 4.8 | 4.2 | 2.2 | 0.7 | 1.3 | 1.0 | 0.9 | 2.4 | 4.8 | 0.7 |
| 23          | 1.2 | 1.3 | 1.9 | 2.6 | 1.7 | 1.0 | 1.8 | 1.8 | 2.9 | 2.7 | 2.3 | 2.1 | 3.4 | 3.8 | 3.9 | 3.8 | 3.8 | 3.9 | 3.1 | 1.9 | 0.6 | 1.5 | 1.0 | 1.3 | 2.3 | 3.9 | 0.6 |
| 24          | 1.2 | 1.4 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 0.3 | 0.6 | 1.2 | 1.9 | 2.3 | 3.4 | 4.0 | 3.7 | 4.5 | 4.6 | 4.4 | 4.4 | 4.3 | 3.7 | 2.7 | 2.2 | 2.4 | 2.4 | 4.6 | 0.3 |
| 25          | 1.5 | 0.5 | 0.8 | 1.2 | 0.6 | 2.0 | 1.1 | 3.1 | 4.4 | 4.1 | 3.9 | 3.6 | 3.8 | 4.4 | 4.8 | 4.5 | 4.9 | 4.3 | 4.9 | 4.7 | 3.6 | 3.0 | 3.2 | 2.3 | 3.1 | 4.9 | 0.5 |
| 26          | 0.5 | 0.9 | 0.8 | 0.9 | 1.0 | 1.0 | 1.4 | 0.9 | 2.4 | 4.0 | 4.0 | 4.4 | 4.9 | 5.2 | 5.2 | 4.7 | 5.3 | 4.6 | 3.5 | 3.9 | 3.7 | 3.3 | 2.4 | 1.2 | 2.9 | 5.3 | 0.5 |
| 27          | 0.6 | 0.5 | 0.8 | 0.8 | 1.1 | 1.1 | 0.7 | 1.0 | 1.1 | 1.6 | 1.9 | 2.2 | 2.9 | 3.0 | 3.2 | 3.1 | 3.5 | 3.2 | 2.9 | 1.4 | 0.8 | 1.3 | 1.0 | 1.0 | 1.7 | 3.5 | 0.5 |
| 28          | 0.9 | 1.0 | 1.1 | 1.0 | 1.1 | 1.0 | 0.7 | 0.3 | 1.1 | 2.5 | 3.0 | 2.6 | 2.3 | 3.0 | 3.0 | 3.1 | 2.8 | 2.8 | 2.3 | 1.2 | 0.9 | 0.9 | 0.9 | 1.0 | 1.7 | 3.1 | 0.3 |
| 29          | 1.1 | 1.2 | 0.8 | 1.2 | 1.0 | 1.0 | 1.1 | 1.3 | 1.8 | 2.5 | 2.8 | 2.0 | 2.0 | 2.3 | 2.4 | 3.1 | 3.9 | 3.5 | 2.9 | 0.9 | 0.6 | 1.1 | 0.9 | 1.0 | 1.8 | 3.9 | 0.6 |
| 30          | 0.9 | 0.8 | 0.5 | 1.1 | 1.1 | 1.4 | 1.1 | 1.8 | 4.1 | 3.6 | 3.9 | 2.5 | 3.2 | 3.1 | 3.9 | 4.4 | 4.6 | 3.8 | 2.0 | 5.3 | 5.9 | 3.8 | 3.5 | 3.1 | 2.9 | 5.9 | 0.5 |
| 31          | 2.1 | 1.7 | 1.8 | 1.9 | 2.1 | 2.3 | 2.4 | 3.4 | 3.5 | 3.3 | 3.5 | 2.2 | 2.4 | 2.9 | 3.6 | 3.1 | 3.3 | 3.1 | 2.7 | 2.4 | 3.8 | 4.4 | 2.6 | 1.1 | 2.7 | 4.4 | 1.1 |
| Avg         | 1.3 | 1.2 | 1.1 | 1.1 | 1.1 | 1.2 | 1.3 | 1.6 | 2.4 | 2.8 | 3.0 | 3.0 | 3.2 | 3.5 | 3.7 | 3.8 | 3.9 | 3.8 | 3.5 | 2.5 | 2.0 | 1.9 | 1.5 | 1.4 | 2.3 | --  | --  |
| Max         | 2.6 | 2.5 | 2.3 | 2.6 | 2.4 | 2.3 | 4.7 | 6.0 | 5.0 | 4.1 | 5.3 | 5.2 | 5.3 | 5.2 | 6.0 | 6.5 | 6.4 | 6.4 | 6.4 | 5.3 | 5.9 | 4.7 | 3.5 | 3.1 | --  | 6.5 | --  |
| Min         | 0.3 | 0.5 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.6 | 0.9 | 1.7 | 2.0 | 1.5 | 1.9 | 1.8 | 2.7 | 1.7 | 2.0 | 2.0 | 0.2 | 0.5 | 0.6 | 0.5 | 0.6 | --  | --  | 0.2 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Jun 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 | 1.2 | 0.7 | 0.8 | 1.0 | 0.5 | 0.8 | 0.8 | 0.8 | 2.5 | 3.2 | 3.2 | 3.6 | 3.3 | 4.5 | 3.9 | 3.9 | 2.8 | 4.1 | 2.9 | 0.3 | 1.0 | 2.5 | 1.1 | 2.1 | 4.5 | 0.3 |
| 2           | 0.7 | 1.4 | 1.4 | 1.2 | 1.0 | 0.9 | 0.8 | 0.5 | 1.0 | 3.2 | 3.2 | 2.9 | 3.1 | 3.3 | 3.9 | 3.9 | 3.8 | 3.6 | 3.0 | 2.0 | 0.5 | 1.4 | 1.1 | 0.9 | 2.0 | 3.9 | 0.5 |
| 3           | 1.1 | 1.0 | 0.9 | 0.8 | 1.0 | 1.1 | 0.8 | 0.3 | 1.4 | 2.0 | 2.7 | 2.8 | 3.2 | 4.0 | 3.7 | 3.8 | 4.1 | 3.7 | 3.0 | 1.9 | 0.9 | 1.3 | 1.1 | 1.0 | 2.0 | 4.1 | 0.3 |
| 4           | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 1.0 | 0.9 | 0.5 | 0.7 | 1.1 | 2.4 | 3.0 | 2.9 | 3.5 | 3.7 | 4.3 | 4.0 | 4.3 | 4.3 | 2.3 | 0.3 | 1.4 | 1.2 | 1.1 | 2.0 | 4.3 | 0.3 |
| 5           | 1.0 | 1.2 | 1.0 | 0.9 | 0.9 | 0.8 | 1.0 | 0.3 | 0.6 | 1.9 | 3.1 | 3.4 | 3.4 | 3.8 | 3.6 | 3.5 | 3.9 | 4.1 | 3.6 | 2.5 | 1.4 | 0.9 | 1.2 | 0.9 | 2.0 | 4.1 | 0.3 |
| 6           | 1.1 | 0.6 | 1.1 | 0.7 | 0.9 | 0.9 | 1.0 | 0.6 | 2.0 | 2.5 | 2.6 | 2.8 | 2.6 | 3.1 | 2.8 | 3.1 | 3.7 | 3.4 | 2.8 | 1.6 | 1.0 | 0.2 | 1.2 | 1.4 | 1.8 | 3.7 | 0.2 |
| 7           | 1.2 | 1.4 | 1.2 | 1.0 | 0.8 | 1.0 | 0.9 | 0.3 | 1.4 | 2.3 | 2.3 | 2.5 | 2.3 | 3.2 | 4.0 | 4.2 | 4.2 | 3.6 | 2.8 | 3.0 | 1.6 | 0.8 | 0.9 | 1.2 | 2.0 | 4.2 | 0.3 |
| 8           | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 0.3 | 1.1 | 2.9 | 3.5 | 2.7 | 3.3 | 3.9 | 4.8 | 4.3 | 4.2 | 4.4 | 4.1 | 2.6 | 0.7 | 1.3 | 1.1 | 1.3 | 2.2 | 4.8 | 0.3 |
| 9           | 1.0 | 0.8 | 0.9 | 0.9 | 1.1 | 0.8 | 1.1 | 0.8 | 1.7 | 2.3 | 2.5 | 3.1 | 3.1 | 3.5 | 3.9 | 3.6 | 3.5 | 3.1 | 3.1 | 2.3 | 1.7 | 0.4 | 0.7 | 1.1 | 2.0 | 3.9 | 0.4 |
| 10          | 1.2 | 1.4 | 1.3 | 0.6 | 0.9 | 1.1 | 0.6 | 0.7 | 1.6 | 2.4 | 3.1 | 3.5 | 4.1 | 4.3 | 3.4 | 3.9 | 3.9 | 4.1 | 3.9 | 3.1 | 3.0 | 2.6 | 2.3 | 2.8 | 2.5 | 4.3 | 0.6 |
| 11          | 3.3 | 2.1 | 1.4 | 0.8 | 1.0 | 1.0 | 1.3 | 0.9 | 2.8 | 3.0 | 3.9 | 3.8 | 4.0 | 3.9 | 4.5 | 4.9 | 4.8 | 5.2 | 5.1 | 4.3 | 2.8 | 2.6 | 3.3 | 2.3 | 3.0 | 5.2 | 0.8 |
| 12          | 0.7 | 0.6 | 1.1 | 1.0 | 1.3 | 0.6 | 0.6 | 0.6 | 2.2 | 2.1 | 3.1 | 3.6 | 4.2 | 4.0 | 3.5 | 3.5 | 4.0 | 3.5 | 4.0 | 3.7 | 2.3 | 1.9 | 0.7 | 1.4 | 2.3 | 4.2 | 0.6 |
| 13          | 1.1 | 0.8 | 1.0 | 0.7 | 0.8 | 1.1 | 0.9 | 0.7 | 0.7 | 1.0 | 1.6 | 1.8 | 2.4 | 2.7 | 2.9 | 3.1 | 3.0 | 3.1 | 2.6 | 1.3 | 0.9 | 1.4 | 1.1 | 1.1 | 1.6 | 3.1 | 0.7 |
| 14          | 1.1 | 1.4 | 1.3 | 1.0 | 1.3 | 0.9 | 1.2 | 0.8 | 0.5 | 1.1 | 2.0 | 2.7 | 2.6 | 2.8 | 2.9 | 3.1 | 3.3 | 3.4 | 3.1 | 1.4 | 1.1 | 1.5 | 1.0 | 1.0 | 1.8 | 3.4 | 0.5 |
| 15          | 1.5 | 1.3 | 1.3 | 1.3 | 1.6 | 1.2 | 0.9 | 0.5 | 0.6 | 2.0 | 2.3 | 3.1 | 2.7 | 3.1 | 3.1 | 3.4 | 3.3 | 3.3 | 2.6 | 1.0 | 1.0 | 1.0 | 1.1 | 0.8 | 1.8 | 3.4 | 0.5 |
| 16          | 1.5 | 1.1 | 1.0 | 1.2 | 1.2 | 1.2 | 0.9 | 0.5 | 0.7 | 3.0 | 3.2 | 3.0 | 3.4 | 3.6 | 3.9 | 4.0 | 3.6 | 3.3 | 3.0 | 1.0 | 1.0 | 1.5 | 1.2 | 1.1 | 2.0 | 4.0 | 0.5 |
| 17          | 1.0 | 0.8 | 0.8 | 1.2 | 1.1 | 1.2 | 1.0 | 0.5 | 0.8 | 2.3 | 2.8 | 3.1 | 3.7 | 4.5 | 4.3 | 4.5 | 3.9 | 4.0 | 3.3 | 1.7 | 0.7 | 1.1 | 1.2 | 0.8 | 2.1 | 4.5 | 0.5 |
| 18          | 1.0 | 0.9 | 0.9 | 0.8 | 1.3 | 1.1 | 1.0 | 0.9 | 1.4 | 2.6 | 2.3 | 2.8 | 3.1 | 2.9 | 3.5 | 3.9 | 3.9 | 3.7 | 3.3 | 1.3 | 1.0 | 1.3 | 0.9 | 1.1 | 2.0 | 3.9 | 0.8 |
| 19          | 0.9 | 1.2 | 1.1 | 1.0 | 1.1 | 1.0 | 1.2 | 0.8 | 0.7 | 1.4 | 2.2 | 2.7 | 3.3 | 3.6 | 4.5 | 4.8 | 4.5 | 4.5 | 3.9 | 2.7 | 0.7 | 1.0 | 1.3 | 1.1 | 2.1 | 4.8 | 0.7 |
| 20          | 0.9 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.7 | 2.0 | 2.4 | 3.4 | 2.9 | 2.0 | 2.1 | 2.6 | 3.6 | 4.4 | 4.1 | 3.5 | 2.6 | 2.3 | 0.7 | 0.9 | 1.5 | 1.1 | 2.1 | 4.4 | 0.7 |
| 21          | 1.5 | 1.8 | 1.2 | 1.0 | 1.5 | 1.2 | 0.9 | 1.0 | 1.5 | 3.6 | 3.7 | 3.5 | 3.6 | 3.5 | 4.1 | 4.0 | 4.3 | 4.3 | 3.9 | 2.4 | 2.0 | 0.9 | 1.3 | 0.8 | 2.4 | 4.3 | 0.8 |
| 22          | 0.7 | 1.0 | 0.9 | 0.7 | 0.6 | 0.5 | 0.8 | 0.9 | 2.0 | 1.9 | 1.9 | 2.7 | 3.5 | 3.3 | 4.4 | 4.7 | 5.0 | 5.5 | 5.1 | 3.7 | 1.5 | 0.2 | 0.5 | 0.7 | 2.2 | 5.5 | 0.2 |
| 23          | 2.5 | 1.3 | 1.0 | 1.1 | 0.7 | 0.8 | 0.7 | 0.6 | 1.0 | 2.1 | 2.8 | 3.3 | 3.5 | 3.6 | 3.5 | 4.1 | 4.5 | 4.6 | 4.2 | 3.0 | 0.9 | 1.0 | 1.1 | 1.0 | 2.2 | 4.6 | 0.6 |
| 24          | 1.0 | 1.1 | 0.7 | 1.1 | 1.1 | 0.9 | 0.8 | 1.1 | 1.1 | 1.6 | 1.7 | 2.3 | 2.7 | 3.4 | 3.4 | 3.7 | 4.8 | 4.1 | 3.3 | 1.9 | 0.3 | 1.2 | 1.4 | 1.0 | 1.9 | 4.8 | 0.3 |
| 25          | 2.4 | 3.8 | 3.2 | 3.4 | 2.6 | 2.1 | 2.7 | 2.9 | 4.1 | 4.1 | 2.9 | 2.3 | 2.0 | 2.4 | 2.8 | 3.4 | 3.8 | 4.3 | 4.1 | 4.2 | 3.3 | 3.2 | 2.0 | 1.7 | 3.1 | 4.3 | 1.7 |
| 26          | 2.0 | 2.0 | 2.3 | 3.0 | 2.1 | 2.0 | 2.5 | 3.7 | 2.2 | 1.6 | 1.6 | 2.2 | 2.1 | 2.9 | 3.7 | 3.8 | 4.2 | 4.5 | 3.8 | 2.3 | 0.9 | 1.4 | 0.7 | 0.9 | 2.4 | 4.5 | 0.7 |
| 27          | 0.6 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 | 0.6 | 0.4 | 2.4 | 2.5 | 3.5 | 3.7 | 4.0 | 4.6 | 4.8 | 4.8 | 4.9 | 4.4 | 3.8 | 2.6 | 1.1 | 1.5 | 1.0 | 0.8 | 2.3 | 4.9 | 0.4 |
| 28          | 0.8 | 1.2 | 1.1 | 0.9 | 1.2 | 1.2 | 0.7 | 0.3 | 2.6 | 3.8 | 3.6 | 3.6 | 3.6 | 3.5 | 3.6 | 4.1 | 4.0 | 3.6 | 3.0 | 2.0 | 0.5 | 0.8 | 1.2 | 1.4 | 2.2 | 4.1 | 0.3 |
| 29          | 0.8 | 0.7 | 0.8 | 0.8 | 1.3 | 1.0 | 1.1 | 0.9 | 1.4 | 1.8 | 2.1 | 2.5 | 3.1 | 3.3 | 3.0 | 3.3 | 2.7 | 2.9 | 1.5 | 1.1 | 0.5 | 0.8 | 1.0 | 1.2 | 1.6 | 3.3 | 0.5 |
| 30          | 1.2 | 0.5 | 0.8 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 0.5 | 1.0 | 1.6 | 2.9 | 2.6 | 3.5 | 3.7 | 3.4 | 3.0 | 2.9 | 2.4 | 1.5 | 0.8 | 1.0 | 1.0 | 1.0 | 1.7 | 3.7 | 0.5 |
| Avg         | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 0.9 | 1.5 | 2.3 | 2.7 | 2.9 | 3.1 | 3.5 | 3.7 | 3.9 | 4.0 | 3.9 | 3.4 | 2.3 | 1.2 | 1.2 | 1.3 | 1.2 | 2.1 | --  | --  |
| Max         | 3.3 | 3.8 | 3.2 | 3.4 | 2.6 | 2.1 | 2.7 | 3.7 | 4.1 | 4.1 | 3.9 | 3.8 | 4.2 | 4.6 | 4.8 | 4.9 | 5.0 | 5.5 | 5.1 | 4.3 | 3.3 | 3.2 | 3.3 | 2.8 | --  | 5.5 | --  |
| Min         | 0.6 | 0.5 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 | 0.3 | 0.5 | 1.0 | 1.6 | 1.8 | 2.0 | 2.4 | 2.8 | 3.1 | 2.7 | 2.8 | 1.5 | 1.0 | 0.3 | 0.2 | 0.5 | 0.7 | --  | --  | 0.2 |

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WS\_ms\_20m"**  
**Month: Apr 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           | 1.4 | 1.5 | 1.5 | 1.7 | 1.2 | 1.8 | 2.7 | 2.0 | 3.3 | 2.6 | 1.9 | 1.5 | 2.5 | 3.0 | 2.5 | 3.0 | 1.7 | 1.1 | 2.3 | 2.8 | 2.4 | 2.2 | 2.0 | 1.5 | 2.1 | 3.3 | 1.1 |
| 2           | 1.6 | 1.0 | 1.1 | 1.3 | 1.7 | 1.3 | 1.4 | 1.3 | 0.7 | 3.8 | 3.8 | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | 1.7 | 3.8 | 0.7 |
| 3           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 4           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 5           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 6           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 7           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 8           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 9           | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 10          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 11          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 12          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 13          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 14          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 15          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 16          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 17          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 18          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 19          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 20          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 21          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 22          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 23          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 24          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 25          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 26          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 27          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 28          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 29          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| 30          | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  | --  |
| Avg         | 1.5 | 1.2 | 1.3 | 1.5 | 1.5 | 1.6 | 2.0 | 1.6 | 2.0 | 3.2 | 2.8 | 1.5 | 2.5 | 3.0 | 2.5 | 3.0 | 1.7 | 1.1 | 2.3 | 2.8 | 2.4 | 2.2 | 2.0 | 1.5 | 2.0 | --  | --  |
| Max         | 1.6 | 1.5 | 1.5 | 1.7 | 1.7 | 1.8 | 2.7 | 2.0 | 3.3 | 3.8 | 3.8 | 1.5 | 2.5 | 3.0 | 2.5 | 3.0 | 1.7 | 1.1 | 2.3 | 2.8 | 2.4 | 2.2 | 2.0 | 1.5 | --  | 3.8 | --  |
| Min         | 1.4 | 1.0 | 1.1 | 1.3 | 1.2 | 1.3 | 1.4 | 1.3 | 0.7 | 2.6 | 1.9 | 1.5 | 2.5 | 3.0 | 2.5 | 3.0 | 1.7 | 1.1 | 2.3 | 2.8 | 2.4 | 2.2 | 2.0 | 1.5 | --  | --  | 0.7 |

-- Indicates Invalid Data

**SAROAD for Resolution, Hewitt\_Station**  
**"Component, Channel: Table100, WS\_ms\_20m"**  
**Month: May 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          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 12          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 13          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 14          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 15          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 16          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 17          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 18          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 19          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 20          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 21          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 22          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 23          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 24          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 25          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 26          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 27          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 28          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 29          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 30          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 31          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Avg         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Max         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Min         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |

-- Indicates Invalid Data



SAROAD for Resolution, Hewitt\_Station  
 "Component, Channel: Table100, WS\_ms\_20m"  
 Month: Jun 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          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 12          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 13          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 14          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 15          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 16          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 17          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 18          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 19          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 20          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 21          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 22          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 23          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 24          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 25          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 26          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 27          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 28          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 29          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| 30          | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Avg         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Max         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |
| Min         | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --  | --  | --  |  |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Apr 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 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 714 | 715 | 712 |
| 2           | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | 716 | 716 | 716 | 716 | 715 | 715 | 714 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 714 | 716 | 713 |
| 3           | 713 | 713 | 713 | 713 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 712 | 711 | 711 | 710 | 709 | 708 | 708 | 708 | 709 | 710 | 711 | 711 | 711 | 711 | 713 | 708 |
| 4           | 712 | 712 | 712 | 713 | 713 | 714 | 715 | 715 | 716 | 716 | 716 | 716 | 716 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | 715 | 716 | 712 |
| 5           | 717 | 717 | 717 | 717 | 717 | 717 | 718 | 718 | 718 | 718 | 718 | 718 | 717 | 716 | 716 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 718 | 715 |
| 6           | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | 716 | 715 | 715 | 714 | 714 | 713 | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 716 | 713 |
| 7           | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 717 | 717 | 717 | 717 | 717 | 716 | 716 | 715 | 715 | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 717 | 714 |
| 8           | 715 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 714 | 714 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 713 | 715 | 711 |
| 9           | 712 | 712 | 712 | 712 | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 714 | 714 | 713 | 713 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 714 | 715 | 712 |
| 10          | 716 | 716 | 715 | 715 | 715 | 715 | 716 | 716 | 717 | 717 | 717 | 716 | 716 | 715 | 715 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 717 | 714 |
| 11          | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | 715 | 714 | 714 | 713 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 716 | 713 |
| 12          | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 715 | 714 | 714 | 714 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 715 | 713 |
| 13          | 714 | 714 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 713 | 714 | 711 |
| 14          | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 713 | 713 | 712 | 713 | 711 |
| 15          | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 715 | 714 | 714 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 715 | 713 |
| 16          | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 716 | 716 | 716 | 716 | 715 | 715 | 715 | 714 | 714 | 714 | 713 | 713 | 714 | 714 | 714 | 715 | 715 | 715 | 716 | 713 |
| 17          | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | 716 | 716 | 715 | 715 | 715 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 716 | 714 |
| 18          | 715 | 714 | 714 | 714 | 714 | 715 | 715 | 716 | 716 | 716 | 716 | 716 | 716 | 715 | 715 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 716 | 714 |
| 19          | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 717 | 717 | 717 | 716 | 716 | 715 | 715 | 715 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 717 | 714 |
| 20          | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | 715 | 715 | 715 | 714 | 714 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 716 | 713 |
| 21          | 714 | 714 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 713 | 714 | 711 |
| 22          | 713 | 713 | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 713 | 714 | 711 |
| 23          | 712 | 712 | 712 | 711 | 711 | 711 | 712 | 712 | 713 | 713 | 713 | 712 | 712 | 711 | 710 | 709 | 709 | 708 | 708 | 709 | 709 | 709 | 710 | 710 | 711 | 713 | 708 |
| 24          | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 710 | 710 | 709 | 708 | 708 | 708 | 707 | 707 | 708 | 708 | 708 | 708 | 709 | 711 | 707 |
| 25          | 708 | 708 | 707 | 707 | 707 | 707 | 708 | 709 | 709 | 709 | 709 | 709 | 709 | 709 | 709 | 708 | 708 | 708 | 708 | 708 | 709 | 710 | 710 | 711 | 709 | 711 | 707 |
| 26          | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 713 | 713 | 712 | 712 | 712 | 711 | 710 | 710 | 709 | 709 | 709 | 710 | 710 | 709 | 709 | 711 | 713 | 709 |
| 27          | 709 | 709 | 709 | 709 | 709 | 708 | 709 | 709 | 709 | 710 | 709 | 709 | 708 | 708 | 707 | 707 | 706 | 706 | 706 | 707 | 707 | 707 | 707 | 707 | 708 | 710 | 706 |
| 28          | 707 | 707 | 707 | 707 | 707 | 707 | 708 | 708 | 708 | 708 | 708 | 708 | 707 | 707 | 707 | 706 | 706 | 706 | 707 | 708 | 709 | 710 | 710 | 710 | 708 | 710 | 706 |
| 29          | 710 | 710 | 711 | 711 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 714 | 714 | 715 | 715 | 716 | 716 | 713 | 716 | 710 |
| 30          | 716 | 716 | 716 | 716 | 717 | 717 | 717 | 717 | 717 | 717 | 718 | 717 | 717 | 716 | 716 | 715 | 715 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 716 | 718 | 714 |
| Avg         | 713 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 715 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | --  | --  |
| Max         | 717 | 717 | 717 | 717 | 717 | 717 | 718 | 718 | 718 | 718 | 718 | 718 | 717 | 716 | 716 | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 716 | --  | 718 | --  |
| Min         | 707 | 707 | 707 | 707 | 707 | 707 | 708 | 708 | 708 | 708 | 708 | 708 | 707 | 707 | 707 | 706 | 706 | 706 | 706 | 707 | 707 | 707 | 707 | 707 | --  | --  | 706 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: May 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           | 715 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 714 | 713 | 713 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 714 | 715 | 712 |     |
| 2           | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 714 | 711 |
| 3           | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 715 | 714 | 714 | 714 | 713 | 712 | 712 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 713 | 715 | 712 |     |
| 4           | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 714 | 714 | 713 | 713 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 715 | 712 |     |
| 5           | 712 | 712 | 712 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 710 | 710 | 709 | 708 | 708 | 708 | 708 | 708 | 709 | 709 | 709 | 710 | 710 | 712 | 708 |     |
| 6           | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 710 | 711 | 710 | 710 | 709 | 708 | 707 | 706 | 706 | 706 | 707 | 708 | 709 | 709 | 710 | 710 | 709 | 711 | 706 |     |
| 7           | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 711 | 712 | 711 |     |
| 8           | 712 | 712 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 710 | 709 | 709 | 709 | 709 | 710 | 710 | 711 | 712 | 712 | 713 | 713 | 711 | 713 | 709 |     |
| 9           | 713 | 712 | 713 | 712 | 713 | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 714 | 714 | 713 | 713 | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 715 | 714 | 715 | 712 |     |
| 10          | 715 | 715 | 715 | 715 | 715 | 716 | 716 | 716 | 717 | 717 | 717 | 717 | 717 | 716 | 716 | 716 | 716 | 716 | 716 | 716 | 717 | 717 | 717 | 717 | 716 | 717 | 715 |     |
| 11          | 717 | 717 | 717 | 717 | 717 | 718 | 718 | 718 | 718 | 718 | 718 | 717 | 717 | 716 | 716 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 716 | 718 | 715 |     |
| 12          | 715 | 715 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 712 | 715 | 710 |     |
| 13          | 710 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 711 | 711 | 711 | 711 | 710 | 709 | 709 | 708 | 708 | 708 | 709 | 709 | 710 | 711 | 711 | 710 | 712 | 708 |     |
| 14          | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 709 | 709 | 710 | 711 | 711 | 712 | 712 | 711 | 712 | 709 |     |
| 15          | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 710 | 710 | 710 | 710 | 709 | 709 | 710 | 710 | 710 | 711 | 711 | 712 | 711 | 711 | 712 | 709 |     |
| 16          | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 713 | 713 | 714 | 711 |     |
| 17          | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 709 | 708 | 708 | 708 | 708 | 709 | 709 | 710 | 710 | 711 | 713 | 708 |     |
| 18          | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 712 | 710 |     |
| 19          | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 712 | 713 | 713 | 713 | 714 | 712 |     |
| 20          | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 714 | 711 |
| 21          | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 712 | 712 | 713 | 713 | 713 | 713 | 714 | 711 |     |
| 22          | 713 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 713 | 714 | 711 |     |
| 23          | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 714 | 711 |     |
| 24          | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 711 | 711 | 710 | 709 | 709 | 708 | 707 | 707 | 706 | 707 | 707 | 708 | 708 | 708 | 709 | 712 | 706 |     |
| 25          | 708 | 708 | 708 | 708 | 708 | 708 | 709 | 709 | 709 | 710 | 710 | 709 | 709 | 709 | 708 | 708 | 708 | 708 | 708 | 709 | 709 | 710 | 711 | 711 | 709 | 711 | 708 |     |
| 26          | 711 | 711 | 711 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 711 | 711 | 712 | 712 | 713 | 713 | 714 | 712 | 714 | 711 |     |
| 27          | 714 | 714 | 714 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 715 | 715 | 715 | 714 | 714 | 714 | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 715 | 713 |     |
| 28          | 714 | 714 | 713 | 713 | 713 | 714 | 714 | 714 | 715 | 715 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 715 | 712 |     |
| 29          | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 712 | 712 | 712 | 711 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 713 | 710 |     |
| 30          | 711 | 711 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 711 | 711 | 711 | 710 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 713 | 710 |     |
| 31          | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 709 | 709 | 708 | 708 | 709 | 710 | 711 | 712 | 712 | 711 | 712 | 708 |     |
| Avg         | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | --  | --  |
| Max         | 717 | 717 | 717 | 717 | 717 | 718 | 718 | 718 | 718 | 718 | 718 | 717 | 717 | 716 | 716 | 716 | 716 | 716 | 716 | 716 | 717 | 717 | 717 | 717 | 717 | --  | 718 | --  |
| Min         | 708 | 708 | 708 | 708 | 708 | 708 | 709 | 709 | 709 | 710 | 710 | 709 | 709 | 708 | 707 | 706 | 706 | 706 | 706 | 706 | 707 | 708 | 708 | 708 | --  | --  | 706 |     |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, BP\_mmHg"**  
**Month: Jun 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 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 709 | 709 | 709 | 710 | 710 | 711 | 711 | 712 | 711 | 712 | 709 |
| 2           | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 710 |
| 3           | 711 | 711 | 711 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 710 |
| 4           | 711 | 711 | 711 | 711 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 710 | 710 | 709 | 710 | 710 | 710 | 710 | 710 | 711 | 713 | 709 |
| 5           | 710 | 710 | 710 | 711 | 711 | 712 | 712 | 712 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 711 | 710 |
| 6           | 711 | 712 | 712 | 712 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 711 |
| 7           | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 712 | 712 | 713 | 713 | 713 | 713 | 714 | 711 |
| 8           | 713 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 715 | 715 | 715 | 715 | 714 | 714 | 713 | 712 | 712 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 711 |
| 9           | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 709 | 709 | 709 | 709 | 709 | 710 | 710 | 711 | 711 | 713 | 709 |
| 10          | 711 | 710 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 711 | 710 | 709 | 709 | 708 | 708 | 708 | 709 | 709 | 710 | 710 | 710 | 712 | 708 |
| 11          | 711 | 710 | 710 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 709 | 709 | 710 | 710 | 711 | 711 | 712 | 712 | 711 | 712 | 709 |
| 12          | 712 | 712 | 712 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 713 | 711 |
| 13          | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 714 | 711 |
| 14          | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 713 | 711 |
| 15          | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 714 | 712 |
| 16          | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 714 | 714 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 714 | 711 |
| 17          | 712 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 711 | 711 | 710 | 710 | 709 | 709 | 709 | 710 | 710 | 710 | 710 | 711 | 713 | 709 |
| 18          | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 709 | 709 | 708 | 708 | 708 | 709 | 709 | 709 | 710 | 710 | 710 | 710 | 708 |
| 19          | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 712 | 712 | 712 | 712 | 712 | 711 | 710 | 710 | 709 | 709 | 709 | 709 | 709 | 710 | 710 | 710 | 711 | 710 | 712 | 709 |
| 20          | 711 | 710 | 710 | 710 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 712 | 711 | 710 | 710 | 709 | 709 | 709 | 708 | 709 | 709 | 709 | 710 | 710 | 710 | 710 | 708 |
| 21          | 710 | 710 | 709 | 709 | 709 | 710 | 710 | 710 | 711 | 711 | 711 | 710 | 709 | 709 | 708 | 707 | 707 | 707 | 707 | 707 | 707 | 708 | 708 | 709 | 709 | 711 | 707 |
| 22          | 709 | 709 | 709 | 709 | 710 | 710 | 711 | 711 | 711 | 711 | 711 | 711 | 711 | 710 | 710 | 709 | 709 | 708 | 709 | 709 | 709 | 709 | 710 | 711 | 710 | 711 | 708 |
| 23          | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 712 | 713 | 712 | 712 | 712 | 712 | 711 | 711 | 710 | 710 | 709 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | 713 | 709 |
| 24          | 711 | 711 | 711 | 710 | 711 | 711 | 712 | 712 | 712 | 712 | 712 | 711 | 711 | 711 | 710 | 709 | 709 | 709 | 709 | 709 | 710 | 710 | 711 | 711 | 711 | 712 | 709 |
| 25          | 711 | 712 | 712 | 712 | 712 | 713 | 714 | 714 | 714 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 712 | 713 | 713 | 713 | 713 | 714 | 711 |
| 26          | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 716 | 716 | 715 | 715 | 715 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 711 | 711 | 712 | 712 | 712 | 713 | 716 | 711 |
| 27          | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 712 | 714 | 710 |
| 28          | 711 | 711 | 711 | 711 | 711 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 710 | 710 | 710 | 709 | 710 | 710 | 710 | 711 | 711 | 711 | 713 | 709 |
| 29          | 711 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 714 | 714 | 714 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 710 | 710 | 711 | 711 | 712 | 712 | 712 | 714 | 710 |
| 30          | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 714 | 714 | 713 | 713 | 713 | 712 | 712 | 711 | 711 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 712 | 714 | 710 |
| Avg         | 711 | 711 | 711 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | 713 | 713 | 712 | 712 | 711 | 710 | 710 | 710 | 710 | 710 | 710 | 711 | 711 | 711 | 711 | --  | --  |
| Max         | 713 | 713 | 714 | 714 | 715 | 715 | 715 | 716 | 716 | 715 | 715 | 715 | 714 | 714 | 713 | 712 | 712 | 712 | 712 | 712 | 713 | 713 | 713 | 713 | --  | 716 | --  |
| Min         | 709 | 709 | 709 | 709 | 709 | 710 | 710 | 710 | 711 | 711 | 711 | 710 | 709 | 709 | 708 | 707 | 707 | 707 | 707 | 707 | 707 | 708 | 708 | 709 | --  | --  | 707 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: Apr 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   | 0.42 | 0.68 | 0.37 | 0.77 | 0.52 | 0.75 | 0.36  | -0.22 | -0.59 | -0.85 | -0.95 | -0.74 | -0.75 | -0.91 | -1.11 | -0.82 | -0.70 | -0.45 | 0.22  | 1.45 | 1.84 | 0.70 | 1.19 | 0.96 | 0.09  | 1.84 | -1.11 |
| 2   | 0.81 | 1.64 | 1.15 | 2.15 | 1.31 | 0.51 | 0.21  | -0.36 | -0.66 | -1.05 | -1.19 | -1.16 | -1.35 | -1.39 | -1.26 | -1.24 | -0.99 | -0.58 | 0.09  | 1.45 | 1.37 | 3.32 | 0.77 | 0.47 | 0.17  | 3.32 | -1.39 |
| 3   | 0.57 | 1.80 | 1.61 | 1.39 | 0.74 | 1.75 | 0.81  | -0.16 | -0.57 | -0.79 | -0.96 | -1.04 | -1.17 | -1.34 | -1.16 | -1.12 | -0.79 | -0.39 | -0.03 | 0.23 | 0.22 | 0.00 | 0.30 | 0.75 | 0.03  | 1.80 | -1.34 |
| 4   | 0.41 | 0.91 | 1.60 | 3.19 | 1.98 | 1.18 | 1.84  | -0.48 | -0.80 | -1.03 | -1.22 | -1.28 | -1.28 | -1.39 | -1.34 | -1.16 | -0.82 | -0.50 | 0.28  | 2.07 | 2.82 | 1.75 | 0.51 | 0.53 | 0.33  | 3.19 | -1.39 |
| 5   | 0.55 | 0.56 | 0.50 | 0.42 | 0.34 | 0.19 | 0.08  | -0.22 | -0.53 | -0.85 | -0.99 | -1.01 | -1.03 | -1.02 | -0.95 | -0.88 | -0.74 | -0.53 | 0.04  | 0.84 | 1.47 | 2.31 | 3.52 | 1.16 | 0.14  | 3.52 | -1.03 |
| 6   | 0.69 | 0.56 | 0.96 | 0.62 | 2.50 | 2.15 | 2.14  | -0.19 | -0.85 | -0.81 | -0.85 | -0.94 | -1.05 | -1.02 | -1.11 | -1.00 | -0.97 | -0.51 | 0.11  | 1.58 | 2.44 | 3.13 | 0.79 | 0.73 | 0.38  | 3.13 | -1.11 |
| 7   | 0.62 | 0.94 | 1.09 | 0.96 | 0.68 | 0.58 | 0.32  | -0.27 | -0.59 | -0.85 | -0.94 | -0.94 | -0.97 | -1.11 | -0.92 | -0.75 | -0.52 | -0.34 | 0.93  | 3.21 | 1.20 | 0.79 | 1.10 | 0.61 | 0.20  | 3.21 | -1.11 |
| 8   | 0.67 | 1.40 | 0.75 | 0.77 | 0.66 | 0.99 | 0.49  | 0.01  | -0.50 | -0.76 | -0.91 | -1.00 | -1.28 | -1.40 | -1.25 | -1.01 | -0.85 | -0.44 | 0.00  | 0.29 | 0.36 | 0.82 | 0.46 | 1.11 | -0.03 | 1.40 | -1.40 |
| 9   | 1.56 | 2.62 | 3.73 | 5.28 | 3.78 | 3.61 | 0.85  | -0.37 | -0.69 | -0.80 | -0.79 | -1.01 | -1.11 | -1.23 | -1.01 | -0.93 | -0.91 | -0.52 | -0.01 | 1.01 | 1.85 | 2.63 | 2.63 | 1.60 | 0.91  | 5.28 | -1.23 |
| 10  | 0.90 | 1.79 | 0.67 | 1.06 | 1.32 | 0.83 | 0.43  | -0.36 | -0.55 | -0.71 | -0.88 | -1.00 | -1.21 | -1.25 | -1.22 | -1.06 | -0.84 | -0.61 | 0.06  | 1.55 | 2.66 | 2.16 | 0.72 | 0.83 | 0.22  | 2.66 | -1.25 |
| 11  | 0.73 | 0.59 | 0.64 | 0.75 | 0.66 | 0.58 | 0.28  | -0.24 | -0.58 | -0.93 | -1.09 | -1.15 | -1.00 | -1.09 | -1.14 | -1.13 | -0.86 | -0.38 | 0.12  | 0.51 | 0.92 | 2.19 | 1.88 | 0.82 | 0.05  | 2.19 | -1.15 |
| 12  | 0.96 | 1.48 | 0.95 | 0.72 | 0.62 | 0.87 | 0.27  | -0.27 | -0.49 | -0.87 | -0.88 | -1.20 | -1.11 | -1.15 | -1.09 | -1.08 | -0.94 | -0.59 | 0.21  | 1.83 | 2.77 | 1.48 | 0.97 | 0.63 | 0.17  | 2.77 | -1.20 |
| 13  | 0.50 | 0.77 | 0.79 | 0.92 | 2.19 | 1.65 | 0.51  | -0.21 | -0.59 | -0.84 | -0.87 | -0.85 | -1.25 | -1.05 | -0.98 | -0.88 | -0.75 | -0.49 | 0.08  | 0.70 | 1.56 | 1.24 | 4.40 | 3.36 | 0.41  | 4.40 | -1.25 |
| 14  | 2.63 | 1.75 | 0.85 | 2.11 | 0.99 | 0.79 | 0.20  | -0.33 | -0.66 | -0.95 | -1.06 | -1.22 | -1.28 | -1.23 | -1.13 | -0.92 | -0.81 | -0.53 | -0.05 | 0.49 | 0.90 | 1.39 | 4.20 | 3.49 | 0.40  | 4.20 | -1.28 |
| 15  | 1.64 | 1.74 | 1.88 | 2.19 | 1.09 | 0.81 | 0.38  | -0.39 | -0.57 | -0.78 | -1.04 | -1.14 | -1.29 | -1.24 | -1.14 | -0.90 | -0.95 | -0.58 | 0.04  | 1.67 | 2.74 | 3.18 | 1.58 | 0.76 | 0.40  | 3.18 | -1.29 |
| 16  | 0.58 | 0.66 | 0.80 | 1.59 | 0.89 | 0.44 | 0.15  | -0.37 | -0.54 | -0.69 | -0.88 | -1.04 | -1.21 | -1.25 | -1.18 | -1.06 | -0.82 | -0.37 | 0.14  | 1.55 | 2.33 | 1.82 | 1.20 | 1.02 | 0.16  | 2.33 | -1.25 |
| 17  | 0.71 | 1.97 | 1.47 | 0.80 | 1.26 | 0.55 | 0.24  | -0.34 | -0.68 | -0.82 | -0.86 | -1.07 | -1.19 | -1.13 | -1.10 | -1.07 | -0.85 | -0.58 | 0.08  | 1.12 | 1.55 | 2.73 | 2.10 | 0.64 | 0.23  | 2.73 | -1.19 |
| 18  | 0.69 | 0.81 | 0.61 | 0.76 | 0.92 | 1.19 | 0.45  | -0.40 | -0.73 | -0.85 | -0.91 | -1.27 | -1.34 | -1.41 | -1.23 | -1.16 | -0.98 | -0.56 | -0.03 | 0.60 | 1.20 | 1.04 | 0.78 | 0.67 | -0.05 | 1.20 | -1.41 |
| 19  | 1.37 | 1.32 | 2.03 | 3.24 | 1.20 | 0.78 | 0.50  | -0.38 | -0.78 | -1.01 | -0.91 | -1.18 | -1.21 | -1.22 | -1.28 | -1.21 | -0.91 | -0.64 | -0.04 | 1.11 | 1.44 | 1.78 | 1.99 | 0.95 | 0.29  | 3.24 | -1.28 |
| 20  | 0.59 | 0.55 | 0.86 | 0.81 | 1.21 | 1.53 | 0.22  | -0.32 | -0.71 | -0.83 | -1.01 | -1.23 | -1.35 | -1.34 | -1.22 | -1.23 | -0.95 | -0.60 | -0.08 | 1.30 | 2.30 | 3.71 | 3.70 | 4.03 | 0.41  | 4.03 | -1.35 |
| 21  | 2.55 | 0.98 | 0.95 | 0.66 | 0.77 | 0.83 | 0.07  | -0.37 | -0.63 | -0.86 | -1.01 | -1.22 | -1.26 | -1.07 | -1.18 | -1.19 | -0.97 | -0.59 | 0.06  | 1.36 | 2.05 | 3.86 | 3.95 | 3.89 | 0.48  | 3.95 | -1.26 |
| 22  | 4.31 | 2.13 | 2.28 | 1.87 | 2.50 | 0.78 | 0.19  | -0.37 | -0.58 | -0.79 | -0.93 | -1.18 | -1.08 | -1.20 | -1.08 | -1.14 | -0.86 | -0.62 | 0.17  | 1.46 | 3.24 | 1.59 | 0.63 | 0.84 | 0.51  | 4.31 | -1.20 |
| 23  | 0.59 | 0.58 | 0.61 | 2.36 | 3.62 | 3.48 | 0.94  | -0.26 | -0.63 | -0.98 | -1.14 | -1.16 | -1.02 | -1.00 | -1.20 | -1.02 | -0.67 | -0.48 | 0.02  | 0.73 | 0.88 | 0.93 | 1.06 | 1.04 | 0.30  | 3.62 | -1.20 |
| 24  | 1.42 | 1.12 | 1.00 | 1.18 | 1.57 | 1.88 | 1.10  | -0.32 | -0.69 | -0.91 | -1.16 | -1.32 | -1.32 | -1.21 | -1.20 | -0.80 | -0.55 | -0.36 | -0.04 | 0.26 | 0.32 | 0.64 | 0.26 | 0.13 | 0.04  | 1.88 | -1.32 |
| 25  | 0.21 | 0.15 | 0.59 | 0.79 | 0.84 | 0.19 | -0.24 | -0.59 | -0.87 | -1.13 | -1.20 | -1.41 | -1.60 | -1.39 | -1.40 | -1.27 | -0.95 | -0.54 | -0.14 | 0.11 | 0.39 | 0.50 | 0.55 | 0.63 | -0.32 | 0.84 | -1.60 |
| 26  | 0.89 | 1.76 | 3.26 | 4.86 | 2.40 | 1.29 | 0.53  | -0.45 | -0.71 | -0.93 | -1.04 | -1.24 | -1.26 | -1.32 | -1.29 | -1.33 | -0.98 | -0.51 | -0.08 | 0.52 | 1.03 | 2.60 | 3.23 | 1.98 | 0.55  | 4.86 | -1.33 |
| 27  | 1.50 | 0.63 | 0.64 | 0.74 | 1.17 | 1.62 | 0.54  | -0.21 | -0.62 | -0.93 | -1.06 | -1.17 | -1.36 | -1.48 | -1.43 | -1.00 | -0.63 | -0.41 | -0.08 | 0.22 | 0.54 | 0.88 | 0.75 | 0.71 | -0.02 | 1.62 | -1.48 |
| 28  | 0.67 | 0.26 | 0.27 | 0.27 | 0.50 | 0.90 | 0.17  | -0.23 | -0.40 | -0.62 | -0.56 | -0.65 | -0.88 | -1.41 | -1.33 | -1.14 | -0.84 | -0.45 | -0.12 | 0.06 | 0.15 | 0.19 | 0.27 | 0.43 | -0.19 | 0.90 | -1.41 |
| 29  | 0.83 | 0.78 | 1.07 | 1.23 | 2.02 | 2.73 | 1.45  | -0.33 | -0.69 | -1.03 | -1.11 | -1.45 | -1.58 | -1.50 | -1.37 | -1.32 | -1.04 | -0.68 | -0.25 | 0.69 | 1.34 | 0.94 | 0.96 | 1.01 | 0.11  | 2.73 | -1.58 |
| 30  | 0.82 | 0.67 | 0.53 | 0.72 | 1.83 | 2.03 | 0.54  | -0.39 | -0.58 | -0.78 | -0.83 | -1.13 | -1.24 | -1.35 | -1.29 | -1.12 | -1.01 | -0.74 | -0.23 | 1.09 | 3.54 | 3.35 | 0.80 | 0.60 | 0.24  | 3.54 | -1.35 |
| Avg | 1.05 | 1.12 | 1.15 | 1.51 | 1.40 | 1.25 | 0.53  | -0.31 | -0.64 | -0.87 | -0.97 | -1.11 | -1.20 | -1.24 | -1.19 | -1.06 | -0.85 | -0.52 | 0.05  | 1.04 | 1.58 | 1.79 | 1.57 | 1.21 | 0.22  | --   | --    |
| Max | 4.31 | 2.62 | 3.73 | 5.28 | 3.78 | 3.61 | 2.14  | 0.01  | -0.40 | -0.62 | -0.56 | -0.65 | -0.75 | -0.91 | -0.92 | -0.75 | -0.52 | -0.34 | 0.93  | 3.21 | 3.54 | 3.86 | 4.40 | 4.03 | --    | 5.28 | --    |
| Min | 0.21 | 0.15 | 0.27 | 0.27 | 0.34 | 0.19 | -0.24 | -0.59 | -0.87 | -1.13 | -1.22 | -1.45 | -1.60 | -1.50 | -1.43 | -1.33 | -1.04 | -0.74 | -0.25 | 0.06 | 0.15 | 0.00 | 0.26 | 0.13 | --    | --   | -1.60 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: May 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   | 0.71  | 0.81  | 0.71 | 0.72 | 0.76 | 1.13  | 0.00  | -0.39 | -0.73 | -0.86 | -1.02 | -1.10 | -1.22 | -1.26 | -1.24 | -1.14 | -0.93 | -0.68 | -0.16 | 1.33  | 2.68  | 4.84  | 1.19  | 0.95  | 0.21  | 4.84 | -1.26 |
| 2   | 0.71  | 0.81  | 0.68 | 0.91 | 0.92 | 0.69  | 0.00  | -0.47 | -0.74 | -0.93 | -1.01 | -1.25 | -1.25 | -1.43 | -1.21 | -1.20 | -0.93 | -0.61 | -0.14 | 1.35  | 3.27  | 3.53  | 1.27  | 0.53  | 0.15  | 3.53 | -1.43 |
| 3   | 1.53  | 2.03  | 1.04 | 2.16 | 1.14 | 0.88  | 0.04  | -0.38 | -0.68 | -0.79 | -1.06 | -1.17 | -1.34 | -1.15 | -1.17 | -1.04 | -1.02 | -0.63 | -0.13 | 1.00  | 2.04  | 1.80  | 1.00  | 0.55  | 0.20  | 2.16 | -1.34 |
| 4   | 0.98  | 1.75  | 0.96 | 1.06 | 1.05 | 0.89  | 0.16  | -0.40 | -0.59 | -0.78 | -1.01 | -1.18 | -1.10 | -1.17 | -1.06 | -1.09 | -0.87 | -0.63 | -0.14 | 1.54  | 2.61  | 1.91  | 0.95  | 0.94  | 0.20  | 2.61 | -1.18 |
| 5   | 0.65  | 0.56  | 0.67 | 0.65 | 0.95 | 2.45  | 0.44  | -0.28 | -0.63 | -0.89 | -0.88 | -1.22 | -1.13 | -1.00 | -1.02 | -1.10 | -0.93 | -0.30 | -0.06 | 0.13  | 0.47  | 0.57  | 0.69  | 0.71  | -0.02 | 2.45 | -1.22 |
| 6   | 0.40  | 0.93  | 1.64 | 1.26 | 1.36 | 0.84  | 0.54  | -0.45 | -0.73 | -0.93 | -1.20 | -1.33 | -1.22 | -1.31 | -1.11 | -0.94 | -0.69 | -0.40 | -0.24 | -0.11 | 0.05  | 0.11  | 0.36  | 0.30  | -0.12 | 1.64 | -1.33 |
| 7   | 0.65  | 1.36  | 1.11 | 0.64 | 0.63 | 0.52  | -0.35 | -0.71 | -1.02 | -1.08 | -1.48 | -1.57 | -1.09 | -1.55 | -1.32 | -1.03 | -0.79 | -0.59 | -0.49 | 0.09  | 0.75  | 0.48  | 0.75  | 0.40  | -0.24 | 1.36 | -1.57 |
| 8   | 1.33  | 1.20  | 1.69 | 1.72 | 0.62 | -0.02 | -0.26 | -0.66 | -0.78 | -1.07 | -1.00 | -1.33 | -1.34 | -1.35 | -1.17 | -1.18 | -0.86 | -0.61 | -0.39 | -0.11 | -0.18 | -0.16 | -0.23 | -0.08 | -0.26 | 1.72 | -1.35 |
| 9   | -0.12 | -0.15 | 0.01 | 0.00 | 0.09 | 0.19  | -0.14 | -0.48 | -0.47 | -0.78 | -0.57 | -0.62 | -0.93 | -1.04 | -1.05 | -1.09 | -0.99 | -0.74 | -0.41 | -0.20 | 0.05  | -0.05 | 0.06  | 0.10  | -0.39 | 0.19 | -1.09 |
| 10  | -0.06 | -0.07 | 0.18 | 0.30 | 0.42 | 0.29  | -0.24 | -0.54 | -0.71 | -0.93 | -1.07 | -1.17 | -1.23 | -1.31 | -1.00 | -1.18 | -1.13 | -0.77 | -0.44 | 0.12  | 0.85  | 1.35  | 2.16  | 0.48  | -0.24 | 2.16 | -1.31 |
| 11  | 0.54  | 0.25  | 0.37 | 0.52 | 0.32 | 0.33  | -0.21 | -0.75 | -0.90 | -0.90 | -1.01 | -1.20 | -1.37 | -1.40 | -1.39 | -1.19 | -1.05 | -0.76 | -0.35 | 0.38  | 1.42  | 1.84  | 1.00  | 0.48  | -0.21 | 1.84 | -1.40 |
| 12  | 0.41  | 0.38  | 0.94 | 0.75 | 0.35 | 0.32  | -0.21 | -0.40 | -0.55 | -0.81 | -0.91 | -1.05 | -1.17 | -1.20 | -1.15 | -1.11 | -0.92 | -0.66 | -0.27 | 0.67  | 0.94  | 1.40  | 2.90  | 2.21  | 0.04  | 2.90 | -1.20 |
| 13  | 1.04  | 1.16  | 0.93 | 2.56 | 1.66 | 2.04  | -0.02 | -0.46 | -0.69 | -0.81 | -0.86 | -1.11 | -1.26 | -1.39 | -1.28 | -1.13 | -0.90 | -0.55 | -0.16 | 0.08  | 0.32  | 0.57  | 0.46  | 0.96  | 0.05  | 2.56 | -1.39 |
| 14  | 1.66  | 2.16  | 0.93 | 0.96 | 1.33 | 1.10  | -0.09 | -0.43 | -0.65 | -0.80 | -0.83 | -1.03 | -1.11 | -0.94 | -0.99 | -0.80 | -0.75 | -0.52 | -0.20 | 0.05  | 0.20  | 0.80  | 1.52  | 1.00  | 0.11  | 2.16 | -1.11 |
| 15  | 0.46  | 0.67  | 0.88 | 1.77 | 0.29 | 0.26  | -0.19 | -0.51 | -0.82 | -1.06 | -1.23 | -1.23 | -1.37 | -1.41 | -1.35 | -1.19 | -0.91 | -0.56 | -0.25 | 0.01  | 0.11  | 0.61  | 0.37  | 0.28  | -0.27 | 1.77 | -1.41 |
| 16  | 0.58  | 0.24  | 0.44 | 0.28 | 0.33 | 0.14  | -0.25 | -0.60 | -0.76 | -1.02 | -1.20 | -1.22 | -1.42 | -1.25 | -1.26 | -1.32 | -1.10 | -0.78 | -0.41 | 0.30  | 1.19  | 1.41  | 1.72  | 1.85  | -0.17 | 1.85 | -1.42 |
| 17  | 0.45  | 0.62  | 1.19 | 0.73 | 1.10 | 0.74  | -0.20 | -0.59 | -0.87 | -0.90 | -1.04 | -1.27 | -1.23 | -1.27 | -1.31 | -1.14 | -1.06 | -0.76 | -0.36 | 0.01  | 0.07  | 0.15  | 0.18  | 0.16  | -0.28 | 1.19 | -1.31 |
| 18  | 0.11  | 0.27  | 0.46 | 0.93 | 0.89 | 0.70  | -0.21 | -0.66 | -0.93 | -1.00 | -1.31 | -1.42 | -1.48 | -1.51 | -1.33 | -1.33 | -1.12 | -0.72 | -0.37 | 0.26  | 0.66  | 0.71  | 0.43  | 0.84  | -0.30 | 0.93 | -1.51 |
| 19  | 0.44  | 0.26  | 0.60 | 0.59 | 1.07 | 1.97  | 0.02  | -0.53 | -0.81 | -0.94 | -1.02 | -1.06 | -1.27 | -0.98 | -1.17 | -1.12 | -1.10 | -0.80 | -0.40 | 0.35  | 0.94  | 2.43  | 1.29  | 0.59  | -0.03 | 2.43 | -1.27 |
| 20  | 0.70  | 0.68  | 1.17 | 0.99 | 1.16 | 2.33  | 0.16  | -0.48 | -0.78 | -1.04 | -1.04 | -1.25 | -1.11 | -1.03 | -1.24 | -1.18 | -0.98 | -0.74 | -0.35 | 0.50  | 1.91  | 2.34  | 0.82  | 0.70  | 0.09  | 2.34 | -1.25 |
| 21  | 1.44  | 1.98  | 1.05 | 0.82 | 1.30 | 0.92  | 0.30  | -0.38 | -0.81 | -1.18 | -1.17 | -1.15 | -1.22 | -1.21 | -1.10 | -1.19 | -1.05 | -0.71 | -0.32 | 0.81  | 2.21  | 4.19  | 1.27  | 1.01  | 0.24  | 4.19 | -1.22 |
| 22  | 0.86  | 1.65  | 1.78 | 1.64 | 1.25 | 1.32  | 0.57  | -0.47 | -0.74 | -0.89 | -1.07 | -1.17 | -1.20 | -1.21 | -1.28 | -1.27 | -1.08 | -0.68 | -0.23 | 0.66  | 1.81  | 4.13  | 1.90  | 1.48  | 0.32  | 4.13 | -1.28 |
| 23  | 2.43  | 1.21  | 1.79 | 1.25 | 1.92 | 1.05  | 0.03  | -0.40 | -0.83 | -0.76 | -1.02 | -1.20 | -1.28 | -1.29 | -1.28 | -1.22 | -0.99 | -0.67 | -0.27 | 0.91  | 2.52  | 2.99  | 0.94  | 0.68  | 0.27  | 2.99 | -1.29 |
| 24  | 1.08  | 1.76  | 1.68 | 1.35 | 1.77 | 1.23  | 0.08  | -0.44 | -0.78 | -0.88 | -1.04 | -1.03 | -1.19 | -1.40 | -1.32 | -1.21 | -0.94 | -0.62 | -0.19 | 0.16  | 0.15  | 0.27  | 0.41  | 0.32  | -0.03 | 1.77 | -1.40 |
| 25  | 0.64  | 1.67  | 1.25 | 0.91 | 1.14 | 1.30  | 0.30  | -0.38 | -0.67 | -1.01 | -1.12 | -1.22 | -1.27 | -1.25 | -1.07 | -1.02 | -1.02 | -0.52 | -0.17 | 0.06  | 0.15  | 0.24  | 0.32  | 0.32  | -0.10 | 1.67 | -1.27 |
| 26  | 1.39  | 2.70  | 3.87 | 3.00 | 3.84 | 0.78  | -0.23 | -0.50 | -0.83 | -1.00 | -1.18 | -1.36 | -1.35 | -1.44 | -1.37 | -1.26 | -0.94 | -0.62 | -0.26 | 0.09  | 0.17  | 0.32  | 0.61  | 0.42  | 0.20  | 3.87 | -1.44 |
| 27  | 0.50  | 1.22  | 1.93 | 2.33 | 0.52 | 0.48  | -0.20 | -0.43 | -0.75 | -0.92 | -0.96 | -1.16 | -1.15 | -1.18 | -1.25 | -1.22 | -0.97 | -0.78 | -0.45 | 0.47  | 1.88  | 2.64  | 2.81  | 0.69  | 0.17  | 2.81 | -1.25 |
| 28  | 0.60  | 0.70  | 1.48 | 1.20 | 0.80 | 0.53  | -0.12 | -0.46 | -0.79 | -0.89 | -1.01 | -1.07 | -1.15 | -1.22 | -1.12 | -1.02 | -1.03 | -0.72 | -0.41 | 0.74  | 2.02  | 2.15  | 1.26  | 1.02  | 0.06  | 2.15 | -1.22 |
| 29  | 0.58  | 0.74  | 1.34 | 0.60 | 0.79 | 1.73  | 0.74  | -0.56 | -0.65 | -0.77 | -1.00 | -1.06 | -1.05 | -1.26 | -1.08 | -0.73 | -0.88 | -0.55 | -0.12 | 0.93  | 1.64  | 2.41  | 2.39  | 1.00  | 0.22  | 2.41 | -1.26 |
| 30  | 1.03  | 0.75  | 1.49 | 2.05 | 2.38 | 1.85  | 0.10  | -0.37 | -0.67 | -0.89 | -1.03 | -1.16 | -1.14 | -1.24 | -1.25 | -0.97 | -0.95 | -0.69 | -0.18 | 0.24  | -0.12 | -0.01 | 0.27  | 0.44  | 0.00  | 2.38 | -1.25 |
| 31  | 1.40  | 0.52  | 0.62 | 1.30 | 0.83 | 1.28  | -0.09 | -0.46 | -0.79 | -1.07 | -1.04 | -1.03 | -1.33 | -1.29 | -1.34 | -1.10 | -0.87 | -0.61 | -0.30 | -0.03 | 0.03  | 0.02  | 0.35  | 0.74  | -0.18 | 1.40 | -1.34 |
| Avg | 0.81  | 0.99  | 1.12 | 1.16 | 1.06 | 0.98  | 0.02  | -0.48 | -0.75 | -0.92 | -1.04 | -1.17 | -1.22 | -1.26 | -1.20 | -1.12 | -0.96 | -0.64 | -0.28 | 0.41  | 1.06  | 1.48  | 1.01  | 0.71  | -0.01 | --   | --    |
| Max | 2.43  | 2.70  | 3.87 | 3.00 | 3.84 | 2.45  | 0.74  | -0.28 | -0.47 | -0.76 | -0.57 | -0.62 | -0.93 | -0.94 | -0.99 | -0.73 | -0.69 | -0.30 | -0.06 | 1.54  | 3.27  | 4.84  | 2.90  | 2.21  | --    | 4.84 | --    |
| Min | -0.12 | -0.15 | 0.01 | 0.00 | 0.09 | -0.02 | -0.35 | -0.75 | -1.02 | -1.18 | -1.48 | -1.57 | -1.48 | -1.55 | -1.39 | -1.33 | -1.13 | -0.80 | -0.49 | -0.20 | -0.18 | -0.16 | -0.23 | -0.08 | --    | --   | -1.57 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, DeltaTemp\_C"**  
**Month: Jun 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           | 0.84 | 0.97 | 1.56 | 0.77 | 0.83 | 0.61 | 0.04  | -0.35 | -0.72 | -0.96 | -1.22 | -1.23 | -1.41 | -1.22 | -1.22 | -1.17 | -1.02 | -0.73 | -0.42 | 0.28  | 0.47 | 0.52 | 1.06 | 2.51 | -0.05 | 2.51  | -1.41 |
| 2           | 2.25 | 1.09 | 1.42 | 2.09 | 2.63 | 1.26 | -0.25 | -0.62 | -0.88 | -1.07 | -1.22 | -1.17 | -1.30 | -1.14 | -1.33 | -1.23 | -1.02 | -0.77 | -0.49 | 0.43  | 1.35 | 2.00 | 1.75 | 1.15 | 0.21  | 2.63  | -1.33 |
| 3           | 1.51 | 1.68 | 1.25 | 0.72 | 1.27 | 1.14 | 0.01  | -0.51 | -0.78 | -0.84 | -1.09 | -1.16 | -1.16 | -1.34 | -1.34 | -1.24 | -1.09 | -0.72 | -0.33 | 0.53  | 1.45 | 1.86 | 2.35 | 3.43 | 0.23  | 3.43  | -1.34 |
| 4           | 3.29 | 1.83 | 0.95 | 0.64 | 0.77 | 0.79 | -0.07 | -0.55 | -0.74 | -0.81 | -0.79 | -1.07 | -1.22 | -1.28 | -1.27 | -1.14 | -1.00 | -0.73 | -0.34 | 0.18  | 0.99 | 1.99 | 2.28 | 3.04 | 0.24  | 3.29  | -1.28 |
| 5           | 3.46 | 1.92 | 2.09 | 0.89 | 1.31 | 1.96 | 0.29  | -0.53 | -0.72 | -0.90 | -1.07 | -1.25 | -1.19 | -1.34 | -1.29 | -1.23 | -1.09 | -0.76 | -0.41 | 0.17  | 0.77 | 1.13 | 1.68 | 1.70 | 0.23  | 3.46  | -1.34 |
| 6           | 2.21 | 1.35 | 0.74 | 0.59 | 1.11 | 1.33 | -0.03 | -0.52 | -0.73 | -0.87 | -1.00 | -1.14 | -1.11 | -1.30 | -1.21 | -1.21 | -0.99 | -0.68 | -0.38 | 0.07  | 0.33 | 0.94 | 1.40 | 1.49 | 0.02  | 2.21  | -1.30 |
| 7           | 1.50 | --   | --   | --   | --   | --   | -0.16 | -0.41 | -0.77 | -1.06 | -1.00 | -1.17 | -1.11 | -1.31 | -1.36 | -1.21 | -0.99 | -0.71 | -0.37 | --    | --   | --   | --   | --   | -0.72 | 1.50  | -1.36 |
| 8           | --   | --   | --   | --   | --   | --   | -0.09 | -0.51 | -0.74 | -0.91 | -1.12 | -1.10 | -1.21 | -1.27 | -1.36 | -1.08 | -0.97 | -0.75 | -0.33 | --    | --   | --   | --   | --   | -0.88 | -0.09 | -1.36 |
| 9           | --   | --   | --   | --   | --   | --   | -0.17 | -0.38 | -0.69 | -0.82 | -1.06 | -1.17 | -1.19 | -1.24 | -1.24 | -0.98 | -0.89 | -0.71 | -0.44 | 0.06  | 0.54 | 1.33 | 1.19 | 2.89 | -0.28 | 2.89  | -1.24 |
| 10          | 2.01 | 2.31 | 2.75 | 2.04 | 2.09 | 1.00 | 0.02  | -0.56 | -0.75 | -0.92 | -1.09 | -1.26 | -1.43 | -1.31 | -1.23 | -1.06 | -0.89 | -0.64 | -0.30 | 0.19  | 0.52 | 1.24 | 1.90 | 1.25 | 0.25  | 2.75  | -1.43 |
| 11          | 0.43 | 0.26 | 0.38 | 1.26 | 1.76 | 0.73 | -0.19 | -0.48 | -0.80 | -1.01 | -1.15 | -1.27 | -1.30 | -1.32 | -1.35 | -1.16 | -0.96 | -0.66 | -0.39 | -0.03 | 0.26 | 0.24 | 0.18 | 0.37 | -0.26 | 1.76  | -1.35 |
| 12          | 0.65 | 0.54 | 0.51 | 1.13 | 0.81 | 0.96 | -0.06 | -0.58 | -0.81 | -0.95 | -1.19 | -1.30 | -1.28 | -1.32 | -1.08 | -1.24 | -1.00 | -0.81 | -0.51 | -0.04 | 0.31 | 1.21 | 2.55 | 3.63 | 0.01  | 3.63  | -1.32 |
| 13          | 3.34 | 2.25 | 2.00 | 1.90 | 2.12 | 1.85 | -0.06 | -0.55 | -0.66 | -0.78 | -1.00 | -1.01 | -1.13 | -1.25 | -1.29 | -1.13 | -0.98 | -0.80 | -0.52 | 0.59  | 2.01 | 3.13 | 1.71 | 0.94 | 0.44  | 3.34  | -1.29 |
| 14          | 0.68 | 0.66 | 0.78 | 0.69 | 1.21 | 1.78 | 0.07  | -0.45 | -0.54 | -0.84 | -0.96 | -1.09 | -1.25 | -1.20 | -1.17 | -1.21 | -1.01 | -0.68 | -0.38 | 0.95  | 2.33 | 3.34 | 1.61 | 1.06 | 0.18  | 3.34  | -1.25 |
| 15          | 0.97 | 0.93 | 1.18 | 1.25 | 2.37 | 0.78 | -0.10 | -0.28 | -0.59 | -0.79 | -1.05 | -1.20 | -1.27 | -1.08 | -1.04 | -1.01 | -1.03 | -0.66 | -0.48 | 0.89  | 3.22 | 3.18 | 1.12 | 1.08 | 0.27  | 3.22  | -1.27 |
| 16          | 1.00 | 1.14 | 2.65 | 1.99 | 1.71 | 0.81 | 0.01  | -0.46 | -0.77 | -0.90 | -1.02 | -1.18 | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   | --   | 0.41  | 2.65  | -1.18 |
| 17          | --   | --   | --   | --   | --   | --   | 0.08  | -0.44 | -0.68 | -0.79 | -0.98 | -1.20 | -1.26 | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   | --   | -0.75 | 0.08  | -1.26 |
| 18          | --   | --   | --   | --   | --   | --   | -0.12 | -0.41 | -0.69 | -0.76 | -1.06 | -1.18 | -1.32 | -1.31 | -1.27 | -1.18 | -0.96 | -0.70 | --    | --    | --   | --   | --   | --   | -0.91 | -0.12 | -1.32 |
| 19          | --   | --   | --   | --   | --   | --   | 1.05  | -0.41 | -0.69 | -0.82 | -0.93 | -1.15 | -1.22 | -1.25 | -1.28 | -1.23 | -1.03 | -0.62 | -0.28 | 0.16  | --   | --   | --   | --   | -0.69 | 1.05  | -1.28 |
| 20          | --   | --   | --   | --   | --   | --   | 0.29  | -0.35 | -0.65 | -0.86 | -1.09 | -1.08 | -1.24 | -1.22 | -1.22 | -1.14 | -1.04 | -0.67 | -0.27 | 0.15  | --   | --   | --   | --   | -0.74 | 0.29  | -1.24 |
| 21          | --   | --   | --   | --   | --   | --   | 0.07  | -0.46 | -0.77 | -0.93 | -0.99 | -1.13 | -1.16 | -1.29 | -1.28 | -1.19 | -1.03 | -0.74 | -0.32 | --    | --   | --   | --   | --   | -0.86 | 0.07  | -1.29 |
| 22          | --   | --   | --   | --   | --   | --   | -0.02 | -0.49 | -0.73 | -0.92 | -1.06 | -1.18 | -1.44 | -1.46 | -1.32 | -1.22 | -1.05 | -0.69 | -0.36 | --    | --   | --   | --   | --   | -0.92 | -0.02 | -1.46 |
| 23          | --   | --   | --   | --   | --   | --   | -0.01 | -0.57 | -0.78 | -0.93 | -1.20 | -1.26 | -1.36 | -1.33 | --    | --    | --    | --    | --    | --    | --   | --   | --   | --   | -0.93 | -0.01 | -1.36 |
| 24          | --   | --   | --   | --   | --   | --   | 0.37  | -0.43 | -0.73 | -0.81 | -0.92 | -1.11 | -1.17 | -1.21 | -1.20 | -1.23 | -1.04 | -0.67 | --    | --    | --   | --   | --   | --   | -0.85 | 0.37  | -1.23 |
| 25          | --   | --   | --   | --   | --   | --   | -0.05 | -0.47 | -0.72 | -1.02 | -1.15 | -1.10 | -1.08 | -1.24 | -1.17 | --    | --    | --    | --    | --    | --   | --   | --   | --   | -0.89 | -0.05 | -1.24 |
| 26          | --   | --   | --   | --   | --   | --   | -0.10 | -0.49 | -0.74 | -1.02 | -1.17 | -1.11 | -1.10 | -1.22 | -1.19 | -1.20 | -1.13 | -0.75 | -0.43 | --    | --   | --   | --   | --   | -0.90 | -0.10 | -1.22 |
| 27          | --   | --   | --   | --   | --   | --   | 0.08  | -0.47 | -0.77 | -0.89 | -1.12 | -1.28 | -1.36 | -1.46 | --    | --    | --    | --    | --    | --    | --   | --   | --   | --   | -0.91 | 0.08  | -1.46 |
| 28          | --   | --   | --   | --   | --   | --   | 0.12  | -0.50 | -0.76 | -0.95 | -1.21 | -1.23 | -1.24 | -1.17 | -1.20 | -1.10 | -1.04 | -0.68 | -0.43 | --    | --   | --   | --   | --   | -0.88 | 0.12  | -1.24 |
| 29          | --   | --   | --   | --   | --   | --   | -0.14 | -0.49 | -0.82 | -0.99 | -1.07 | -1.04 | -1.17 | -1.25 | -1.17 | -1.07 | -0.88 | -0.65 | -0.25 | --    | --   | --   | --   | --   | -0.85 | -0.14 | -1.25 |
| 30          | --   | --   | --   | --   | --   | --   | -0.16 | -0.41 | -0.59 | -0.85 | -0.97 | -1.05 | --    | --    | --    | --    | --    | --    | --    | --    | --   | --   | --   | --   | -0.67 | -0.16 | -1.05 |
| Avg         | 1.72 | 1.30 | 1.40 | 1.23 | 1.54 | 1.15 | 0.02  | -0.47 | -0.73 | -0.90 | -1.06 | -1.16 | -1.24 | -1.27 | -1.24 | -1.16 | -1.01 | -0.71 | -0.38 | 0.30  | 1.12 | 1.70 | 1.60 | 1.89 | -0.22 | --    | --    |
| Max         | 3.46 | 2.31 | 2.75 | 2.09 | 2.63 | 1.96 | 1.05  | -0.28 | -0.54 | -0.76 | -0.79 | -1.01 | -1.08 | -1.08 | -1.04 | -0.98 | -0.88 | -0.62 | -0.25 | 0.95  | 3.22 | 3.34 | 2.55 | 3.63 | --    | 3.63  | --    |
| Min         | 0.43 | 0.26 | 0.38 | 0.59 | 0.77 | 0.61 | -0.25 | -0.62 | -0.88 | -1.07 | -1.22 | -1.30 | -1.44 | -1.46 | -1.36 | -1.24 | -1.13 | -0.81 | -0.52 | -0.04 | 0.26 | 0.24 | 0.18 | 0.37 | --    | --    | -1.46 |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: Apr 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           | 42 | 44 | 47 | 50 | 54 | 53 | 46 | 33 | 28 | 26 | 24 | 23 | 22 | 21 | 20 | 19 | 21 | 21 | 22 | 26 | 30 | 31 | 35 | 38 | 32  | 54  | 19  |
| 2           | 46 | 48 | 52 | 55 | 58 | 56 | 54 | 46 | 37 | 33 | 29 | 26 | 22 | 20 | 18 | 17 | 18 | 17 | 19 | 23 | 25 | 30 | 34 | 36 | 34  | 58  | 17  |
| 3           | 37 | 39 | 39 | 36 | 34 | 41 | 45 | 32 | 24 | 22 | 20 | 18 | 16 | 14 | 14 | 14 | 14 | 12 | 14 | 18 | 21 | 30 | 37 | 41 | 26  | 45  | 12  |
| 4           | 45 | 52 | 50 | 45 | 39 | 43 | 46 | 40 | 33 | 24 | 19 | 13 | 11 | 12 | 11 | 11 | 12 | 13 | 13 | 16 | 19 | 24 | 26 | 28 | 27  | 52  | 11  |
| 5           | 28 | 27 | 22 | 19 | 17 | 15 | 15 | 13 | 12 | 11 | 10 | 10 | 9  | 9  | 9  | 8  | 8  | 8  | 9  | 11 | 13 | 15 | 18 | 23 | 14  | 28  | 8   |
| 6           | 26 | 27 | 27 | 30 | 34 | 35 | 31 | 21 | 16 | 12 | 10 | 9  | 8  | 8  | 8  | 7  | 8  | 8  | 9  | 11 | 13 | 16 | 19 | 20 | 17  | 35  | 7   |
| 7           | 22 | 23 | 26 | 29 | 30 | 30 | 30 | 23 | 15 | 13 | 11 | 10 | 10 | 9  | 9  | 9  | 9  | 9  | 11 | 14 | 18 | 21 | 23 | 24 | 18  | 30  | 9   |
| 8           | 26 | 29 | 31 | 32 | 33 | 32 | 30 | 26 | 16 | 11 | 11 | 10 | 8  | 7  | 8  | 8  | 6  | 5  | 10 | 18 | 24 | 29 | 30 | 30 | 20  | 33  | 5   |
| 9           | 25 | 28 | 31 | 35 | 37 | 40 | 43 | 35 | 27 | 23 | 21 | 19 | 17 | 13 | 13 | 14 | 13 | 13 | 13 | 16 | 19 | 20 | 25 | 28 | 24  | 43  | 13  |
| 10          | 30 | 32 | 34 | 34 | 38 | 40 | 39 | 30 | 21 | 17 | 14 | 12 | 10 | 8  | 7  | 6  | 5  | 7  | 7  | 8  | 9  | 12 | 14 | 17 | 19  | 40  | 5   |
| 11          | 18 | 19 | 20 | 22 | 24 | 26 | 24 | 17 | 13 | 10 | 9  | 8  | 6  | 6  | 5  | 5  | 6  | 6  | 7  | 8  | 10 | 12 | 14 | 15 | 13  | 26  | 5   |
| 12          | 18 | 20 | 23 | 24 | 25 | 26 | 26 | 20 | 12 | 10 | 9  | 8  | 8  | 7  | 7  | 7  | 8  | 8  | 9  | 11 | 13 | 15 | 17 | 18 | 15  | 26  | 7   |
| 13          | 20 | 20 | 21 | 24 | 26 | 27 | 28 | 21 | 14 | 11 | 10 | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 11 | 12 | 14 | 16 | 18 | 22 | 16  | 28  | 9   |
| 14          | 25 | 26 | 27 | 28 | 31 | 33 | 31 | 24 | 21 | 22 | 19 | 15 | 13 | 12 | 11 | 11 | 10 | 9  | 11 | 15 | 17 | 19 | 22 | 24 | 20  | 33  | 9   |
| 15          | 26 | 28 | 29 | 32 | 33 | 34 | 32 | 22 | 16 | 14 | 11 | 12 | 12 | 10 | 9  | 9  | 10 | 10 | 10 | 12 | 14 | 16 | 19 | 21 | 18  | 34  | 9   |
| 16          | 23 | 24 | 26 | 28 | 30 | 30 | 28 | 21 | 14 | 11 | 10 | 8  | 7  | 6  | 6  | 7  | 7  | 7  | 7  | 9  | 10 | 11 | 14 | 15 | 15  | 30  | 6   |
| 17          | 17 | 18 | 20 | 22 | 23 | 25 | 24 | 18 | 14 | 13 | 11 | 10 | 9  | 9  | 8  | 8  | 7  | 7  | 8  | 11 | 13 | 15 | 17 | 17 | 14  | 25  | 7   |
| 18          | 19 | 21 | 24 | 25 | 26 | 27 | 26 | 20 | 18 | 17 | 15 | 15 | 15 | 14 | 13 | 12 | 10 | 9  | 10 | 14 | 17 | 21 | 21 | 22 | 18  | 27  | 9   |
| 19          | 25 | 27 | 31 | 33 | 36 | 38 | 36 | 28 | 26 | 24 | 21 | 18 | 15 | 15 | 14 | 12 | 11 | 10 | 11 | 13 | 15 | 17 | 19 | 23 | 22  | 38  | 10  |
| 20          | 26 | 28 | 30 | 31 | 31 | 32 | 31 | 21 | 14 | 13 | 12 | 11 | 10 | 9  | 9  | 9  | 9  | 9  | 8  | 8  | 10 | 11 | 11 | 12 | 16  | 32  | 8   |
| 21          | 16 | 18 | 20 | 20 | 21 | 21 | 21 | 16 | 13 | 10 | 8  | 7  | 7  | 5  | 5  | 5  | 6  | 5  | 6  | 8  | 9  | 11 | 12 | 15 | 12  | 21  | 5   |
| 22          | 16 | 19 | 20 | 22 | 24 | 26 | 23 | 17 | 11 | 9  | 8  | 7  | 7  | 7  | 6  | 6  | 6  | 6  | 7  | 9  | 11 | 13 | 15 | 16 | 13  | 26  | 6   |
| 23          | 17 | 17 | 17 | 20 | 23 | 22 | 18 | 15 | 14 | 13 | 12 | 10 | 9  | 8  | 7  | 6  | 6  | 6  | 7  | 8  | 10 | 13 | 15 | 17 | 13  | 23  | 6   |
| 24          | 17 | 15 | 13 | 15 | 16 | 18 | 18 | 13 | 11 | 11 | 10 | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 10 | 11 | 14 | 16 | 13 | 14 | 12  | 18  | 9   |
| 25          | 16 | 19 | 22 | 22 | 26 | 32 | 35 | 38 | 41 | 38 | 34 | 30 | 26 | 23 | 22 | 21 | 18 | 17 | 15 | 11 | 11 | 14 | 18 | 21 | 24  | 41  | 11  |
| 26          | 22 | 24 | 26 | 26 | 25 | 26 | 27 | 21 | 18 | 15 | 12 | 9  | 8  | 8  | 9  | 8  | 9  | 9  | 10 | 11 | 13 | 14 | 16 | 17 | 16  | 27  | 8   |
| 27          | 17 | 23 | 30 | 29 | 27 | 27 | 26 | 21 | 18 | 18 | 19 | 19 | 18 | 17 | 17 | 18 | 18 | 17 | 18 | 19 | 21 | 23 | 22 | 25 | 21  | 30  | 17  |
| 28          | 28 | 35 | 35 | 37 | 39 | 42 | 41 | 36 | 34 | 32 | 35 | 37 | 40 | 31 | 21 | 12 | 9  | 9  | 4  | 5  | 5  | 9  | 11 | 12 | 25  | 42  | 4   |
| 29          | 17 | 19 | 22 | 21 | 24 | 24 | 22 | 18 | 15 | 14 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 11 | 12 | 14 | 17 | 18 | 19 | 20 | 16  | 24  | 10  |
| 30          | 22 | 23 | 23 | 23 | 25 | 27 | 22 | 15 | 12 | 11 | 10 | 9  | 9  | 8  | 7  | 7  | 7  | 7  | 8  | 10 | 11 | 13 | 14 | 16 | 14  | 27  | 7   |
| Avg         | 24 | 26 | 28 | 29 | 30 | 32 | 31 | 24 | 19 | 17 | 15 | 14 | 13 | 12 | 11 | 10 | 10 | 10 | 11 | 13 | 15 | 18 | 20 | 22 | 19  | --  | --  |
| Max         | 46 | 52 | 52 | 55 | 58 | 56 | 54 | 46 | 41 | 38 | 35 | 37 | 40 | 31 | 22 | 21 | 21 | 21 | 22 | 26 | 30 | 31 | 37 | 41 | --  | 58  | --  |
| Min         | 16 | 15 | 13 | 15 | 16 | 15 | 15 | 13 | 11 | 9  | 8  | 7  | 6  | 5  | 5  | 5  | 5  | 5  | 4  | 5  | 5  | 9  | 11 | 12 | --  | --  | 4   |



**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: May 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 | 18 | 19 | 20 | 22 | 21 | 19 | 13 | 9  | 8  | 7  | 7  | 7  | 7  | 6  | 6  | 6  | 7  | 7  | 8  | 10 | 11 | 13 | 14 | 12  | 22  | 6   |  |
| 2           | 15 | 16 | 18 | 19 | 19 | 20 | 18 | 13 | 10 | 10 | 10 | 9  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 10 | 12 | 14 | 15 | 16 | 13  | 20  | 8   |  |
| 3           | 18 | 19 | 16 | 19 | 21 | 22 | 20 | 14 | 11 | 10 | 9  | 9  | 9  | 9  | 8  | 8  | 8  | 8  | 9  | 11 | 13 | 14 | 15 | 16 | 13  | 22  | 8   |  |
| 4           | 16 | 18 | 18 | 20 | 20 | 17 | 15 | 14 | 11 | 8  | 7  | 6  | 5  | 5  | 5  | 5  | 6  | 6  | 7  | 8  | 9  | 11 | 12 | 13 | 11  | 20  | 5   |  |
| 5           | 13 | 14 | 15 | 16 | 16 | 15 | 13 | 11 | 10 | 9  | 8  | 7  | 7  | 7  | 6  | 6  | 6  | 6  | 8  | 9  | 10 | 12 | 12 | 13 | 11  | 16  | 6   |  |
| 6           | 13 | 14 | 16 | 17 | 17 | 18 | 18 | 14 | 13 | 14 | 13 | 11 | 10 | 10 | 8  | 8  | 8  | 9  | 18 | 25 | 27 | 29 | 31 | 33 | 16  | 33  | 8   |  |
| 7           | 32 | 35 | 38 | 44 | 48 | 51 | 56 | 56 | 53 | 50 | 44 | 39 | 36 | 31 | 30 | 28 | 28 | 31 | 32 | 33 | 33 | 32 | 32 | 32 | 39  | 56  | 28  |  |
| 8           | 33 | 33 | 33 | 35 | 35 | 37 | 35 | 31 | 27 | 23 | 23 | 23 | 23 | 22 | 21 | 21 | 22 | 26 | 26 | 28 | 37 | 52 | 63 | 83 | 33  | 83  | 21  |  |
| 9           | 87 | 86 | 83 | 85 | 86 | 88 | 84 | 75 | 72 | 61 | 58 | 47 | 40 | 35 | 31 | 27 | 27 | 35 | 49 | 53 | 57 | 62 | 65 | 71 | 61  | 88  | 27  |  |
| 10          | 69 | 71 | 72 | 73 | 79 | 79 | 73 | 65 | 59 | 53 | 47 | 41 | 35 | 32 | 30 | 27 | 26 | 27 | 28 | 31 | 36 | 42 | 53 | 51 | 50  | 79  | 26  |  |
| 11          | 50 | 52 | 51 | 57 | 58 | 59 | 51 | 37 | 33 | 33 | 31 | 28 | 27 | 25 | 24 | 23 | 22 | 22 | 22 | 25 | 30 | 37 | 40 | 41 | 37  | 59  | 22  |  |
| 12          | 43 | 46 | 46 | 50 | 51 | 49 | 43 | 37 | 28 | 24 | 21 | 20 | 18 | 16 | 15 | 13 | 12 | 13 | 13 | 15 | 20 | 24 | 29 | 33 | 28  | 51  | 12  |  |
| 13          | 32 | 33 | 32 | 32 | 30 | 35 | 32 | 21 | 17 | 16 | 15 | 14 | 14 | 13 | 11 | 9  | 8  | 8  | 9  | 12 | 14 | 16 | 17 | 20 | 19  | 35  | 8   |  |
| 14          | 22 | 24 | 24 | 24 | 27 | 31 | 27 | 20 | 21 | 18 | 16 | 15 | 14 | 15 | 14 | 14 | 13 | 13 | 14 | 18 | 19 | 20 | 22 | 26 | 20  | 31  | 13  |  |
| 15          | 28 | 29 | 31 | 34 | 41 | 42 | 36 | 27 | 21 | 20 | 16 | 15 | 13 | 11 | 14 | 16 | 14 | 10 | 10 | 12 | 14 | 16 | 18 | 22 | 21  | 42  | 10  |  |
| 16          | 24 | 28 | 33 | 35 | 36 | 36 | 37 | 38 | 41 | 39 | 34 | 30 | 26 | 22 | 20 | 17 | 15 | 12 | 14 | 18 | 21 | 24 | 26 | 28 | 27  | 41  | 12  |  |
| 17          | 28 | 29 | 32 | 32 | 33 | 37 | 32 | 27 | 26 | 25 | 23 | 20 | 17 | 16 | 13 | 12 | 13 | 14 | 15 | 20 | 25 | 27 | 30 | 32 | 24  | 37  | 12  |  |
| 18          | 32 | 34 | 34 | 37 | 38 | 37 | 32 | 33 | 32 | 27 | 22 | 17 | 14 | 13 | 12 | 9  | 7  | 7  | 8  | 10 | 12 | 12 | 13 | 15 | 21  | 38  | 7   |  |
| 19          | 20 | 26 | 29 | 33 | 36 | 38 | 33 | 28 | 23 | 19 | 17 | 15 | 13 | 12 | 11 | 9  | 10 | 10 | 10 | 11 | 13 | 14 | 15 | 16 | 19  | 38  | 9   |  |
| 20          | 16 | 16 | 18 | 17 | 16 | 18 | 15 | 13 | 12 | 11 | 10 | 10 | 9  | 8  | 8  | 8  | 8  | 8  | 9  | 10 | 12 | 14 | 16 | 16 | 12  | 18  | 8   |  |
| 21          | 17 | 16 | 13 | 12 | 14 | 14 | 14 | 11 | 11 | 11 | 10 | 8  | 7  | 6  | 5  | 6  | 6  | 6  | 7  | 8  | 9  | 11 | 12 | 13 | 10  | 17  | 5   |  |
| 22          | 14 | 15 | 16 | 15 | 18 | 18 | 15 | 11 | 10 | 9  | 9  | 9  | 8  | 7  | 6  | 6  | 6  | 7  | 7  | 8  | 11 | 12 | 13 | 13 | 11  | 18  | 6   |  |
| 23          | 14 | 16 | 14 | 14 | 16 | 17 | 15 | 11 | 9  | 8  | 8  | 8  | 7  | 6  | 5  | 5  | 5  | 5  | 5  | 6  | 7  | 8  | 9  | 10 | 9   | 17  | 5   |  |
| 24          | 11 | 12 | 12 | 12 | 13 | 16 | 15 | 11 | 10 | 9  | 8  | 8  | 7  | 6  | 6  | 6  | 6  | 6  | 6  | 7  | 9  | 10 | 11 | 10 | 9   | 16  | 6   |  |
| 25          | 11 | 11 | 13 | 13 | 14 | 14 | 13 | 10 | 10 | 9  | 7  | 7  | 6  | 5  | 5  | 4  | 4  | 5  | 6  | 7  | 7  | 8  | 11 | 12 | 9   | 14  | 4   |  |
| 26          | 14 | 15 | 16 | 17 | 19 | 20 | 18 | 15 | 15 | 12 | 11 | 8  | 6  | 6  | 6  | 7  | 6  | 7  | 8  | 10 | 10 | 10 | 12 | 12 | 12  | 20  | 6   |  |
| 27          | 13 | 14 | 15 | 17 | 18 | 17 | 15 | 12 | 10 | 9  | 8  | 7  | 7  | 7  | 7  | 7  | 7  | 6  | 7  | 9  | 10 | 11 | 12 | 14 | 11  | 18  | 6   |  |
| 28          | 14 | 15 | 17 | 17 | 19 | 21 | 18 | 14 | 11 | 11 | 11 | 10 | 8  | 7  | 5  | 4  | 5  | 6  | 6  | 6  | 7  | 8  | 9  | 11 | 11  | 21  | 4   |  |
| 29          | 12 | 13 | 13 | 14 | 14 | 15 | 13 | 10 | 9  | 8  | 9  | 8  | 7  | 6  | 5  | 5  | 5  | 6  | 6  | 6  | 7  | 8  | 9  | 11 | 9   | 15  | 5   |  |
| 30          | 11 | 12 | 14 | 15 | 16 | 18 | 16 | 16 | 13 | 12 | 12 | 12 | 12 | 10 | 9  | 8  | 8  | 8  | 8  | 13 | 23 | 22 | 23 | 25 | 14  | 25  | 8   |  |
| 31          | 27 | 27 | 27 | 29 | 31 | 33 | 28 | 23 | 21 | 20 | 18 | 16 | 14 | 11 | 11 | 10 | 10 | 9  | 10 | 13 | 14 | 13 | 13 | 16 | 18  | 33  | 9   |  |
| Avg         | 25 | 26 | 27 | 28 | 30 | 31 | 28 | 24 | 21 | 19 | 18 | 16 | 14 | 13 | 12 | 11 | 11 | 11 | 13 | 15 | 17 | 20 | 22 | 24 | 20  | --  | --  |  |
| Max         | 87 | 86 | 83 | 85 | 86 | 88 | 84 | 75 | 72 | 61 | 58 | 47 | 40 | 35 | 31 | 28 | 28 | 35 | 49 | 53 | 57 | 62 | 65 | 83 | --  | 88  | --  |  |
| Min         | 11 | 11 | 12 | 12 | 13 | 14 | 13 | 10 | 9  | 8  | 7  | 6  | 5  | 5  | 5  | 4  | 4  | 5  | 5  | 6  | 7  | 8  | 9  | 10 | --  | --  | 4   |  |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, RH\_Percent"**  
**Month: Jun 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 | 20 | 20 | 21 | 24 | 25 | 23 | 21 | 18 | 15 | 16 | 15 | 13 | 12 | 10 | 9  | 8  | 9  | 10 | 10 | 13 | 16 | 17 | 18 | 16  | 25  | 8   |
| 2           | 21 | 26 | 28 | 32 | 35 | 34 | 30 | 27 | 24 | 21 | 19 | 17 | 15 | 13 | 12 | 12 | 12 | 11 | 11 | 12 | 13 | 15 | 16 | 17 | 20  | 35  | 11  |
| 3           | 18 | 18 | 20 | 22 | 23 | 24 | 21 | 17 | 16 | 15 | 14 | 13 | 12 | 10 | 9  | 8  | 7  | 7  | 8  | 9  | 11 | 12 | 13 | 14 | 14  | 24  | 7   |
| 4           | 15 | 17 | 19 | 20 | 20 | 21 | 19 | 16 | 15 | 13 | 12 | 12 | 11 | 10 | 10 | 9  | 9  | 8  | 8  | 9  | 10 | 12 | 14 | 15 | 14  | 21  | 8   |
| 5           | 16 | 16 | 18 | 19 | 21 | 22 | 18 | 15 | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 13 | 14 | 16 | 16 | 14  | 22  | 10  |
| 6           | 17 | 20 | 23 | 23 | 22 | 23 | 20 | 17 | 15 | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 10 | 10 | 11 | 12 | 14 | 16 | 17 | 18 | 15  | 23  | 10  |
| 7           | 17 | 20 | 21 | 20 | 21 | 22 | 20 | 16 | 14 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 12 | 13 | 14  | 22  | 10  |
| 8           | 14 | 15 | 19 | 22 | 25 | 29 | 27 | 23 | 14 | 9  | 8  | 7  | 6  | 6  | 7  | 7  | 7  | 7  | 8  | 10 | 11 | 12 | 13 | 14 | 13  | 29  | 6   |
| 9           | 16 | 16 | 17 | 19 | 20 | 21 | 19 | 13 | 12 | 11 | 10 | 10 | 9  | 9  | 9  | 9  | 8  | 9  | 9  | 10 | 11 | 12 | 13 | 15 | 13  | 21  | 8   |
| 10          | 16 | 16 | 17 | 17 | 19 | 20 | 19 | 15 | 14 | 13 | 12 | 12 | 9  | 8  | 6  | 4  | 4  | 4  | 4  | 4  | 5  | 8  | 10 | 14 | 11  | 20  | 4   |
| 11          | 15 | 20 | 27 | 31 | 31 | 32 | 26 | 16 | 13 | 11 | 10 | 10 | 9  | 8  | 8  | 9  | 10 | 12 | 15 | 13 | 13 | 16 | 18 | 18 | 16  | 32  | 8   |
| 12          | 20 | 21 | 22 | 23 | 23 | 24 | 21 | 19 | 19 | 20 | 19 | 17 | 16 | 14 | 14 | 12 | 12 | 13 | 12 | 11 | 10 | 11 | 13 | 15 | 17  | 24  | 10  |
| 13          | 15 | 16 | 17 | 18 | 19 | 20 | 16 | 11 | 9  | 7  | 7  | 6  | 5  | 5  | 4  | 4  | 4  | 4  | 4  | 5  | 6  | 6  | 7  | 8  | 9   | 20  | 4   |
| 14          | 9  | 9  | 10 | 10 | 12 | 12 | 10 | 8  | 6  | 5  | 4  | 4  | 3  | 3  | 2  | 2  | 2  | 2  | 2  | 3  | 4  | 5  | 5  | 6  | 6   | 12  | 2   |
| 15          | 6  | 6  | 6  | 7  | 8  | 10 | 8  | 6  | 4  | 3  | 3  | 4  | 3  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 3  | 4  | 5  | 5  | 5   | 10  | 2   |
| 16          | 6  | 6  | 7  | 8  | 8  | 9  | 8  | 6  | 5  | 5  | 5  | 5  | 5  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 5  | 6  | 6  | 6  | 5   | 9   | 3   |
| 17          | 7  | 8  | 11 | 11 | 12 | 13 | 12 | 9  | 7  | 6  | 6  | 6  | 6  | 6  | 5  | 4  | 4  | 5  | 5  | 5  | 6  | 7  | 8  | 9  | 7   | 13  | 4   |
| 18          | 9  | 10 | 10 | 12 | 13 | 13 | 12 | 10 | 10 | 10 | 9  | 8  | 7  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 8  | 9  | 10 | 11 | 9   | 13  | 6   |
| 19          | 11 | 11 | 11 | 12 | 11 | 12 | 13 | 9  | 7  | 7  | 7  | 6  | 6  | 6  | 7  | 7  | 7  | 6  | 6  | 6  | 8  | 9  | 9  | 11 | 9   | 13  | 6   |
| 20          | 12 | 13 | 13 | 14 | 15 | 16 | 16 | 14 | 11 | 10 | 9  | 8  | 8  | 8  | 7  | 7  | 6  | 6  | 7  | 8  | 10 | 11 | 12 | 13 | 11  | 16  | 6   |
| 21          | 14 | 14 | 14 | 15 | 16 | 18 | 16 | 13 | 12 | 14 | 13 | 11 | 9  | 9  | 8  | 7  | 7  | 8  | 7  | 8  | 11 | 12 | 13 | 14 | 12  | 18  | 7   |
| 22          | 15 | 16 | 20 | 20 | 23 | 24 | 26 | 25 | 23 | 21 | 20 | 18 | 15 | 12 | 10 | 9  | 10 | 10 | 11 | 12 | 15 | 17 | 20 | 26 | 17  | 26  | 9   |
| 23          | 31 | 32 | 34 | 36 | 38 | 40 | 36 | 31 | 28 | 24 | 21 | 20 | 17 | 16 | 16 | 15 | 13 | 12 | 11 | 11 | 13 | 15 | 16 | 17 | 23  | 40  | 11  |
| 24          | 19 | 21 | 22 | 23 | 24 | 25 | 23 | 19 | 17 | 14 | 13 | 11 | 10 | 9  | 8  | 8  | 8  | 8  | 8  | 8  | 9  | 11 | 12 | 12 | 14  | 25  | 8   |
| 25          | 13 | 18 | 22 | 23 | 24 | 25 | 23 | 22 | 21 | 20 | 18 | 16 | 13 | 12 | 11 | 10 | 8  | 9  | 9  | 9  | 13 | 15 | 16 | 18 | 16  | 25  | 8   |
| 26          | 19 | 20 | 21 | 22 | 25 | 27 | 26 | 25 | 26 | 25 | 24 | 22 | 20 | 18 | 16 | 14 | 14 | 12 | 10 | 10 | 12 | 13 | 15 | 16 | 19  | 27  | 10  |
| 27          | 17 | 19 | 20 | 24 | 28 | 29 | 27 | 25 | 20 | 13 | 11 | 7  | 6  | 4  | 5  | 5  | 6  | 6  | 6  | 6  | 8  | 9  | 10 | 12 | 13  | 29  | 4   |
| 28          | 12 | 13 | 16 | 22 | 22 | 22 | 23 | 21 | 23 | 24 | 25 | 23 | 20 | 18 | 16 | 13 | 12 | 12 | 11 | 11 | 12 | 14 | 16 | 18 | 18  | 25  | 11  |
| 29          | 18 | 16 | 21 | 26 | 28 | 28 | 24 | 19 | 20 | 21 | 18 | 15 | 12 | 12 | 10 | 9  | 8  | 9  | 10 | 10 | 11 | 12 | 13 | 17 | 16  | 28  | 8   |
| 30          | 14 | 12 | 12 | 14 | 13 | 14 | 14 | 9  | 7  | 6  | 5  | 5  | 6  | 6  | 5  | 4  | 3  | 3  | 3  | 3  | 4  | 5  | 6  | 6  | 8   | 14  | 3   |
| Avg         | 15 | 16 | 18 | 20 | 21 | 22 | 20 | 17 | 15 | 13 | 13 | 11 | 10 | 9  | 9  | 8  | 8  | 8  | 8  | 8  | 10 | 11 | 12 | 14 | 13  | --  | --  |
| Max         | 31 | 32 | 34 | 36 | 38 | 40 | 36 | 31 | 28 | 25 | 25 | 23 | 20 | 18 | 16 | 15 | 14 | 13 | 15 | 13 | 15 | 17 | 20 | 26 | --  | 40  | --  |
| Min         | 6  | 6  | 6  | 7  | 8  | 9  | 8  | 6  | 4  | 3  | 3  | 4  | 3  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 3  | 4  | 5  | 5  | --  | --  | 2   |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: Apr 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      | 30.4 | 228  | 491 | 719 | 861   | 645   | 372   | 591   | 870 | 602 | 435 | 239 | 34.7 | 0      | 0  | 0  | 0  | 0  | 255 | 870   | 0   |
| 2           | 0 | 0 | 0 | 0 | 0 | 0      | 38.2 | 245  | 504 | 730 | 905   | 1,015 | 1,048 | 1,006 | 897 | 719 | 491 | 248 | 38.5 | 0      | 0  | 0  | 0  | 0  | 328 | 1,048 | 0   |
| 3           | 0 | 0 | 0 | 0 | 0 | 0      | 39.6 | 251  | 447 | 623 | 876   | 1,016 | 1,049 | 1,008 | 910 | 736 | 492 | 254 | 44.7 | 0      | 0  | 0  | 0  | 0  | 323 | 1,049 | 0   |
| 4           | 0 | 0 | 0 | 0 | 0 | 0      | 44   | 261  | 530 | 767 | 948   | 1,036 | 931   | 923   | 917 | 671 | 411 | 241 | 41.1 | 0      | 0  | 0  | 0  | 0  | 322 | 1,036 | 0   |
| 5           | 0 | 0 | 0 | 0 | 0 | 0      | 62.5 | 269  | 499 | 763 | 935   | 1,037 | 1,062 | 1,020 | 911 | 723 | 508 | 263 | 36.8 | 0      | 0  | 0  | 0  | 0  | 337 | 1,062 | 0   |
| 6           | 0 | 0 | 0 | 0 | 0 | 0      | 53.7 | 268  | 533 | 773 | 909   | 1,024 | 1,054 | 1,022 | 914 | 736 | 507 | 248 | 43.4 | 0      | 0  | 0  | 0  | 0  | 337 | 1,054 | 0   |
| 7           | 0 | 0 | 0 | 0 | 0 | 0      | 60   | 276  | 525 | 729 | 954   | 960   | 876   | 903   | 570 | 559 | 266 | 166 | 22.4 | 0      | 0  | 0  | 0  | 0  | 286 | 960   | 0   |
| 8           | 0 | 0 | 0 | 0 | 0 | 0.0113 | 43.5 | 185  | 472 | 696 | 793   | 912   | 1,051 | 1,025 | 797 | 600 | 521 | 271 | 44.8 | 0      | 0  | 0  | 0  | 0  | 309 | 1,051 | 0   |
| 9           | 0 | 0 | 0 | 0 | 0 | 0      | 60.6 | 281  | 543 | 679 | 779   | 751   | 885   | 978   | 597 | 585 | 448 | 206 | 45   | 0      | 0  | 0  | 0  | 0  | 285 | 978   | 0   |
| 10          | 0 | 0 | 0 | 0 | 0 | 0      | 66.5 | 291  | 540 | 742 | 943   | 1,051 | 1,074 | 1,040 | 932 | 749 | 510 | 262 | 52.4 | 0      | 0  | 0  | 0  | 0  | 344 | 1,074 | 0   |
| 11          | 0 | 0 | 0 | 0 | 0 | 0      | 77.9 | 281  | 454 | 632 | 906   | 1,023 | 895   | 881   | 939 | 727 | 477 | 197 | 54.8 | 0      | 0  | 0  | 0  | 0  | 314 | 1,023 | 0   |
| 12          | 0 | 0 | 0 | 0 | 0 | 0.029  | 72.8 | 287  | 540 | 770 | 944   | 1,051 | 1,078 | 1,032 | 926 | 747 | 511 | 273 | 51.2 | 0      | 0  | 0  | 0  | 0  | 345 | 1,078 | 0   |
| 13          | 0 | 0 | 0 | 0 | 0 | 0.14   | 62.4 | 279  | 558 | 724 | 910   | 880   | 1,052 | 853   | 583 | 541 | 435 | 272 | 47.3 | 0      | 0  | 0  | 0  | 0  | 300 | 1,052 | 0   |
| 14          | 0 | 0 | 0 | 0 | 0 | 0.0367 | 77.6 | 308  | 558 | 779 | 954   | 1,061 | 1,085 | 1,038 | 929 | 748 | 510 | 273 | 55.6 | 0      | 0  | 0  | 0  | 0  | 349 | 1,085 | 0   |
| 15          | 0 | 0 | 0 | 0 | 0 | 0.121  | 85.7 | 323  | 575 | 800 | 972   | 1,075 | 1,102 | 1,061 | 949 | 766 | 529 | 282 | 57.4 | 0      | 0  | 0  | 0  | 0  | 357 | 1,102 | 0   |
| 16          | 0 | 0 | 0 | 0 | 0 | 0.575  | 86.2 | 315  | 568 | 782 | 909   | 945   | 1,099 | 1,058 | 937 | 713 | 482 | 149 | 50.9 | 0      | 0  | 0  | 0  | 0  | 337 | 1,099 | 0   |
| 17          | 0 | 0 | 0 | 0 | 0 | 0.596  | 82.8 | 310  | 576 | 738 | 923   | 1,065 | 1,081 | 960   | 945 | 740 | 418 | 316 | 61   | 0      | 0  | 0  | 0  | 0  | 342 | 1,081 | 0   |
| 18          | 0 | 0 | 0 | 0 | 0 | 0.238  | 96.4 | 332  | 580 | 796 | 965   | 1,062 | 1,087 | 1,042 | 932 | 754 | 534 | 295 | 65.8 | 0      | 0  | 0  | 0  | 0  | 356 | 1,087 | 0   |
| 19          | 0 | 0 | 0 | 0 | 0 | 0.533  | 93.9 | 331  | 581 | 797 | 968   | 1,066 | 1,092 | 1,047 | 939 | 761 | 533 | 294 | 65.9 | 0      | 0  | 0  | 0  | 0  | 357 | 1,092 | 0   |
| 20          | 0 | 0 | 0 | 0 | 0 | 0.739  | 105  | 343  | 595 | 820 | 992   | 1,091 | 1,116 | 1,070 | 960 | 781 | 547 | 302 | 70.1 | 0      | 0  | 0  | 0  | 0  | 366 | 1,116 | 0   |
| 21          | 0 | 0 | 0 | 0 | 0 | 0.776  | 113  | 354  | 604 | 824 | 997   | 1,097 | 1,118 | 1,074 | 959 | 778 | 541 | 302 | 66.2 | 0      | 0  | 0  | 0  | 0  | 368 | 1,118 | 0   |
| 22          | 0 | 0 | 0 | 0 | 0 | 1.09   | 113  | 353  | 601 | 822 | 994   | 1,092 | 1,115 | 1,067 | 959 | 782 | 536 | 309 | 56   | 0      | 0  | 0  | 0  | 0  | 367 | 1,115 | 0   |
| 23          | 0 | 0 | 0 | 0 | 0 | 1.21   | 113  | 344  | 601 | 821 | 947   | 1,085 | 1,070 | 1,051 | 958 | 757 | 371 | 228 | 61.8 | 0.43   | 0  | 0  | 0  | 0  | 350 | 1,085 | 0   |
| 24          | 0 | 0 | 0 | 0 | 0 | 1.63   | 117  | 369  | 609 | 828 | 1,002 | 1,032 | 936   | 820   | 735 | 412 | 276 | 194 | 58.9 | 0      | 0  | 0  | 0  | 0  | 308 | 1,032 | 0   |
| 25          | 0 | 0 | 0 | 0 | 0 | 4.48   | 133  | 341  | 580 | 737 | 794   | 1,027 | 1,075 | 880   | 894 | 751 | 505 | 248 | 60.5 | 0.012  | 0  | 0  | 0  | 0  | 335 | 1,075 | 0   |
| 26          | 0 | 0 | 0 | 0 | 0 | 3.27   | 117  | 374  | 611 | 829 | 968   | 1,090 | 1,110 | 1,059 | 953 | 777 | 553 | 185 | 36   | 0      | 0  | 0  | 0  | 0  | 361 | 1,110 | 0   |
| 27          | 0 | 0 | 0 | 0 | 0 | 2.09   | 65.4 | 240  | 495 | 764 | 925   | 1,066 | 1,050 | 1,042 | 838 | 513 | 254 | 170 | 42.8 | 0.394  | 0  | 0  | 0  | 0  | 311 | 1,066 | 0   |
| 28          | 0 | 0 | 0 | 0 | 0 | 1.69   | 79.1 | 89.2 | 195 | 306 | 219   | 294   | 574   | 1,065 | 944 | 786 | 559 | 299 | 74   | 0.185  | 0  | 0  | 0  | 0  | 228 | 1,065 | 0   |
| 29          | 0 | 0 | 0 | 0 | 0 | 4.47   | 140  | 386  | 631 | 849 | 1,019 | 1,117 | 1,139 | 1,093 | 999 | 815 | 597 | 337 | 92.2 | 0.252  | 0  | 0  | 0  | 0  | 384 | 1,139 | 0   |
| 30          | 0 | 0 | 0 | 0 | 0 | 5.76   | 146  | 388  | 631 | 850 | 1,014 | 1,111 | 1,133 | 1,087 | 982 | 799 | 579 | 329 | 90.9 | 0.19   | 0  | 0  | 0  | 0  | 381 | 1,133 | 0   |
| Avg         | 0 | 0 | 0 | 0 | 0 | 0.983  | 82.5 | 297  | 541 | 750 | 907   | 992   | 1,013 | 993   | 886 | 704 | 478 | 255 | 54.1 | 0.0488 | 0  | 0  | 0  | 0  | 331 | --    | --  |
| Max         | 0 | 0 | 0 | 0 | 0 | 5.76   | 146  | 388  | 631 | 850 | 1,019 | 1,117 | 1,139 | 1,093 | 999 | 815 | 597 | 337 | 92.2 | 0.43   | 0  | 0  | 0  | 0  | --  | 1,139 | --  |
| Min         | 0 | 0 | 0 | 0 | 0 | 0      | 30.4 | 89.2 | 195 | 306 | 219   | 294   | 372   | 591   | 570 | 412 | 254 | 149 | 22.4 | 0      | 0  | 0  | 0  | 0  | --  | --    | 0   |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: May 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 | 5.99 | 148 | 390 | 635 | 849 | 1,014 | 1,110 | 1,131 | 1,084 | 980   | 800 | 579 | 331 | 91.8 | 0.202 | 0  | 0  | 0  | 0  | 381 | 1,131 | 0   |
| 2           | 0 | 0 | 0       | 0 | 0 | 6.24 | 146 | 386 | 630 | 839 | 1,003 | 1,097 | 1,119 | 1,079 | 971   | 775 | 554 | 302 | 93.7 | 0.319 | 0  | 0  | 0  | 0  | 375 | 1,119 | 0   |
| 3           | 0 | 0 | 0       | 0 | 0 | 5.22 | 147 | 383 | 625 | 831 | 995   | 1,091 | 1,118 | 1,067 | 968   | 789 | 576 | 330 | 93.8 | 0.387 | 0  | 0  | 0  | 0  | 376 | 1,118 | 0   |
| 4           | 0 | 0 | 0       | 0 | 0 | 4.94 | 146 | 381 | 623 | 831 | 1,000 | 1,099 | 1,124 | 1,074 | 969   | 795 | 574 | 326 | 92.2 | 0.284 | 0  | 0  | 0  | 0  | 377 | 1,124 | 0   |
| 5           | 0 | 0 | 0       | 0 | 0 | 7.14 | 145 | 378 | 615 | 820 | 976   | 1,074 | 1,097 | 1,047 | 945   | 777 | 515 | 111 | 31.7 | 0     | 0  | 0  | 0  | 0  | 356 | 1,097 | 0   |
| 6           | 0 | 0 | 0       | 0 | 0 | 7.83 | 133 | 378 | 629 | 841 | 1,006 | 1,104 | 1,127 | 1,072 | 961   | 762 | 523 | 315 | 91.5 | 1.5   | 0  | 0  | 0  | 0  | 373 | 1,127 | 0   |
| 7           | 0 | 0 | 0       | 0 | 0 | 8.78 | 144 | 358 | 626 | 678 | 943   | 951   | 539   | 991   | 762   | 433 | 338 | 228 | 116  | 1.16  | 0  | 0  | 0  | 0  | 296 | 991   | 0   |
| 8           | 0 | 0 | 0       | 0 | 0 | 5.36 | 127 | 395 | 615 | 825 | 834   | 1,085 | 1,116 | 1,067 | 824   | 566 | 355 | 270 | 84.2 | 0.41  | 0  | 0  | 0  | 0  | 340 | 1,116 | 0   |
| 9           | 0 | 0 | 0.00125 | 0 | 0 | 5.63 | 140 | 352 | 331 | 584 | 513   | 694   | 1,143 | 1,056 | 859   | 804 | 580 | 322 | 43.4 | 0.542 | 0  | 0  | 0  | 0  | 309 | 1,143 | 0   |
| 10          | 0 | 0 | 0       | 0 | 0 | 8.01 | 145 | 395 | 633 | 839 | 929   | 946   | 980   | 951   | 742   | 789 | 602 | 304 | 109  | 1.92  | 0  | 0  | 0  | 0  | 349 | 980   | 0   |
| 11          | 0 | 0 | 0       | 0 | 0 | 12.5 | 162 | 391 | 633 | 841 | 999   | 1,095 | 1,121 | 1,079 | 969   | 790 | 579 | 334 | 104  | 1.46  | 0  | 0  | 0  | 0  | 380 | 1,121 | 0   |
| 12          | 0 | 0 | 0       | 0 | 0 | 12.9 | 166 | 397 | 633 | 847 | 991   | 1,045 | 1,128 | 1,083 | 977   | 791 | 499 | 308 | 113  | 3     | 0  | 0  | 0  | 0  | 375 | 1,128 | 0   |
| 13          | 0 | 0 | 0       | 0 | 0 | 12.7 | 174 | 412 | 657 | 863 | 1,021 | 1,117 | 1,145 | 1,099 | 988   | 814 | 604 | 356 | 116  | 2.32  | 0  | 0  | 0  | 0  | 391 | 1,145 | 0   |
| 14          | 0 | 0 | 0       | 0 | 0 | 16.5 | 186 | 363 | 516 | 651 | 639   | 915   | 830   | 659   | 856   | 473 | 494 | 340 | 114  | 3.85  | 0  | 0  | 0  | 0  | 294 | 915   | 0   |
| 15          | 0 | 0 | 0       | 0 | 0 | 15.6 | 179 | 420 | 660 | 872 | 1,032 | 1,120 | 1,140 | 1,103 | 984   | 804 | 603 | 371 | 128  | 2.79  | 0  | 0  | 0  | 0  | 393 | 1,140 | 0   |
| 16          | 0 | 0 | 0       | 0 | 0 | 5.86 | 157 | 389 | 495 | 753 | 886   | 949   | 1,061 | 768   | 874   | 844 | 622 | 367 | 117  | 0.966 | 0  | 0  | 0  | 0  | 345 | 1,061 | 0   |
| 17          | 0 | 0 | 0       | 0 | 0 | 16.5 | 177 | 415 | 656 | 860 | 1,016 | 1,112 | 1,137 | 1,094 | 990   | 811 | 599 | 355 | 119  | 3.65  | 0  | 0  | 0  | 0  | 390 | 1,137 | 0   |
| 18          | 0 | 0 | 0       | 0 | 0 | 15.6 | 171 | 410 | 651 | 859 | 1,024 | 1,127 | 1,156 | 1,115 | 1,002 | 833 | 627 | 380 | 132  | 4.12  | 0  | 0  | 0  | 0  | 396 | 1,156 | 0   |
| 19          | 0 | 0 | 0       | 0 | 0 | 19.6 | 193 | 438 | 682 | 887 | 1,042 | 1,138 | 1,166 | 1,122 | 1,013 | 838 | 626 | 375 | 133  | 4.58  | 0  | 0  | 0  | 0  | 403 | 1,166 | 0   |
| 20          | 0 | 0 | 0       | 0 | 0 | 20.1 | 192 | 433 | 679 | 886 | 1,034 | 1,127 | 1,152 | 1,114 | 1,002 | 831 | 622 | 378 | 136  | 4.64  | 0  | 0  | 0  | 0  | 400 | 1,152 | 0   |
| 21          | 0 | 0 | 0       | 0 | 0 | 18.3 | 184 | 428 | 668 | 867 | 1,024 | 1,125 | 1,151 | 1,113 | 1,004 | 828 | 622 | 376 | 133  | 4.27  | 0  | 0  | 0  | 0  | 398 | 1,151 | 0   |
| 22          | 0 | 0 | 0       | 0 | 0 | 20.8 | 190 | 425 | 667 | 868 | 1,022 | 1,114 | 1,141 | 1,103 | 1,001 | 826 | 612 | 363 | 110  | 4.04  | 0  | 0  | 0  | 0  | 394 | 1,141 | 0   |
| 23          | 0 | 0 | 0       | 0 | 0 | 21.7 | 191 | 425 | 670 | 874 | 1,031 | 1,128 | 1,156 | 1,127 | 1,012 | 837 | 622 | 352 | 128  | 5.72  | 0  | 0  | 0  | 0  | 399 | 1,156 | 0   |
| 24          | 0 | 0 | 0       | 0 | 0 | 22.2 | 196 | 432 | 675 | 876 | 1,027 | 1,119 | 1,146 | 1,106 | 987   | 817 | 593 | 311 | 109  | 2.48  | 0  | 0  | 0  | 0  | 392 | 1,146 | 0   |
| 25          | 0 | 0 | 0       | 0 | 0 | 13.1 | 174 | 388 | 603 | 836 | 956   | 1,015 | 1,061 | 1,065 | 806   | 723 | 606 | 296 | 111  | 12.8  | 0  | 0  | 0  | 0  | 361 | 1,065 | 0   |
| 26          | 0 | 0 | 0       | 0 | 0 | 24.6 | 200 | 437 | 684 | 895 | 1,048 | 1,150 | 1,178 | 1,138 | 1,021 | 844 | 639 | 386 | 145  | 7.22  | 0  | 0  | 0  | 0  | 408 | 1,178 | 0   |
| 27          | 0 | 0 | 0       | 0 | 0 | 25.4 | 206 | 442 | 689 | 894 | 1,050 | 1,144 | 1,171 | 1,130 | 1,018 | 844 | 635 | 393 | 147  | 7.24  | 0  | 0  | 0  | 0  | 408 | 1,171 | 0   |
| 28          | 0 | 0 | 0       | 0 | 0 | 24.1 | 196 | 430 | 674 | 877 | 1,033 | 1,126 | 1,158 | 1,120 | 1,025 | 847 | 632 | 381 | 143  | 7.41  | 0  | 0  | 0  | 0  | 403 | 1,158 | 0   |
| 29          | 0 | 0 | 0       | 0 | 0 | 23   | 192 | 425 | 668 | 865 | 1,002 | 1,115 | 1,130 | 1,039 | 876   | 508 | 521 | 253 | 85.8 | 5.68  | 0  | 0  | 0  | 0  | 363 | 1,130 | 0   |
| 30          | 0 | 0 | 0       | 0 | 0 | 22.2 | 172 | 322 | 600 | 744 | 813   | 931   | 958   | 1,018 | 884   | 533 | 546 | 353 | 92.1 | 10    | 0  | 0  | 0  | 0  | 333 | 1,018 | 0   |
| 31          | 0 | 0 | 0       | 0 | 0 | 7.49 | 183 | 413 | 648 | 849 | 997   | 1,078 | 1,114 | 1,057 | 952   | 727 | 495 | 354 | 84.8 | 3.55  | 0  | 0  | 0  | 0  | 373 | 1,114 | 0   |
| Avg         | 0 | 0 | 0.00004 | 0 | 0 | 14.1 | 170 | 401 | 628 | 829 | 964   | 1,066 | 1,093 | 1,056 | 943   | 757 | 568 | 330 | 108  | 3.5   | 0  | 0  | 0  | 0  | 372 | --    | --  |
| Max         | 0 | 0 | 0.00125 | 0 | 0 | 25.4 | 206 | 442 | 689 | 895 | 1,050 | 1,150 | 1,178 | 1,138 | 1,025 | 847 | 639 | 393 | 147  | 12.8  | 0  | 0  | 0  | 0  | --  | 1,178 | --  |
| Min         | 0 | 0 | 0       | 0 | 0 | 4.94 | 127 | 322 | 331 | 584 | 513   | 694   | 539   | 659   | 742   | 433 | 338 | 111 | 31.7 | 0     | 0  | 0  | 0  | 0  | --  | --    | 0   |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, SR\_Wm2\_2m"**  
**Month: Jun 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 | 11.3 | 88.2 | 260 | 641 | 836 | 1,035 | 1,108 | 1,129 | 1,089 | 987   | 816 | 616 | 377 | 146 | 8.78 | 0  | 0  | 0  | 0  | 381 | 1,129 | 0   |  |
| 2           | 0 | 0 | 0 | 0 | 0 | 19.4 | 189  | 412 | 646 | 845 | 994   | 1,077 | 1,107 | 1,075 | 973   | 803 | 604 | 368 | 138 | 8.36 | 0  | 0  | 0  | 0  | 386 | 1,107 | 0   |  |
| 3           | 0 | 0 | 0 | 0 | 0 | 22.1 | 184  | 414 | 649 | 845 | 998   | 1,088 | 1,119 | 1,089 | 984   | 817 | 612 | 368 | 128 | 6.5  | 0  | 0  | 0  | 0  | 388 | 1,119 | 0   |  |
| 4           | 0 | 0 | 0 | 0 | 0 | 21.6 | 188  | 418 | 651 | 849 | 996   | 1,084 | 1,112 | 1,081 | 982   | 800 | 614 | 376 | 148 | 9.65 | 0  | 0  | 0  | 0  | 389 | 1,112 | 0   |  |
| 5           | 0 | 0 | 0 | 0 | 0 | 23   | 188  | 416 | 648 | 848 | 997   | 1,084 | 1,111 | 1,080 | 978   | 812 | 595 | 370 | 137 | 12.3 | 0  | 0  | 0  | 0  | 387 | 1,111 | 0   |  |
| 6           | 0 | 0 | 0 | 0 | 0 | 28.4 | 179  | 415 | 627 | 832 | 980   | 1,076 | 1,098 | 1,075 | 979   | 789 | 590 | 361 | 152 | 11.5 | 0  | 0  | 0  | 0  | 383 | 1,098 | 0   |  |
| 7           | 0 | 0 | 0 | 0 | 0 | 31.2 | 198  | 413 | 628 | 843 | 979   | 997   | 1,065 | 1,035 | 981   | 816 | 598 | 387 | 180 | 17.3 | 0  | 0  | 0  | 0  | 382 | 1,065 | 0   |  |
| 8           | 0 | 0 | 0 | 0 | 0 | 36.6 | 154  | 413 | 616 | 842 | 1,005 | 1,080 | 1,103 | 1,057 | 963   | 815 | 560 | 407 | 151 | 7.27 | 0  | 0  | 0  | 0  | 384 | 1,103 | 0   |  |
| 9           | 0 | 0 | 0 | 0 | 0 | 23.5 | 187  | 409 | 647 | 843 | 996   | 1,083 | 1,069 | 1,068 | 990   | 824 | 619 | 382 | 157 | 12.5 | 0  | 0  | 0  | 0  | 388 | 1,083 | 0   |  |
| 10          | 0 | 0 | 0 | 0 | 0 | 29.6 | 182  | 444 | 654 | 870 | 1,038 | 1,130 | 1,157 | 1,120 | 953   | 773 | 656 | 427 | 172 | 13.2 | 0  | 0  | 0  | 0  | 401 | 1,157 | 0   |  |
| 11          | 0 | 0 | 0 | 0 | 0 | 26.8 | 208  | 445 | 683 | 885 | 1,033 | 1,117 | 1,142 | 1,114 | 1,007 | 834 | 634 | 396 | 160 | 16   | 0  | 0  | 0  | 0  | 404 | 1,142 | 0   |  |
| 12          | 0 | 0 | 0 | 0 | 0 | 26.7 | 202  | 433 | 665 | 869 | 1,021 | 1,110 | 1,142 | 1,116 | 1,018 | 853 | 646 | 409 | 173 | 15.7 | 0  | 0  | 0  | 0  | 404 | 1,142 | 0   |  |
| 13          | 0 | 0 | 0 | 0 | 0 | 28.5 | 213  | 451 | 691 | 897 | 1,052 | 1,147 | 1,179 | 1,154 | 1,053 | 878 | 673 | 426 | 179 | 14.1 | 0  | 0  | 0  | 0  | 418 | 1,179 | 0   |  |
| 14          | 0 | 0 | 0 | 0 | 0 | 28.2 | 213  | 448 | 690 | 901 | 1,061 | 1,149 | 1,184 | 1,158 | 1,061 | 885 | 680 | 433 | 184 | 15.1 | 0  | 0  | 0  | 0  | 420 | 1,184 | 0   |  |
| 15          | 0 | 0 | 0 | 0 | 0 | 28.2 | 217  | 447 | 695 | 902 | 1,056 | 1,145 | 1,179 | 1,152 | 1,050 | 879 | 676 | 429 | 179 | 14.5 | 0  | 0  | 0  | 0  | 419 | 1,179 | 0   |  |
| 16          | 0 | 0 | 0 | 0 | 0 | 28.1 | 210  | 444 | 686 | 890 | 1,043 | 1,135 | 1,158 | 1,138 | 1,037 | 873 | 669 | 425 | 180 | 14.8 | 0  | 0  | 0  | 0  | 414 | 1,158 | 0   |  |
| 17          | 0 | 0 | 0 | 0 | 0 | 23.4 | 191  | 424 | 664 | 863 | 1,016 | 1,107 | 1,140 | 1,111 | 1,013 | 853 | 651 | 409 | 168 | 14.8 | 0  | 0  | 0  | 0  | 402 | 1,140 | 0   |  |
| 18          | 0 | 0 | 0 | 0 | 0 | 25.9 | 179  | 390 | 620 | 811 | 972   | 1,073 | 1,109 | 1,078 | 984   | 826 | 622 | 381 | 154 | 12.5 | 0  | 0  | 0  | 0  | 385 | 1,109 | 0   |  |
| 19          | 0 | 0 | 0 | 0 | 0 | 8.4  | 141  | 398 | 598 | 843 | 931   | 1,081 | 1,106 | 1,075 | 977   | 815 | 623 | 390 | 165 | 19.2 | 0  | 0  | 0  | 0  | 382 | 1,106 | 0   |  |
| 20          | 0 | 0 | 0 | 0 | 0 | 16.4 | 129  | 307 | 602 | 784 | 945   | 1,027 | 1,069 | 1,056 | 964   | 801 | 609 | 374 | 140 | 11.8 | 0  | 0  | 0  | 0  | 368 | 1,069 | 0   |  |
| 21          | 0 | 0 | 0 | 0 | 0 | 19.4 | 173  | 389 | 595 | 812 | 961   | 1,053 | 1,084 | 1,060 | 966   | 807 | 608 | 377 | 157 | 14.4 | 0  | 0  | 0  | 0  | 378 | 1,084 | 0   |  |
| 22          | 0 | 0 | 0 | 0 | 0 | 15.6 | 158  | 382 | 611 | 810 | 956   | 1,045 | 1,084 | 1,061 | 973   | 814 | 614 | 386 | 161 | 16.2 | 0  | 0  | 0  | 0  | 379 | 1,084 | 0   |  |
| 23          | 0 | 0 | 0 | 0 | 0 | 18.9 | 173  | 393 | 621 | 820 | 975   | 1,063 | 1,096 | 1,068 | 975   | 815 | 626 | 399 | 150 | 11   | 0  | 0  | 0  | 0  | 384 | 1,096 | 0   |  |
| 24          | 0 | 0 | 0 | 0 | 0 | 14.7 | 159  | 368 | 607 | 801 | 951   | 1,049 | 1,087 | 1,062 | 969   | 810 | 617 | 386 | 162 | 12   | 0  | 0  | 0  | 0  | 377 | 1,087 | 0   |  |
| 25          | 0 | 0 | 0 | 0 | 0 | 19.9 | 137  | 388 | 572 | 840 | 938   | 1,046 | 1,073 | 1,051 | 961   | 803 | 622 | 389 | 164 | 16.4 | 0  | 0  | 0  | 0  | 376 | 1,073 | 0   |  |
| 26          | 0 | 0 | 0 | 0 | 0 | 16.5 | 163  | 379 | 605 | 797 | 948   | 1,040 | 1,075 | 1,057 | 963   | 809 | 617 | 390 | 167 | 15.5 | 0  | 0  | 0  | 0  | 377 | 1,075 | 0   |  |
| 27          | 0 | 0 | 0 | 0 | 0 | 17.8 | 172  | 398 | 626 | 828 | 990   | 1,089 | 1,125 | 1,114 | 1,024 | 866 | 663 | 426 | 185 | 17.9 | 0  | 0  | 0  | 0  | 397 | 1,125 | 0   |  |
| 28          | 0 | 0 | 0 | 0 | 0 | 19.6 | 182  | 406 | 617 | 819 | 963   | 1,041 | 1,051 | 1,024 | 943   | 808 | 618 | 391 | 163 | 14.6 | 0  | 0  | 0  | 0  | 377 | 1,051 | 0   |  |
| 29          | 0 | 0 | 0 | 0 | 0 | 20.1 | 190  | 417 | 650 | 847 | 999   | 1,082 | 1,121 | 1,096 | 1,005 | 842 | 641 | 397 | 165 | 16.7 | 0  | 0  | 0  | 0  | 395 | 1,121 | 0   |  |
| 30          | 0 | 0 | 0 | 0 | 0 | 19.8 | 188  | 416 | 656 | 861 | 1,014 | 1,103 | 1,141 | 1,128 | 1,034 | 874 | 677 | 435 | 190 | 17.3 | 0  | 0  | 0  | 0  | 406 | 1,141 | 0   |  |
| Avg         | 0 | 0 | 0 | 0 | 0 | 22.3 | 178  | 404 | 639 | 844 | 995   | 1,084 | 1,114 | 1,088 | 991   | 827 | 628 | 396 | 162 | 13.6 | 0  | 0  | 0  | 0  | 391 | --    | --  |  |
| Max         | 0 | 0 | 0 | 0 | 0 | 36.6 | 217  | 451 | 695 | 902 | 1,061 | 1,149 | 1,184 | 1,158 | 1,061 | 885 | 680 | 435 | 190 | 19.2 | 0  | 0  | 0  | 0  | --  | 1,184 | --  |  |
| Min         | 0 | 0 | 0 | 0 | 0 | 8.4  | 88.2 | 260 | 572 | 784 | 931   | 997   | 1,051 | 1,024 | 943   | 773 | 560 | 361 | 128 | 6.5  | 0  | 0  | 0  | 0  | --  | --    | 0   |  |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Apr 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           | 9.4  | 8.9  | 8.4  | 7.6  | 6.8  | 6.9  | 8.7  | 12.7 | 15.0 | 16.3 | 17.2 | 17.5 | 17.9 | 18.5 | 19.4 | 19.7 | 19.5 | 19.4 | 18.4 | 15.9 | 14.0 | 14.0 | 12.7 | 11.7 | 14.0 | 19.7 | 6.8  |
| 2           | 10.6 | 9.2  | 8.0  | 6.5  | 6.4  | 7.3  | 8.3  | 11.4 | 15.0 | 17.2 | 18.7 | 20.1 | 21.9 | 23.3 | 24.1 | 24.7 | 24.9 | 24.7 | 23.5 | 21.0 | 19.5 | 16.3 | 15.1 | 15.1 | 16.4 | 24.9 | 6.4  |
| 3           | 14.4 | 13.6 | 13.0 | 13.9 | 14.3 | 11.7 | 11.5 | 16.4 | 19.7 | 21.1 | 22.5 | 23.6 | 25.0 | 26.0 | 27.2 | 27.9 | 27.9 | 27.2 | 25.7 | 23.6 | 21.9 | 19.5 | 17.7 | 16.2 | 20.1 | 27.9 | 11.5 |
| 4           | 15.4 | 13.2 | 13.2 | 12.1 | 11.1 | 10.2 | 9.7  | 12.4 | 15.9 | 18.3 | 19.9 | 21.3 | 22.1 | 22.7 | 23.3 | 23.5 | 23.1 | 22.7 | 21.5 | 18.4 | 16.2 | 13.6 | 13.4 | 13.6 | 16.9 | 23.5 | 9.7  |
| 5           | 13.4 | 13.7 | 15.7 | 15.9 | 16.5 | 17.0 | 17.0 | 18.3 | 20.0 | 22.1 | 23.8 | 24.8 | 25.7 | 26.5 | 27.4 | 27.8 | 28.2 | 28.2 | 26.4 | 23.0 | 20.6 | 18.8 | 16.6 | 15.1 | 20.9 | 28.2 | 13.4 |
| 6           | 14.5 | 14.4 | 14.1 | 13.0 | 11.1 | 10.5 | 12.2 | 17.7 | 21.9 | 24.5 | 26.4 | 28.4 | 29.6 | 30.2 | 30.8 | 31.1 | 31.1 | 30.4 | 28.5 | 25.0 | 22.6 | 20.1 | 19.2 | 18.7 | 21.9 | 31.1 | 10.5 |
| 7           | 18.1 | 17.2 | 15.8 | 14.5 | 14.3 | 14.1 | 14.6 | 18.9 | 24.1 | 25.9 | 27.1 | 28.2 | 29.0 | 29.8 | 29.8 | 30.1 | 29.8 | 29.5 | 27.5 | 24.1 | 21.3 | 20.2 | 18.8 | 18.2 | 22.5 | 30.1 | 14.1 |
| 8           | 17.0 | 15.3 | 14.3 | 13.8 | 13.3 | 13.6 | 14.5 | 17.5 | 22.6 | 24.9 | 25.9 | 27.0 | 28.2 | 29.1 | 29.0 | 28.5 | 28.6 | 27.8 | 26.3 | 24.3 | 23.2 | 21.5 | 21.2 | 19.5 | 21.9 | 29.1 | 13.3 |
| 9           | 18.2 | 16.0 | 14.0 | 11.9 | 11.1 | 10.3 | 10.2 | 14.8 | 18.1 | 19.7 | 20.9 | 22.1 | 22.8 | 24.0 | 24.4 | 24.6 | 24.8 | 24.1 | 22.9 | 20.5 | 19.0 | 16.7 | 13.7 | 12.6 | 18.2 | 24.8 | 10.2 |
| 10          | 12.1 | 10.7 | 10.7 | 10.1 | 9.0  | 8.3  | 9.1  | 13.4 | 17.5 | 20.3 | 22.6 | 24.4 | 25.7 | 26.6 | 27.1 | 27.3 | 27.3 | 26.9 | 25.3 | 22.0 | 19.6 | 16.6 | 15.7 | 14.5 | 18.5 | 27.3 | 8.3  |
| 11          | 14.2 | 13.5 | 12.6 | 11.6 | 10.8 | 10.2 | 11.7 | 16.8 | 20.0 | 22.6 | 24.4 | 26.7 | 28.4 | 29.3 | 29.9 | 30.5 | 30.2 | 29.2 | 27.7 | 25.2 | 23.0 | 20.3 | 18.3 | 18.0 | 21.1 | 30.5 | 10.2 |
| 12          | 16.8 | 15.0 | 13.9 | 13.5 | 12.7 | 12.3 | 13.1 | 18.1 | 22.8 | 25.1 | 26.7 | 28.5 | 29.2 | 30.0 | 30.7 | 31.0 | 30.9 | 30.3 | 28.6 | 25.5 | 22.5 | 20.0 | 19.3 | 18.9 | 22.3 | 31.0 | 12.3 |
| 13          | 18.1 | 18.0 | 16.8 | 15.0 | 14.0 | 13.5 | 13.9 | 19.2 | 23.7 | 26.5 | 28.1 | 29.3 | 30.9 | 31.3 | 31.3 | 31.3 | 31.5 | 31.4 | 29.8 | 27.0 | 24.2 | 23.1 | 19.9 | 16.9 | 23.5 | 31.5 | 13.5 |
| 14          | 15.7 | 15.3 | 15.1 | 14.3 | 13.5 | 13.0 | 14.0 | 18.4 | 21.9 | 23.6 | 25.1 | 26.8 | 28.0 | 28.8 | 29.2 | 29.8 | 30.3 | 30.4 | 28.9 | 25.9 | 23.3 | 21.4 | 18.1 | 16.9 | 22.0 | 30.4 | 13.0 |
| 15          | 17.1 | 15.8 | 15.0 | 13.6 | 13.2 | 12.4 | 13.1 | 18.7 | 21.9 | 23.6 | 25.5 | 26.5 | 27.5 | 28.2 | 28.8 | 29.1 | 29.3 | 28.8 | 27.4 | 24.2 | 22.0 | 19.0 | 17.4 | 17.0 | 21.5 | 29.3 | 12.4 |
| 16          | 16.4 | 15.9 | 14.5 | 13.2 | 12.2 | 12.4 | 13.7 | 19.0 | 23.4 | 25.6 | 27.5 | 28.9 | 29.7 | 30.6 | 30.9 | 31.0 | 30.6 | 29.7 | 28.5 | 25.1 | 22.7 | 21.0 | 19.2 | 18.4 | 22.5 | 31.0 | 12.2 |
| 17          | 17.3 | 16.8 | 15.1 | 14.3 | 13.6 | 13.2 | 14.5 | 19.5 | 24.0 | 25.5 | 26.8 | 28.6 | 29.4 | 30.3 | 30.7 | 31.3 | 31.2 | 30.9 | 29.4 | 26.0 | 23.8 | 22.3 | 20.2 | 20.1 | 23.1 | 31.3 | 13.2 |
| 18          | 19.1 | 17.8 | 16.6 | 16.3 | 15.5 | 15.1 | 16.1 | 21.2 | 24.8 | 26.5 | 28.1 | 29.5 | 30.4 | 31.2 | 31.8 | 32.7 | 32.9 | 32.3 | 30.7 | 27.6 | 25.5 | 24.7 | 25.0 | 24.3 | 24.8 | 32.9 | 15.1 |
| 19          | 22.3 | 20.3 | 18.2 | 17.2 | 16.0 | 15.6 | 16.9 | 21.7 | 23.5 | 24.8 | 26.2 | 27.7 | 29.1 | 29.8 | 30.5 | 30.8 | 30.7 | 30.4 | 29.1 | 26.1 | 24.1 | 22.1 | 19.9 | 17.8 | 23.8 | 30.8 | 15.6 |
| 20          | 16.8 | 16.4 | 15.3 | 14.5 | 13.7 | 13.0 | 14.3 | 20.0 | 23.6 | 25.4 | 27.0 | 28.2 | 29.2 | 30.0 | 30.3 | 30.6 | 30.8 | 30.5 | 29.5 | 26.3 | 23.3 | 20.8 | 19.8 | 18.0 | 22.8 | 30.8 | 13.0 |
| 21          | 15.3 | 14.8 | 14.2 | 14.0 | 13.4 | 13.6 | 14.6 | 19.5 | 22.6 | 25.6 | 27.5 | 29.0 | 30.1 | 30.7 | 31.4 | 32.0 | 32.0 | 31.5 | 30.3 | 27.1 | 25.0 | 21.7 | 19.6 | 18.4 | 23.1 | 32.0 | 13.4 |
| 22          | 18.0 | 16.0 | 15.4 | 14.5 | 13.6 | 13.7 | 15.9 | 21.1 | 25.2 | 27.3 | 29.0 | 30.4 | 31.5 | 32.3 | 32.8 | 33.5 | 33.6 | 33.2 | 31.4 | 28.4 | 25.3 | 22.3 | 21.6 | 21.0 | 24.5 | 33.6 | 13.6 |
| 23          | 19.9 | 19.9 | 19.8 | 16.9 | 14.9 | 15.8 | 21.5 | 25.8 | 28.2 | 29.6 | 30.7 | 31.8 | 32.7 | 33.8 | 35.0 | 35.2 | 34.7 | 34.4 | 33.2 | 30.5 | 28.6 | 26.9 | 24.6 | 22.7 | 27.0 | 35.2 | 14.9 |
| 24          | 21.4 | 21.6 | 21.3 | 19.4 | 18.6 | 16.8 | 18.1 | 24.2 | 26.5 | 27.9 | 29.0 | 30.2 | 31.0 | 31.4 | 31.9 | 31.6 | 30.8 | 30.2 | 29.2 | 26.9 | 25.3 | 23.8 | 23.9 | 23.4 | 25.6 | 31.9 | 16.8 |
| 25          | 21.8 | 20.6 | 19.2 | 19.1 | 18.0 | 18.2 | 18.4 | 20.8 | 21.7 | 22.6 | 23.4 | 24.6 | 25.7 | 25.7 | 26.8 | 27.2 | 27.5 | 27.0 | 26.3 | 25.4 | 23.7 | 22.3 | 21.5 | 20.6 | 22.8 | 27.5 | 18.0 |
| 26          | 19.1 | 17.7 | 15.2 | 12.9 | 12.1 | 12.6 | 14.2 | 18.7 | 21.0 | 22.7 | 23.9 | 25.4 | 26.5 | 27.5 | 27.9 | 29.1 | 29.2 | 28.7 | 27.8 | 25.9 | 24.0 | 21.8 | 20.0 | 19.9 | 21.8 | 29.2 | 12.1 |
| 27          | 20.1 | 19.9 | 19.5 | 19.3 | 18.4 | 17.1 | 18.5 | 21.2 | 23.4 | 25.0 | 26.0 | 27.1 | 28.5 | 29.8 | 30.3 | 30.4 | 29.7 | 29.3 | 28.4 | 27.2 | 25.8 | 23.8 | 24.0 | 22.2 | 24.4 | 30.4 | 17.1 |
| 28          | 21.0 | 20.5 | 20.4 | 20.1 | 19.4 | 18.0 | 18.6 | 21.0 | 22.5 | 23.4 | 23.7 | 23.9 | 24.1 | 26.2 | 26.9 | 27.3 | 27.5 | 26.5 | 23.7 | 21.7 | 20.1 | 18.9 | 17.4 | 16.1 | 22.0 | 27.5 | 16.1 |
| 29          | 14.3 | 13.2 | 11.7 | 11.9 | 9.7  | 8.9  | 11.1 | 14.5 | 17.7 | 18.7 | 20.2 | 21.2 | 22.4 | 22.8 | 23.6 | 24.0 | 24.2 | 24.0 | 23.2 | 20.7 | 18.4 | 17.2 | 16.6 | 14.9 | 17.7 | 24.2 | 8.9  |
| 30          | 13.7 | 13.6 | 13.8 | 13.5 | 12.1 | 11.1 | 13.8 | 18.7 | 21.4 | 22.8 | 23.9 | 25.2 | 25.9 | 26.5 | 27.2 | 27.6 | 27.6 | 27.4 | 26.6 | 24.1 | 20.6 | 18.8 | 17.4 | 17.1 | 20.4 | 27.6 | 11.1 |
| Avg         | 16.7 | 15.8 | 15.0 | 14.1 | 13.3 | 12.9 | 14.1 | 18.4 | 21.7 | 23.5 | 24.9 | 26.2 | 27.3 | 28.1 | 28.7 | 29.0 | 29.0 | 28.6 | 27.2 | 24.5 | 22.3 | 20.3 | 18.9 | 17.9 | 21.6 | --   | --   |
| Max         | 22.3 | 21.6 | 21.3 | 20.1 | 19.4 | 18.2 | 21.5 | 25.8 | 28.2 | 29.6 | 30.7 | 31.8 | 32.7 | 33.8 | 35.0 | 35.2 | 34.7 | 34.4 | 33.2 | 30.5 | 28.6 | 26.9 | 25.0 | 24.3 | --   | 35.2 | --   |
| Min         | 9.4  | 8.9  | 8.0  | 6.5  | 6.4  | 6.9  | 8.3  | 11.4 | 15.0 | 16.3 | 17.2 | 17.5 | 17.9 | 18.5 | 19.4 | 19.7 | 19.5 | 19.4 | 18.4 | 15.9 | 14.0 | 13.6 | 12.7 | 11.7 | --   | --   | 6.4  |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: May 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   | 16.5 | 15.8 | 14.7 | 13.9 | 12.9 | 13.1 | 15.5 | 21.3 | 24.3 | 25.9 | 27.2 | 28.2 | 29.3 | 30.3 | 30.8 | 31.3 | 31.2 | 30.9 | 30.1 | 27.4 | 25.2 | 21.6 | 19.9 | 19.5 | 23.2 | 31.3 | 12.9 |
| 2   | 19.3 | 18.1 | 16.7 | 15.9 | 15.6 | 15.4 | 17.7 | 22.4 | 25.8 | 27.2 | 28.5 | 30.0 | 31.3 | 32.7 | 33.2 | 33.3 | 33.1 | 32.7 | 31.8 | 29.0 | 25.9 | 23.1 | 21.9 | 22.1 | 25.1 | 33.3 | 15.4 |
| 3   | 20.5 | 19.5 | 20.5 | 18.4 | 17.7 | 17.6 | 20.0 | 25.2 | 27.8 | 29.6 | 31.3 | 32.5 | 33.5 | 34.1 | 34.7 | 35.2 | 35.5 | 34.9 | 33.8 | 30.8 | 27.3 | 25.0 | 24.6 | 24.1 | 27.2 | 35.5 | 17.6 |
| 4   | 24.3 | 23.3 | 21.5 | 20.3 | 19.9 | 20.0 | 21.3 | 25.7 | 28.9 | 31.6 | 33.6 | 35.1 | 36.2 | 37.0 | 36.9 | 37.3 | 37.1 | 36.7 | 35.7 | 32.5 | 29.5 | 26.5 | 25.8 | 25.1 | 29.2 | 37.3 | 19.9 |
| 5   | 24.5 | 23.9 | 23.1 | 22.6 | 22.2 | 22.7 | 26.7 | 30.9 | 33.6 | 35.2 | 36.4 | 38.0 | 38.5 | 38.9 | 39.5 | 40.0 | 39.6 | 38.4 | 37.0 | 35.4 | 32.9 | 30.8 | 30.1 | 29.1 | 32.1 | 40.0 | 22.2 |
| 6   | 28.7 | 27.1 | 24.5 | 23.0 | 22.5 | 21.3 | 22.7 | 27.4 | 29.4 | 30.9 | 31.5 | 32.5 | 33.2 | 34.3 | 35.2 | 35.0 | 34.3 | 33.3 | 30.6 | 27.1 | 25.3 | 24.1 | 23.1 | 21.7 | 28.3 | 35.2 | 21.3 |
| 7   | 20.1 | 18.4 | 17.4 | 16.9 | 16.1 | 15.5 | 16.8 | 17.6 | 18.5 | 19.4 | 20.6 | 20.8 | 20.0 | 21.1 | 21.0 | 21.0 | 21.3 | 20.8 | 20.5 | 19.7 | 18.1 | 17.0 | 16.2 | 16.6 | 18.8 | 21.3 | 15.5 |
| 8   | 15.0 | 15.0 | 14.2 | 13.3 | 13.5 | 13.8 | 14.5 | 16.3 | 17.6 | 19.2 | 20.8 | 22.9 | 24.3 | 25.5 | 26.0 | 26.1 | 24.8 | 23.2 | 22.1 | 20.8 | 18.5 | 16.5 | 14.9 | 13.3 | 18.8 | 26.1 | 13.3 |
| 9   | 13.0 | 13.3 | 13.0 | 12.9 | 12.7 | 12.3 | 12.9 | 14.5 | 14.7 | 15.9 | 16.0 | 17.3 | 18.7 | 20.0 | 20.8 | 21.5 | 21.8 | 20.0 | 17.0 | 16.2 | 15.8 | 15.2 | 14.6 | 13.9 | 16.0 | 21.8 | 12.3 |
| 10  | 14.0 | 13.8 | 13.6 | 13.3 | 12.2 | 11.9 | 13.1 | 14.8 | 16.2 | 17.5 | 19.1 | 20.2 | 21.4 | 22.4 | 22.6 | 23.6 | 23.9 | 23.5 | 23.0 | 21.7 | 20.1 | 19.1 | 17.6 | 17.1 | 18.1 | 23.9 | 11.9 |
| 11  | 16.6 | 16.1 | 16.0 | 14.6 | 14.4 | 14.2 | 16.4 | 20.7 | 22.3 | 23.4 | 24.7 | 26.0 | 27.3 | 28.3 | 29.1 | 29.5 | 30.0 | 30.0 | 29.3 | 27.6 | 25.5 | 23.6 | 22.5 | 21.9 | 22.9 | 30.0 | 14.2 |
| 12  | 21.0 | 20.0 | 20.0 | 18.8 | 18.5 | 18.7 | 20.8 | 23.7 | 27.0 | 29.2 | 30.6 | 31.8 | 32.9 | 33.8 | 34.2 | 34.7 | 34.6 | 34.1 | 33.4 | 31.1 | 28.3 | 26.3 | 24.4 | 22.9 | 27.1 | 34.7 | 18.5 |
| 13  | 22.6 | 22.0 | 21.8 | 21.2 | 21.0 | 18.5 | 20.6 | 25.3 | 27.3 | 28.6 | 29.6 | 31.1 | 32.3 | 33.4 | 34.3 | 35.1 | 34.9 | 34.3 | 32.6 | 29.9 | 27.7 | 26.1 | 24.6 | 22.9 | 27.4 | 35.1 | 18.5 |
| 14  | 21.1 | 20.6 | 20.5 | 19.8 | 18.9 | 17.3 | 20.6 | 25.3 | 26.5 | 27.7 | 28.3 | 29.5 | 30.1 | 30.1 | 30.8 | 31.0 | 31.8 | 31.8 | 31.0 | 28.8 | 26.2 | 24.1 | 23.0 | 22.2 | 25.7 | 31.8 | 17.3 |
| 15  | 21.7 | 20.8 | 19.5 | 17.5 | 15.4 | 15.1 | 18.0 | 22.1 | 24.2 | 25.8 | 26.8 | 28.0 | 29.5 | 30.2 | 29.7 | 29.0 | 28.4 | 27.1 | 25.6 | 23.6 | 22.0 | 20.6 | 19.8 | 18.7 | 23.3 | 30.2 | 15.1 |
| 16  | 17.1 | 16.1 | 14.7 | 14.0 | 13.4 | 13.7 | 14.4 | 16.0 | 17.0 | 18.2 | 19.6 | 20.4 | 21.6 | 22.1 | 22.8 | 23.4 | 23.2 | 22.8 | 22.1 | 20.6 | 18.5 | 17.2 | 15.8 | 14.4 | 18.3 | 23.4 | 13.4 |
| 17  | 14.2 | 13.7 | 12.6 | 13.3 | 12.8 | 11.8 | 14.6 | 17.9 | 19.4 | 20.6 | 21.9 | 23.1 | 24.3 | 25.4 | 26.6 | 27.3 | 28.1 | 27.9 | 27.3 | 25.8 | 24.4 | 23.1 | 22.0 | 21.0 | 20.8 | 28.1 | 11.8 |
| 18  | 20.6 | 19.8 | 19.3 | 17.6 | 16.6 | 16.0 | 17.5 | 19.5 | 21.5 | 23.1 | 24.4 | 25.4 | 26.2 | 27.2 | 27.5 | 28.1 | 28.0 | 27.2 | 26.2 | 24.3 | 21.9 | 21.0 | 21.3 | 19.3 | 22.5 | 28.1 | 16.0 |
| 19  | 18.5 | 17.3 | 15.7 | 15.3 | 12.9 | 12.1 | 15.7 | 18.6 | 20.5 | 22.0 | 23.0 | 24.1 | 25.5 | 26.3 | 27.1 | 27.8 | 28.1 | 27.7 | 27.1 | 25.3 | 23.7 | 21.5 | 20.6 | 21.0 | 21.6 | 28.1 | 12.1 |
| 20  | 21.1 | 20.9 | 19.7 | 20.5 | 20.8 | 19.0 | 22.0 | 24.7 | 26.5 | 27.7 | 28.9 | 29.6 | 30.4 | 31.0 | 32.1 | 32.5 | 32.7 | 32.2 | 31.2 | 29.0 | 26.1 | 23.1 | 22.2 | 22.7 | 26.1 | 32.7 | 19.0 |
| 21  | 21.9 | 21.6 | 23.6 | 25.0 | 23.3 | 23.4 | 25.0 | 28.5 | 30.0 | 30.5 | 31.9 | 33.6 | 34.7 | 35.1 | 35.4 | 35.7 | 35.6 | 35.2 | 34.4 | 31.9 | 29.0 | 25.6 | 23.9 | 24.0 | 29.1 | 35.7 | 21.6 |
| 22  | 23.0 | 22.1 | 21.4 | 21.6 | 19.6 | 20.0 | 23.2 | 28.1 | 29.9 | 31.5 | 32.9 | 34.5 | 35.9 | 36.7 | 37.4 | 37.7 | 37.6 | 37.0 | 36.0 | 33.5 | 30.7 | 27.3 | 25.7 | 26.1 | 29.6 | 37.7 | 19.6 |
| 23  | 24.6 | 23.2 | 24.4 | 23.7 | 21.9 | 21.3 | 24.4 | 29.2 | 31.5 | 33.1 | 34.6 | 35.8 | 36.6 | 37.2 | 37.6 | 37.9 | 37.8 | 37.4 | 36.6 | 33.8 | 30.6 | 27.9 | 25.8 | 27.1 | 30.6 | 37.9 | 21.3 |
| 24  | 26.2 | 24.6 | 22.9 | 23.3 | 22.2 | 21.1 | 24.2 | 29.7 | 31.8 | 33.3 | 34.8 | 36.1 | 37.4 | 38.3 | 38.9 | 39.3 | 39.2 | 38.7 | 37.7 | 35.7 | 34.3 | 32.5 | 30.9 | 30.2 | 31.8 | 39.3 | 21.1 |
| 25  | 28.2 | 26.5 | 25.8 | 25.4 | 25.1 | 24.3 | 25.7 | 28.2 | 29.2 | 30.5 | 31.7 | 32.9 | 33.7 | 34.5 | 34.8 | 35.6 | 35.9 | 35.1 | 34.0 | 31.9 | 30.1 | 27.8 | 26.3 | 25.4 | 29.9 | 35.9 | 24.3 |
| 26  | 22.8 | 20.7 | 19.4 | 18.5 | 17.3 | 17.1 | 20.4 | 25.5 | 27.5 | 28.9 | 30.2 | 31.4 | 32.4 | 33.0 | 33.6 | 33.8 | 33.7 | 33.2 | 32.2 | 30.0 | 28.1 | 26.1 | 23.3 | 22.7 | 26.7 | 33.8 | 17.1 |
| 27  | 22.0 | 20.5 | 18.8 | 16.9 | 16.8 | 16.9 | 19.6 | 24.2 | 26.4 | 27.8 | 29.0 | 30.4 | 31.1 | 32.2 | 33.3 | 33.7 | 33.5 | 33.4 | 32.6 | 30.4 | 27.6 | 26.6 | 23.6 | 22.2 | 26.2 | 33.7 | 16.8 |
| 28  | 22.0 | 21.4 | 20.0 | 19.2 | 18.3 | 17.8 | 20.9 | 25.8 | 28.6 | 30.1 | 31.4 | 32.9 | 34.2 | 35.3 | 35.6 | 35.9 | 36.1 | 35.6 | 35.0 | 32.4 | 29.2 | 26.4 | 24.8 | 23.5 | 28.0 | 36.1 | 17.8 |
| 29  | 22.5 | 21.4 | 21.1 | 20.7 | 20.3 | 19.3 | 22.6 | 26.6 | 29.8 | 33.4 | 35.1 | 36.2 | 37.0 | 37.7 | 37.9 | 37.6 | 37.7 | 36.9 | 35.7 | 33.1 | 31.0 | 28.7 | 27.5 | 26.1 | 29.8 | 37.9 | 19.3 |
| 30  | 25.8 | 25.3 | 24.9 | 22.9 | 21.4 | 21.1 | 24.9 | 28.6 | 30.7 | 32.1 | 32.9 | 34.0 | 35.0 | 35.9 | 36.7 | 36.3 | 36.5 | 36.1 | 34.9 | 32.9 | 29.7 | 29.2 | 28.1 | 27.2 | 30.1 | 36.7 | 21.1 |
| 31  | 25.2 | 26.0 | 25.5 | 24.3 | 23.3 | 22.4 | 26.4 | 29.1 | 30.9 | 32.1 | 33.0 | 34.2 | 35.2 | 35.7 | 36.3 | 36.3 | 36.1 | 35.8 | 35.1 | 33.6 | 31.7 | 29.8 | 28.3 | 26.8 | 30.5 | 36.3 | 22.4 |
| Avg | 21.1 | 20.3 | 19.6 | 18.9 | 18.1 | 17.6 | 20.0 | 23.7 | 25.7 | 27.2 | 28.4 | 29.6 | 30.6 | 31.5 | 32.0 | 32.3 | 32.3 | 31.7 | 30.7 | 28.6 | 26.3 | 24.3 | 23.0 | 22.3 | 25.6 | --   | --   |
| Max | 28.7 | 27.1 | 25.8 | 25.4 | 25.1 | 24.3 | 26.7 | 30.9 | 33.6 | 35.2 | 36.4 | 38.0 | 38.5 | 38.9 | 39.5 | 40.0 | 39.6 | 38.7 | 37.7 | 35.7 | 34.3 | 32.5 | 30.9 | 30.2 | --   | 40.0 | --   |
| Min | 13.0 | 13.3 | 12.6 | 12.9 | 12.2 | 11.8 | 12.9 | 14.5 | 14.7 | 15.9 | 16.0 | 17.3 | 18.7 | 20.0 | 20.8 | 21.0 | 21.3 | 20.0 | 17.0 | 16.2 | 15.8 | 15.2 | 14.6 | 13.3 | --   | --   | 11.8 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, Temp\_2m\_C"**  
**Month: Jun 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           | 25.3 | 24.5 | 23.7 | 22.7 | 22.3 | 22.0 | 23.1 | 26.0 | 28.6 | 30.6 | 31.5 | 32.3 | 33.4 | 33.7 | 34.5 | 35.0 | 35.1 | 34.6 | 33.8 | 32.0 | 30.1 | 28.3 | 26.3 | 24.3 | 28.9 | 35.1 | 22.0 |
| 2           | 23.2 | 22.6 | 21.1 | 19.9 | 19.7 | 18.9 | 21.7 | 25.3 | 27.1 | 29.0 | 30.5 | 32.0 | 33.5 | 34.4 | 35.7 | 36.3 | 36.2 | 36.1 | 35.6 | 33.9 | 31.6 | 29.8 | 28.0 | 27.1 | 28.7 | 36.3 | 18.9 |
| 3           | 26.5 | 26.8 | 24.5 | 23.7 | 22.8 | 21.8 | 24.8 | 28.8 | 30.1 | 31.5 | 33.2 | 34.8 | 36.2 | 37.8 | 38.8 | 39.3 | 39.5 | 39.0 | 38.3 | 36.2 | 33.3 | 31.2 | 30.0 | 27.9 | 31.5 | 39.5 | 21.8 |
| 4           | 26.1 | 26.2 | 26.1 | 25.4 | 25.2 | 25.0 | 26.9 | 29.1 | 30.7 | 32.2 | 33.8 | 35.4 | 36.6 | 37.8 | 38.8 | 39.4 | 39.7 | 39.3 | 38.6 | 36.9 | 34.0 | 31.5 | 30.0 | 28.4 | 32.2 | 39.7 | 25.0 |
| 5           | 27.8 | 28.4 | 26.1 | 25.6 | 24.5 | 23.7 | 27.1 | 30.2 | 31.7 | 33.2 | 34.8 | 36.4 | 37.8 | 38.9 | 39.4 | 39.8 | 39.8 | 39.4 | 38.8 | 37.1 | 34.4 | 32.7 | 30.7 | 30.5 | 32.9 | 39.8 | 23.7 |
| 6           | 28.5 | 27.7 | 26.2 | 25.6 | 24.9 | 24.6 | 27.5 | 30.0 | 31.4 | 32.8 | 34.2 | 35.6 | 36.8 | 38.3 | 38.9 | 39.4 | 39.5 | 39.2 | 38.6 | 37.0 | 35.0 | 32.5 | 30.6 | 29.7 | 32.7 | 39.5 | 24.6 |
| 7           | 28.8 | 26.0 | 24.1 | 24.1 | 23.2 | 22.7 | 26.1 | 29.7 | 31.8 | 33.3 | 34.6 | 36.1 | 37.1 | 38.5 | 39.1 | 39.4 | 39.5 | 39.2 | 38.5 | 36.5 | 33.8 | 31.3 | 29.8 | 27.6 | 32.1 | 39.5 | 22.7 |
| 8           | 26.3 | 26.1 | 25.0 | 24.7 | 23.8 | 24.1 | 26.9 | 30.5 | 32.8 | 34.1 | 34.9 | 35.8 | 36.5 | 37.5 | 38.0 | 38.1 | 38.2 | 37.9 | 36.8 | 34.8 | 32.1 | 29.5 | 28.1 | 27.2 | 31.7 | 38.2 | 23.8 |
| 9           | 26.0 | 25.3 | 24.3 | 23.2 | 22.5 | 22.1 | 25.3 | 30.2 | 32.0 | 33.5 | 34.9 | 36.0 | 36.9 | 37.7 | 38.3 | 38.4 | 38.7 | 38.6 | 38.0 | 36.3 | 33.8 | 31.5 | 30.5 | 27.5 | 31.7 | 38.7 | 22.1 |
| 10          | 26.1 | 24.6 | 23.8 | 23.7 | 22.3 | 22.2 | 24.6 | 26.7 | 28.6 | 30.3 | 31.8 | 33.1 | 34.7 | 35.3 | 36.2 | 37.1 | 37.5 | 37.7 | 37.0 | 34.7 | 31.9 | 29.0 | 27.4 | 25.9 | 30.1 | 37.7 | 22.2 |
| 11          | 26.1 | 24.7 | 24.0 | 22.5 | 21.6 | 20.1 | 23.8 | 27.6 | 29.4 | 30.7 | 31.7 | 32.9 | 34.1 | 35.4 | 35.9 | 36.5 | 36.4 | 35.6 | 33.9 | 31.9 | 29.9 | 28.8 | 27.7 | 25.7 | 29.4 | 36.5 | 20.1 |
| 12          | 23.9 | 22.3 | 22.2 | 20.7 | 20.7 | 19.9 | 22.3 | 24.7 | 25.8 | 27.0 | 28.2 | 29.7 | 30.4 | 31.3 | 31.7 | 32.8 | 33.1 | 32.8 | 31.7 | 29.9 | 27.7 | 25.2 | 22.7 | 20.7 | 26.6 | 33.1 | 19.9 |
| 13          | 20.0 | 18.6 | 17.8 | 16.4 | 15.8 | 15.6 | 19.6 | 24.1 | 25.8 | 27.4 | 29.0 | 30.3 | 31.2 | 32.3 | 33.0 | 33.5 | 33.5 | 33.3 | 32.8 | 30.5 | 27.5 | 23.8 | 21.7 | 21.2 | 25.6 | 33.5 | 15.6 |
| 14          | 20.5 | 20.2 | 19.5 | 18.7 | 17.2 | 17.0 | 19.8 | 24.5 | 28.3 | 30.6 | 32.4 | 34.1 | 35.4 | 36.3 | 36.8 | 37.6 | 37.5 | 37.2 | 36.5 | 33.7 | 30.3 | 26.6 | 24.6 | 23.7 | 28.3 | 37.6 | 17.0 |
| 15          | 23.4 | 22.4 | 22.1 | 21.7 | 20.0 | 18.2 | 21.8 | 26.9 | 31.0 | 33.3 | 34.9 | 36.4 | 37.6 | 38.5 | 38.8 | 39.3 | 39.6 | 39.1 | 38.6 | 35.7 | 31.6 | 27.8 | 26.3 | 25.6 | 30.4 | 39.6 | 18.2 |
| 16          | 24.6 | 24.6 | 22.9 | 20.4 | 21.4 | 20.5 | 23.9 | 29.7 | 32.3 | 33.6 | 35.0 | 36.9 | 39.9 | 41.3 | 41.7 | 41.6 | 41.5 | 40.2 | 39.5 | 36.9 | 32.7 | 29.5 | 26.3 | 25.5 | 31.8 | 41.7 | 20.4 |
| 17          | 25.2 | 25.3 | 23.3 | 22.4 | 21.8 | 21.2 | 24.8 | 30.2 | 31.9 | 33.8 | 35.3 | 36.6 | 38.5 | 41.0 | 41.3 | 41.5 | 41.5 | 40.6 | 39.8 | 37.2 | 32.9 | 30.8 | 28.1 | 26.2 | 32.1 | 41.5 | 21.2 |
| 18          | 25.5 | 24.9 | 24.8 | 23.3 | 22.9 | 22.4 | 25.5 | 30.4 | 32.9 | 34.4 | 35.8 | 37.3 | 39.0 | 40.4 | 41.0 | 41.4 | 41.8 | 41.7 | 41.5 | 38.7 | 34.4 | 32.6 | 29.7 | 28.9 | 33.0 | 41.8 | 22.4 |
| 19          | 28.1 | 28.9 | 28.2 | 27.2 | 27.0 | 26.4 | 26.9 | 32.6 | 35.3 | 37.3 | 39.0 | 41.0 | 42.4 | 43.5 | 44.3 | 44.9 | 45.3 | 45.2 | 44.4 | 42.6 | 39.4 | 37.1 | 35.8 | 34.2 | 36.5 | 45.3 | 26.4 |
| 20          | 32.8 | 33.0 | 31.7 | 30.6 | 30.6 | 30.0 | 31.7 | 35.1 | 39.4 | 41.9 | 43.2 | 44.2 | 44.9 | 45.6 | 46.2 | 46.5 | 46.6 | 46.0 | 45.3 | 43.4 | 39.9 | 36.7 | 35.6 | 33.9 | 39.0 | 46.6 | 30.0 |
| 21          | 33.3 | 33.0 | 33.2 | 32.6 | 30.5 | 28.7 | 31.8 | 36.5 | 38.1 | 38.5 | 39.6 | 41.3 | 43.0 | 43.9 | 44.9 | 45.5 | 45.4 | 45.1 | 44.2 | 41.9 | 38.0 | 34.7 | 33.1 | 32.4 | 37.9 | 45.5 | 28.7 |
| 22          | 32.4 | 31.1 | 29.9 | 30.7 | 30.0 | 29.3 | 31.1 | 33.3 | 34.8 | 35.9 | 37.1 | 38.5 | 40.2 | 41.3 | 41.8 | 42.5 | 42.8 | 42.5 | 41.7 | 40.0 | 37.2 | 34.0 | 32.5 | 31.8 | 35.9 | 42.8 | 29.3 |
| 23          | 31.1 | 30.8 | 29.1 | 28.5 | 27.7 | 27.2 | 29.7 | 32.2 | 33.5 | 34.9 | 36.5 | 37.9 | 39.3 | 40.4 | 42.9 | 43.2 | 43.6 | 42.5 | 41.8 | 39.7 | 36.7 | 33.9 | 32.5 | 30.7 | 35.3 | 43.6 | 27.2 |
| 24          | 29.5 | 28.6 | 28.0 | 27.2 | 26.6 | 25.9 | 29.1 | 33.4 | 36.1 | 37.8 | 39.3 | 40.9 | 42.1 | 43.0 | 44.1 | 44.7 | 44.6 | 44.2 | 43.8 | 41.6 | 38.0 | 34.8 | 33.8 | 34.0 | 36.3 | 44.7 | 25.9 |
| 25          | 33.6 | 34.5 | 35.0 | 33.9 | 32.6 | 32.4 | 34.3 | 35.6 | 36.6 | 37.8 | 39.4 | 40.4 | 41.9 | 42.6 | 43.7 | 44.9 | 44.6 | 43.7 | 42.9 | 41.1 | 38.2 | 36.7 | 35.3 | 33.1 | 38.1 | 44.9 | 32.4 |
| 26          | 31.0 | 30.2 | 31.1 | 31.4 | 31.4 | 30.9 | 32.4 | 34.0 | 34.6 | 35.6 | 36.6 | 37.5 | 38.5 | 39.8 | 40.4 | 41.3 | 41.4 | 41.5 | 41.3 | 39.3 | 35.9 | 33.4 | 32.8 | 32.5 | 35.6 | 41.5 | 30.2 |
| 27          | 31.1 | 29.5 | 29.7 | 29.2 | 27.8 | 27.1 | 29.8 | 32.8 | 34.6 | 36.2 | 37.9 | 39.6 | 40.2 | 40.8 | 41.9 | 42.0 | 41.5 | 40.6 | 39.6 | 37.6 | 33.3 | 30.8 | 29.2 | 27.8 | 34.6 | 42.0 | 27.1 |
| 28          | 26.2 | 25.9 | 25.6 | 25.0 | 24.2 | 24.0 | 27.4 | 31.5 | 33.1 | 34.1 | 34.8 | 35.7 | 36.9 | 37.7 | 38.6 | 39.5 | 39.8 | 39.5 | 39.1 | 37.5 | 34.1 | 32.2 | 31.4 | 29.3 | 32.6 | 39.8 | 24.0 |
| 29          | 28.3 | 27.9 | 26.5 | 25.4 | 23.8 | 23.5 | 26.5 | 30.7 | 32.1 | 33.1 | 34.4 | 35.7 | 37.2 | 38.1 | 38.6 | 39.3 | 39.4 | 39.2 | 39.1 | 37.7 | 34.2 | 31.9 | 30.3 | 30.8 | 32.7 | 39.4 | 23.5 |
| 30          | 28.9 | 28.0 | 27.0 | 24.4 | 24.1 | 23.1 | 25.9 | 30.6 | 32.6 | 33.9 | 35.1 | 36.3 | 39.0 | 40.3 | 41.0 | 41.2 | 41.2 | 39.8 | 38.8 | 36.0 | 31.5 | 28.5 | 27.6 | 26.3 | 32.5 | 41.2 | 23.1 |
| Avg         | 27.3 | 26.8 | 25.9 | 25.0 | 24.3 | 23.7 | 26.4 | 30.1 | 32.1 | 33.6 | 35.0 | 36.4 | 37.7 | 38.8 | 39.5 | 40.1 | 40.2 | 39.7 | 39.0 | 36.9 | 33.8 | 31.2 | 29.6 | 28.3 | 32.6 | --   | --   |
| Max         | 33.6 | 34.5 | 35.0 | 33.9 | 32.6 | 32.4 | 34.3 | 36.5 | 39.4 | 41.9 | 43.2 | 44.2 | 44.9 | 45.6 | 46.2 | 46.5 | 46.6 | 46.0 | 45.3 | 43.4 | 39.9 | 37.1 | 35.8 | 34.2 | --   | 46.6 | --   |
| Min         | 20.0 | 18.6 | 17.8 | 16.4 | 15.8 | 15.6 | 19.6 | 24.1 | 25.8 | 27.0 | 28.2 | 29.7 | 30.4 | 31.3 | 31.7 | 32.8 | 33.1 | 32.8 | 31.7 | 29.9 | 27.5 | 23.8 | 21.7 | 20.7 | --   | --   | 15.6 |



**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Apr 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   | 80  | 77  | 68  | 51  | 73  | 75  | 68  | 82  | 78  | 211 | 233 | 130 | 296 | 301 | 289 | 327 | 36  | 343 | 311 | 21  | 63  | 71  | 99  | 167 | 53  | 343 | 21  |
| 2   | 136 | 110 | 89  | 45  | 60  | 74  | 78  | 99  | 183 | 250 | 241 | 227 | 256 | 266 | 277 | 275 | 273 | 280 | 260 | 247 | 219 | 95  | 80  | 87  | 197 | 280 | 45  |
| 3   | 84  | 94  | 107 | 148 | 138 | 88  | 83  | 112 | 151 | 205 | 210 | 200 | 204 | 236 | 232 | 241 | 234 | 232 | 251 | 261 | 232 | 328 | 30  | 219 | 190 | 328 | 30  |
| 4   | 246 | 295 | 37  | 327 | 301 | 4   | 338 | 12  | 337 | 293 | 300 | 311 | 302 | 297 | 304 | 298 | 306 | 298 | 290 | 257 | 199 | 86  | 82  | 82  | 315 | 338 | 4   |
| 5   | 79  | 70  | 77  | 95  | 89  | 69  | 74  | 76  | 67  | 69  | 71  | 52  | 46  | 225 | 338 | 187 | 349 | 309 | 297 | 302 | 339 | 9   | 34  | 77  | 47  | 349 | 9   |
| 6   | 82  | 81  | 79  | 85  | 102 | 87  | 74  | 113 | 242 | 215 | 110 | 150 | 186 | 218 | 251 | 213 | 253 | 282 | 299 | 315 | 348 | 37  | 79  | 90  | 115 | 348 | 37  |
| 7   | 83  | 79  | 93  | 76  | 80  | 77  | 77  | 93  | 149 | 171 | 167 | 210 | 220 | 242 | 233 | 198 | 232 | 312 | 340 | 29  | 79  | 78  | 81  | 83  | 109 | 340 | 29  |
| 8   | 88  | 88  | 77  | 75  | 86  | 74  | 77  | 85  | 142 | 180 | 207 | 201 | 240 | 276 | 298 | 295 | 300 | 295 | 284 | 278 | 270 | 244 | 278 | 20  | 271 | 300 | 20  |
| 9   | 41  | 319 | 128 | 97  | 128 | 94  | 85  | 132 | 160 | 157 | 163 | 227 | 271 | 265 | 256 | 257 | 269 | 282 | 291 | 294 | 319 | 355 | 78  | 77  | 214 | 355 | 41  |
| 10  | 88  | 85  | 81  | 75  | 83  | 77  | 84  | 146 | 186 | 153 | 156 | 233 | 254 | 244 | 241 | 260 | 252 | 274 | 286 | 307 | 355 | 73  | 74  | 82  | 129 | 355 | 73  |
| 11  | 85  | 78  | 81  | 86  | 79  | 87  | 78  | 104 | 224 | 260 | 316 | 315 | 239 | 263 | 251 | 254 | 276 | 299 | 311 | 320 | 340 | 36  | 79  | 80  | 360 | 340 | 36  |
| 12  | 81  | 103 | 78  | 82  | 79  | 79  | 81  | 78  | 141 | 167 | 195 | 244 | 248 | 288 | 224 | 262 | 262 | 288 | 313 | 342 | 27  | 72  | 78  | 77  | 85  | 342 | 27  |
| 13  | 78  | 87  | 78  | 87  | 127 | 92  | 85  | 102 | 142 | 156 | 176 | 183 | 250 | 217 | 239 | 247 | 259 | 268 | 297 | 281 | 281 | 322 | 30  | 101 | 159 | 322 | 30  |
| 14  | 94  | 86  | 84  | 79  | 74  | 76  | 82  | 115 | 185 | 228 | 248 | 242 | 200 | 206 | 215 | 218 | 248 | 243 | 284 | 300 | 313 | 309 | 33  | 128 | 189 | 313 | 33  |
| 15  | 137 | 125 | 94  | 84  | 83  | 82  | 74  | 72  | 143 | 178 | 201 | 247 | 216 | 235 | 237 | 199 | 278 | 266 | 289 | 336 | 355 | 48  | 73  | 81  | 131 | 355 | 48  |
| 16  | 79  | 87  | 99  | 90  | 81  | 78  | 78  | 70  | 112 | 159 | 214 | 279 | 279 | 280 | 252 | 275 | 286 | 295 | 318 | 346 | 3   | 26  | 76  | 77  | 40  | 346 | 3   |
| 17  | 89  | 100 | 89  | 81  | 79  | 80  | 79  | 103 | 163 | 187 | 175 | 208 | 229 | 242 | 252 | 226 | 265 | 284 | 283 | 279 | 304 | 352 | 62  | 83  | 155 | 352 | 62  |
| 18  | 82  | 83  | 81  | 77  | 89  | 88  | 90  | 122 | 160 | 162 | 180 | 276 | 242 | 258 | 255 | 266 | 264 | 258 | 268 | 268 | 267 | 242 | 246 | 245 | 217 | 276 | 77  |
| 19  | 89  | 127 | 110 | 45  | 77  | 86  | 108 | 164 | 226 | 242 | 202 | 250 | 239 | 245 | 253 | 252 | 243 | 270 | 286 | 284 | 290 | 307 | 16  | 74  | 236 | 307 | 16  |
| 20  | 77  | 84  | 85  | 82  | 79  | 82  | 77  | 97  | 154 | 182 | 217 | 273 | 261 | 301 | 284 | 269 | 286 | 270 | 284 | 286 | 329 | 24  | 4   | 9   | 346 | 329 | 4   |
| 21  | 74  | 86  | 82  | 78  | 77  | 78  | 75  | 126 | 201 | 260 | 265 | 264 | 279 | 222 | 282 | 279 | 273 | 287 | 270 | 270 | 277 | 49  | 57  | 59  | 309 | 287 | 49  |
| 22  | 84  | 85  | 89  | 83  | 92  | 76  | 75  | 81  | 164 | 184 | 193 | 233 | 266 | 250 | 256 | 264 | 296 | 286 | 283 | 287 | 358 | 75  | 81  | 72  | 100 | 358 | 72  |
| 23  | 77  | 78  | 83  | 184 | 83  | 82  | 68  | 80  | 97  | 129 | 132 | 156 | 139 | 206 | 229 | 214 | 230 | 293 | 297 | 293 | 265 | 236 | 197 | 141 | 152 | 297 | 68  |
| 24  | 137 | 156 | 156 | 134 | 121 | 103 | 92  | 145 | 188 | 204 | 209 | 228 | 249 | 269 | 268 | 262 | 280 | 269 | 265 | 254 | 243 | 206 | 224 | 227 | 210 | 280 | 92  |
| 25  | 196 | 212 | 166 | 171 | 198 | 206 | 255 | 253 | 246 | 246 | 261 | 255 | 260 | 266 | 275 | 271 | 268 | 256 | 261 | 278 | 278 | 258 | 293 | 305 | 249 | 305 | 166 |
| 26  | 304 | 6   | 2   | 44  | 70  | 118 | 127 | 129 | 163 | 178 | 218 | 303 | 265 | 275 | 261 | 267 | 275 | 264 | 264 | 282 | 297 | 257 | 122 | 154 | 256 | 304 | 2   |
| 27  | 131 | 132 | 150 | 138 | 131 | 120 | 138 | 159 | 191 | 210 | 219 | 218 | 227 | 251 | 268 | 261 | 277 | 284 | 275 | 266 | 246 | 238 | 244 | 178 | 209 | 284 | 120 |
| 28  | 166 | 171 | 163 | 170 | 174 | 161 | 159 | 238 | 234 | 249 | 270 | 283 | 305 | 264 | 265 | 276 | 278 | 274 | 301 | 300 | 289 | 313 | 319 | 323 | 254 | 323 | 159 |
| 29  | 340 | 334 | 1   | 339 | 57  | 3   | 24  | 158 | 133 | 233 | 294 | 302 | 293 | 280 | 289 | 277 | 291 | 272 | 267 | 229 | 162 | 136 | 120 | 102 | 299 | 340 | 1   |
| 30  | 83  | 78  | 68  | 77  | 90  | 92  | 91  | 161 | 156 | 171 | 10  | 314 | 274 | 267 | 276 | 287 | 261 | 280 | 282 | 266 | 78  | 96  | 82  | 80  | 78  | 314 | 10  |
| Avg | 91  | 90  | 89  | 86  | 92  | 85  | 82  | 112 | 166 | 197 | 211 | 243 | 251 | 255 | 261 | 257 | 273 | 280 | 287 | 291 | 305 | 17  | 65  | 91  | 213 | --  | --  |
| Max | 340 | 334 | 166 | 339 | 301 | 206 | 338 | 253 | 337 | 293 | 316 | 315 | 305 | 301 | 338 | 327 | 349 | 343 | 340 | 346 | 358 | 319 | 323 | 323 | --  | 358 | --  |
| Min | 41  | 6   | 1   | 44  | 57  | 3   | 24  | 12  | 67  | 69  | 10  | 52  | 46  | 206 | 215 | 187 | 36  | 232 | 251 | 21  | 3   | 9   | 4   | 9   | --  | --  | 1   |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: May 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   | 88  | 92  | 78  | 89  | 87  | 81  | 71  | 81  | 154 | 164 | 233 | 270 | 253 | 274 | 282 | 282 | 289 | 273 | 293 | 284 | 296 | 66  | 76  | 94  | 56  | 296 | 66  |
| 2   | 86  | 82  | 83  | 82  | 74  | 88  | 97  | 146 | 168 | 210 | 212 | 247 | 254 | 278 | 288 | 284 | 291 | 282 | 284 | 261 | 206 | 117 | 76  | 83  | 173 | 291 | 74  |
| 3   | 84  | 112 | 136 | 105 | 79  | 72  | 71  | 87  | 179 | 189 | 245 | 297 | 277 | 340 | 294 | 286 | 274 | 249 | 259 | 243 | 161 | 93  | 75  | 83  | 140 | 340 | 71  |
| 4   | 73  | 95  | 135 | 79  | 90  | 71  | 90  | 163 | 206 | 211 | 232 | 242 | 172 | 226 | 268 | 248 | 225 | 264 | 289 | 336 | 13  | 63  | 70  | 71  | 154 | 336 | 13  |
| 5   | 79  | 75  | 73  | 79  | 94  | 85  | 72  | 67  | 86  | 108 | 104 | 132 | 121 | 215 | 214 | 242 | 241 | 226 | 206 | 190 | 192 | 164 | 103 | 155 | 131 | 242 | 67  |
| 6   | 193 | 169 | 122 | 133 | 150 | 72  | 90  | 151 | 168 | 183 | 201 | 222 | 224 | 224 | 210 | 212 | 217 | 221 | 234 | 226 | 193 | 178 | 234 | 274 | 192 | 274 | 72  |
| 7   | 292 | 113 | 214 | 218 | 190 | 226 | 236 | 243 | 254 | 247 | 267 | 281 | 296 | 269 | 266 | 268 | 249 | 224 | 309 | 297 | 279 | 295 | 314 | 319 | 262 | 319 | 113 |
| 8   | 95  | 7   | 85  | 196 | 172 | 136 | 134 | 172 | 206 | 237 | 240 | 261 | 249 | 273 | 262 | 252 | 237 | 224 | 247 | 247 | 223 | 212 | 197 | 144 | 214 | 273 | 7   |
| 9   | 47  | 18  | 113 | 59  | 73  | 116 | 153 | 164 | 186 | 193 | 157 | 167 | 211 | 257 | 273 | 253 | 269 | 163 | 153 | 151 | 131 | 138 | 173 | 144 | 158 | 273 | 18  |
| 10  | 139 | 111 | 110 | 130 | 125 | 136 | 136 | 176 | 189 | 225 | 240 | 273 | 263 | 283 | 271 | 279 | 278 | 272 | 294 | 291 | 287 | 262 | 31  | 78  | 229 | 294 | 31  |
| 11  | 83  | 71  | 68  | 101 | 87  | 73  | 83  | 336 | 306 | 343 | 336 | 278 | 272 | 275 | 271 | 280 | 294 | 308 | 293 | 280 | 211 | 102 | 76  | 77  | 347 | 343 | 68  |
| 12  | 77  | 90  | 90  | 71  | 78  | 75  | 86  | 145 | 173 | 160 | 191 | 218 | 238 | 213 | 237 | 237 | 254 | 290 | 242 | 302 | 320 | 352 | 68  | 99  | 158 | 352 | 68  |
| 13  | 133 | 127 | 141 | 95  | 162 | 121 | 81  | 138 | 163 | 193 | 207 | 217 | 223 | 236 | 233 | 232 | 226 | 233 | 228 | 229 | 229 | 193 | 182 | 177 | 187 | 236 | 81  |
| 14  | 167 | 133 | 140 | 135 | 117 | 88  | 107 | 142 | 166 | 179 | 187 | 194 | 207 | 197 | 209 | 224 | 225 | 217 | 234 | 281 | 318 | 309 | 233 | 208 | 188 | 318 | 88  |
| 15  | 222 | 250 | 257 | 90  | 80  | 82  | 91  | 154 | 170 | 178 | 195 | 192 | 211 | 225 | 237 | 236 | 237 | 239 | 247 | 251 | 255 | 158 | 185 | 166 | 202 | 257 | 80  |
| 16  | 164 | 202 | 163 | 156 | 145 | 140 | 161 | 190 | 224 | 218 | 231 | 254 | 257 | 268 | 274 | 274 | 261 | 277 | 276 | 278 | 224 | 194 | 151 | 95  | 215 | 278 | 95  |
| 17  | 79  | 91  | 106 | 136 | 112 | 78  | 109 | 148 | 175 | 187 | 213 | 235 | 214 | 226 | 225 | 227 | 257 | 258 | 275 | 272 | 275 | 264 | 247 | 235 | 206 | 275 | 78  |
| 18  | 235 | 152 | 140 | 120 | 130 | 159 | 175 | 238 | 253 | 270 | 276 | 277 | 265 | 281 | 257 | 260 | 270 | 280 | 275 | 257 | 252 | 259 | 272 | 280 | 246 | 281 | 120 |
| 19  | 306 | 300 | 5   | 314 | 164 | 114 | 103 | 81  | 77  | 78  | 69  | 352 | 319 | 329 | 313 | 316 | 280 | 264 | 263 | 264 | 314 | 66  | 62  | 60  | 353 | 352 | 5   |
| 20  | 83  | 68  | 35  | 92  | 90  | 68  | 69  | 71  | 53  | 38  | 41  | 231 | 159 | 21  | 293 | 255 | 280 | 270 | 268 | 255 | 212 | 75  | 69  | 66  | 55  | 293 | 21  |
| 21  | 67  | 63  | 88  | 97  | 83  | 81  | 63  | 86  | 1   | 276 | 280 | 280 | 246 | 249 | 261 | 275 | 270 | 281 | 285 | 281 | 291 | 44  | 78  | 78  | 343 | 291 | 1   |
| 22  | 102 | 103 | 122 | 93  | 79  | 88  | 96  | 157 | 182 | 205 | 248 | 286 | 287 | 296 | 279 | 274 | 285 | 275 | 286 | 268 | 280 | 48  | 81  | 80  | 228 | 296 | 48  |
| 23  | 87  | 80  | 132 | 124 | 81  | 73  | 78  | 134 | 164 | 189 | 241 | 269 | 303 | 285 | 260 | 279 | 293 | 275 | 268 | 263 | 310 | 53  | 73  | 70  | 210 | 310 | 53  |
| 24  | 88  | 121 | 116 | 126 | 94  | 80  | 87  | 132 | 163 | 181 | 199 | 225 | 278 | 262 | 266 | 267 | 292 | 282 | 279 | 269 | 255 | 243 | 200 | 183 | 205 | 292 | 80  |
| 25  | 148 | 105 | 125 | 135 | 166 | 167 | 167 | 194 | 210 | 224 | 219 | 221 | 219 | 217 | 219 | 233 | 264 | 248 | 226 | 216 | 207 | 201 | 203 | 200 | 200 | 264 | 105 |
| 26  | 124 | 87  | 162 | 120 | 73  | 79  | 75  | 124 | 162 | 199 | 204 | 219 | 223 | 232 | 236 | 241 | 224 | 229 | 223 | 233 | 231 | 225 | 165 | 158 | 185 | 241 | 73  |
| 27  | 137 | 110 | 92  | 78  | 78  | 75  | 75  | 129 | 168 | 178 | 184 | 210 | 229 | 245 | 281 | 287 | 317 | 284 | 294 | 312 | 330 | 338 | 38  | 78  | 117 | 338 | 38  |
| 28  | 76  | 73  | 136 | 97  | 80  | 85  | 97  | 157 | 172 | 191 | 203 | 217 | 235 | 274 | 217 | 255 | 271 | 246 | 287 | 309 | 360 | 61  | 77  | 80  | 156 | 360 | 61  |
| 29  | 81  | 91  | 88  | 81  | 103 | 104 | 106 | 194 | 162 | 113 | 106 | 159 | 192 | 235 | 273 | 207 | 254 | 289 | 297 | 327 | 348 | 19  | 54  | 96  | 116 | 348 | 19  |
| 30  | 138 | 139 | 115 | 94  | 87  | 81  | 125 | 154 | 191 | 215 | 228 | 234 | 217 | 238 | 243 | 253 | 254 | 270 | 313 | 39  | 68  | 74  | 94  | 125 | 161 | 313 | 39  |
| 31  | 41  | 43  | 42  | 48  | 76  | 75  | 57  | 93  | 137 | 134 | 128 | 188 | 251 | 249 | 252 | 243 | 249 | 243 | 265 | 290 | 278 | 261 | 280 | 323 | 265 | 323 | 41  |
| Avg | 103 | 97  | 110 | 105 | 104 | 95  | 100 | 142 | 176 | 193 | 214 | 237 | 239 | 257 | 257 | 257 | 262 | 258 | 266 | 269 | 263 | 117 | 107 | 110 | 197 | --  | --  |
| Max | 306 | 300 | 257 | 314 | 190 | 226 | 236 | 336 | 306 | 343 | 336 | 352 | 319 | 340 | 313 | 316 | 317 | 308 | 313 | 336 | 360 | 352 | 314 | 323 | --  | 360 | --  |
| Min | 41  | 7   | 5   | 48  | 73  | 68  | 57  | 67  | 1   | 38  | 41  | 132 | 121 | 21  | 209 | 207 | 217 | 163 | 153 | 39  | 13  | 19  | 31  | 60  | --  | --  | 1   |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, WD\_10m"**  
**Month: Jun 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           | 353 | 76  | 172 | 110 | 115 | 84  | 90  | 134 | 199 | 202 | 231 | 220 | 234 | 254 | 241 | 244 | 251 | 298 | 295 | 298 | 289 | 293 | 328 | 98  | 234 | 353 | 76  |  |  |
| 2           | 189 | 144 | 116 | 146 | 134 | 79  | 77  | 344 | 267 | 273 | 267 | 249 | 267 | 255 | 290 | 288 | 308 | 280 | 277 | 297 | 303 | 7   | 64  | 69  | 282 | 344 | 7   |  |  |
| 3           | 50  | 16  | 135 | 132 | 127 | 112 | 105 | 162 | 187 | 198 | 223 | 225 | 239 | 268 | 280 | 273 | 290 | 289 | 295 | 309 | 335 | 56  | 326 | 18  | 259 | 335 | 16  |  |  |
| 4           | 115 | 154 | 156 | 147 | 147 | 147 | 148 | 167 | 180 | 174 | 187 | 242 | 260 | 269 | 301 | 301 | 301 | 295 | 307 | 305 | 312 | 11  | 43  | 82  | 211 | 312 | 11  |  |  |
| 5           | 43  | 35  | 159 | 138 | 117 | 109 | 116 | 162 | 182 | 186 | 213 | 249 | 265 | 290 | 286 | 285 | 283 | 270 | 285 | 305 | 324 | 333 | 33  | 32  | 266 | 333 | 32  |  |  |
| 6           | 162 | 164 | 159 | 136 | 135 | 134 | 109 | 174 | 214 | 221 | 214 | 233 | 255 | 269 | 260 | 283 | 306 | 297 | 309 | 317 | 317 | 319 | 334 | 354 | 243 | 354 | 109 |  |  |
| 7           | 332 | 107 | 160 | 170 | 125 | 90  | 106 | 143 | 252 | 268 | 236 | 288 | 304 | 262 | 254 | 276 | 283 | 297 | 305 | 312 | 347 | 351 | 11  | 60  | 289 | 351 | 11  |  |  |
| 8           | 101 | 111 | 122 | 103 | 71  | 82  | 105 | 156 | 201 | 216 | 223 | 216 | 258 | 271 | 283 | 318 | 292 | 305 | 311 | 339 | 351 | 41  | 67  | 77  | 64  | 351 | 41  |  |  |
| 9           | 106 | 95  | 81  | 83  | 76  | 82  | 85  | 125 | 172 | 278 | 254 | 238 | 247 | 251 | 234 | 268 | 255 | 271 | 300 | 312 | 324 | 291 | 277 | 193 | 248 | 324 | 76  |  |  |
| 10          | 109 | 109 | 127 | 146 | 137 | 141 | 152 | 166 | 167 | 175 | 201 | 209 | 221 | 234 | 264 | 228 | 234 | 232 | 248 | 242 | 239 | 228 | 170 | 157 | 190 | 264 | 109 |  |  |
| 11          | 172 | 177 | 153 | 91  | 105 | 83  | 95  | 157 | 172 | 185 | 197 | 185 | 205 | 218 | 224 | 224 | 229 | 237 | 254 | 257 | 245 | 232 | 205 | 185 | 192 | 257 | 83  |  |  |
| 12          | 143 | 144 | 152 | 152 | 157 | 128 | 115 | 223 | 238 | 212 | 237 | 227 | 224 | 244 | 227 | 245 | 243 | 275 | 287 | 293 | 302 | 314 | 44  | 136 | 215 | 314 | 44  |  |  |
| 13          | 167 | 122 | 98  | 106 | 89  | 90  | 93  | 155 | 187 | 212 | 302 | 226 | 236 | 278 | 250 | 282 | 279 | 289 | 285 | 291 | 307 | 25  | 73  | 79  | 217 | 307 | 25  |  |  |
| 14          | 77  | 77  | 79  | 76  | 120 | 129 | 113 | 49  | 153 | 221 | 242 | 223 | 289 | 261 | 289 | 269 | 289 | 300 | 299 | 313 | 343 | 36  | 74  | 76  | 11  | 343 | 36  |  |  |
| 15          | 76  | 76  | 83  | 119 | 85  | 99  | 112 | 106 | 165 | 200 | 234 | 252 | 267 | 289 | 269 | 253 | 261 | 257 | 280 | 326 | 358 | 49  | 76  | 78  | 123 | 358 | 49  |  |  |
| 16          | 76  | 113 | 96  | 85  | 83  | 76  | 78  | 113 | 180 | 213 | 207 | 235 | 250 | 275 | 276 | 279 | 264 | 260 | 292 | 300 | 313 | 31  | 69  | 85  | 185 | 313 | 31  |  |  |
| 17          | 104 | 113 | 96  | 75  | 79  | 77  | 81  | 135 | 181 | 211 | 220 | 240 | 273 | 276 | 290 | 283 | 274 | 295 | 284 | 284 | 301 | 359 | 68  | 56  | 289 | 359 | 56  |  |  |
| 18          | 93  | 140 | 120 | 99  | 79  | 73  | 81  | 117 | 180 | 189 | 241 | 254 | 282 | 293 | 277 | 292 | 285 | 272 | 293 | 277 | 246 | 253 | 21  | 69  | 242 | 293 | 21  |  |  |
| 19          | 69  | 100 | 78  | 91  | 127 | 108 | 91  | 129 | 156 | 194 | 238 | 279 | 293 | 280 | 276 | 274 | 280 | 295 | 300 | 316 | 342 | 15  | 42  | 69  | 359 | 342 | 15  |  |  |
| 20          | 138 | 112 | 100 | 101 | 112 | 102 | 66  | 209 | 159 | 139 | 142 | 191 | 244 | 237 | 260 | 265 | 283 | 291 | 326 | 58  | 75  | 96  | 72  | 69  | 127 | 326 | 58  |  |  |
| 21          | 351 | 62  | 89  | 70  | 133 | 119 | 117 | 166 | 195 | 210 | 200 | 206 | 238 | 262 | 267 | 275 | 283 | 278 | 281 | 264 | 219 | 119 | 175 | 166 | 203 | 351 | 62  |  |  |
| 22          | 160 | 128 | 116 | 174 | 161 | 143 | 138 | 158 | 196 | 213 | 234 | 264 | 258 | 271 | 275 | 289 | 283 | 295 | 299 | 275 | 286 | 264 | 166 | 198 | 222 | 299 | 116 |  |  |
| 23          | 235 | 266 | 148 | 144 | 121 | 115 | 124 | 164 | 173 | 200 | 231 | 220 | 246 | 254 | 281 | 267 | 284 | 288 | 298 | 304 | 323 | 129 | 101 | 78  | 215 | 323 | 78  |  |  |
| 24          | 94  | 119 | 99  | 87  | 85  | 95  | 77  | 119 | 165 | 182 | 222 | 245 | 223 | 254 | 265 | 285 | 288 | 293 | 296 | 302 | 328 | 269 | 66  | 75  | 197 | 328 | 66  |  |  |
| 25          | 92  | 124 | 127 | 116 | 66  | 81  | 107 | 111 | 123 | 129 | 130 | 137 | 198 | 251 | 248 | 268 | 282 | 302 | 304 | 317 | 64  | 69  | 110 | 107 | 116 | 317 | 64  |  |  |
| 26          | 115 | 126 | 150 | 143 | 128 | 133 | 135 | 147 | 181 | 230 | 240 | 282 | 291 | 236 | 262 | 278 | 277 | 292 | 288 | 255 | 232 | 190 | 223 | 190 | 212 | 292 | 115 |  |  |
| 27          | 105 | 137 | 142 | 148 | 147 | 135 | 116 | 174 | 185 | 206 | 215 | 225 | 235 | 254 | 255 | 259 | 281 | 289 | 288 | 296 | 242 | 189 | 157 | 104 | 199 | 296 | 104 |  |  |
| 28          | 96  | 88  | 102 | 105 | 87  | 87  | 132 | 162 | 208 | 214 | 229 | 227 | 225 | 238 | 269 | 261 | 260 | 295 | 305 | 313 | 308 | 272 | 322 | 134 | 224 | 322 | 87  |  |  |
| 29          | 146 | 155 | 150 | 85  | 89  | 80  | 76  | 130 | 173 | 202 | 201 | 177 | 235 | 236 | 254 | 276 | 281 | 297 | 13  | 338 | 331 | 7   | 149 | 206 | 183 | 338 | 7   |  |  |
| 30          | 149 | 145 | 120 | 101 | 117 | 80  | 78  | 96  | 163 | 183 | 209 | 215 | 250 | 247 | 249 | 248 | 234 | 235 | 216 | 196 | 125 | 80  | 74  | 76  | 162 | 250 | 74  |  |  |
| Avg         | 108 | 116 | 123 | 116 | 112 | 103 | 104 | 145 | 184 | 204 | 222 | 230 | 250 | 259 | 265 | 271 | 275 | 283 | 293 | 299 | 310 | 356 | 67  | 95  | 209 | --  | --  |  |  |
| Max         | 353 | 266 | 172 | 174 | 161 | 147 | 152 | 344 | 267 | 278 | 302 | 288 | 304 | 293 | 301 | 318 | 308 | 305 | 326 | 339 | 358 | 359 | 334 | 354 | --  | 359 | --  |  |  |
| Min         | 43  | 16  | 78  | 70  | 66  | 73  | 66  | 49  | 123 | 129 | 130 | 137 | 198 | 218 | 224 | 224 | 229 | 232 | 13  | 58  | 64  | 7   | 11  | 18  | --  | --  | 7   |  |  |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Apr 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           | 2.8 | 2.7 | 2.9 | 2.4 | 3.0 | 3.4 | 3.6 | 4.4 | 4.4 | 2.3 | 1.8 | 1.7 | 1.7 | 2.2 | 2.7 | 2.3 | 3.2 | 1.9  | 1.9  | 2.1 | 2.9 | 3.9 | 2.7 | 1.6 | 2.7 | 4.4  | 1.6 |
| 2           | 2.1 | 1.7 | 1.1 | 1.7 | 2.8 | 3.6 | 3.1 | 2.2 | 2.0 | 2.8 | 2.1 | 2.1 | 3.2 | 3.5 | 3.8 | 4.8 | 4.9 | 4.4  | 3.4  | 2.2 | 1.6 | 1.7 | 3.1 | 3.4 | 2.8 | 4.9  | 1.1 |
| 3           | 2.9 | 2.8 | 2.8 | 2.8 | 2.9 | 3.0 | 3.4 | 2.9 | 2.5 | 3.0 | 2.9 | 2.6 | 4.1 | 4.5 | 5.2 | 5.8 | 8.0 | 7.6  | 6.7  | 4.9 | 4.6 | 6.9 | 2.4 | 1.5 | 4.0 | 8.0  | 1.5 |
| 4           | 2.3 | 1.7 | 0.9 | 1.3 | 3.1 | 2.1 | 1.6 | 0.7 | 1.9 | 5.0 | 5.7 | 5.9 | 7.2 | 6.1 | 5.1 | 4.8 | 4.1 | 4.0  | 2.9  | 1.8 | 1.6 | 2.4 | 3.1 | 3.6 | 3.3 | 7.2  | 0.7 |
| 5           | 3.9 | 4.3 | 4.9 | 4.7 | 5.6 | 7.9 | 7.3 | 8.4 | 8.7 | 7.2 | 4.9 | 3.0 | 2.0 | 2.2 | 1.7 | 2.0 | 1.7 | 2.4  | 3.2  | 2.7 | 2.5 | 1.7 | 1.5 | 3.1 | 4.1 | 8.7  | 1.5 |
| 6           | 2.9 | 3.5 | 3.5 | 2.9 | 1.6 | 2.0 | 2.7 | 0.9 | 1.5 | 2.0 | 1.5 | 2.3 | 2.6 | 2.0 | 2.9 | 3.6 | 3.5 | 3.6  | 3.5  | 2.9 | 2.1 | 2.6 | 3.5 | 3.7 | 2.7 | 3.7  | 0.9 |
| 7           | 3.6 | 2.6 | 2.9 | 2.4 | 3.5 | 3.6 | 3.5 | 2.1 | 2.9 | 3.1 | 2.4 | 1.9 | 2.2 | 3.0 | 2.8 | 2.4 | 1.5 | 1.2  | 1.7  | 1.7 | 3.2 | 3.2 | 3.0 | 3.8 | 2.7 | 3.8  | 1.2 |
| 8           | 3.1 | 3.2 | 3.5 | 3.7 | 2.9 | 3.8 | 3.1 | 1.9 | 2.3 | 3.2 | 2.3 | 2.7 | 3.5 | 4.6 | 4.5 | 4.8 | 5.3 | 5.7  | 5.8  | 3.4 | 2.6 | 2.4 | 2.7 | 2.2 | 3.5 | 5.8  | 1.9 |
| 9           | 2.1 | 1.5 | 1.5 | 0.8 | 2.2 | 2.4 | 2.7 | 1.9 | 2.5 | 2.0 | 1.7 | 2.6 | 2.3 | 2.0 | 2.8 | 2.7 | 3.3 | 3.6  | 2.7  | 2.4 | 2.0 | 1.9 | 2.3 | 2.6 | 2.3 | 3.6  | 0.8 |
| 10          | 3.0 | 2.8 | 3.2 | 2.7 | 2.6 | 2.8 | 2.4 | 1.3 | 1.1 | 1.6 | 1.6 | 1.7 | 2.4 | 2.6 | 3.6 | 2.9 | 2.4 | 2.6  | 3.0  | 2.6 | 2.3 | 3.2 | 3.6 | 3.0 | 2.5 | 3.6  | 1.1 |
| 11          | 3.5 | 3.5 | 3.2 | 2.8 | 3.0 | 3.4 | 3.3 | 2.0 | 1.5 | 1.6 | 2.0 | 1.7 | 1.9 | 2.9 | 3.0 | 3.5 | 3.9 | 3.5  | 3.7  | 3.7 | 3.1 | 2.8 | 3.5 | 3.6 | 2.9 | 3.9  | 1.5 |
| 12          | 3.6 | 2.4 | 3.0 | 3.3 | 3.6 | 3.1 | 2.7 | 1.7 | 1.4 | 1.9 | 1.3 | 2.3 | 2.6 | 2.5 | 2.8 | 3.0 | 3.6 | 3.6  | 2.4  | 2.5 | 2.4 | 3.4 | 3.6 | 3.9 | 2.8 | 3.9  | 1.3 |
| 13          | 3.9 | 3.3 | 2.8 | 2.5 | 2.3 | 3.6 | 3.1 | 1.6 | 1.9 | 3.3 | 2.4 | 1.7 | 2.3 | 3.8 | 5.6 | 3.7 | 2.3 | 3.2  | 3.5  | 3.4 | 3.0 | 1.8 | 1.1 | 2.4 | 2.9 | 5.6  | 1.1 |
| 14          | 2.7 | 3.2 | 3.4 | 3.2 | 3.5 | 3.1 | 3.2 | 1.7 | 2.5 | 2.1 | 1.7 | 2.5 | 3.5 | 4.1 | 3.5 | 2.8 | 2.3 | 4.4  | 3.5  | 3.0 | 2.8 | 0.8 | 0.7 | 1.8 | 2.8 | 4.4  | 0.7 |
| 15          | 2.7 | 2.9 | 2.7 | 2.8 | 2.9 | 3.1 | 2.5 | 1.6 | 1.5 | 1.6 | 1.4 | 2.3 | 3.1 | 3.3 | 2.9 | 2.6 | 2.9 | 2.2  | 2.3  | 2.6 | 2.7 | 2.8 | 3.0 | 3.5 | 2.6 | 3.5  | 1.4 |
| 16          | 3.7 | 3.3 | 2.7 | 2.8 | 3.2 | 3.7 | 3.6 | 2.8 | 1.5 | 1.2 | 1.0 | 1.7 | 2.5 | 2.8 | 3.2 | 3.1 | 3.3 | 3.3  | 2.8  | 2.5 | 3.0 | 3.0 | 3.1 | 3.5 | 2.8 | 3.7  | 1.0 |
| 17          | 3.3 | 3.1 | 2.8 | 3.3 | 3.3 | 3.3 | 2.8 | 1.8 | 3.2 | 2.0 | 1.6 | 2.0 | 2.7 | 2.8 | 2.5 | 3.9 | 4.1 | 3.8  | 3.6  | 2.2 | 2.6 | 1.8 | 2.5 | 3.4 | 2.9 | 4.1  | 1.6 |
| 18          | 3.5 | 2.9 | 3.3 | 3.2 | 3.2 | 3.0 | 2.6 | 2.0 | 2.7 | 2.7 | 2.1 | 2.4 | 3.1 | 3.5 | 3.6 | 4.3 | 6.0 | 5.0  | 4.9  | 3.1 | 2.8 | 2.3 | 4.3 | 3.9 | 3.4 | 6.0  | 2.0 |
| 19          | 1.7 | 2.0 | 1.2 | 1.7 | 3.0 | 3.2 | 2.6 | 2.5 | 2.9 | 2.0 | 1.9 | 2.2 | 2.5 | 3.1 | 4.2 | 4.6 | 4.5 | 3.9  | 3.3  | 2.3 | 2.6 | 2.1 | 2.2 | 3.3 | 2.7 | 4.6  | 1.2 |
| 20          | 3.2 | 3.2 | 3.1 | 3.2 | 3.2 | 2.9 | 2.9 | 1.1 | 2.3 | 2.4 | 2.2 | 2.5 | 3.2 | 4.0 | 3.5 | 4.0 | 4.1 | 3.7  | 4.1  | 2.5 | 1.3 | 2.5 | 2.6 | 2.1 | 2.9 | 4.1  | 1.1 |
| 21          | 2.6 | 3.2 | 3.4 | 3.1 | 3.6 | 3.6 | 2.9 | 1.2 | 0.9 | 1.1 | 1.5 | 2.0 | 2.2 | 2.6 | 2.9 | 4.3 | 4.9 | 4.7  | 3.6  | 2.4 | 2.1 | 1.6 | 2.2 | 2.7 | 2.7 | 4.9  | 0.9 |
| 22          | 1.3 | 3.1 | 3.0 | 2.9 | 2.9 | 3.4 | 3.2 | 1.8 | 1.9 | 2.3 | 2.0 | 2.2 | 2.0 | 2.4 | 2.5 | 2.6 | 2.6 | 2.9  | 2.8  | 2.1 | 1.8 | 3.4 | 3.7 | 3.7 | 2.6 | 3.7  | 1.3 |
| 23          | 3.7 | 4.1 | 3.8 | 0.9 | 1.8 | 2.9 | 4.0 | 4.3 | 4.7 | 5.0 | 4.9 | 3.9 | 2.4 | 2.7 | 4.0 | 5.0 | 3.3 | 3.0  | 3.1  | 3.0 | 3.2 | 3.5 | 3.0 | 2.2 | 3.4 | 5.0  | 0.9 |
| 24          | 3.0 | 3.7 | 3.7 | 3.0 | 3.2 | 2.8 | 2.8 | 3.0 | 4.7 | 6.1 | 6.4 | 6.5 | 5.6 | 4.7 | 5.7 | 6.8 | 6.9 | 6.9  | 6.3  | 4.4 | 3.8 | 2.6 | 4.8 | 5.3 | 4.7 | 6.9  | 2.6 |
| 25          | 3.1 | 3.0 | 2.1 | 2.4 | 3.7 | 4.0 | 1.9 | 4.2 | 5.5 | 5.0 | 4.2 | 4.9 | 6.0 | 6.4 | 5.8 | 6.0 | 7.0 | 7.5  | 7.3  | 7.4 | 4.2 | 4.5 | 3.8 | 3.6 | 4.7 | 7.5  | 1.9 |
| 26          | 2.6 | 1.8 | 1.1 | 1.7 | 2.2 | 2.6 | 2.1 | 1.8 | 2.5 | 2.8 | 2.6 | 1.9 | 2.8 | 4.2 | 4.0 | 5.4 | 4.5 | 4.0  | 3.8  | 2.9 | 1.2 | 1.2 | 1.6 | 2.7 | 2.7 | 5.4  | 1.1 |
| 27          | 2.0 | 3.0 | 3.0 | 2.9 | 3.1 | 3.1 | 2.9 | 3.5 | 4.4 | 4.2 | 3.2 | 2.8 | 4.6 | 5.0 | 6.0 | 6.4 | 6.2 | 5.9  | 4.9  | 4.2 | 3.5 | 2.8 | 3.2 | 2.2 | 3.9 | 6.4  | 2.0 |
| 28          | 2.9 | 2.7 | 1.8 | 2.4 | 2.2 | 2.6 | 2.2 | 2.3 | 3.1 | 4.1 | 5.7 | 6.0 | 6.2 | 8.2 | 8.4 | 7.9 | 9.1 | 10.3 | 12.0 | 8.9 | 6.9 | 5.5 | 4.9 | 4.1 | 5.4 | 12.0 | 1.8 |
| 29          | 2.9 | 3.2 | 2.4 | 3.3 | 3.0 | 2.7 | 1.7 | 1.1 | 1.1 | 2.0 | 2.7 | 4.8 | 5.6 | 6.3 | 6.2 | 5.9 | 5.7 | 5.8  | 5.2  | 2.3 | 2.2 | 2.8 | 3.3 | 3.0 | 3.6 | 6.3  | 1.1 |
| 30          | 3.4 | 3.7 | 4.0 | 3.7 | 3.1 | 2.9 | 2.2 | 1.3 | 1.0 | 2.0 | 1.3 | 2.2 | 3.3 | 3.7 | 3.6 | 3.2 | 3.4 | 3.0  | 3.1  | 1.6 | 0.6 | 1.8 | 3.4 | 3.2 | 2.7 | 4.0  | 0.6 |
| Avg         | 2.9 | 2.9 | 2.8 | 2.7 | 3.0 | 3.3 | 2.9 | 2.3 | 2.7 | 2.9 | 2.6 | 2.8 | 3.3 | 3.7 | 4.0 | 4.2 | 4.3 | 4.3  | 4.0  | 3.1 | 2.7 | 2.8 | 2.9 | 3.1 | 3.2 | --   | --  |
| Max         | 3.9 | 4.3 | 4.9 | 4.7 | 5.6 | 7.9 | 7.3 | 8.4 | 8.7 | 7.2 | 6.4 | 6.5 | 7.2 | 8.2 | 8.4 | 7.9 | 9.1 | 10.3 | 12.0 | 8.9 | 6.9 | 6.9 | 4.9 | 5.3 | --  | 12.0 | --  |
| Min         | 1.3 | 1.5 | 0.9 | 0.8 | 1.6 | 2.0 | 1.6 | 0.7 | 0.9 | 1.1 | 1.0 | 1.7 | 1.7 | 2.0 | 1.7 | 2.0 | 1.5 | 1.2  | 1.7  | 1.6 | 0.6 | 0.8 | 0.7 | 1.5 | --  | --   | 0.6 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: May 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           | 3.5 | 3.3 | 3.1 | 3.0 | 2.8 | 3.2 | 2.6 | 1.9 | 2.5 | 2.3 | 1.9 | 2.4 | 2.4 | 2.9 | 3.4 | 4.0 | 3.4  | 4.0  | 3.4 | 2.4 | 2.4 | 2.3 | 3.3 | 3.3 | 2.9 | 4.0  | 1.9 |
| 2           | 3.6 | 3.4 | 3.0 | 3.2 | 3.4 | 3.0 | 2.4 | 2.4 | 3.3 | 2.4 | 2.3 | 2.4 | 2.7 | 4.5 | 3.8 | 4.8 | 4.8  | 4.7  | 4.0 | 2.1 | 1.6 | 1.8 | 3.5 | 3.4 | 3.2 | 4.8  | 1.6 |
| 3           | 2.6 | 3.2 | 2.9 | 3.0 | 3.3 | 3.7 | 3.5 | 1.9 | 2.4 | 1.7 | 1.6 | 2.2 | 3.2 | 2.9 | 3.4 | 2.6 | 5.0  | 5.6  | 5.1 | 2.5 | 2.1 | 2.9 | 3.7 | 3.8 | 3.1 | 5.6  | 1.6 |
| 4           | 4.4 | 3.5 | 3.4 | 3.1 | 3.2 | 3.5 | 2.3 | 1.3 | 2.1 | 1.7 | 1.8 | 1.7 | 1.9 | 2.6 | 2.3 | 3.5 | 3.5  | 2.6  | 2.4 | 2.4 | 2.7 | 3.0 | 3.5 | 3.7 | 2.7 | 4.4  | 1.3 |
| 5           | 3.9 | 4.1 | 3.8 | 4.0 | 3.6 | 3.4 | 3.8 | 4.3 | 4.3 | 5.2 | 2.8 | 5.3 | 3.5 | 2.7 | 3.2 | 4.4 | 5.0  | 6.2  | 5.3 | 3.5 | 3.0 | 1.6 | 1.6 | 2.3 | 3.8 | 6.2  | 1.6 |
| 6           | 3.0 | 1.9 | 2.7 | 2.9 | 3.0 | 3.1 | 1.9 | 3.0 | 4.2 | 7.9 | 5.5 | 5.6 | 5.1 | 6.1 | 8.8 | 9.8 | 9.5  | 9.6  | 9.9 | 7.7 | 3.9 | 3.6 | 2.6 | 3.2 | 5.2 | 9.9  | 1.9 |
| 7           | 1.4 | 1.6 | 1.4 | 1.9 | 1.8 | 1.4 | 2.8 | 2.9 | 3.3 | 3.5 | 5.0 | 5.8 | 6.3 | 6.4 | 4.6 | 3.9 | 4.1  | 3.9  | 0.9 | 0.8 | 1.8 | 2.2 | 1.4 | 0.9 | 2.9 | 6.4  | 0.8 |
| 8           | 0.5 | 1.2 | 1.4 | 1.4 | 1.0 | 1.6 | 2.4 | 2.6 | 2.4 | 1.6 | 2.1 | 3.1 | 3.1 | 3.1 | 3.2 | 5.4 | 7.9  | 6.7  | 6.0 | 4.4 | 6.8 | 5.2 | 3.4 | 2.3 | 3.3 | 7.9  | 0.5 |
| 9           | 2.6 | 1.3 | 2.9 | 3.8 | 2.3 | 2.3 | 3.1 | 2.9 | 2.7 | 2.3 | 1.7 | 2.4 | 1.7 | 2.5 | 3.0 | 3.4 | 3.4  | 6.2  | 5.8 | 3.0 | 1.7 | 1.5 | 1.1 | 2.1 | 2.7 | 6.2  | 1.1 |
| 10          | 2.7 | 1.6 | 1.7 | 1.8 | 1.8 | 2.3 | 1.5 | 2.5 | 2.1 | 1.7 | 1.9 | 3.1 | 3.3 | 3.2 | 3.7 | 3.9 | 3.7  | 3.2  | 3.4 | 2.2 | 1.7 | 0.8 | 1.7 | 2.5 | 2.4 | 3.9  | 0.8 |
| 11          | 3.1 | 3.6 | 3.1 | 2.3 | 2.9 | 3.8 | 1.5 | 0.8 | 1.2 | 2.5 | 2.3 | 2.5 | 3.5 | 3.8 | 3.9 | 4.6 | 4.7  | 4.4  | 3.8 | 2.4 | 1.1 | 1.8 | 2.9 | 3.2 | 2.9 | 4.7  | 0.8 |
| 12          | 3.2 | 2.9 | 2.8 | 2.8 | 3.4 | 3.5 | 2.5 | 1.1 | 1.5 | 2.0 | 1.9 | 2.3 | 3.4 | 4.4 | 3.7 | 3.9 | 3.8  | 3.5  | 1.9 | 2.4 | 2.0 | 1.9 | 1.3 | 1.7 | 2.7 | 4.4  | 1.1 |
| 13          | 2.4 | 2.5 | 2.9 | 1.6 | 2.4 | 2.3 | 2.5 | 1.7 | 2.2 | 1.9 | 1.8 | 2.4 | 4.5 | 5.2 | 5.8 | 6.4 | 6.8  | 7.6  | 7.4 | 5.9 | 3.7 | 3.0 | 3.8 | 2.7 | 3.7 | 7.6  | 1.6 |
| 14          | 2.2 | 2.3 | 3.2 | 3.0 | 2.8 | 2.7 | 2.6 | 4.0 | 6.2 | 6.6 | 5.6 | 5.3 | 5.2 | 5.3 | 4.7 | 4.4 | 4.7  | 5.4  | 5.8 | 5.1 | 3.3 | 1.6 | 1.2 | 1.5 | 3.9 | 6.6  | 1.2 |
| 15          | 3.7 | 3.3 | 2.0 | 1.6 | 3.2 | 3.4 | 2.5 | 4.2 | 5.2 | 6.1 | 6.3 | 5.3 | 6.8 | 8.8 | 9.3 | 9.6 | 10.9 | 10.6 | 9.0 | 6.8 | 4.2 | 1.5 | 2.7 | 2.9 | 5.4 | 10.9 | 1.5 |
| 16          | 2.4 | 3.6 | 2.2 | 2.6 | 2.4 | 2.6 | 2.4 | 3.3 | 3.6 | 3.3 | 3.9 | 2.9 | 4.1 | 4.3 | 4.6 | 5.4 | 5.0  | 4.7  | 4.2 | 2.6 | 1.8 | 2.1 | 1.7 | 2.3 | 3.3 | 5.4  | 1.7 |
| 17          | 3.0 | 2.4 | 2.7 | 2.9 | 2.7 | 2.8 | 1.9 | 3.3 | 3.5 | 2.5 | 2.6 | 3.0 | 3.4 | 3.9 | 4.9 | 4.1 | 4.4  | 5.5  | 5.1 | 5.3 | 5.7 | 4.2 | 3.6 | 4.0 | 3.6 | 5.7  | 1.9 |
| 18          | 2.9 | 1.2 | 1.2 | 1.0 | 1.8 | 2.4 | 2.2 | 1.8 | 1.4 | 2.0 | 3.2 | 4.0 | 5.0 | 5.4 | 5.4 | 6.6 | 6.8  | 6.2  | 5.5 | 3.1 | 3.0 | 3.4 | 4.5 | 3.3 | 3.5 | 6.8  | 1.0 |
| 19          | 3.6 | 4.4 | 2.0 | 2.0 | 2.1 | 1.5 | 3.0 | 7.1 | 6.8 | 4.1 | 3.0 | 2.2 | 2.9 | 2.1 | 2.8 | 3.5 | 4.6  | 4.6  | 4.6 | 2.7 | 1.5 | 1.9 | 2.5 | 3.8 | 3.3 | 7.1  | 1.5 |
| 20          | 3.6 | 2.7 | 2.1 | 3.1 | 3.3 | 3.1 | 2.7 | 3.5 | 5.2 | 4.9 | 2.9 | 3.0 | 2.4 | 2.5 | 2.9 | 4.6 | 4.4  | 5.5  | 5.1 | 2.9 | 1.5 | 2.9 | 3.5 | 3.8 | 3.4 | 5.5  | 1.5 |
| 21          | 3.0 | 3.5 | 3.9 | 4.7 | 3.6 | 3.4 | 2.3 | 4.1 | 3.8 | 3.6 | 2.8 | 2.2 | 2.7 | 3.3 | 3.1 | 3.6 | 4.2  | 3.6  | 3.4 | 2.5 | 1.4 | 2.0 | 3.2 | 3.5 | 3.2 | 4.7  | 1.4 |
| 22          | 3.1 | 2.7 | 3.0 | 3.0 | 3.6 | 3.3 | 2.1 | 2.3 | 3.5 | 2.5 | 2.4 | 2.1 | 2.3 | 3.0 | 4.4 | 6.0 | 5.8  | 5.7  | 4.6 | 3.1 | 1.8 | 1.7 | 3.4 | 3.1 | 3.3 | 6.0  | 1.7 |
| 23          | 2.2 | 3.0 | 3.5 | 3.4 | 3.0 | 3.2 | 2.3 | 1.8 | 3.1 | 2.2 | 2.2 | 2.8 | 3.3 | 4.2 | 4.2 | 4.1 | 3.2  | 3.4  | 4.1 | 2.6 | 0.8 | 2.2 | 3.8 | 4.1 | 3.0 | 4.2  | 0.8 |
| 24          | 2.5 | 3.0 | 2.5 | 2.8 | 3.1 | 3.5 | 2.5 | 3.1 | 3.7 | 2.8 | 2.4 | 2.1 | 2.8 | 4.3 | 4.3 | 5.4 | 5.2  | 4.5  | 6.3 | 4.7 | 5.0 | 3.2 | 2.3 | 3.4 | 3.6 | 6.3  | 2.1 |
| 25          | 2.7 | 2.2 | 3.7 | 3.1 | 3.0 | 3.6 | 3.3 | 5.2 | 6.4 | 5.2 | 4.5 | 4.4 | 4.7 | 5.2 | 4.8 | 5.3 | 7.0  | 7.1  | 7.1 | 4.5 | 6.0 | 4.9 | 4.3 | 3.5 | 4.7 | 7.1  | 2.2 |
| 26          | 2.9 | 2.7 | 1.4 | 1.6 | 2.1 | 3.7 | 2.6 | 2.6 | 4.2 | 6.2 | 6.2 | 6.9 | 7.4 | 7.3 | 5.9 | 6.4 | 6.3  | 5.2  | 5.2 | 4.3 | 5.3 | 3.6 | 2.7 | 3.4 | 4.4 | 7.4  | 1.4 |
| 27          | 3.4 | 2.8 | 3.1 | 2.4 | 3.9 | 3.6 | 2.7 | 1.5 | 2.6 | 3.0 | 2.9 | 2.9 | 2.7 | 2.5 | 3.2 | 3.6 | 3.4  | 3.6  | 3.2 | 2.6 | 2.8 | 2.4 | 2.7 | 3.4 | 3.0 | 3.9  | 1.5 |
| 28          | 3.8 | 3.0 | 2.1 | 2.9 | 3.2 | 2.8 | 1.7 | 1.6 | 3.0 | 2.7 | 2.7 | 2.1 | 2.6 | 2.9 | 3.4 | 3.0 | 3.2  | 3.5  | 2.7 | 2.6 | 2.8 | 3.4 | 3.2 | 3.4 | 2.8 | 3.8  | 1.6 |
| 29          | 3.3 | 2.9 | 3.0 | 3.6 | 3.1 | 2.9 | 1.2 | 1.1 | 2.2 | 2.7 | 3.4 | 3.0 | 2.8 | 3.3 | 3.1 | 3.9 | 4.9  | 4.0  | 4.1 | 2.5 | 2.5 | 1.9 | 2.6 | 2.8 | 2.9 | 4.9  | 1.1 |
| 30          | 3.1 | 2.9 | 3.5 | 2.6 | 2.8 | 3.2 | 1.8 | 2.5 | 3.3 | 3.7 | 2.9 | 3.3 | 3.4 | 3.8 | 4.1 | 5.6 | 5.0  | 3.9  | 3.1 | 5.6 | 8.1 | 4.6 | 2.7 | 3.1 | 3.7 | 8.1  | 1.8 |
| 31          | 2.5 | 3.9 | 3.5 | 3.2 | 3.0 | 3.5 | 3.6 | 3.0 | 3.9 | 4.8 | 4.1 | 2.6 | 3.3 | 4.3 | 4.7 | 4.3 | 3.8  | 2.6  | 4.3 | 4.8 | 5.3 | 4.7 | 2.7 | 2.2 | 3.7 | 5.3  | 2.2 |
| Avg         | 2.9 | 2.8 | 2.7 | 2.7 | 2.8 | 3.0 | 2.5 | 2.8 | 3.4 | 3.4 | 3.1 | 3.3 | 3.6 | 4.1 | 4.3 | 4.8 | 5.1  | 5.1  | 4.7 | 3.5 | 3.1 | 2.7 | 2.8 | 3.0 | 3.4 | --   | --  |
| Max         | 4.4 | 4.4 | 3.9 | 4.7 | 3.9 | 3.8 | 3.8 | 7.1 | 6.8 | 7.9 | 6.3 | 6.9 | 7.4 | 8.8 | 9.3 | 9.8 | 10.9 | 10.6 | 9.9 | 7.7 | 8.1 | 5.2 | 4.5 | 4.1 | --  | 10.9 | --  |
| Min         | 0.5 | 1.2 | 1.2 | 1.0 | 1.0 | 1.4 | 1.2 | 0.8 | 1.2 | 1.6 | 1.6 | 1.7 | 1.7 | 2.1 | 2.3 | 2.6 | 3.2  | 2.6  | 0.9 | 0.8 | 0.8 | 0.8 | 1.1 | 0.9 | --  | --   | 0.5 |

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, WS\_ms\_10m"**  
**Month: Jun 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           | 1.4 | 1.4 | 1.6 | 2.0 | 2.5 | 2.5 | 1.7 | 1.7 | 2.3 | 2.7 | 3.6 | 3.9 | 4.2 | 3.5 | 3.9 | 3.9 | 4.1 | 4.6 | 5.1 | 3.2 | 3.3 | 2.8 | 1.8 | 1.4 | 2.9 | 5.1 | 1.4 |
| 2           | 1.8 | 1.8 | 2.1 | 2.1 | 1.5 | 2.9 | 1.6 | 0.8 | 1.3 | 1.8 | 2.4 | 2.6 | 3.0 | 2.5 | 3.5 | 4.1 | 3.6 | 3.0 | 2.7 | 2.0 | 1.4 | 0.9 | 2.5 | 2.6 | 2.3 | 4.1 | 0.8 |
| 3           | 2.7 | 2.9 | 2.2 | 2.6 | 2.5 | 2.6 | 1.7 | 3.1 | 2.6 | 1.8 | 1.9 | 2.3 | 2.3 | 3.2 | 3.9 | 4.5 | 3.9 | 3.6 | 4.1 | 2.8 | 2.2 | 1.3 | 0.7 | 1.6 | 2.6 | 4.5 | 0.7 |
| 4           | 2.4 | 2.6 | 2.9 | 2.6 | 3.1 | 2.6 | 2.5 | 3.1 | 2.6 | 2.1 | 1.8 | 2.3 | 2.6 | 2.9 | 4.0 | 4.5 | 4.8 | 4.7 | 5.1 | 3.6 | 2.6 | 2.4 | 2.3 | 1.5 | 3.0 | 5.1 | 1.5 |
| 5           | 1.5 | 2.5 | 2.6 | 2.4 | 2.4 | 2.6 | 1.9 | 2.9 | 2.5 | 2.4 | 2.8 | 3.3 | 2.9 | 3.8 | 3.4 | 4.0 | 4.1 | 4.6 | 4.0 | 3.5 | 2.7 | 2.8 | 2.2 | 2.1 | 2.9 | 4.6 | 1.5 |
| 6           | 1.7 | 1.7 | 3.0 | 2.5 | 2.3 | 2.7 | 1.8 | 2.5 | 2.3 | 2.2 | 2.3 | 2.5 | 2.5 | 2.7 | 2.9 | 3.8 | 3.5 | 3.2 | 4.1 | 4.4 | 3.6 | 2.6 | 1.9 | 1.8 | 2.7 | 4.4 | 1.7 |
| 7           | 1.7 | 1.5 | 2.0 | 2.1 | 1.7 | 2.5 | 1.5 | 1.2 | 0.9 | 1.4 | 1.9 | 2.3 | 2.3 | 3.0 | 4.6 | 3.8 | 3.9 | 4.6 | 5.9 | 4.5 | 2.6 | 2.4 | 3.1 | 2.8 | 2.7 | 5.9 | 0.9 |
| 8           | 2.9 | 2.3 | 2.1 | 2.9 | 3.4 | 2.8 | 1.5 | 2.3 | 2.9 | 3.6 | 3.3 | 2.5 | 2.7 | 3.9 | 4.8 | 4.4 | 4.5 | 5.5 | 5.1 | 3.6 | 2.4 | 2.5 | 2.9 | 2.7 | 3.2 | 5.5 | 1.5 |
| 9           | 2.7 | 2.9 | 3.0 | 3.0 | 3.3 | 2.8 | 1.9 | 1.1 | 2.1 | 1.2 | 1.8 | 2.2 | 2.5 | 3.1 | 3.6 | 3.0 | 2.6 | 3.2 | 4.3 | 4.5 | 2.8 | 2.5 | 2.1 | 0.6 | 2.6 | 4.5 | 0.6 |
| 10          | 2.0 | 2.7 | 2.5 | 2.3 | 2.4 | 2.6 | 2.8 | 3.5 | 2.8 | 2.6 | 3.7 | 4.0 | 4.8 | 4.6 | 3.7 | 4.3 | 4.5 | 6.0 | 5.6 | 4.8 | 3.6 | 2.1 | 2.0 | 2.2 | 3.4 | 6.0 | 2.0 |
| 11          | 3.7 | 4.1 | 3.5 | 2.4 | 2.2 | 2.9 | 2.9 | 4.9 | 5.1 | 4.9 | 4.8 | 4.7 | 4.7 | 6.4 | 6.0 | 7.3 | 7.6 | 7.8 | 8.2 | 5.7 | 3.2 | 4.2 | 3.9 | 2.8 | 4.7 | 8.2 | 2.2 |
| 12          | 2.6 | 3.0 | 3.3 | 2.6 | 2.7 | 1.9 | 0.9 | 1.6 | 1.5 | 2.8 | 3.4 | 4.1 | 3.7 | 3.7 | 2.6 | 3.8 | 3.5 | 5.1 | 5.5 | 4.8 | 3.0 | 2.4 | 1.5 | 2.3 | 3.0 | 5.5 | 0.9 |
| 13          | 2.0 | 2.4 | 2.6 | 2.5 | 3.1 | 3.1 | 2.0 | 2.3 | 1.9 | 1.4 | 1.8 | 1.9 | 2.4 | 3.1 | 3.0 | 2.7 | 2.9 | 2.9 | 2.6 | 2.2 | 2.4 | 2.4 | 3.3 | 3.8 | 2.5 | 3.8 | 1.4 |
| 14          | 3.9 | 4.0 | 3.6 | 4.0 | 2.4 | 2.5 | 1.2 | 0.8 | 0.5 | 1.3 | 1.8 | 2.1 | 2.3 | 3.0 | 3.0 | 3.6 | 3.6 | 3.5 | 3.4 | 2.6 | 2.2 | 2.6 | 3.5 | 3.9 | 2.7 | 4.0 | 0.5 |
| 15          | 4.3 | 4.0 | 3.4 | 3.5 | 3.3 | 2.5 | 2.1 | 0.7 | 1.7 | 2.1 | 2.1 | 2.5 | 2.8 | 2.9 | 2.6 | 2.9 | 4.1 | 3.2 | 1.7 | 2.4 | 2.6 | 2.8 | 3.7 | 3.9 | 2.8 | 4.3 | 0.7 |
| 16          | 3.7 | 3.7 | 2.7 | 3.5 | 3.5 | 3.7 | 2.5 | 2.3 | 2.9 | 2.4 | 2.7 | 3.3 | 2.6 | 3.6 | 3.5 | 4.5 | 4.3 | 3.4 | 3.2 | 2.9 | 2.9 | 1.8 | 2.7 | 2.2 | 3.1 | 4.5 | 1.8 |
| 17          | 3.0 | 2.9 | 3.3 | 3.6 | 3.5 | 3.5 | 2.7 | 2.5 | 2.2 | 1.7 | 2.2 | 2.3 | 3.3 | 3.9 | 4.7 | 4.5 | 4.4 | 3.8 | 3.9 | 3.0 | 2.3 | 2.4 | 3.0 | 3.1 | 3.1 | 4.7 | 1.7 |
| 18          | 3.0 | 2.6 | 2.6 | 2.6 | 3.3 | 3.3 | 2.7 | 1.7 | 2.8 | 2.1 | 2.0 | 2.5 | 3.4 | 3.7 | 4.3 | 4.2 | 3.8 | 3.1 | 2.9 | 2.4 | 2.0 | 1.2 | 1.7 | 3.4 | 2.8 | 4.3 | 1.2 |
| 19          | 3.1 | 2.9 | 3.1 | 3.7 | 2.9 | 2.4 | 2.4 | 2.2 | 2.4 | 2.0 | 1.8 | 2.4 | 2.9 | 3.6 | 4.0 | 5.1 | 5.7 | 5.0 | 5.3 | 3.6 | 3.0 | 3.5 | 3.3 | 2.8 | 3.3 | 5.7 | 1.8 |
| 20          | 2.5 | 2.3 | 2.6 | 2.4 | 2.5 | 2.4 | 1.1 | 1.8 | 3.1 | 6.2 | 4.3 | 3.1 | 3.8 | 4.3 | 4.1 | 4.3 | 5.2 | 5.0 | 3.8 | 4.0 | 2.3 | 2.5 | 2.5 | 2.9 | 3.3 | 6.2 | 1.1 |
| 21          | 2.9 | 3.5 | 3.7 | 3.8 | 1.1 | 2.2 | 2.4 | 2.9 | 4.2 | 3.8 | 3.1 | 3.4 | 3.0 | 3.8 | 4.1 | 4.7 | 4.6 | 4.9 | 5.5 | 3.5 | 2.1 | 1.7 | 2.1 | 2.4 | 3.3 | 5.5 | 1.1 |
| 22          | 2.7 | 2.6 | 2.2 | 2.9 | 2.8 | 2.9 | 3.0 | 3.4 | 3.2 | 2.6 | 2.4 | 2.3 | 3.6 | 4.4 | 4.5 | 4.5 | 5.4 | 5.9 | 5.7 | 4.5 | 2.9 | 1.0 | 1.5 | 2.0 | 3.3 | 5.9 | 1.0 |
| 23          | 2.8 | 2.2 | 1.9 | 2.7 | 2.3 | 2.1 | 1.9 | 3.0 | 2.6 | 2.5 | 3.4 | 3.1 | 3.5 | 3.3 | 3.9 | 4.3 | 4.9 | 5.3 | 4.7 | 3.4 | 1.7 | 1.0 | 0.4 | 0.8 | 2.8 | 5.3 | 0.4 |
| 24          | 2.5 | 2.6 | 2.7 | 2.8 | 2.7 | 2.8 | 2.6 | 2.4 | 4.1 | 2.2 | 1.4 | 2.1 | 2.5 | 2.5 | 3.6 | 4.8 | 5.3 | 4.9 | 4.9 | 3.2 | 2.2 | 1.2 | 2.9 | 3.5 | 3.0 | 5.3 | 1.2 |
| 25          | 3.4 | 4.8 | 8.1 | 4.3 | 3.4 | 3.7 | 4.8 | 5.8 | 7.1 | 7.0 | 5.6 | 3.8 | 3.0 | 3.4 | 3.4 | 4.7 | 6.0 | 5.4 | 5.4 | 4.3 | 6.6 | 6.5 | 3.6 | 2.5 | 4.9 | 8.1 | 2.5 |
| 26          | 2.1 | 2.3 | 2.9 | 3.8 | 4.0 | 3.6 | 3.9 | 4.3 | 3.2 | 2.3 | 2.6 | 2.0 | 2.0 | 3.2 | 3.0 | 4.0 | 5.3 | 5.3 | 4.8 | 2.7 | 1.7 | 2.1 | 3.0 | 2.4 | 3.2 | 5.3 | 1.7 |
| 27          | 2.8 | 3.0 | 3.2 | 3.1 | 2.8 | 2.6 | 2.2 | 4.3 | 3.7 | 3.7 | 4.5 | 4.5 | 5.6 | 6.1 | 5.6 | 6.8 | 6.2 | 5.8 | 4.7 | 3.2 | 2.5 | 1.7 | 1.7 | 1.9 | 3.8 | 6.8 | 1.7 |
| 28          | 2.9 | 2.9 | 2.9 | 2.7 | 3.2 | 3.1 | 2.5 | 2.8 | 4.1 | 4.0 | 5.0 | 4.0 | 3.7 | 3.7 | 3.7 | 3.8 | 4.5 | 3.7 | 3.0 | 2.5 | 1.5 | 2.4 | 1.9 | 2.2 | 3.2 | 5.0 | 1.5 |
| 29          | 2.8 | 2.6 | 2.9 | 2.9 | 2.2 | 3.2 | 3.0 | 2.2 | 2.8 | 3.1 | 2.8 | 2.4 | 2.7 | 3.6 | 3.0 | 3.2 | 2.1 | 1.9 | 1.4 | 2.5 | 2.4 | 2.8 | 2.4 | 3.6 | 2.7 | 3.6 | 1.4 |
| 30          | 3.6 | 3.1 | 2.5 | 3.1 | 3.1 | 3.4 | 2.8 | 1.6 | 1.8 | 2.0 | 2.0 | 1.9 | 2.8 | 3.2 | 3.3 | 3.2 | 3.1 | 3.0 | 2.6 | 1.7 | 2.1 | 3.7 | 3.7 | 3.9 | 2.8 | 3.9 | 1.6 |
| Avg         | 2.7 | 2.8 | 2.9 | 2.9 | 2.7 | 2.8 | 2.3 | 2.5 | 2.8 | 2.7 | 2.8 | 2.9 | 3.1 | 3.6 | 3.8 | 4.2 | 4.4 | 4.4 | 4.3 | 3.4 | 2.6 | 2.4 | 2.5 | 2.5 | 3.1 | --  | --  |
| Max         | 4.3 | 4.8 | 8.1 | 4.3 | 4.0 | 3.7 | 4.8 | 5.8 | 7.1 | 7.0 | 5.6 | 4.7 | 5.6 | 6.4 | 6.0 | 7.3 | 7.6 | 7.8 | 8.2 | 5.7 | 6.6 | 6.5 | 3.9 | 3.9 | --  | 8.2 | --  |
| Min         | 1.4 | 1.4 | 1.6 | 2.0 | 1.1 | 1.9 | 0.9 | 0.7 | 0.5 | 1.2 | 1.4 | 1.9 | 2.0 | 2.5 | 2.6 | 2.7 | 2.1 | 1.9 | 1.4 | 1.7 | 1.4 | 0.9 | 0.4 | 0.6 | --  | --  | 0.4 |

## **Appendix B – PM<sub>10</sub> and PM<sub>2.5</sub> Data: Hourly**

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**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: Apr 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 | 18.0 | 17.0 | 23.0 | 27.0 | 25.0 | 22.0 | 22.0 | 38.0 | 37.0 | 30.0 | 27.0 | 29.0 | 23.0 | 31.0 | 32.0 | 17.0 | 19.0 | 28.0  | 11.0 | 13.0 | 16.0 | 16.0 | 16.0 | 23.5 | 38.0  | 11.0 |
| 2           | 13.0 | 13.0 | 12.0 | 17.0 | 16.0 | 16.0 | 15.0 | 18.0 | 15.0 | 16.0 | 18.0 | 12.0 | 19.0 | 16.0 | 20.0 | 23.0 | 14.0 | 15.0 | 17.0  | 17.0 | 16.0 | 15.0 | 12.0 | 14.0 | 15.8 | 23.0  | 12.0 |
| 3           | 12.0 | 12.0 | 14.0 | 17.0 | 16.0 | 14.0 | 13.0 | 22.0 | 19.0 | 14.0 | 16.0 | 13.0 | 13.0 | 17.0 | 20.0 | 28.0 | 30.0 | 33.0 | 27.0  | 38.0 | 33.0 | 35.0 | 15.0 | 15.0 | 20.3 | 38.0  | 12.0 |
| 4           | 13.0 | 7.0  | 2.0  | 1.0  | 1.0  | 1.0  | 1.0  | 3.0  | 3.0  | 2.0  | 1.0  | 2.0  | 6.0  | 6.0  | 4.0  | 3.0  | 5.0  | 6.0  | 7.0   | 8.0  | 7.0  | 7.0  | 7.0  | 6.0  | 4.5  | 13.0  | 1.0  |
| 5           | 6.0  | 9.0  | 10.0 | 11.0 | 15.0 | 16.0 | 6.0  | 6.0  | 21.0 | 19.0 | 12.0 | 17.0 | 17.0 | --   | --   | 8.0  | 4.0  | 1.0  | 6.0   | 6.0  | 4.0  | 4.0  | 5.0  | 5.0  | 9.5  | 21.0  | 1.0  |
| 6           | 1.0  | 4.0  | 9.0  | 7.0  | 7.0  | 11.0 | 16.0 | 18.0 | 24.0 | 12.0 | 17.0 | 12.0 | 11.0 | 12.0 | 10.0 | 8.0  | 9.0  | 11.0 | 14.0  | 19.0 | 9.0  | 12.0 | 13.0 | 11.0 | 11.5 | 24.0  | 1.0  |
| 7           | 11.0 | 11.0 | 10.0 | 8.0  | 7.0  | 7.0  | 9.0  | 11.0 | 15.0 | 17.0 | 10.0 | 12.0 | 12.0 | 9.0  | 10.0 | 8.0  | 7.0  | 8.0  | 8.0   | 10.0 | 13.0 | 12.0 | 10.0 | 9.0  | 10.2 | 17.0  | 7.0  |
| 8           | 10.0 | 13.0 | 12.0 | 13.0 | 11.0 | 11.0 | 12.0 | 10.0 | 10.0 | 10.0 | 11.0 | 9.0  | 8.0  | 11.0 | 12.0 | 23.0 | 19.0 | 20.0 | 14.0  | 13.0 | 13.0 | 21.0 | 17.0 | 20.0 | 13.5 | 23.0  | 8.0  |
| 9           | 11.0 | 10.0 | 17.0 | 18.0 | 20.0 | 20.0 | 25.0 | 23.0 | 26.0 | 19.0 | 15.0 | 20.0 | 17.0 | 17.0 | 17.0 | 15.0 | 18.0 | 27.0 | 17.0  | 17.0 | 19.0 | 22.0 | 21.0 | 24.0 | 19.0 | 27.0  | 10.0 |
| 10          | 17.0 | 22.0 | 17.0 | 17.0 | 22.0 | 29.0 | 27.0 | 20.0 | 29.0 | 15.0 | 13.0 | 14.0 | 17.0 | 19.0 | 17.0 | 16.0 | 17.0 | 15.0 | 16.0  | 22.0 | 16.0 | 18.0 | 15.0 | 15.0 | 18.5 | 29.0  | 13.0 |
| 11          | 15.0 | 14.0 | 13.0 | 17.0 | 15.0 | 18.0 | 22.0 | 12.0 | 14.0 | 15.0 | 13.0 | 13.0 | 13.0 | 12.0 | 12.0 | 21.0 | 18.0 | 16.0 | 23.0  | 20.0 | 25.0 | 14.0 | 14.0 | 21.0 | 16.3 | 25.0  | 12.0 |
| 12          | 16.0 | 6.0  | 9.0  | 10.0 | 8.0  | 9.0  | 9.0  | 15.0 | 12.0 | 11.0 | 15.0 | 16.0 | 18.0 | 22.0 | 14.0 | 16.0 | 17.0 | 16.0 | 21.0  | 17.0 | 21.0 | 18.0 | 15.0 | 12.0 | 14.3 | 22.0  | 6.0  |
| 13          | 8.0  | 8.0  | 11.0 | 12.0 | 13.0 | 11.0 | 16.0 | 15.0 | 19.0 | 17.0 | 18.0 | 17.0 | 11.0 | 12.0 | 13.0 | 24.0 | 25.0 | 23.0 | 21.0  | 21.0 | 17.0 | 14.0 | 17.0 | 19.0 | 15.9 | 25.0  | 8.0  |
| 14          | 12.0 | 16.0 | 14.0 | 14.0 | 12.0 | 11.0 | 12.0 | 16.0 | 22.0 | 14.0 | 16.0 | 22.0 | 17.0 | 9.0  | 30.0 | 20.0 | 28.0 | 27.0 | 19.0  | 19.0 | 18.0 | 26.0 | 24.0 | 17.0 | 18.1 | 30.0  | 9.0  |
| 15          | 18.0 | 16.0 | 17.0 | 14.0 | 13.0 | 14.0 | 14.0 | 17.0 | 13.0 | 15.0 | 9.0  | 19.0 | 6.0  | 8.0  | 10.0 | 15.0 | 18.0 | 19.0 | 22.0  | 21.0 | 20.0 | 16.0 | 19.0 | 26.0 | 15.8 | 26.0  | 6.0  |
| 16          | 14.0 | 13.0 | 13.0 | 15.0 | 15.0 | 15.0 | 19.0 | 17.0 | 20.0 | 12.0 | 16.0 | 16.0 | 12.0 | 12.0 | 19.0 | 13.0 | 13.0 | 21.0 | 15.0  | 17.0 | 17.0 | 14.0 | 13.0 | 13.0 | 15.2 | 21.0  | 12.0 |
| 17          | 15.0 | 11.0 | 12.0 | 13.0 | 12.0 | 12.0 | 12.0 | 16.0 | 22.0 | 14.0 | 17.0 | 17.0 | 17.0 | 16.0 | 14.0 | 13.0 | 18.0 | 15.0 | 16.0  | 9.0  | 11.0 | 12.0 | 13.0 | 11.0 | 14.1 | 22.0  | 9.0  |
| 18          | 8.0  | 8.0  | 9.0  | 9.0  | 6.0  | 5.0  | 6.0  | 19.0 | 7.0  | 10.0 | 12.0 | 11.0 | 16.0 | 17.0 | 14.0 | 17.0 | 19.0 | 16.0 | 17.0  | 17.0 | 11.0 | 17.0 | 13.0 | 21.0 | 12.7 | 21.0  | 5.0  |
| 19          | 15.0 | 19.0 | 15.0 | 17.0 | 13.0 | 16.0 | 19.0 | 21.0 | 15.0 | 17.0 | 17.0 | 16.0 | 7.0  | 10.0 | 13.0 | 19.0 | 15.0 | 16.0 | 22.0  | 18.0 | 19.0 | 8.0  | 9.0  | 9.0  | 15.2 | 22.0  | 7.0  |
| 20          | 10.0 | 10.0 | 12.0 | 9.0  | 6.0  | 9.0  | 7.0  | 10.0 | 16.0 | 12.0 | 12.0 | 11.0 | 12.0 | 12.0 | 11.0 | 12.0 | 12.0 | 19.0 | 18.0  | 19.0 | 14.0 | 14.0 | 16.0 | 10.0 | 12.2 | 19.0  | 6.0  |
| 21          | 11.0 | 13.0 | 11.0 | 10.0 | 10.0 | 8.0  | 9.0  | 15.0 | 10.0 | 8.0  | 9.0  | 13.0 | 15.0 | 14.0 | 13.0 | 18.0 | 16.0 | 32.0 | 20.0  | 18.0 | 15.0 | 25.0 | 18.0 | 16.0 | 14.5 | 32.0  | 8.0  |
| 22          | 20.0 | 10.0 | 10.0 | 16.0 | 7.0  | 7.0  | 7.0  | 10.0 | 16.0 | 15.0 | 11.0 | 19.0 | 17.0 | 13.0 | 14.0 | 17.0 | 22.0 | 13.0 | 16.0  | 13.0 | 13.0 | 16.0 | 13.0 | 13.0 | 13.7 | 22.0  | 7.0  |
| 23          | 14.0 | 12.0 | 11.0 | 11.0 | 32.0 | 73.0 | 86.0 | 77.0 | 66.0 | 47.0 | 41.0 | 31.0 | 37.0 | 24.0 | 19.0 | 22.0 | 13.0 | 24.0 | 15.0  | 17.0 | 22.0 | 23.0 | 25.0 | 19.0 | 31.7 | 86.0  | 11.0 |
| 24          | 15.0 | 5.0  | 5.0  | 6.0  | 5.0  | 21.0 | 15.0 | 11.0 | 11.0 | 12.0 | 20.0 | 18.0 | 31.0 | 30.0 | 39.0 | 26.0 | 32.0 | 19.0 | 20.0  | 17.0 | 16.0 | 17.0 | 15.0 | 23.0 | 17.9 | 39.0  | 5.0  |
| 25          | 35.0 | 20.0 | 17.0 | 14.0 | 20.0 | 21.0 | 27.0 | 30.0 | 34.0 | 40.0 | 48.0 | 66.0 | --   | --   | 77.0 | 75.0 | 74.0 | 72.0 | 70.0  | 50.0 | 38.0 | 29.0 | 19.0 | 22.0 | 40.8 | 77.0  | 14.0 |
| 26          | 8.0  | 5.0  | 5.0  | 8.0  | 9.0  | 11.0 | 10.0 | 7.0  | 10.0 | 12.0 | 10.0 | 8.0  | 6.0  | 9.0  | 14.0 | 13.0 | 15.0 | 13.0 | 13.0  | 12.0 | 10.0 | 9.0  | 9.0  | 7.0  | 9.7  | 15.0  | 5.0  |
| 27          | 8.0  | 17.0 | 22.0 | 15.0 | 17.0 | 11.0 | 17.0 | 15.0 | 15.0 | 12.0 | 12.0 | 19.0 | 19.0 | 27.0 | 28.0 | 35.0 | 74.0 | 27.0 | 29.0  | 18.0 | 25.0 | 22.0 | 20.0 | 24.0 | 22.0 | 74.0  | 8.0  |
| 28          | 20.0 | 16.0 | 15.0 | 14.0 | 13.0 | 11.0 | 11.0 | 15.0 | 15.0 | 15.0 | 26.0 | 26.0 | 27.0 | 27.0 | 51.0 | 65.0 | 79.0 | 83.0 | 237.0 | 47.0 | 25.0 | 17.0 | 7.0  | 9.0  | 36.3 | 237.0 | 7.0  |
| 29          | 9.0  | 8.0  | 7.0  | 10.0 | 11.0 | 6.0  | 5.0  | 8.0  | 10.0 | 7.0  | 6.0  | 6.0  | 6.0  | 6.0  | 4.0  | 3.0  | 4.0  | 5.0  | 6.0   | 6.0  | 7.0  | 8.0  | 6.0  | 6.0  | 6.7  | 11.0  | 3.0  |
| 30          | 7.0  | 8.0  | 8.0  | 10.0 | 12.0 | 9.0  | 5.0  | 3.0  | 5.0  | 6.0  | 4.0  | 5.0  | 8.0  | 8.0  | 7.0  | 8.0  | 8.0  | 7.0  | 9.0   | 15.0 | 11.0 | 12.0 | 11.0 | 9.0  | 8.1  | 15.0  | 3.0  |
| Avg         | 13.3 | 11.8 | 11.9 | 12.5 | 13.0 | 14.9 | 15.8 | 16.7 | 18.4 | 15.7 | 15.8 | 16.9 | 15.3 | 14.9 | 19.2 | 20.5 | 22.0 | 21.3 | 26.1  | 18.4 | 16.6 | 16.4 | 14.2 | 14.7 | 16.6 | --    | --   |
| Max         | 35.0 | 22.0 | 22.0 | 23.0 | 32.0 | 73.0 | 86.0 | 77.0 | 66.0 | 47.0 | 48.0 | 66.0 | 37.0 | 30.0 | 77.0 | 75.0 | 79.0 | 83.0 | 237.0 | 50.0 | 38.0 | 35.0 | 25.0 | 26.0 | --   | 237.0 | --   |
| Min         | 1.0  | 4.0  | 2.0  | 1.0  | 1.0  | 1.0  | 1.0  | 3.0  | 3.0  | 2.0  | 1.0  | 2.0  | 6.0  | 6.0  | 4.0  | 3.0  | 4.0  | 1.0  | 6.0   | 6.0  | 4.0  | 4.0  | 5.0  | 5.0  | --   | --    | 1.0  |

-- Indicates Invalid Data



**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: May 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  | 6.0  | 8.0  | 5.0  | 4.0  | 6.0  | 8.0  | 10.0 | 10.0 | 9.0  | 9.0  | 9.0  | 9.0  | 8.0  | 9.0   | 8.0  | 9.0  | 11.0  | 10.0  | 10.0  | 10.0  | 10.0 | 9.0  | 9.0  | 8.4  | 11.0  | 4.0  |
| 2           | 9.0  | 9.0  | 8.0  | 9.0  | 10.0 | 10.0 | 12.0 | 13.0 | 14.0 | 19.0 | 19.0 | 15.0 | 18.0 | 11.0 | 19.0  | 19.0 | 17.0 | 20.0  | 16.0  | 12.0  | 26.0  | 11.0 | 12.0 | 14.0 | 14.2 | 26.0  | 8.0  |
| 3           | 11.0 | 8.0  | 10.0 | 12.0 | 13.0 | 15.0 | 17.0 | 16.0 | 23.0 | 35.0 | 25.0 | 11.0 | 7.0  | 17.0 | 1.0   | 5.0  | 5.0  | 4.0   | 7.0   | 11.0  | 15.0  | 14.0 | 14.0 | 12.0 | 12.8 | 35.0  | 1.0  |
| 4           | 9.0  | 11.0 | 9.0  | 6.0  | 7.0  | 8.0  | 10.0 | 13.0 | 12.0 | 31.0 | 21.0 | 12.0 | 11.0 | 12.0 | 13.0  | 12.0 | 13.0 | 10.0  | 9.0   | 8.0   | 8.0   | 11.0 | 10.0 | 10.0 | 11.5 | 31.0  | 6.0  |
| 5           | 11.0 | 10.0 | 8.0  | 10.0 | 20.0 | 24.0 | 20.0 | 26.0 | 30.0 | 28.0 | 28.0 | 24.0 | 19.0 | 18.0 | 24.0  | 28.0 | 23.0 | 52.0  | 45.0  | 27.0  | 17.0  | 24.0 | 18.0 | 15.0 | 22.9 | 52.0  | 8.0  |
| 6           | 17.0 | 16.0 | 12.0 | 10.0 | 10.0 | 10.0 | 12.0 | 15.0 | 20.0 | 11.0 | 25.0 | 29.0 | 44.0 | 30.0 | 22.0  | 47.0 | 64.0 | 104.0 | 118.0 | 190.0 | 148.0 | 97.0 | 82.0 | 62.0 | 49.8 | 190.0 | 10.0 |
| 7           | 21.0 | 24.0 | 14.0 | 12.0 | 10.0 | 15.0 | 10.0 | 9.0  | 12.0 | 12.0 | 10.0 | 11.0 | 42.0 | 93.0 | 136.0 | 67.0 | 35.0 | 26.0  | 31.0  | 31.0  | 40.0  | 35.0 | 34.0 | 31.0 | 31.7 | 136.0 | 9.0  |
| 8           | 32.0 | 31.0 | 36.0 | 32.0 | 35.0 | 43.0 | 36.0 | 28.0 | 32.0 | 27.0 | 22.0 | 19.0 | 25.0 | 22.0 | 22.0  | 23.0 | 11.0 | 27.0  | 34.0  | 13.0  | 18.0  | 21.0 | 7.0  | 10.0 | 25.3 | 43.0  | 7.0  |
| 9           | 10.0 | 6.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 5.0  | 15.0 | 6.0  | 7.0  | 5.0  | 5.0  | 6.0  | 5.0   | 8.0  | 9.0  | 4.0   | 5.0   | 6.0   | 5.0   | 4.0  | 6.0  | 6.0  | 6.0  | 15.0  | 4.0  |
| 10          | 1.0  | 0.0  | 2.0  | 1.0  | 3.0  | 6.0  | 7.0  | 5.0  | 3.0  | 6.0  | 8.0  | 7.0  | 6.0  | 6.0  | 7.0   | 9.0  | 9.0  | 12.0  | 11.0  | 8.0   | 8.0   | 9.0  | 12.0 | 12.0 | 6.6  | 12.0  | 0.0  |
| 11          | --   | 6.0  | 8.0  | 9.0  | 6.0  | 6.0  | 6.0  | 5.0  | 6.0  | 9.0  | 10.0 | 11.0 | 9.0  | 4.0  | 3.0   | 6.0  | 9.0  | 10.0  | 21.0  | 16.0  | 17.0  | 17.0 | 15.0 | 16.0 | 9.8  | 21.0  | 3.0  |
| 12          | 12.0 | 11.0 | 8.0  | 7.0  | 10.0 | 12.0 | 12.0 | 13.0 | 13.0 | 12.0 | 9.0  | 9.0  | 8.0  | 8.0  | 12.0  | 13.0 | 15.0 | 14.0  | 13.0  | 13.0  | 15.0  | 14.0 | 12.0 | 11.0 | 11.5 | 15.0  | 7.0  |
| 13          | 11.0 | 9.0  | 11.0 | 11.0 | 10.0 | 8.0  | 7.0  | 9.0  | 10.0 | 7.0  | 6.0  | 7.0  | 8.0  | 8.0  | 11.0  | 24.0 | 18.0 | 18.0  | 21.0  | 22.0  | 17.0  | 10.0 | 10.0 | 6.0  | 11.6 | 24.0  | 6.0  |
| 14          | 4.0  | 5.0  | 4.0  | 6.0  | 8.0  | 6.0  | 7.0  | 8.0  | 7.0  | 9.0  | 7.0  | 4.0  | 7.0  | 8.0  | 8.0   | 12.0 | 13.0 | 12.0  | 13.0  | 17.0  | 19.0  | 20.0 | 18.0 | 20.0 | 10.1 | 20.0  | 4.0  |
| 15          | 21.0 | 13.0 | 12.0 | 12.0 | 10.0 | 11.0 | 18.0 | 21.0 | 19.0 | 15.0 | 18.0 | 17.0 | 20.0 | 19.0 | 44.0  | 57.0 | 64.0 | 76.0  | 39.0  | 24.0  | 14.0  | 12.0 | 15.0 | 4.0  | 24.0 | 76.0  | 4.0  |
| 16          | 5.0  | 8.0  | 10.0 | 10.0 | 10.0 | 11.0 | 11.0 | 18.0 | 20.0 | 17.0 | 17.0 | 23.0 | 24.0 | 30.0 | 32.0  | 33.0 | 18.0 | 18.0  | 16.0  | 11.0  | 16.0  | 20.0 | 12.0 | 18.0 | 17.0 | 33.0  | 5.0  |
| 17          | 16.0 | 11.0 | 11.0 | 15.0 | 17.0 | 15.0 | --   | --   | 12.0 | 16.0 | 15.0 | 15.0 | 9.0  | 10.0 | 19.0  | 15.0 | 13.0 | 16.0  | 13.0  | 13.0  | 13.0  | 11.0 | 11.0 | 12.0 | 13.5 | 19.0  | 9.0  |
| 18          | 11.0 | 9.0  | 8.0  | 16.0 | 12.0 | 17.0 | 15.0 | 17.0 | 16.0 | 16.0 | 18.0 | 20.0 | 37.0 | 24.0 | 28.0  | 25.0 | 20.0 | 22.0  | 4.0   | 6.0   | 9.0   | 10.0 | 10.0 | 7.0  | 15.7 | 37.0  | 4.0  |
| 19          | 8.0  | 4.0  | 1.0  | 5.0  | 7.0  | 9.0  | 13.0 | 9.0  | 9.0  | 12.0 | 7.0  | 4.0  | 4.0  | 2.0  | 2.0   | 2.0  | 3.0  | 6.0   | 7.0   | 4.0   | 7.0   | 10.0 | 8.0  | 5.0  | 6.2  | 13.0  | 1.0  |
| 20          | 1.0  | 0.0  | 3.0  | 4.0  | 5.0  | 6.0  | 5.0  | 5.0  | 16.0 | 8.0  | 6.0  | 5.0  | 8.0  | 12.0 | 18.0  | 16.0 | 6.0  | 7.0   | 6.0   | 9.0   | 11.0  | 10.0 | 6.0  | 5.0  | 7.4  | 18.0  | 0.0  |
| 21          | 8.0  | 8.0  | 6.0  | 5.0  | 3.0  | 5.0  | 6.0  | 4.0  | 3.0  | 5.0  | 10.0 | 17.0 | 17.0 | 20.0 | 8.0   | 9.0  | 9.0  | 9.0   | 7.0   | 5.0   | 6.0   | 7.0  | 7.0  | 6.0  | 7.9  | 20.0  | 3.0  |
| 22          | 4.0  | 4.0  | 4.0  | 6.0  | 8.0  | 9.0  | --   | 3.0  | 5.0  | 10.0 | 12.0 | 8.0  | 7.0  | 5.0  | 5.0   | 3.0  | 17.0 | 10.0  | 12.0  | 12.0  | 10.0  | 10.0 | 9.0  | 9.0  | 7.9  | 17.0  | 3.0  |
| 23          | 11.0 | 11.0 | 16.0 | 8.0  | 7.0  | 6.0  | 3.0  | 4.0  | 8.0  | 11.0 | 11.0 | 7.0  | 8.0  | 7.0  | 5.0   | 6.0  | 8.0  | 10.0  | 10.0  | 11.0  | 13.0  | 11.0 | 12.0 | 18.0 | 9.3  | 18.0  | 3.0  |
| 24          | 13.0 | 12.0 | 8.0  | 5.0  | 6.0  | 9.0  | 11.0 | 25.0 | 12.0 | 17.0 | 10.0 | 7.0  | 8.0  | 10.0 | 8.0   | 19.0 | 19.0 | 23.0  | 17.0  | 18.0  | 25.0  | 19.0 | 18.0 | 14.0 | 13.9 | 25.0  | 5.0  |
| 25          | 12.0 | 9.0  | 9.0  | 7.0  | 6.0  | 7.0  | 8.0  | 7.0  | 6.0  | 6.0  | 27.0 | 23.0 | 13.0 | 14.0 | 15.0  | 15.0 | 26.0 | 22.0  | 32.0  | 25.0  | 17.0  | 21.0 | 27.0 | 29.0 | 16.0 | 32.0  | 6.0  |
| 26          | 13.0 | 16.0 | 11.0 | 9.0  | 9.0  | 9.0  | 8.0  | 11.0 | 12.0 | 10.0 | 10.0 | 12.0 | 18.0 | 17.0 | 18.0  | 16.0 | 16.0 | 14.0  | 10.0  | 9.0   | 17.0  | 15.0 | 18.0 | 12.0 | 12.9 | 18.0  | 8.0  |
| 27          | 9.0  | 6.0  | 6.0  | 6.0  | 3.0  | 4.0  | 5.0  | 5.0  | 7.0  | 4.0  | 4.0  | 8.0  | 8.0  | 5.0  | 3.0   | 3.0  | 4.0  | 6.0   | 5.0   | 2.0   | 4.0   | 8.0  | 7.0  | 9.0  | 5.5  | 9.0   | 2.0  |
| 28          | 11.0 | 20.0 | 14.0 | 11.0 | 7.0  | 6.0  | 8.0  | 10.0 | 10.0 | 10.0 | 11.0 | 13.0 | 14.0 | 12.0 | 8.0   | 7.0  | 8.0  | 7.0   | 7.0   | 9.0   | 11.0  | 10.0 | 16.0 | 6.0  | 10.3 | 20.0  | 6.0  |
| 29          | 6.0  | 10.0 | 12.0 | 12.0 | 11.0 | 10.0 | 25.0 | 25.0 | 23.0 | 18.0 | 20.0 | 32.0 | 28.0 | 15.0 | 9.0   | 10.0 | 13.0 | 21.0  | 13.0  | 23.0  | 11.0  | 13.0 | 14.0 | 15.0 | 16.2 | 32.0  | 6.0  |
| 30          | 16.0 | 17.0 | 16.0 | 26.0 | 20.0 | 27.0 | 39.0 | 37.0 | 32.0 | 25.0 | 27.0 | 17.0 | 16.0 | 27.0 | 30.0  | 27.0 | 22.0 | 22.0  | 22.0  | 38.0  | 16.0  | 5.0  | 7.0  | 7.0  | 22.4 | 39.0  | 5.0  |
| 31          | 7.0  | 7.0  | 10.0 | 11.0 | 11.0 | 12.0 | 11.0 | 10.0 | --   | 18.0 | 20.0 | 16.0 | 16.0 | 17.0 | 10.0  | 19.0 | 17.0 | 22.0  | 17.0  | 16.0  | 20.0  | 28.0 | 41.0 | 17.0 | 16.2 | 41.0  | 7.0  |
| Avg         | 10.9 | 10.2 | 9.7  | 9.7  | 9.7  | 11.2 | 12.2 | 12.9 | 13.9 | 14.2 | 14.5 | 13.5 | 15.3 | 16.0 | 17.9  | 18.2 | 17.2 | 20.5  | 19.1  | 20.0  | 18.8  | 16.7 | 16.0 | 13.8 | 14.7 | --    | --   |
| Max         | 32.0 | 31.0 | 36.0 | 32.0 | 35.0 | 43.0 | 39.0 | 37.0 | 32.0 | 35.0 | 28.0 | 32.0 | 44.0 | 93.0 | 136.0 | 67.0 | 64.0 | 104.0 | 118.0 | 190.0 | 148.0 | 97.0 | 82.0 | 62.0 | --   | 190.0 | --   |
| Min         | 1.0  | 0.0  | 1.0  | 1.0  | 3.0  | 4.0  | 3.0  | 3.0  | 3.0  | 4.0  | 4.0  | 4.0  | 4.0  | 2.0  | 1.0   | 2.0  | 3.0  | 4.0   | 4.0   | 2.0   | 4.0   | 4.0  | 6.0  | 4.0  | --   | --    | 0.0  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: Jun 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           | 18.0  | 21.0  | 20.0 | 16.0 | 20.0 | 19.0 | 22.0 | 20.0 | 20.0 | 21.0 | 18.0 | 19.0 | 17.0 | 15.0 | 26.0 | 23.0 | 20.0 | 18.0 | 21.0 | 28.0 | 19.0 | 17.0 | 24.0 | 18.0 | 20.0 | 28.0  | 15.0 |  |
| 2           | 17.0  | 15.0  | 16.0 | 16.0 | 18.0 | 14.0 | 14.0 | 17.0 | 22.0 | 22.0 | 27.0 | 22.0 | 21.0 | 19.0 | 20.0 | 24.0 | 23.0 | 21.0 | 21.0 | 22.0 | 24.0 | 22.0 | 25.0 | 20.0 | 20.1 | 27.0  | 14.0 |  |
| 3           | 20.0  | 20.0  | 18.0 | 20.0 | 10.0 | 17.0 | 17.0 | 17.0 | 14.0 | 20.0 | 19.0 | 22.0 | 19.0 | 18.0 | 18.0 | 23.0 | 20.0 | 41.0 | 15.0 | 15.0 | 17.0 | 18.0 | 15.0 | 18.0 | 18.8 | 41.0  | 10.0 |  |
| 4           | 17.0  | 20.0  | 19.0 | 22.0 | 20.0 | 23.0 | 15.0 | 20.0 | 13.0 | 22.0 | 17.0 | 19.0 | 16.0 | 17.0 | 19.0 | 18.0 | 15.0 | 18.0 | 21.0 | 17.0 | 14.0 | 13.0 | 17.0 | 16.0 | 17.8 | 23.0  | 13.0 |  |
| 5           | 16.0  | 17.0  | 15.0 | 17.0 | 13.0 | 13.0 | 15.0 | 16.0 | 16.0 | 20.0 | 22.0 | 14.0 | 16.0 | 22.0 | 23.0 | 23.0 | 21.0 | 23.0 | 20.0 | 18.0 | 18.0 | 15.0 | 18.0 | 16.0 | 17.8 | 23.0  | 13.0 |  |
| 6           | 16.0  | 15.0  | 21.0 | 11.0 | 16.0 | 14.0 | 19.0 | 17.0 | 17.0 | 21.0 | 10.0 | 15.0 | 17.0 | 13.0 | 19.0 | 19.0 | 22.0 | 21.0 | 26.0 | 19.0 | 19.0 | 21.0 | 14.0 | 14.0 | 17.3 | 26.0  | 10.0 |  |
| 7           | 15.0  | 12.0  | 11.0 | 12.0 | 11.0 | 9.0  | 8.0  | 9.0  | 14.0 | 14.0 | 16.0 | 24.0 | 18.0 | 15.0 | 32.0 | 24.0 | 35.0 | 21.0 | 19.0 | 17.0 | 19.0 | 21.0 | 21.0 | 17.0 | 17.3 | 35.0  | 8.0  |  |
| 8           | 14.0  | 16.0  | 21.0 | 24.0 | 18.0 | 19.0 | 29.0 | 27.0 | 24.0 | 26.0 | 22.0 | 25.0 | 13.0 | 15.0 | 19.0 | 14.0 | 17.0 | 16.0 | 20.0 | 22.0 | 14.0 | 13.0 | 13.0 | 15.0 | 19.0 | 29.0  | 13.0 |  |
| 9           | 11.0  | 10.0  | 10.0 | 11.0 | 12.0 | 12.0 | 11.0 | 9.0  | 12.0 | 14.0 | 12.0 | 12.0 | --   | --   | 26.0 | 17.0 | 18.0 | 18.0 | 20.0 | 22.0 | 17.0 | 21.0 | 15.0 | 16.0 | 14.8 | 26.0  | 9.0  |  |
| 10          | 12.0  | 11.0  | 10.0 | 10.0 | 12.0 | 11.0 | 10.0 | 6.0  | 4.0  | 6.0  | 5.0  | 6.0  | 18.0 | 5.0  | 9.0  | 17.0 | 19.0 | 17.0 | 20.0 | 16.0 | 21.0 | 14.0 | 18.0 | 22.0 | 12.5 | 22.0  | 4.0  |  |
| 11          | 18.0  | 12.0  | 7.0  | 7.0  | 9.0  | 9.0  | 7.0  | 7.0  | 9.0  | 7.0  | 5.0  | 5.0  | 8.0  | 7.0  | 16.0 | 28.0 | 47.0 | 34.0 | 34.0 | 59.0 | 48.0 | 32.0 | 16.0 | 19.0 | 18.8 | 59.0  | 5.0  |  |
| 12          | 16.0  | 6.0   | 6.0  | 5.0  | 6.0  | 6.0  | 6.0  | 6.0  | 9.0  | 8.0  | 8.0  | 8.0  | 15.0 | 14.0 | 14.0 | 19.0 | 15.0 | 13.0 | 12.0 | 18.0 | 18.0 | 20.0 | 16.0 | 11.0 | 11.5 | 20.0  | 5.0  |  |
| 13          | 11.0  | 12.0  | 14.0 | 14.0 | 14.0 | 11.0 | 8.0  | 9.0  | 12.0 | 10.0 | 9.0  | 9.0  | 8.0  | 8.0  | 10.0 | 9.0  | 11.0 | 14.0 | 14.0 | 14.0 | 12.0 | 15.0 | 20.0 | 17.0 | 11.9 | 20.0  | 8.0  |  |
| 14          | 11.0  | 11.0  | 9.0  | 8.0  | 6.0  | 16.0 | 13.0 | 15.0 | 6.0  | 9.0  | 11.0 | 19.0 | 11.0 | 10.0 | 8.0  | 11.0 | 13.0 | 9.0  | 7.0  | 10.0 | 11.0 | 10.0 | 10.0 | 12.0 | 10.7 | 19.0  | 6.0  |  |
| 15          | 11.0  | 11.0  | 9.0  | 9.0  | 9.0  | 7.0  | 16.0 | 14.0 | 12.0 | 12.0 | 16.0 | 17.0 | 13.0 | 12.0 | 8.0  | 6.0  | 9.0  | 13.0 | 18.0 | 15.0 | 13.0 | 12.0 | 18.0 | 12.0 | 12.2 | 18.0  | 6.0  |  |
| 16          | 12.0  | 11.0  | 8.0  | 8.0  | 7.0  | 5.0  | 6.0  | 17.0 | 18.0 | 18.0 | 18.0 | 20.0 | 17.0 | 14.0 | 26.0 | 14.0 | 20.0 | 20.0 | 9.0  | 10.0 | 10.0 | 10.0 | 19.0 | 10.0 | 13.6 | 26.0  | 5.0  |  |
| 17          | 11.0  | 13.0  | 18.0 | 11.0 | 10.0 | 11.0 | 11.0 | 9.0  | 11.0 | 17.0 | 14.0 | 13.0 | 16.0 | 17.0 | 16.0 | 21.0 | 18.0 | 18.0 | 19.0 | 17.0 | 17.0 | 10.0 | 11.0 | 13.0 | 14.3 | 21.0  | 9.0  |  |
| 18          | 13.0  | 11.0  | 11.0 | 14.0 | 15.0 | 18.0 | 21.0 | 21.0 | 21.0 | 18.0 | 23.0 | 19.0 | 18.0 | 15.0 | 17.0 | 16.0 | 22.0 | 17.0 | 22.0 | 23.0 | 18.0 | 20.0 | 19.0 | 15.0 | 17.8 | 23.0  | 11.0 |  |
| 19          | 12.0  | 13.0  | 20.0 | 14.0 | 13.0 | 13.0 | 19.0 | 31.0 | 23.0 | 24.0 | 19.0 | 15.0 | 10.0 | 12.0 | 13.0 | 18.0 | 24.0 | 25.0 | 22.0 | 21.0 | 16.0 | 18.0 | 12.0 | 15.0 | 17.6 | 31.0  | 10.0 |  |
| 20          | 17.0  | 23.0  | 21.0 | 20.0 | 22.0 | 43.0 | 53.0 | 72.0 | 54.0 | 49.0 | 43.0 | 40.0 | 38.0 | 44.0 | 28.0 | 36.0 | 28.0 | 24.0 | 32.0 | 12.0 | 12.0 | 13.0 | 9.0  | 8.0  | 30.9 | 72.0  | 8.0  |  |
| 21          | 10.0  | 8.0   | 7.0  | 9.0  | 12.0 | 12.0 | 26.0 | 27.0 | 23.0 | 21.0 | 26.0 | 24.0 | 29.0 | 28.0 | 26.0 | 28.0 | 28.0 | 33.0 | 29.0 | 25.0 | 28.0 | 28.0 | 27.0 | 21.0 | 22.3 | 33.0  | 7.0  |  |
| 22          | 20.0  | 23.0  | 22.0 | 21.0 | 28.0 | 22.0 | 26.0 | 25.0 | 29.0 | 32.0 | --   | 23.0 | 28.0 | 35.0 | 33.0 | 34.0 | 42.0 | 34.0 | 34.0 | 27.0 | 27.0 | 23.0 | 20.0 | 32.0 | 27.8 | 42.0  | 20.0 |  |
| 23          | 43.0  | 59.0  | 50.0 | 42.0 | 36.0 | 33.0 | 34.0 | 32.0 | 38.0 | 45.0 | 30.0 | 32.0 | 31.0 | 45.0 | 33.0 | 37.0 | 38.0 | 34.0 | 31.0 | 25.0 | 28.0 | 23.0 | 22.0 | 14.0 | 34.8 | 59.0  | 14.0 |  |
| 24          | 11.0  | 17.0  | 20.0 | 32.0 | 23.0 | 22.0 | 25.0 | 25.0 | 27.0 | 19.0 | 26.0 | 27.0 | 26.0 | 25.0 | 21.0 | 27.0 | 20.0 | 23.0 | 27.0 | 21.0 | 18.0 | 26.0 | 16.0 | 24.0 | 22.8 | 32.0  | 11.0 |  |
| 25          | 109.0 | 171.0 | 99.0 | 65.0 | 57.0 | 64.0 | 46.0 | 45.0 | 56.0 | 40.0 | 35.0 | 42.0 | 31.0 | 31.0 | 27.0 | 30.0 | 36.0 | 34.0 | 34.0 | 84.0 | 41.0 | 50.0 | 21.0 | 20.0 | 52.8 | 171.0 | 20.0 |  |
| 26          | 12.0  | 21.0  | 15.0 | 19.0 | 23.0 | 21.0 | 36.0 | 29.0 | 35.0 | 42.0 | 35.0 | 34.0 | 35.0 | 34.0 | 33.0 | 37.0 | 45.0 | 33.0 | 31.0 | 28.0 | 26.0 | 21.0 | 21.0 | 19.0 | 28.5 | 45.0  | 12.0 |  |
| 27          | 23.0  | 38.0  | 22.0 | 20.0 | 22.0 | 22.0 | 33.0 | 28.0 | 32.0 | 38.0 | 27.0 | 25.0 | 24.0 | 60.0 | 37.0 | 34.0 | 38.0 | 22.0 | 16.0 | 15.0 | 15.0 | 18.0 | 17.0 | 21.0 | 27.0 | 60.0  | 15.0 |  |
| 28          | 19.0  | 20.0  | 26.0 | 21.0 | 22.0 | 25.0 | 29.0 | 17.0 | 22.0 | 24.0 | 25.0 | 25.0 | 29.0 | 36.0 | 47.0 | 49.0 | 35.0 | 37.0 | 28.0 | 23.0 | 20.0 | 22.0 | 24.0 | 25.0 | 27.1 | 49.0  | 17.0 |  |
| 29          | 19.0  | 18.0  | 10.0 | 11.0 | 17.0 | 15.0 | 14.0 | 21.0 | 22.0 | 15.0 | --   | --   | 26.0 | 19.0 | 26.0 | 14.0 | 17.0 | 14.0 | 17.0 | 21.0 | 16.0 | 15.0 | 16.0 | 15.0 | 17.2 | 26.0  | 10.0 |  |
| 30          | 20.0  | 11.0  | 11.0 | 9.0  | 9.0  | 13.0 | 24.0 | 16.0 | 10.0 | 8.0  | 10.0 | 13.0 | 13.0 | 11.0 | 11.0 | 17.0 | 15.0 | 15.0 | 26.0 | 8.0  | 10.0 | 11.0 | 10.0 | 12.0 | 13.0 | 26.0  | 8.0  |  |
| Avg         | 19.1  | 22.2  | 18.9 | 17.3 | 17.0 | 18.0 | 20.4 | 20.8 | 20.8 | 21.4 | 19.6 | 20.3 | 20.0 | 21.2 | 22.0 | 22.9 | 24.4 | 22.7 | 22.2 | 22.4 | 19.5 | 19.1 | 17.5 | 16.9 | 20.3 | --    | --   |  |
| Max         | 109.0 | 171.0 | 99.0 | 65.0 | 57.0 | 64.0 | 53.0 | 72.0 | 56.0 | 49.0 | 43.0 | 42.0 | 38.0 | 60.0 | 47.0 | 49.0 | 47.0 | 41.0 | 34.0 | 84.0 | 48.0 | 50.0 | 27.0 | 32.0 | --   | 171.0 | --   |  |
| Min         | 10.0  | 6.0   | 6.0  | 5.0  | 6.0  | 5.0  | 6.0  | 6.0  | 4.0  | 6.0  | 5.0  | 5.0  | 8.0  | 5.0  | 8.0  | 6.0  | 9.0  | 9.0  | 7.0  | 8.0  | 10.0 | 10.0 | 9.0  | 8.0  | --   | --    | 4.0  |  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, East\_Plant\_conc\_PM10\_STP"**  
**Month: Apr 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           | 28.4 | 19.7 | 18.6 | 25.1 | 29.4 | 27.2 | 23.9 | 24.1 | 42.0 | 41.1 | 33.5 | 30.2 | 32.4 | 25.7 | 34.7 | 35.7 | 19.0 | 21.3 | 31.2  | 12.2 | 14.4 | 17.6 | 17.6 | 17.6 | 25.9 | 42.0  | 12.2 |
| 2           | 14.3 | 14.3 | 13.2 | 18.7 | 17.6 | 17.5 | 16.5 | 19.9 | 16.8 | 17.9 | 20.1 | 13.5 | 21.5 | 18.1 | 22.7 | 26.2 | 15.9 | 17.1 | 19.3  | 19.3 | 18.1 | 16.9 | 13.5 | 15.8 | 17.7 | 26.2  | 13.2 |
| 3           | 13.5 | 13.5 | 15.7 | 19.0 | 17.9 | 15.6 | 14.5 | 24.6 | 21.4 | 15.8 | 18.1 | 14.8 | 14.9 | 19.5 | 23.0 | 32.3 | 34.7 | 38.1 | 31.1  | 43.6 | 37.7 | 39.7 | 16.8 | 16.8 | 23.0 | 43.6  | 13.5 |
| 4           | 14.6 | 7.8  | 2.2  | 1.1  | 1.1  | 1.1  | 1.1  | 3.3  | 3.3  | 2.2  | 1.1  | 2.3  | 6.8  | 6.8  | 4.5  | 3.4  | 5.7  | 6.8  | 7.9   | 9.0  | 7.8  | 7.8  | 7.9  | 6.7  | 5.1  | 14.6  | 1.1  |
| 5           | 6.6  | 9.9  | 11.1 | 12.2 | 16.6 | 17.7 | 6.6  | 6.6  | 23.4 | 21.2 | 13.5 | 19.3 | 19.4 | --   | --   | 9.2  | 4.6  | 1.2  | 6.9   | 6.8  | 4.5  | 4.5  | 5.6  | 5.6  | 10.6 | 23.4  | 1.2  |
| 6           | 1.1  | 4.5  | 10.1 | 7.9  | 7.9  | 12.3 | 18.0 | 20.3 | 27.2 | 13.7 | 19.5 | 13.9 | 12.7 | 14.0 | 11.7 | 9.3  | 10.5 | 12.8 | 16.2  | 21.8 | 10.3 | 13.7 | 14.8 | 12.5 | 13.2 | 27.2  | 1.1  |
| 7           | 12.4 | 12.4 | 11.3 | 9.0  | 7.9  | 7.9  | 10.1 | 12.4 | 17.1 | 19.4 | 11.5 | 13.8 | 13.9 | 10.4 | 11.6 | 9.3  | 8.1  | 9.2  | 9.2   | 11.4 | 14.8 | 13.6 | 11.3 | 10.2 | 11.6 | 19.4  | 7.9  |
| 8           | 11.3 | 14.7 | 13.5 | 14.7 | 12.4 | 12.4 | 13.5 | 11.3 | 11.3 | 11.4 | 12.6 | 10.3 | 9.2  | 12.7 | 13.9 | 26.6 | 22.0 | 23.1 | 16.1  | 14.9 | 14.8 | 23.9 | 19.3 | 22.6 | 15.4 | 26.6  | 9.2  |
| 9           | 12.4 | 11.3 | 19.1 | 20.2 | 22.4 | 22.3 | 27.8 | 25.7 | 29.2 | 21.4 | 16.9 | 22.7 | 19.3 | 19.4 | 19.4 | 17.1 | 20.5 | 30.7 | 19.3  | 19.2 | 21.4 | 24.7 | 23.5 | 26.8 | 21.4 | 30.7  | 11.3 |
| 10          | 18.9 | 24.4 | 18.8 | 18.8 | 24.4 | 32.1 | 29.8 | 22.3 | 32.6 | 17.0 | 14.8 | 16.0 | 19.5 | 21.8 | 19.6 | 18.4 | 19.6 | 17.2 | 18.3  | 25.1 | 18.2 | 20.3 | 16.9 | 16.8 | 20.9 | 32.6  | 14.8 |
| 11          | 16.8 | 15.7 | 14.6 | 19.0 | 16.7 | 20.0 | 24.4 | 13.5 | 15.9 | 17.2 | 14.9 | 15.0 | 15.1 | 13.9 | 14.0 | 24.4 | 20.9 | 18.5 | 26.5  | 23.0 | 28.6 | 15.9 | 15.8 | 23.7 | 18.5 | 28.6  | 13.5 |
| 12          | 18.1 | 6.8  | 10.2 | 11.3 | 9.0  | 10.1 | 10.1 | 16.9 | 13.7 | 12.6 | 17.3 | 18.5 | 20.9 | 25.6 | 16.3 | 18.7 | 19.8 | 18.6 | 24.3  | 19.6 | 24.1 | 20.5 | 17.0 | 13.7 | 16.4 | 25.6  | 6.8  |
| 13          | 9.1  | 9.1  | 12.5 | 13.6 | 14.7 | 12.4 | 18.0 | 17.0 | 21.7 | 19.6 | 20.8 | 19.8 | 12.8 | 14.0 | 15.2 | 28.0 | 29.2 | 26.8 | 24.4  | 24.3 | 19.6 | 16.1 | 19.5 | 21.7 | 18.3 | 29.2  | 9.1  |
| 14          | 13.7 | 18.2 | 15.9 | 15.8 | 13.5 | 12.4 | 13.5 | 18.1 | 25.2 | 16.1 | 18.4 | 25.3 | 19.7 | 10.4 | 34.8 | 23.2 | 32.5 | 31.3 | 22.0  | 21.9 | 20.7 | 29.7 | 27.4 | 19.3 | 20.8 | 34.8  | 10.4 |
| 15          | 20.4 | 18.0 | 19.1 | 15.7 | 14.5 | 15.6 | 15.6 | 19.1 | 14.8 | 17.1 | 10.3 | 21.9 | 6.9  | 9.3  | 11.6 | 17.4 | 20.9 | 22.0 | 25.3  | 24.1 | 22.9 | 18.3 | 21.7 | 29.5 | 18.0 | 29.5  | 6.9  |
| 16          | 15.8 | 14.7 | 14.7 | 16.8 | 16.8 | 16.8 | 21.3 | 19.2 | 22.8 | 13.8 | 18.4 | 18.4 | 13.9 | 13.9 | 22.1 | 15.1 | 15.1 | 24.3 | 17.3  | 19.5 | 19.4 | 16.0 | 14.9 | 14.9 | 17.3 | 24.3  | 13.8 |
| 17          | 17.0 | 12.4 | 13.6 | 14.6 | 13.5 | 13.5 | 13.5 | 18.1 | 25.1 | 16.0 | 19.5 | 19.6 | 19.7 | 18.6 | 16.3 | 15.1 | 20.9 | 17.4 | 18.5  | 10.4 | 12.6 | 13.7 | 14.8 | 12.5 | 16.1 | 25.1  | 10.4 |
| 18          | 9.1  | 9.1  | 10.2 | 10.2 | 6.8  | 5.6  | 6.7  | 21.5 | 8.0  | 11.5 | 13.8 | 12.7 | 18.5 | 19.7 | 16.3 | 19.8 | 22.1 | 18.6 | 19.7  | 19.6 | 12.7 | 19.5 | 14.9 | 24.0 | 14.6 | 24.0  | 5.6  |
| 19          | 17.1 | 21.7 | 17.1 | 19.3 | 14.7 | 18.1 | 21.4 | 23.8 | 17.1 | 19.4 | 19.5 | 18.4 | 8.1  | 11.6 | 15.1 | 22.0 | 17.4 | 18.5 | 25.4  | 20.7 | 21.8 | 9.1  | 10.2 | 10.2 | 17.4 | 25.4  | 8.1  |
| 20          | 11.3 | 11.3 | 13.5 | 10.1 | 6.8  | 10.1 | 7.9  | 11.3 | 18.2 | 13.7 | 13.8 | 12.7 | 13.9 | 13.9 | 12.8 | 13.9 | 13.9 | 22.0 | 20.8  | 21.9 | 16.1 | 16.1 | 18.3 | 11.4 | 14.0 | 22.0  | 6.8  |
| 21          | 12.6 | 14.8 | 12.4 | 11.3 | 11.3 | 9.0  | 10.1 | 17.0 | 11.5 | 9.2  | 10.4 | 15.1 | 17.5 | 16.3 | 15.2 | 21.1 | 18.7 | 37.3 | 23.2  | 20.9 | 17.3 | 28.8 | 20.7 | 18.4 | 16.7 | 37.3  | 9.0  |
| 22          | 22.8 | 11.4 | 11.4 | 18.1 | 7.9  | 7.9  | 7.9  | 11.4 | 18.4 | 17.4 | 12.8 | 22.1 | 19.9 | 15.2 | 16.5 | 20.0 | 25.9 | 15.3 | 18.7  | 15.1 | 15.1 | 18.5 | 15.0 | 14.9 | 15.8 | 25.9  | 7.9  |
| 23          | 16.0 | 13.7 | 12.6 | 12.5 | 36.4 | 82.6 | 97.3 | 87.6 | 75.6 | 54.3 | 47.5 | 36.2 | 43.4 | 28.3 | 22.5 | 26.1 | 15.4 | 28.3 | 17.7  | 20.0 | 25.7 | 26.8 | 29.0 | 22.0 | 36.6 | 97.3  | 12.5 |
| 24          | 17.3 | 5.8  | 5.7  | 6.9  | 5.7  | 23.9 | 17.1 | 12.6 | 12.7 | 13.9 | 23.2 | 20.9 | 36.2 | 35.1 | 45.6 | 30.4 | 37.4 | 22.2 | 23.3  | 19.7 | 18.5 | 19.7 | 17.3 | 26.4 | 20.7 | 45.6  | 5.7  |
| 25          | 40.1 | 22.9 | 19.4 | 16.0 | 22.8 | 23.9 | 30.6 | 34.0 | 38.6 | 45.5 | 54.7 | 75.4 | --   | --   | 88.7 | 86.6 | 85.5 | 83.1 | 80.7  | 57.5 | 43.6 | 33.2 | 21.7 | 25.0 | 46.8 | 88.7  | 16.0 |
| 26          | 9.1  | 5.7  | 5.6  | 9.0  | 10.1 | 12.3 | 11.2 | 7.9  | 11.4 | 13.7 | 11.4 | 9.2  | 6.9  | 10.4 | 16.2 | 15.1 | 17.4 | 15.0 | 15.0  | 13.8 | 11.5 | 10.4 | 10.3 | 8.0  | 11.1 | 17.4  | 5.6  |
| 27          | 9.2  | 19.5 | 25.1 | 17.1 | 19.4 | 12.5 | 19.4 | 17.1 | 17.2 | 13.8 | 13.8 | 22.0 | 22.1 | 31.5 | 32.7 | 40.8 | 86.3 | 31.4 | 33.7  | 20.9 | 28.9 | 25.5 | 23.1 | 27.7 | 25.4 | 86.3  | 9.2  |
| 28          | 23.1 | 18.4 | 17.2 | 16.0 | 14.8 | 12.5 | 12.5 | 17.1 | 17.1 | 17.1 | 29.7 | 29.7 | 30.8 | 31.0 | 58.9 | 75.2 | 91.5 | 96.1 | 272.0 | 53.6 | 28.4 | 19.2 | 7.9  | 10.1 | 41.7 | 272.0 | 7.9  |
| 29          | 10.0 | 8.9  | 7.7  | 11.1 | 12.2 | 6.6  | 5.5  | 8.9  | 11.2 | 7.8  | 6.7  | 6.8  | 6.8  | 6.8  | 4.5  | 3.4  | 4.5  | 5.7  | 6.8   | 6.8  | 7.9  | 9.0  | 6.7  | 6.7  | 7.5  | 12.2  | 3.4  |
| 30          | 7.8  | 8.9  | 8.9  | 11.0 | 13.3 | 10.0 | 5.5  | 3.4  | 5.6  | 6.8  | 4.5  | 5.7  | 9.1  | 9.2  | 8.0  | 9.2  | 9.2  | 8.0  | 10.3  | 17.1 | 12.5 | 13.6 | 12.5 | 10.2 | 9.2  | 17.1  | 3.4  |
| Avg         | 15.0 | 13.3 | 13.4 | 14.1 | 14.6 | 16.7 | 17.7 | 18.9 | 20.9 | 17.9 | 18.1 | 19.4 | 17.6 | 17.3 | 22.2 | 23.8 | 25.5 | 24.6 | 30.0  | 21.1 | 19.0 | 18.7 | 16.2 | 16.7 | 18.9 | --    | --   |
| Max         | 40.1 | 24.4 | 25.1 | 25.1 | 36.4 | 82.6 | 97.3 | 87.6 | 75.6 | 54.3 | 54.7 | 75.4 | 43.4 | 35.1 | 88.7 | 86.6 | 91.5 | 96.1 | 272.0 | 57.5 | 43.6 | 39.7 | 29.0 | 29.5 | --   | 272.0 | --   |
| Min         | 1.1  | 4.5  | 2.2  | 1.1  | 1.1  | 1.1  | 1.1  | 3.3  | 3.3  | 2.2  | 1.1  | 2.3  | 6.8  | 6.8  | 4.5  | 3.4  | 4.5  | 1.2  | 6.8   | 6.8  | 4.5  | 4.5  | 5.6  | 5.6  | --   | --    | 1.1  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, East\_Plant\_conc\_PM10\_STP"**  
**Month: May 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           | 6.8  | 6.8  | 9.0  | 5.6  | 4.5  | 6.7  | 9.0  | 11.3 | 11.4 | 10.3 | 10.3 | 10.4 | 10.4 | 9.3   | 10.5  | 9.3  | 10.5 | 12.8  | 11.6  | 11.6  | 11.5  | 11.5  | 10.4 | 10.4 | 9.7  | 12.8  | 4.5  |
| 2           | 10.4 | 10.4 | 9.1  | 10.2 | 11.4 | 11.3 | 13.6 | 14.8 | 16.1 | 21.9 | 22.0 | 17.4 | 21.0 | 12.9  | 22.2  | 22.3 | 19.9 | 23.4  | 18.7  | 14.0  | 30.1  | 12.7  | 13.9 | 16.2 | 16.5 | 30.1  | 9.1  |
| 3           | 12.7 | 9.2  | 11.5 | 13.7 | 14.8 | 17.0 | 19.4 | 18.4 | 26.6 | 40.6 | 29.2 | 12.9 | 8.2  | 20.0  | 1.2   | 5.9  | 5.9  | 4.7   | 8.2   | 12.9  | 17.5  | 16.3  | 16.2 | 13.8 | 14.9 | 40.6  | 1.2  |
| 4           | 10.4 | 12.6 | 10.3 | 6.9  | 8.0  | 9.1  | 11.4 | 15.0 | 13.9 | 36.1 | 24.6 | 14.1 | 13.0 | 14.2  | 15.4  | 14.3 | 15.4 | 11.9  | 10.6  | 9.4   | 9.4   | 12.8  | 11.6 | 11.6 | 13.4 | 36.1  | 6.9  |
| 5           | 12.7 | 11.6 | 9.3  | 11.6 | 23.0 | 27.6 | 23.1 | 30.2 | 34.9 | 32.8 | 33.1 | 28.6 | 22.7 | 21.6  | 28.8  | 33.5 | 27.5 | 62.0  | 53.5  | 32.0  | 20.1  | 28.3  | 21.2 | 17.6 | 27.0 | 62.0  | 9.3  |
| 6           | 19.9 | 18.6 | 13.9 | 11.6 | 11.5 | 11.5 | 13.8 | 17.4 | 23.2 | 12.8 | 29.3 | 34.1 | 52.0 | 35.6  | 26.1  | 55.9 | 76.0 | 123.0 | 139.0 | 221.0 | 171.0 | 111.0 | 94.0 | 70.8 | 58.0 | 221.0 | 11.5 |
| 7           | 23.9 | 27.2 | 15.8 | 13.5 | 11.2 | 16.8 | 11.2 | 10.2 | 13.6 | 13.6 | 11.3 | 12.5 | 47.6 | 105.0 | 154.0 | 75.8 | 39.5 | 29.4  | 35.0  | 34.9  | 45.0  | 39.3  | 38.1 | 34.7 | 35.8 | 154.0 | 10.2 |
| 8           | 35.8 | 34.6 | 40.1 | 35.8 | 39.2 | 48.1 | 40.5 | 31.7 | 36.4 | 30.8 | 25.2 | 21.9 | 28.7 | 25.3  | 25.4  | 26.4 | 12.4 | 30.6  | 38.6  | 14.7  | 20.3  | 23.4  | 7.8  | 11.1 | 28.5 | 48.1  | 7.8  |
| 9           | 11.1 | 6.6  | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  | 5.5  | 16.6 | 6.6  | 7.8  | 5.6  | 5.6  | 6.7   | 5.6   | 9.0  | 10.0 | 4.5   | 5.6   | 6.7   | 5.5   | 4.4   | 6.6  | 6.6  | 6.6  | 16.6  | 4.4  |
| 10          | 1.1  | 0.0  | 2.2  | 1.1  | 3.3  | 6.6  | 7.7  | 5.5  | 3.3  | 6.7  | 8.9  | 7.8  | 6.7  | 6.7   | 7.9   | 10.2 | 10.2 | 13.6  | 12.4  | 9.0   | 9.0   | 10.1  | 13.4 | 13.4 | 7.4  | 13.6  | 0.0  |
| 11          | --   | 6.7  | 8.9  | 10.0 | 6.6  | 6.7  | 6.7  | 5.6  | 6.8  | 10.2 | 11.4 | 12.6 | 10.3 | 4.6   | 3.5   | 6.9  | 10.4 | 11.6  | 24.2  | 18.4  | 19.5  | 19.5  | 17.2 | 18.3 | 11.1 | 24.2  | 3.5  |
| 12          | 13.8 | 12.6 | 9.1  | 8.0  | 11.3 | 13.5 | 13.6 | 14.9 | 15.1 | 14.0 | 10.5 | 10.5 | 9.4  | 9.4   | 14.2  | 15.4 | 17.7 | 16.5  | 15.3  | 15.2  | 17.5  | 16.3  | 14.0 | 12.7 | 13.3 | 17.7  | 8.0  |
| 13          | 12.7 | 10.4 | 12.7 | 12.6 | 11.5 | 9.1  | 8.0  | 10.3 | 11.6 | 8.1  | 7.0  | 8.2  | 9.4  | 9.4   | 13.0  | 28.4 | 21.3 | 21.3  | 24.7  | 25.7  | 19.8  | 11.6  | 11.5 | 6.9  | 13.6 | 28.4  | 6.9  |
| 14          | 4.6  | 5.7  | 4.6  | 6.9  | 9.1  | 6.8  | 8.0  | 9.2  | 8.0  | 10.4 | 8.1  | 4.7  | 8.1  | 9.3   | 9.3   | 14.0 | 15.2 | 14.0  | 15.2  | 19.8  | 21.9  | 23.0  | 20.6 | 22.8 | 11.6 | 23.0  | 4.6  |
| 15          | 23.9 | 14.8 | 13.6 | 13.5 | 11.3 | 12.4 | 20.3 | 23.9 | 21.7 | 17.2 | 20.8 | 19.7 | 23.3 | 22.1  | 51.2  | 66.3 | 74.2 | 87.7  | 44.7  | 27.4  | 15.9  | 13.6  | 17.0 | 4.5  | 27.5 | 87.7  | 4.5  |
| 16          | 5.6  | 9.0  | 11.2 | 11.1 | 11.1 | 12.2 | 12.2 | 20.0 | 22.3 | 19.0 | 19.0 | 25.8 | 27.0 | 33.9  | 36.2  | 37.4 | 20.4 | 20.4  | 18.1  | 12.4  | 18.0  | 22.4  | 13.4 | 20.2 | 19.1 | 37.4  | 5.6  |
| 17          | 17.9 | 12.3 | 12.2 | 16.7 | 18.9 | 16.6 | --   | --   | 13.5 | 18.1 | 17.0 | 17.1 | 10.3 | 11.5  | 21.9  | 17.3 | 15.0 | 18.5  | 15.0  | 15.0  | 14.9  | 12.6  | 12.5 | 13.7 | 15.4 | 21.9  | 10.3 |
| 18          | 12.5 | 10.2 | 9.1  | 18.1 | 13.5 | 19.1 | 16.9 | 19.2 | 18.1 | 18.2 | 20.5 | 22.9 | 42.5 | 27.6  | 32.3  | 28.9 | 23.1 | 25.4  | 4.6   | 6.9   | 10.3  | 11.4  | 11.4 | 7.9  | 17.9 | 42.5  | 4.6  |
| 19          | 9.1  | 4.5  | 1.1  | 5.6  | 7.8  | 10.0 | 14.4 | 10.0 | 10.1 | 13.6 | 8.0  | 4.6  | 4.6  | 2.3   | 2.3   | 2.3  | 3.5  | 6.9   | 8.1   | 4.6   | 8.0   | 11.4  | 9.1  | 5.7  | 7.0  | 14.4  | 1.1  |
| 20          | 1.1  | 0.0  | 3.4  | 4.5  | 5.7  | 6.8  | 5.7  | 5.7  | 18.3 | 9.2  | 6.9  | 5.8  | 9.3  | 14.0  | 21.1  | 18.8 | 7.1  | 8.2   | 7.0   | 10.5  | 12.8  | 11.5  | 6.9  | 5.7  | 8.6  | 21.1  | 0.0  |
| 21          | 9.2  | 9.2  | 6.9  | 5.7  | 3.4  | 5.7  | 6.9  | 4.6  | 3.5  | 5.8  | 11.7 | 20.0 | 20.0 | 23.6  | 9.5   | 10.6 | 10.6 | 10.6  | 8.2   | 5.9   | 7.0   | 8.2   | 8.2  | 7.0  | 9.3  | 23.6  | 3.4  |
| 22          | 4.7  | 4.7  | 4.6  | 6.9  | 9.1  | 10.3 | --   | 3.5  | 5.8  | 11.7 | 14.1 | 9.5  | 8.3  | 5.9   | 5.9   | 3.6  | 20.2 | 11.9  | 14.2  | 14.1  | 11.7  | 11.7  | 10.6 | 10.5 | 9.3  | 20.2  | 3.5  |
| 23          | 12.7 | 12.7 | 18.4 | 9.2  | 8.1  | 6.9  | 3.5  | 4.7  | 9.4  | 12.9 | 13.0 | 8.3  | 9.5  | 8.3   | 6.0   | 7.2  | 9.5  | 11.9  | 11.9  | 13.0  | 15.3  | 12.9  | 14.0 | 20.9 | 10.8 | 20.9  | 3.5  |
| 24          | 15.1 | 14.0 | 9.3  | 5.8  | 6.9  | 10.4 | 12.7 | 29.1 | 14.1 | 20.0 | 11.8 | 8.3  | 9.5  | 12.0  | 9.6   | 22.8 | 22.8 | 27.5  | 20.3  | 21.5  | 29.7  | 22.5  | 21.2 | 16.4 | 16.4 | 29.7  | 5.8  |
| 25          | 14.1 | 10.5 | 10.5 | 8.2  | 7.0  | 8.1  | 9.3  | 8.1  | 7.0  | 7.0  | 31.6 | 27.0 | 15.3 | 16.6  | 17.8  | 17.8 | 30.8 | 26.1  | 37.8  | 29.4  | 19.9  | 24.5  | 31.3 | 33.5 | 18.7 | 37.8  | 7.0  |
| 26          | 15.0 | 18.4 | 12.7 | 10.3 | 10.3 | 10.3 | 9.1  | 12.6 | 13.8 | 11.6 | 11.6 | 14.0 | 21.0 | 19.9  | 21.1  | 18.8 | 18.8 | 16.4  | 11.7  | 10.5  | 19.7  | 17.3  | 20.7 | 13.7 | 15.0 | 21.1  | 9.1  |
| 27          | 10.3 | 6.8  | 6.8  | 6.8  | 3.4  | 4.5  | 5.7  | 5.7  | 8.0  | 4.6  | 4.6  | 9.3  | 9.4  | 5.9   | 3.5   | 3.5  | 4.7  | 7.0   | 5.8   | 2.3   | 4.6   | 9.3   | 8.1  | 10.4 | 6.3  | 10.4  | 2.3  |
| 28          | 12.7 | 23.0 | 16.0 | 12.6 | 8.0  | 6.8  | 9.1  | 11.6 | 11.6 | 11.6 | 12.9 | 15.3 | 16.5 | 14.2  | 9.5   | 8.3  | 9.5  | 8.3   | 8.3   | 10.6  | 12.9  | 11.7  | 18.5 | 6.9  | 11.9 | 23.0  | 6.8  |
| 29          | 6.9  | 11.6 | 13.8 | 13.8 | 12.6 | 11.5 | 28.9 | 29.1 | 27.0 | 21.2 | 23.6 | 37.9 | 33.3 | 17.9  | 10.8  | 12.0 | 15.5 | 25.0  | 15.4  | 27.2  | 13.0  | 15.2  | 16.3 | 17.5 | 19.0 | 37.9  | 6.9  |
| 30          | 18.6 | 19.6 | 18.5 | 30.2 | 23.0 | 31.0 | 45.0 | 43.0 | 37.3 | 29.3 | 31.7 | 20.1 | 19.0 | 32.1  | 35.7  | 32.1 | 26.1 | 26.1  | 26.0  | 44.0  | 18.4  | 5.8   | 8.1  | 8.0  | 26.2 | 45.0  | 5.8  |
| 31          | 8.0  | 8.0  | 11.4 | 12.6 | 12.6 | 13.7 | 12.6 | 11.5 | --   | 21.1 | 23.5 | 18.8 | 19.0 | 20.2  | 11.9  | 22.6 | 20.2 | 26.1  | 20.1  | 18.9  | 23.5  | 32.7  | 47.6 | 19.7 | 19.0 | 47.6  | 8.0  |
| Avg         | 12.4 | 11.7 | 11.0 | 11.1 | 11.0 | 12.6 | 13.9 | 14.7 | 16.0 | 16.4 | 16.8 | 15.7 | 17.8 | 18.7  | 20.7  | 21.2 | 20.1 | 24.0  | 22.2  | 23.2  | 21.7  | 19.2  | 18.4 | 15.8 | 16.9 | --    | --   |
| Max         | 35.8 | 34.6 | 40.1 | 35.8 | 39.2 | 48.1 | 45.0 | 43.0 | 37.3 | 40.6 | 33.1 | 37.9 | 52.0 | 105.0 | 154.0 | 75.8 | 76.0 | 123.0 | 139.0 | 221.0 | 171.0 | 111.0 | 94.0 | 70.8 | --   | 221.0 | --   |
| Min         | 1.1  | 0.0  | 1.1  | 1.1  | 3.3  | 4.4  | 3.5  | 3.5  | 3.3  | 4.6  | 4.6  | 4.6  | 4.6  | 2.3   | 1.2   | 2.3  | 3.5  | 4.5   | 4.6   | 2.3   | 4.6   | 4.4   | 6.6  | 4.5  | --   | --    | 0.0  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table100, East\_Plant\_conc\_PM10\_STP"**  
**Month: Jun 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           | 20.8  | 24.3  | 23.1  | 18.4 | 22.9 | 21.8 | 25.2 | 23.1 | 23.2 | 24.5 | 21.1 | 22.3 | 20.0 | 17.7 | 30.8 | 27.2 | 23.7 | 21.3 | 24.7 | 32.8  | 22.2 | 19.8 | 27.9 | 20.8 | 23.3 | 32.8  | 17.7 |
| 2           | 19.6  | 17.3  | 18.4  | 18.3 | 20.5 | 15.9 | 16.0 | 19.7 | 25.7 | 25.7 | 31.6 | 25.8 | 24.8 | 22.5 | 23.7 | 28.5 | 27.3 | 24.9 | 24.9 | 26.0  | 28.2 | 25.8 | 29.2 | 23.3 | 23.5 | 31.6  | 15.9 |
| 3           | 23.3  | 23.4  | 20.9  | 23.1 | 11.5 | 19.6 | 19.6 | 19.8 | 16.4 | 23.5 | 22.4 | 26.1 | 22.6 | 21.5 | 21.6 | 27.6 | 24.0 | 49.0 | 17.9 | 17.8  | 20.2 | 21.3 | 17.8 | 21.3 | 22.2 | 49.0  | 11.5 |
| 4           | 20.1  | 23.5  | 22.3  | 25.7 | 23.2 | 26.6 | 17.4 | 23.3 | 15.3 | 26.0 | 20.1 | 22.6 | 19.1 | 20.4 | 22.8 | 21.6 | 18.0 | 21.6 | 25.1 | 20.2  | 16.6 | 15.4 | 20.1 | 18.9 | 21.1 | 26.6  | 15.3 |
| 5           | 18.9  | 20.1  | 17.7  | 19.9 | 15.2 | 15.1 | 17.5 | 18.7 | 18.8 | 23.6 | 26.1 | 16.7 | 19.1 | 26.3 | 27.6 | 27.6 | 25.2 | 27.6 | 23.9 | 21.4  | 21.4 | 17.8 | 21.3 | 18.9 | 21.1 | 27.6  | 15.1 |
| 6           | 18.8  | 17.7  | 24.6  | 12.8 | 18.6 | 16.2 | 22.0 | 19.9 | 19.9 | 24.6 | 11.8 | 17.7 | 20.2 | 15.5 | 22.7 | 22.8 | 26.3 | 25.1 | 31.0 | 22.6  | 22.5 | 24.8 | 16.5 | 16.5 | 20.5 | 31.0  | 11.8 |
| 7           | 17.6  | 14.0  | 12.8  | 13.9 | 12.8 | 10.4 | 9.3  | 10.5 | 16.4 | 16.4 | 18.8 | 28.5 | 21.5 | 17.9 | 38.3 | 28.7 | 41.9 | 25.1 | 22.6 | 20.2  | 22.5 | 24.7 | 24.5 | 19.8 | 20.4 | 41.9  | 9.3  |
| 8           | 16.3  | 18.5  | 24.3  | 27.8 | 20.8 | 21.9 | 33.6 | 31.5 | 28.1 | 30.6 | 25.9 | 29.5 | 15.4 | 17.8 | 22.6 | 16.7 | 20.2 | 19.0 | 23.7 | 26.0  | 16.5 | 15.3 | 15.3 | 17.7 | 22.3 | 33.6  | 15.3 |
| 9           | 12.9  | 11.7  | 11.6  | 12.8 | 13.9 | 14.0 | 12.8 | 10.5 | 14.0 | 16.4 | 14.2 | 14.2 | --   | --   | 31.0 | 20.3 | 21.5 | 21.5 | 23.8 | 26.2  | 20.2 | 24.8 | 17.7 | 18.8 | 17.5 | 31.0  | 10.5 |
| 10          | 14.0  | 12.8  | 11.6  | 11.6 | 13.9 | 12.7 | 11.5 | 6.9  | 4.7  | 7.0  | 5.9  | 7.1  | 21.3 | 5.9  | 10.7 | 20.3 | 22.6 | 20.3 | 23.8 | 19.0  | 24.8 | 16.5 | 21.0 | 25.6 | 14.6 | 25.6  | 4.7  |
| 11          | 20.9  | 13.9  | 8.1   | 8.0  | 10.3 | 10.3 | 8.0  | 8.1  | 10.4 | 8.2  | 5.9  | 5.9  | 9.4  | 8.3  | 19.0 | 33.3 | 55.8 | 40.3 | 40.1 | 69.2  | 56.1 | 37.2 | 18.5 | 21.9 | 22.0 | 69.2  | 5.9  |
| 12          | 18.4  | 6.9   | 6.9   | 5.7  | 6.9  | 6.8  | 6.8  | 6.9  | 10.3 | 9.2  | 9.2  | 9.3  | 17.4 | 16.3 | 16.4 | 22.3 | 17.6 | 15.3 | 14.0 | 20.9  | 20.9 | 23.1 | 18.4 | 12.6 | 13.3 | 23.1  | 5.7  |
| 13          | 12.6  | 13.7  | 16.0  | 15.9 | 15.8 | 12.4 | 9.1  | 10.3 | 13.8 | 11.5 | 10.4 | 10.5 | 9.4  | 9.4  | 11.8 | 10.6 | 13.0 | 16.5 | 16.4 | 16.3  | 14.0 | 17.4 | 23.2 | 19.6 | 13.7 | 23.2  | 9.1  |
| 14          | 12.6  | 12.6  | 10.3  | 9.2  | 6.9  | 18.2 | 14.9 | 17.4 | 7.0  | 10.6 | 13.0 | 22.5 | 13.1 | 11.9 | 9.5  | 13.1 | 15.5 | 10.7 | 8.3  | 11.8  | 12.9 | 11.7 | 11.6 | 13.9 | 12.5 | 22.5  | 6.9  |
| 15          | 12.8  | 12.8  | 10.5  | 10.4 | 10.3 | 8.0  | 18.5 | 16.3 | 14.1 | 14.1 | 18.9 | 20.2 | 15.5 | 14.3 | 9.6  | 7.2  | 10.8 | 15.5 | 21.4 | 17.8  | 15.4 | 14.0 | 21.1 | 14.1 | 14.3 | 21.4  | 7.2  |
| 16          | 14.1  | 12.9  | 9.4   | 9.4  | 8.1  | 5.8  | 7.0  | 19.9 | 21.2 | 21.2 | 21.3 | 23.8 | 20.2 | 16.7 | 31.1 | 16.8 | 24.0 | 24.0 | 10.8 | 11.9  | 11.9 | 11.8 | 22.5 | 11.8 | 16.1 | 31.1  | 5.8  |
| 17          | 12.9  | 15.2  | 21.0  | 12.9 | 11.7 | 12.8 | 12.8 | 10.5 | 12.9 | 20.0 | 16.6 | 15.4 | 19.1 | 20.4 | 19.2 | 25.2 | 21.6 | 21.6 | 22.8 | 20.3  | 20.3 | 11.9 | 13.1 | 15.4 | 16.9 | 25.2  | 10.5 |
| 18          | 15.4  | 13.0  | 13.0  | 16.4 | 17.6 | 21.1 | 24.7 | 24.7 | 24.8 | 21.3 | 27.3 | 22.7 | 21.6 | 18.1 | 20.5 | 19.4 | 26.6 | 20.6 | 26.5 | 27.6  | 21.6 | 23.9 | 22.7 | 17.9 | 21.2 | 27.6  | 13.0 |
| 19          | 14.3  | 15.5  | 23.8  | 16.6 | 15.4 | 15.4 | 22.4 | 36.6 | 27.3 | 28.7 | 23.0 | 18.3 | 12.2 | 14.7 | 15.9 | 22.0 | 29.4 | 30.6 | 26.8 | 25.4  | 19.2 | 21.6 | 14.3 | 17.9 | 21.1 | 36.6  | 12.2 |
| 20          | 20.3  | 27.4  | 25.0  | 23.7 | 26.0 | 50.8 | 62.9 | 85.8 | 64.8 | 59.2 | 52.2 | 48.7 | 46.4 | 53.9 | 34.3 | 43.9 | 34.2 | 29.3 | 38.8 | 14.5  | 14.4 | 15.6 | 10.7 | 9.5  | 37.2 | 85.8  | 9.5  |
| 21          | 11.9  | 9.5   | 8.3   | 10.7 | 14.2 | 14.1 | 30.7 | 32.3 | 27.7 | 25.4 | 31.5 | 29.2 | 35.3 | 34.2 | 31.8 | 34.3 | 34.3 | 40.4 | 35.4 | 30.4  | 33.8 | 33.7 | 32.4 | 25.2 | 26.9 | 40.4  | 8.3  |
| 22          | 23.9  | 27.4  | 26.1  | 24.9 | 33.1 | 25.9 | 30.6 | 29.4 | 34.3 | 38.0 | --   | 27.6 | 33.7 | 42.2 | 39.9 | 41.2 | 50.9 | 41.2 | 41.0 | 32.5  | 32.4 | 27.5 | 23.9 | 38.1 | 33.3 | 50.9  | 23.9 |
| 23          | 50.9  | 69.4  | 58.7  | 49.2 | 42.1 | 38.4 | 39.7 | 37.5 | 44.7 | 53.1 | 35.6 | 38.2 | 37.1 | 54.1 | 39.8 | 44.7 | 45.9 | 41.0 | 37.3 | 30.0  | 33.5 | 27.5 | 26.3 | 16.7 | 41.3 | 69.4  | 16.7 |
| 24          | 13.1  | 20.2  | 23.7  | 37.8 | 27.1 | 26.0 | 29.4 | 29.5 | 32.2 | 22.8 | 31.3 | 32.6 | 31.5 | 30.4 | 25.6 | 32.9 | 24.4 | 28.0 | 32.7 | 25.4  | 21.7 | 31.2 | 19.1 | 28.4 | 27.4 | 37.8  | 13.1 |
| 25          | 129.0 | 202.0 | 117.0 | 76.3 | 66.7 | 74.6 | 53.7 | 52.7 | 65.9 | 47.3 | 41.7 | 50.2 | 37.2 | 37.4 | 32.6 | 36.3 | 43.6 | 41.1 | 41.0 | 100.0 | 48.5 | 59.0 | 24.7 | 23.5 | 62.6 | 202.0 | 23.5 |
| 26          | 14.0  | 24.5  | 17.5  | 22.1 | 26.7 | 24.3 | 41.8 | 33.8 | 41.0 | 49.4 | 41.2 | 40.3 | 41.7 | 40.7 | 39.7 | 44.6 | 54.1 | 39.7 | 37.2 | 33.5  | 31.0 | 25.0 | 24.8 | 22.5 | 33.8 | 54.1  | 14.0 |
| 27          | 27.2  | 44.8  | 25.8  | 23.5 | 25.7 | 25.6 | 38.5 | 32.9 | 37.7 | 45.0 | 32.1 | 29.9 | 28.7 | 72.0 | 44.4 | 40.9 | 45.7 | 26.4 | 19.1 | 17.9  | 17.8 | 21.3 | 20.1 | 24.7 | 32.0 | 72.0  | 17.8 |
| 28          | 22.4  | 23.5  | 30.5  | 24.6 | 25.6 | 29.0 | 33.7 | 19.9 | 25.8 | 28.3 | 29.5 | 29.6 | 34.4 | 42.9 | 56.2 | 58.7 | 41.9 | 44.3 | 33.5 | 27.4  | 23.8 | 26.0 | 28.3 | 29.3 | 32.1 | 58.7  | 19.9 |
| 29          | 22.3  | 21.1  | 11.7  | 12.8 | 19.7 | 17.3 | 16.2 | 24.5 | 25.7 | 17.6 | --   | --   | 30.9 | 22.6 | 31.1 | 16.8 | 20.4 | 16.8 | 20.3 | 25.0  | 19.0 | 17.7 | 18.8 | 17.6 | 20.3 | 31.1  | 11.7 |
| 30          | 23.4  | 12.8  | 12.8  | 10.5 | 10.4 | 15.0 | 27.8 | 18.7 | 11.7 | 9.4  | 11.8 | 15.5 | 15.5 | 13.2 | 13.2 | 20.4 | 18.0 | 18.0 | 31.1 | 9.5   | 11.8 | 12.9 | 11.7 | 14.0 | 15.4 | 31.1  | 9.4  |
| Avg         | 22.5  | 26.1  | 22.1  | 20.2 | 19.8 | 20.9 | 23.8 | 24.4 | 24.5 | 25.3 | 23.2 | 24.2 | 23.9 | 25.5 | 26.4 | 27.5 | 29.3 | 27.2 | 26.5 | 26.7  | 23.2 | 22.6 | 20.6 | 19.9 | 24.0 | --    | --   |
| Max         | 129.0 | 202.0 | 117.0 | 76.3 | 66.7 | 74.6 | 62.9 | 85.8 | 65.9 | 59.2 | 52.2 | 50.2 | 46.4 | 72.0 | 56.2 | 58.7 | 55.8 | 49.0 | 41.0 | 100.0 | 56.1 | 59.0 | 32.4 | 38.1 | --   | 202.0 | --   |
| Min         | 11.9  | 6.9   | 6.9   | 5.7  | 6.9  | 5.8  | 6.8  | 6.9  | 4.7  | 7.0  | 5.9  | 5.9  | 9.4  | 5.9  | 9.5  | 7.2  | 10.8 | 10.7 | 8.3  | 9.5   | 11.8 | 11.7 | 10.7 | 9.5  | --   | --    | 4.7  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table126, conc\_PM25"**  
**Month: Apr 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   | 7    | 5   | 5    | 6    | 6  | 9   | 8   | 8    | 9    | 8    | 9   | 10   | 7    | 6    | 6    | 5    | 5   | 5   | 7   | 9   | 7    | 3    | 3   | 6.75 | 10  | 3   |
| 2   | 4   | 4    | 7   | 8    | 5    | 6  | 6   | 4   | 4    | 6    | 8    | 7   | 6    | 7    | 7    | 5    | 4    | 5   | 6   | 5   | 5   | 6    | 6    | 5   | 5.67 | 8   | 4   |
| 3   | 3   | 4    | 5   | 4    | 3    | 2  | 4   | 7   | 5    | 3    | 5    | 5   | 4    | 4    | 5    | 4    | 4    | 5   | 6   | 8   | 6   | 3    | 4    | 6   | 4.54 | 8   | 2   |
| 4   | 4   | 0    | -1  | 4    | 4    | 3  | 3   | 2   | 1    | 2    | 1    | 1   | 4    | 4    | 1    | 2    | 3    | 1   | 1   | 2   | 0   | -1   | 0    | 1   | 1.75 | 4   | -1  |
| 5   | 0   | 0    | 1   | 2    | 1    | 1  | 2   | 4   | 4    | 5    | 3    | 0   | 2    | --   | --   | 3    | -1   | -1  | 0   | 1   | 2   | 2    | 2    | 1   | 1.55 | 5   | -1  |
| 6   | 1   | 4    | 4   | 1    | 3    | 5  | 3   | 1   | 1    | 4    | 3    | 1   | 2    | 0    | -1   | 1    | 2    | 3   | 2   | 5   | 6   | 4    | 5    | 6   | 2.75 | 6   | -1  |
| 7   | 6   | 5    | 6   | 5    | 2    | 3  | 4   | 2   | 4    | 4    | 4    | 5   | 4    | 2    | 0    | 0    | 1    | 3   | 1   | 2   | 4   | 5    | 5    | 4   | 3.38 | 6   | 0   |
| 8   | 2   | 2    | 2   | 4    | 7    | 6  | 3   | 4   | 4    | 3    | 2    | 2   | 3    | 3    | 3    | 4    | 3    | 2   | 1   | 1   | 3   | 5    | 5    | 5   | 3.29 | 7   | 1   |
| 9   | 5   | 4    | 6   | 9    | 10   | 9  | 8   | 9   | 8    | 6    | 6    | 6   | 9    | 8    | 9    | 10   | 9    | 9   | 10  | 10  | 9   | 9    | 10   | 11  | 8.29 | 11  | 4   |
| 10  | 11  | 10   | 9   | 7    | 7    | 7  | 9   | 13  | 11   | 8    | 6    | 7   | 10   | 9    | 7    | 7    | 8    | 9   | 7   | 5   | 6   | 7    | 7    | 7   | 8.08 | 13  | 5   |
| 11  | 8   | 7    | 5   | 5    | 7    | 7  | 7   | 7   | 6    | 7    | 6    | 4   | 6    | 4    | 5    | 7    | 6    | 6   | 7   | 7   | 6   | 6    | 7    | 7   | 6.25 | 8   | 4   |
| 12  | 9   | 6    | 2   | 3    | 6    | 6  | 6   | 6   | 7    | 4    | 3    | 4   | 5    | 5    | 4    | 5    | 6    | 5   | 5   | 7   | 6   | 4    | 5    | 7   | 5.25 | 9   | 2   |
| 13  | 6   | 4    | 5   | 6    | 6    | 3  | 2   | 4   | 4    | 6    | 9    | 8   | 5    | 6    | 6    | 6    | 9    | 6   | 6   | 8   | 10  | 8    | 5    | 7   | 6.04 | 10  | 2   |
| 14  | 9   | 7    | 6   | 5    | 4    | 5  | 5   | 6   | 6    | 5    | 4    | 4   | 7    | 7    | 5    | 5    | 6    | 6   | 6   | 8   | 8   | 7    | 5    | 7   | 5.96 | 9   | 4   |
| 15  | 8   | 6    | 7   | 9    | 7    | 4  | 5   | 6   | 7    | 6    | 6    | 3   | 3    | 3    | 2    | 5    | 6    | 5   | 5   | 7   | 8   | 5    | 4    | 6   | 5.54 | 9   | 2   |
| 16  | 6   | 5    | 6   | 6    | 7    | 10 | 11  | 9   | 7    | 5    | 2    | 3   | 5    | 4    | 6    | 7    | 5    | 7   | 10  | 8   | 6   | 5    | 5    | 6   | 6.29 | 11  | 2   |
| 17  | 5   | 6    | 7   | 4    | 3    | 4  | 6   | 8   | 9    | 5    | 3    | 5   | 6    | 5    | 4    | 5    | 5    | 7   | 6   | 4   | 4   | 2    | 6    | 6   | 5.21 | 9   | 2   |
| 18  | 3   | 3    | 3   | 2    | 2    | 2  | 4   | 5   | 4    | 5    | 4    | 2   | 1    | 3    | 3    | 2    | 3    | 4   | 4   | 1   | 4   | 6    | 6    | 6   | 3.42 | 6   | 1   |
| 19  | 4   | 6    | 9   | 8    | 8    | 9  | 7   | 6   | 6    | 6    | 6    | 4   | 4    | 4    | 2    | 3    | 4    | 5   | 4   | 2   | 5   | 5    | 4    | 6   | 5.29 | 9   | 2   |
| 20  | 5   | 3    | 3   | 3    | 5    | 6  | 4   | 5   | 6    | 5    | 6    | 5   | 3    | 2    | 3    | 5    | 5    | 5   | 6   | 5   | 5   | 5    | 4    | 3   | 4.46 | 6   | 2   |
| 21  | 3   | 3    | 4   | 5    | 3    | 5  | 5   | 3   | 5    | 6    | 5    | 5   | 6    | 8    | 7    | 4    | 6    | 7   | 6   | 4   | 3   | 3    | 6    | 6   | 4.92 | 8   | 3   |
| 22  | 3   | 4    | 5   | 2    | 2    | 4  | 4   | 6   | 6    | 3    | 2    | 2   | 5    | 5    | 3    | 7    | 5    | 2   | 3   | 4   | 7   | 9    | 8    | 7   | 4.5  | 9   | 2   |
| 23  | 6   | 6    | 6   | 6    | 6    | 9  | 13  | 19  | 10   | 12   | 11   | 11  | 11   | 6    | 4    | 4    | 3    | 6   | 9   | 6   | 6   | 6    | 6    | 8   | 7.92 | 19  | 3   |
| 24  | 7   | 5    | 4   | 3    | 5    | 5  | 6   | 7   | 5    | 4    | 3    | 2   | 4    | 6    | 4    | 6    | 7    | 6   | 6   | 6   | 9   | 9    | 6    | 8   | 5.54 | 9   | 2   |
| 25  | 9   | 6    | 5   | 8    | 7    | 7  | 10  | 10  | 10   | 12   | 10   | 11  | --   | 15   | 14   | 14   | 15   | 12  | 11  | 11  | 8   | 5    | 6    | 6   | 9.65 | 15  | 5   |
| 26  | 3   | 1    | -1  | -2   | 0    | 2  | 3   | 4   | 2    | 1    | 1    | 1   | 7    | 7    | 3    | 2    | 6    | 9   | 6   | 6   | 3   | 1    | 1    | 2   | 2.83 | 9   | -2  |
| 27  | 3   | 4    | 6   | 5    | 4    | 3  | 3   | 3   | 4    | 5    | 3    | 5   | 6    | 8    | 10   | 10   | 10   | 7   | 20  | 9   | 9   | 6    | 6    | 9   | 6.58 | 20  | 3   |
| 28  | 7   | 5    | 5   | 4    | 2    | 6  | 12  | 11  | 9    | 8    | 8    | 11  | 9    | 8    | 9    | 12   | 13   | 11  | 29  | 12  | 10  | 6    | 5    | 5   | 9.04 | 29  | 2   |
| 29  | 3   | 3    | 5   | 6    | 5    | 4  | 4   | 3   | 3    | 3    | 3    | 5   | 7    | 3    | 0    | 2    | 2    | 1   | 2   | 1   | 1   | 2    | 2    | 3   | 3    | 7   | 0   |
| 30  | 1   | 1    | 2   | 2    | 2    | 1  | 3   | 4   | 3    | 3    | 3    | 4   | 3    | 0    | -1   | 2    | 4    | 3   | 3   | 3   | 5   | 5    | 4    | 4   | 2.67 | 5   | -1  |
| Avg | 5.1 | 4.37 | 4.6 | 4.63 | 4.63 | 5  | 5.7 | 6.2 | 5.63 | 5.37 | 4.87 | 4.8 | 5.28 | 5.17 | 4.55 | 5.17 | 5.43 | 5.4 | 6.4 | 5.5 | 5.8 | 5.07 | 4.93 | 5.6 | 5.21 | --  | --  |
| Max | 11  | 10   | 9   | 9    | 10   | 10 | 13  | 19  | 11   | 12   | 11   | 11  | 11   | 15   | 14   | 14   | 15   | 12  | 29  | 12  | 10  | 9    | 10   | 11  | --   | 29  | --  |
| Min | 0   | 0    | -1  | -2   | 0    | 1  | 2   | 1   | 1    | 1    | 1    | 0   | 1    | 0    | -1   | 0    | -1   | -1  | 0   | 1   | 0   | -1   | 0    | 1   | --   | --  | -2  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table126, conc\_PM25"**  
**Month: May 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    | 1    | 1    | 2    | 1    | 2   | 4    | 5    | 4    | 3    | 1    | 1    | 2    | 5   | 4    | 2    | 4    | 4    | 4   | 5    | 6    | 6    | 6    | 3.29  | 6   | 1   |
| 2   | 7    | 6    | 5    | 2    | 2    | 2    | 1   | 2    | 4    | 7    | 9    | 7    | 5    | 4    | 6   | 8    | 7    | 6    | 8    | 7   | 5    | 5    | 2    | 2    | 4.96  | 9   | 1   |
| 3   | 2    | 4    | 4    | 3    | 4    | 2    | 4   | 6    | 6    | 7    | 8    | 4    | 2    | 1    | 3   | 5    | 6    | 6    | 6    | 5   | 5    | 5    | 5    | 5    | 4.5   | 8   | 1   |
| 4   | 5    | 5    | 2    | 2    | 3    | 2    | 3   | 6    | 5    | 5    | 6    | 7    | 7    | 6    | 7   | 7    | 7    | 6    | 4    | 4   | 5    | 4    | 2    | 3    | 4.71  | 7   | 2   |
| 5   | 4    | 4    | 4    | 4    | 2    | 3    | 5   | 5    | 7    | 8    | 5    | 5    | 7    | 8    | 6   | 8    | 8    | 7    | 9    | 7   | 6    | 7    | 5    | 4    | 5.75  | 9   | 2   |
| 6   | 3    | 4    | 5    | 3    | 3    | 3    | 2   | 3    | 4    | 5    | 6    | 5    | 6    | 7    | 5   | 6    | 10   | 12   | 15   | 30  | 38   | 25   | 19   | 18   | 9.87  | 38  | 2   |
| 7   | 10   | 10   | 7    | 3    | 2    | 4    | 2   | 5    | 10   | 8    | 6    | 6    | 8    | 20   | 25  | 12   | 10   | 7    | 6    | 8   | 12   | 13   | 11   | 10   | 8.96  | 25  | 2   |
| 8   | 11   | 7    | 6    | 7    | 9    | 10   | 9   | 12   | 12   | 11   | 11   | 16   | 11   | 10   | 8   | 8    | 7    | 6    | 7    | 6   | 6    | 6    | 6    | 5    | 8.63  | 16  | 5   |
| 9   | 5    | 6    | 6    | 4    | 4    | 4    | 3   | 3    | 4    | 5    | 7    | 6    | 2    | 1    | 3   | 3    | 3    | 3    | 4    | 5   | 6    | 5    | 2    | 1    | 3.96  | 7   | 1   |
| 10  | 3    | 3    | 4    | 4    | 2    | 1    | 2   | 2    | 2    | 3    | 4    | 4    | 3    | 3    | 4   | 6    | 7    | 6    | 5    | 5   | 5    | 5    | 6    | 5    | 3.92  | 7   | 1   |
| 11  | 1    | 0    | 5    | 6    | 2    | 2    | 1   | 2    | 4    | 5    | 5    | 3    | 2    | 2    | 1   | 1    | 3    | 4    | 5    | 5   | 6    | 6    | 6    | 7    | 3.5   | 7   | 0   |
| 12  | 6    | 4    | 3    | 5    | 5    | 5    | 8   | 9    | 7    | 3    | 1    | 3    | 3    | 4    | 5   | 5    | 5    | 4    | 3    | 5   | 6    | 6    | 4    | 5    | 4.75  | 9   | 1   |
| 13  | 6    | 4    | 4    | 5    | 5    | 4    | 4   | 5    | 6    | 4    | 2    | 2    | 2    | 2    | 1   | 1    | 3    | 3    | 2    | 3   | 4    | 4    | 4    | 2    | 3.42  | 6   | 1   |
| 14  | 1    | 3    | 4    | 3    | 4    | 2    | 0   | 4    | 6    | 6    | 3    | 3    | 3    | 1    | 1   | 3    | 3    | 4    | 7    | 6   | 5    | 7    | 6    | 6    | 3.79  | 7   | 0   |
| 15  | 3    | 5    | 7    | 5    | 6    | 6    | 6   | 6    | 6    | 6    | 5    | 5    | 5    | 6    | 9   | 10   | 10   | 17   | 9    | 8   | 6    | 2    | 3    | 3    | 6.42  | 17  | 2   |
| 16  | 4    | 6    | 5    | 4    | 4    | 5    | 6   | 5    | 7    | 8    | 6    | 6    | 6    | 5    | 7   | 7    | 6    | 6    | 4    | 4   | 5    | 6    | 7    | 6    | 5.63  | 8   | 4   |
| 17  | 7    | 6    | 7    | 7    | 5    | 5    | --  | --   | 4    | 4    | 4    | 4    | 4    | 5    | 5   | 3    | 4    | 5    | 3    | 3   | 3    | 4    | 6    | 8    | 4.82  | 8   | 3   |
| 18  | 6    | 3    | 3    | 3    | 5    | 4    | 4   | 5    | 5    | 6    | 6    | 3    | 2    | 4    | 3   | 4    | 4    | 4    | 3    | 1   | 0    | 0    | 2    | 3    | 3.46  | 6   | 0   |
| 19  | 1    | 0    | -1   | -2   | 1    | 3    | 3   | 4    | 2    | 1    | 1    | 0    | -1   | -2   | 2   | 1    | -1   | -2   | -3   | 1   | 2    | 1    | 0    | 2    | 0.542 | 4   | -3  |
| 20  | 3    | 2    | 4    | 3    | 0    | 1    | 2   | 1    | -1   | -2   | -1   | 15   | 5    | 7    | 9   | 20   | 10   | 9    | 7    | 6   | 3    | 3    | 2    | 2    | 4.58  | 20  | -2  |
| 21  | 2    | 0    | 1    | 3    | 4    | 6    | 4   | 1    | 1    | 1    | 6    | 13   | 13   | 15   | 6   | 5    | 2    | 0    | 3    | 4   | 2    | 1    | 1    | 2    | 4     | 15  | 0   |
| 22  | 0    | 0    | 1    | 2    | 4    | 5    | --  | 6    | 5    | 4    | 3    | 1    | 0    | 0    | 1   | 2    | 4    | 4    | 5    | 8   | 10   | 8    | 5    | 3    | 3.52  | 10  | 0   |
| 23  | 4    | 4    | 1    | 2    | 3    | 1    | 2   | 1    | 3    | 5    | 0    | -2   | -1   | 1    | 2   | 1    | 3    | 4    | 3    | 4   | 5    | 6    | 5    | 2    | 2.46  | 6   | -2  |
| 24  | 1    | 4    | 5    | 2    | 2    | 4    | 8   | 9    | 9    | 8    | 7    | 5    | 2    | 3    | 2   | 1    | 2    | 3    | 3    | 5   | 4    | 2    | 2    | 3    | 4     | 9   | 1   |
| 25  | 3    | 3    | 4    | 2    | -1   | 1    | 5   | 4    | 1    | 1    | 3    | 3    | 2    | 4    | 4   | 3    | 2    | 1    | 2    | 4   | 4    | 1    | 2    | 6    | 2.67  | 6   | -1  |
| 26  | 6    | 3    | 3    | 5    | 4    | 5    | 4   | 4    | 4    | 4    | 2    | 2    | 5    | 4    | 3   | 3    | 1    | 0    | 0    | 2   | 3    | 3    | 3    | 7    | 3.33  | 7   | 0   |
| 27  | 7    | 4    | 3    | 2    | 2    | 3    | 4   | 3    | 2    | 2    | 0    | 1    | 3    | 2    | 2   | 3    | 1    | 1    | 5    | 6   | 4    | 4    | 3    | 2    | 2.88  | 7   | 0   |
| 28  | 1    | 2    | 5    | 5    | 4    | 3    | 3   | 3    | 3    | 3    | 3    | 5    | 6    | 6    | 5   | 1    | 0    | 3    | 4    | 4   | 6    | 6    | 3    | 3    | 3.63  | 6   | 0   |
| 29  | 4    | 4    | 4    | 5    | 5    | 4    | 5   | 9    | 8    | 5    | 5    | 9    | 13   | 7    | 5   | 6    | 3    | 3    | 6    | 7   | 6    | 6    | 5    | 3    | 5.71  | 13  | 3   |
| 30  | 5    | 6    | 8    | 8    | 8    | 9    | 10  | 10   | 7    | 6    | 9    | 9    | 6    | 6    | 6   | 8    | 7    | 5    | 5    | 16  | 2    | 2    | 2    | 2    | 6.75  | 16  | 2   |
| 31  | 2    | 2    | 3    | 4    | 5    | 6    | 7   | 6    | --   | 8    | 8    | 3    | 2    | 4    | 7   | 6    | 4    | 7    | 7    | 6   | 5    | 6    | 6    | 5    | 5.17  | 8   | 2   |
| Avg | 4.06 | 3.77 | 3.97 | 3.61 | 3.55 | 3.74 | 4.1 | 4.83 | 4.93 | 4.87 | 4.61 | 4.97 | 4.32 | 4.77 | 5.1 | 5.19 | 4.61 | 4.77 | 4.87 | 6.1 | 5.94 | 5.32 | 4.55 | 4.55 | 4.63  | --  | --  |
| Max | 11   | 10   | 8    | 8    | 9    | 10   | 10  | 12   | 12   | 11   | 11   | 16   | 13   | 20   | 25  | 20   | 10   | 17   | 15   | 30  | 38   | 25   | 19   | 18   | --    | 38  | --  |
| Min | 0    | 0    | -1   | -2   | -1   | 1    | 0   | 1    | -1   | -2   | -1   | -2   | -1   | -2   | 1   | 1    | -1   | -2   | -3   | 1   | 0    | 0    | 0    | 1    | --    | --  | -3  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: Table126, conc\_PM25"**  
**Month: Jun 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    | 4    | 4    | 8    | 8   | 6   | 7   | 7   | 7   | 8    | 9    | 7    | 7    | 6    | 4    | 4    | 5   | 5    | 4    | 3    | 6    | 6    | 5    | 6  | 5.88 | 9   | 3   |
| 2   | 7    | 5    | 4    | 6    | 7   | 7   | 6   | 6   | 5   | 5    | 7    | 6    | 5    | 4    | 4    | 7    | 8   | 6    | 5    | 6    | 5    | 6    | 7    | 6  | 5.83 | 8   | 4   |
| 3   | 4    | 5    | 5    | 5    | 4   | 7   | 9   | 6   | 7   | 10   | 7    | 5    | 6    | 5    | 4    | 7    | 8   | 6    | 5    | 4    | 5    | 7    | 7    | 6  | 6    | 10  | 4   |
| 4   | 29   | 9    | 8    | 7    | 8   | 8   | 9   | 9   | 8   | 6    | 5    | 7    | 8    | 6    | 5    | 5    | 6   | 5    | 6    | 7    | 6    | 7    | 6    | 6  | 7.75 | 29  | 5   |
| 5   | 6    | 5    | 7    | 6    | 5   | 3   | 4   | 5   | 6   | 5    | 5    | 6    | 4    | 5    | 7    | 6    | 6   | 6    | 6    | 6    | 7    | 8    | 7    | 6  | 5.71 | 8   | 3   |
| 6   | 6    | 5    | 5    | 4    | 3   | 4   | 7   | 7   | 4   | 3    | 5    | 6    | 6    | 5    | 6    | 7    | 4   | 5    | 7    | 5    | 5    | 6    | 6    | 9  | 5.42 | 9   | 3   |
| 7   | 6    | 1    | 3    | 5    | 6   | 4   | 1   | 3   | 5   | 4    | 2    | 2    | 5    | 4    | 3    | 4    | 4   | 5    | 6    | 6    | 7    | 6    | 4    | 4  | 4.17 | 7   | 1   |
| 8   | 5    | 4    | 5    | 8    | 9   | 10  | 11  | 16  | 8   | 8    | 9    | 6    | 3    | 5    | 7    | 7    | 7   | 4    | 5    | 8    | 8    | 7    | 6    | 6  | 7.17 | 16  | 3   |
| 9   | 7    | 8    | 7    | 6    | 5   | 6   | 8   | 7   | 8   | 7    | 5    | --   | --   | 12   | 9    | 6    | 45  | 6    | 7    | 8    | 8    | 8    | 7    | 4  | 8.82 | 45  | 4   |
| 10  | 3    | 5    | 5    | 4    | 3   | 4   | 4   | 5   | 4   | 2    | 1    | 1    | 1    | 3    | 4    | 4    | 4   | 3    | 1    | 3    | 5    | 5    | 5    | 6  | 3.54 | 6   | 1   |
| 11  | 6    | 5    | 6    | 4    | 3   | 5   | 5   | 3   | 3   | 4    | 3    | 2    | 3    | 4    | 3    | 3    | 4   | 6    | 4    | 4    | 8    | 7    | 7    | 5  | 4.46 | 8   | 2   |
| 12  | 4    | 2    | 2    | 3    | 2   | 2   | 4   | 3   | 1   | 1    | 3    | 3    | 3    | 2    | 1    | 2    | 2   | 3    | 3    | 1    | 5    | 6    | 5    | 3  | 2.75 | 6   | 1   |
| 13  | 2    | 2    | 2    | 2    | 3   | 3   | 2   | 3   | 3   | 4    | 16   | 5    | 2    | 0    | 0    | 0    | 1   | 2    | 1    | 2    | 3    | 3    | 3    | 4  | 2.83 | 16  | 0   |
| 14  | 3    | 3    | 2    | 1    | 3   | 3   | 4   | 3   | 0   | 2    | 5    | 5    | 21   | 4    | 1    | 2    | 7   | 5    | 2    | 2    | 3    | 6    | 6    | 6  | 4.13 | 21  | 0   |
| 15  | 7    | 5    | 1    | 0    | 2   | 2   | 3   | 4   | 4   | 4    | 2    | 2    | 1    | 1    | 3    | 3    | 1   | 2    | 2    | 1    | -1   | 1    | 4    | 4  | 2.42 | 7   | -1  |
| 16  | 5    | 4    | 1    | 1    | 3   | 3   | 4   | 5   | 4   | 2    | 3    | 5    | 3    | 3    | 2    | 3    | 2   | 1    | 3    | 4    | 4    | 4    | 5    | 5  | 3.29 | 5   | 1   |
| 17  | 3    | 4    | 4    | 3    | 3   | 5   | 5   | 4   | 5   | 4    | 5    | 3    | 3    | 6    | 6    | 5    | 6   | 4    | 3    | 5    | 6    | 4    | 4    | 5  | 4.38 | 6   | 3   |
| 18  | 6    | 5    | 3    | 2    | 5   | 15  | 7   | 7   | 9   | 11   | 10   | 6    | 41   | 15   | 22   | 19   | 18  | 12   | 12   | 10   | 5    | 6    | 8    | 6  | 10.8 | 41  | 2   |
| 19  | 5    | 7    | 6    | 6    | 7   | 8   | 6   | 8   | 9   | 7    | 7    | 7    | 6    | 5    | 5    | 5    | 5   | 7    | 7    | 6    | 3    | 1    | 1    | 5  | 5.79 | 9   | 1   |
| 20  | 8    | 6    | 6    | 7    | 8   | 7   | 17  | 13  | 13  | 14   | 15   | 20   | 20   | 17   | 15   | 14   | 13  | 9    | 6    | 4    | 3    | 3    | 5    | 6  | 10.4 | 20  | 3   |
| 21  | 6    | 6    | 4    | 4    | 6   | 6   | 7   | 8   | 9   | 9    | 8    | 11   | 10   | 8    | 11   | 12   | 11  | 12   | 13   | 12   | 10   | 13   | 12   | 8  | 9    | 13  | 4   |
| 22  | 8    | 10   | 9    | 8    | 10  | 9   | 10  | 11  | 10  | 10   | 10   | 8    | 7    | 10   | 11   | 9    | 9   | 12   | 12   | 11   | 10   | 9    | 9    | 10 | 9.67 | 12  | 7   |
| 23  | 10   | 16   | 15   | 16   | 16  | 15  | 17  | 13  | 24  | 20   | 21   | 15   | 8    | 9    | 10   | 15   | 13  | 11   | 11   | 10   | 10   | 10   | 7    | 6  | 13.3 | 24  | 6   |
| 24  | 8    | 7    | 6    | 9    | 10  | 8   | 6   | 9   | 9   | 7    | 9    | 10   | 8    | 7    | 8    | 8    | 8   | 7    | 8    | 9    | 9    | 9    | 9    | 8  | 8.17 | 10  | 6   |
| 25  | 20   | 48   | 27   | 18   | 17  | 16  | 16  | 15  | 14  | 14   | 15   | 17   | 11   | 10   | 8    | 9    | 11  | 11   | 9    | 17   | 9    | 7    | 8    | 6  | 14.7 | 48  | 6   |
| 26  | 4    | 7    | 9    | 11   | 13  | 11  | 9   | 12  | 16  | 12   | 12   | 27   | 13   | 14   | 13   | 12   | 13  | 12   | 16   | 9    | 8    | 10   | 10   | 9  | 11.8 | 27  | 4   |
| 27  | 10   | 10   | 10   | 10   | 8   | 9   | 9   | 10  | 10  | 10   | 9    | 7    | 5    | 5    | 4    | 5    | 6   | 5    | 4    | 5    | 6    | 6    | 4    | 5  | 7.17 | 10  | 4   |
| 28  | 6    | 6    | 6    | 10   | 10  | 7   | 7   | 7   | 9   | 10   | 8    | 8    | 9    | 17   | 27   | 27   | 16  | 14   | 15   | 12   | 10   | 10   | 12   | 12 | 11.5 | 27  | 6   |
| 29  | 11   | 7    | 4    | 5    | 4   | 6   | 10  | 12  | 17  | 13   | --   | --   | 12   | 51   | 11   | 10   | 25  | 11   | 10   | 11   | 16   | 3    | 5    | 5  | 11.8 | 51  | 3   |
| 30  | 4    | 6    | 5    | 5    | 7   | 8   | 8   | 7   | 6   | 4    | 2    | 1    | 2    | 5    | 6    | 6    | 5   | 3    | 3    | 3    | 2    | 1    | 1    | 3  | 4.29 | 8   | 1   |
| Avg | 7.13 | 7.23 | 6.03 | 6.13 | 6.6 | 6.9 | 7.4 | 7.6 | 7.9 | 7.33 | 7.52 | 7.43 | 8.03 | 8.27 | 7.33 | 7.53 | 9.1 | 6.67 | 6.53 | 6.47 | 6.37 | 6.17 | 6.17 | 6  | 7.09 | --  | --  |
| Max | 29   | 48   | 27   | 18   | 17  | 16  | 17  | 16  | 24  | 20   | 21   | 27   | 41   | 51   | 27   | 27   | 45  | 14   | 16   | 17   | 16   | 13   | 12   | 12 | --   | 51  | --  |
| Min | 2    | 1    | 1    | 0    | 2   | 2   | 1   | 3   | 0   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 1   | 1    | 1    | 1    | -1   | 1    | 1    | 3  | --   | --  | -1  |

-- Indicates Invalid Data



**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: Apr 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           | --   | --   | --   | --   | 16.0 | 22.0 | 27.0  | 28.0  | --   | --   | --   | --   | 23.0 | 23.0 | 19.0  | 37.0  | 17.0 | 13.0 | 18.0  | 19.0 | 12.0 | 19.0 | 17.0 | 16.0 | --   | 37.0  | 12.0 |     |
| 2           | 6.0  | 10.0 | 12.0 | 17.0 | 20.0 | 16.0 | 34.0  | 16.0  | 10.0 | 23.0 | --   | 18.0 | 16.0 | 16.0 | 16.0  | 17.0  | 23.0 | 17.0 | 18.0  | 25.0 | --   | 14.0 | 16.0 | 12.0 | 16.9 | 34.0  | 6.0  |     |
| 3           | 11.0 | 11.0 | 9.0  | 8.0  | 16.0 | 11.0 | 12.0  | 25.0  | 10.0 | 9.0  | 29.0 | 22.0 | 19.0 | 50.0 | 48.0  | 33.0  | 25.0 | 25.0 | 25.0  | --   | 21.0 | 64.0 | 14.0 | 13.0 | 22.2 | 64.0  | 8.0  |     |
| 4           | 12.0 | 10.0 | 7.0  | 6.0  | 5.0  | 3.0  | 7.0   | 7.0   | 7.0  | 20.0 | 18.0 | 4.0  | 24.0 | 56.0 | 50.0  | 14.0  | 7.0  | 5.0  | 7.0   | 4.0  | 5.0  | 9.0  | 8.0  | 2.0  | 12.4 | 56.0  | 2.0  |     |
| 5           | 1.0  | 6.0  | 8.0  | 9.0  | 8.0  | 3.0  | 3.0   | 9.0   | 17.0 | --   | --   | --   | --   | --   | --    | --    | --   | --   | --    | --   | --   | --   | --   | --   | --   | 17.0  | 1.0  |     |
| 6           | --   | --   | --   | --   | --   | --   | --    | 15.0  | 6.0  | 32.0 | 15.0 | 11.0 | 7.0  | 8.0  | 23.0  | 3.0   | 8.0  | 12.0 | 17.0  | 30.0 | 27.0 | 42.0 | 17.0 | 9.0  | --   | 42.0  | 3.0  |     |
| 7           | 10.0 | --   | --   | 12.0 | 10.0 | 39.0 | 88.0  | 18.0  | 11.0 | 12.0 | 13.0 | 16.0 | 13.0 | 12.0 | 8.0   | 6.0   | 9.0  | 8.0  | 19.0  | 12.0 | 22.0 | 6.0  | 23.0 | 10.0 | 17.1 | 88.0  | 6.0  |     |
| 8           | 12.0 | 13.0 | 13.0 | 11.0 | 10.0 | 12.0 | 30.0  | 9.0   | 11.0 | 11.0 | 8.0  | 5.0  | 5.0  | 8.0  | 10.0  | 17.0  | 15.0 | 12.0 | 11.0  | 12.0 | 15.0 | 16.0 | 14.0 | 23.0 | 12.6 | 30.0  | 5.0  |     |
| 9           | 16.0 | 10.0 | 9.0  | 17.0 | 18.0 | 20.0 | 39.0  | 17.0  | 21.0 | 16.0 | 15.0 | 17.0 | 20.0 | 16.0 | 15.0  | 19.0  | 24.0 | 19.0 | 15.0  | 22.0 | 34.0 | 22.0 | 18.0 | 22.0 | 19.2 | 39.0  | 9.0  |     |
| 10          | 23.0 | 19.0 | 21.0 | 17.0 | 18.0 | 18.0 | 39.0  | 22.0  | 27.0 | 21.0 | 28.0 | 23.0 | 29.0 | 17.0 | 29.0  | 18.0  | 14.0 | 16.0 | 11.0  | 20.0 | 20.0 | 17.0 | 20.0 | 15.0 | 20.9 | 39.0  | 11.0 |     |
| 11          | 22.0 | 17.0 | 17.0 | 19.0 | 15.0 | 16.0 | 21.0  | --    | 26.0 | 17.0 | 21.0 | 24.0 | 10.0 | 20.0 | 16.0  | 57.0  | 16.0 | 38.0 | 21.0  | 17.0 | 20.0 | 13.0 | 24.0 | 15.0 | 21.0 | 57.0  | 10.0 |     |
| 12          | 10.0 | 12.0 | 17.0 | 17.0 | 12.0 | 21.0 | 47.0  | 20.0  | 18.0 | 19.0 | 19.0 | 32.0 | 13.0 | --   | 59.0  | 21.0  | 9.0  | 18.0 | 26.0  | 18.0 | 15.0 | 13.0 | 17.0 | 15.0 | 20.3 | 59.0  | 9.0  |     |
| 13          | 14.0 | 11.0 | 11.0 | 12.0 | 13.0 | 12.0 | 11.0  | 29.0  | 21.0 | 19.0 | 26.0 | 14.0 | 17.0 | 13.0 | 36.0  | 24.0  | 25.0 | 31.0 | 35.0  | 21.0 | 20.0 | 42.0 | 16.0 | 17.0 | 20.4 | 42.0  | 11.0 |     |
| 14          | 16.0 | 15.0 | 15.0 | 12.0 | 11.0 | 12.0 | 19.0  | 14.0  | 21.0 | 13.0 | 16.0 | 29.0 | 14.0 | 15.0 | 38.0  | 24.0  | 18.0 | 31.0 | 18.0  | 19.0 | 22.0 | 24.0 | 27.0 | 22.0 | 19.4 | 38.0  | 11.0 |     |
| 15          | 16.0 | 19.0 | 17.0 | 14.0 | 12.0 | 68.0 | 27.0  | 16.0  | 15.0 | 8.0  | 23.0 | 13.0 | 22.0 | 12.0 | 12.0  | 11.0  | 19.0 | 19.0 | 18.0  | 45.0 | 22.0 | 19.0 | 19.0 | 23.0 | 20.4 | 68.0  | 8.0  |     |
| 16          | 18.0 | 17.0 | 16.0 | 15.0 | 15.0 | 16.0 | 86.0  | 20.0  | 16.0 | 22.0 | 8.0  | 16.0 | --   | 15.0 | 15.0  | 14.0  | 12.0 | --   | --    | 35.0 | 23.0 | 37.0 | 18.0 | 15.0 | 21.4 | 86.0  | 8.0  |     |
| 17          | 14.0 | 11.0 | 12.0 | 22.0 | 12.0 | 10.0 | 109.0 | 18.0  | 12.0 | 31.0 | 24.0 | 8.0  | 28.0 | 22.0 | 27.0  | 17.0  | 12.0 | 24.0 | 15.0  | 20.0 | 7.0  | 10.0 | 11.0 | 10.0 | 20.2 | 109.0 | 7.0  |     |
| 18          | 12.0 | 10.0 | 7.0  | 5.0  | 7.0  | 11.0 | 38.0  | 36.0  | 36.0 | 23.0 | 14.0 | 23.0 | 45.0 | 14.0 | 25.0  | 23.0  | 20.0 | 17.0 | 14.0  | 13.0 | 12.0 | 11.0 | 11.0 | 17.0 | 18.5 | 45.0  | 5.0  |     |
| 19          | 17.0 | 20.0 | 16.0 | 12.0 | 18.0 | 15.0 | 39.0  | 19.0  | 24.0 | 26.0 | 20.0 | 34.0 | 26.0 | 30.0 | 39.0  | 152.0 | 14.0 | 17.0 | 17.0  | 17.0 | --   | 9.0  | 10.0 | --   | 26.9 | 152.0 | 9.0  |     |
| 20          | 13.0 | --   | --   | 12.0 | 12.0 | 15.0 | 73.0  | 77.0  | 17.0 | 9.0  | 17.0 | 14.0 | --   | 33.0 | 24.0  | 14.0  | --   | 16.0 | --    | --   | 19.0 | --   | 17.0 | --   | --   | 77.0  | 9.0  |     |
| 21          | 11.0 | 9.0  | 9.0  | 10.0 | 9.0  | 11.0 | --    | 21.0  | 14.0 | 14.0 | 18.0 | 16.0 | 21.0 | 37.0 | 27.0  | 12.0  | 18.0 | 21.0 | 15.0  | 16.0 | 17.0 | 34.0 | 15.0 | 14.0 | 16.9 | 37.0  | 9.0  |     |
| 22          | 13.0 | 15.0 | 10.0 | 8.0  | 16.0 | 6.0  | 22.0  | 10.0  | 8.0  | 7.0  | 9.0  | 11.0 | 13.0 | 14.0 | 13.0  | 19.0  | 17.0 | 10.0 | 23.0  | 11.0 | 12.0 | 14.0 | 13.0 | 12.0 | 12.8 | 23.0  | 6.0  |     |
| 23          | 10.0 | 17.0 | 10.0 | 9.0  | 19.0 | 34.0 | 51.0  | 120.0 | 59.0 | 38.0 | 34.0 | 33.0 | 21.0 | 22.0 | 16.0  | 22.0  | 12.0 | 21.0 | 34.0  | 8.0  | 10.0 | 67.0 | 20.0 | 18.0 | 29.4 | 120.0 | 8.0  |     |
| 24          | 16.0 | 9.0  | 8.0  | 8.0  | 7.0  | 6.0  | 17.0  | 15.0  | --   | --   | --   | 41.0 | 50.0 | 77.0 | 78.0  | 28.0  | 26.0 | 23.0 | 24.0  | 23.0 | 15.0 | 17.0 | 16.0 | 19.0 | 24.9 | 78.0  | 6.0  |     |
| 25          | 13.0 | 17.0 | 13.0 | 17.0 | 17.0 | 20.0 | 27.0  | 28.0  | 45.0 | 44.0 | 61.0 | 64.0 | 87.0 | 88.0 | 128.0 | 79.0  | 65.0 | 68.0 | 61.0  | 43.0 | 35.0 | 20.0 | 21.0 | 20.0 | 45.0 | 128.0 | 13.0 |     |
| 26          | 7.0  | 9.0  | 8.0  | 6.0  | 6.0  | 5.0  | 9.0   | 23.0  | 10.0 | 26.0 | 9.0  | 22.0 | 17.0 | 38.0 | 17.0  | 16.0  | 15.0 | 11.0 | 9.0   | 10.0 | 13.0 | 10.0 | 7.0  | 9.0  | 13.0 | 38.0  | 5.0  |     |
| 27          | 9.0  | 8.0  | 16.0 | 19.0 | 12.0 | 12.0 | 21.0  | 17.0  | 14.0 | 20.0 | 18.0 | 19.0 | --   | 58.0 | 48.0  | 33.0  | 28.0 | 38.0 | 21.0  | 29.0 | 20.0 | 22.0 | 18.0 | 29.0 | 23.0 | 58.0  | 8.0  |     |
| 28          | 25.0 | 16.0 | 13.0 | 11.0 | 12.0 | 12.0 | 24.0  | 27.0  | 30.0 | 34.0 | 22.0 | 22.0 | 40.0 | 47.0 | 71.0  | 56.0  | 89.0 | 85.0 | 516.0 | 76.0 | 28.0 | 19.0 | 11.0 | 9.0  | 54.0 | 516.0 | 9.0  |     |
| 29          | 9.0  | 10.0 | 8.0  | 6.0  | 7.0  | 9.0  | 9.0   | 7.0   | 4.0  | 4.0  | 3.0  | 3.0  | 33.0 | 6.0  | 6.0   | 18.0  | 11.0 | 7.0  | 6.0   | 6.0  | 7.0  | 7.0  | 5.0  | 7.0  | 8.3  | 33.0  | 3.0  |     |
| 30          | 11.0 | 7.0  | 4.0  | 5.0  | 4.0  | 5.0  | 66.0  | 12.0  | 13.0 | 9.0  | 1.0  | 5.0  | 8.0  | 6.0  | 7.0   | 8.0   | 7.0  | 8.0  | 7.0   | 7.0  | 17.0 | 23.0 | 34.0 | 13.0 | 10.0 | 12.1  | 66.0 | 1.0 |
| Avg         | 13.1 | 12.6 | 11.8 | 12.0 | 12.3 | 15.9 | 35.5  | 24.0  | 18.7 | 19.5 | 18.8 | 20.0 | 23.9 | 27.6 | 31.7  | 28.0  | 20.5 | 22.5 | 37.8  | 21.8 | 18.4 | 22.5 | 15.7 | 14.9 | 21.1 | --    | --   |     |
| Max         | 25.0 | 20.0 | 21.0 | 22.0 | 20.0 | 68.0 | 109.0 | 120.0 | 59.0 | 44.0 | 61.0 | 64.0 | 87.0 | 88.0 | 128.0 | 152.0 | 89.0 | 85.0 | 516.0 | 76.0 | 35.0 | 67.0 | 27.0 | 29.0 | --   | 516.0 | --   |     |
| Min         | 1.0  | 6.0  | 4.0  | 5.0  | 4.0  | 3.0  | 3.0   | 7.0   | 4.0  | 4.0  | 1.0  | 3.0  | 5.0  | 6.0  | 6.0   | 3.0   | 7.0  | 5.0  | 6.0   | 4.0  | 5.0  | 6.0  | 5.0  | 2.0  | --   | --    | 1.0  |     |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: May 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  | 7.0  | 5.0  | 6.0  | 7.0  | 17.0 | 24.0  | 11.0 | 20.0 | 6.0  | 15.0 | 23.0 | --   | 35.0  | 33.0  | 36.0 | 10.0 | 12.0  | 13.0 | 13.0  | 11.0  | 20.0 | 7.0  | 9.0  | 15.1 | 36.0  | 5.0  |
| 2           | 10.0 | 7.0  | 5.0  | 4.0  | 6.0  | 9.0  | 20.0  | 12.0 | 17.0 | 16.0 | 13.0 | 33.0 | 34.0 | 41.0  | 23.0  | 31.0 | 16.0 | 16.0  | 13.0 | 13.0  | 12.0  | 33.0 | 9.0  | 10.0 | 16.8 | 41.0  | 4.0  |
| 3           | 11.0 | 9.0  | 8.0  | 18.0 | 12.0 | 13.0 | 17.0  | 33.0 | 9.0  | 8.0  | 5.0  | 31.0 | 38.0 | 29.0  | 59.0  | 5.0  | 7.0  | 5.0   | 6.0  | 12.0  | 19.0  | 13.0 | 12.0 | 16.0 | 16.5 | 59.0  | 5.0  |
| 4           | 11.0 | 9.0  | 7.0  | 8.0  | 7.0  | 9.0  | 16.0  | 28.0 | 14.0 | 14.0 | 15.0 | 12.0 | 18.0 | 8.0   | 24.0  | 7.0  | 7.0  | 8.0   | 10.0 | 10.0  | 15.0  | 8.0  | 10.0 | 10.0 | 11.9 | 28.0  | 7.0  |
| 5           | 9.0  | 11.0 | 8.0  | 15.0 | 13.0 | 16.0 | 17.0  | 32.0 | 20.0 | 43.0 | 27.0 | 22.0 | 19.0 | 26.0  | 19.0  | 22.0 | 23.0 | 34.0  | 35.0 | 24.0  | 23.0  | 27.0 | 18.0 | 17.0 | 21.7 | 43.0  | 8.0  |
| 6           | 11.0 | 11.0 | 8.0  | 8.0  | 10.0 | 11.0 | 12.0  | 15.0 | 14.0 | 17.0 | 25.0 | 39.0 | 41.0 | 53.0  | 27.0  | 62.0 | 79.0 | 107.0 | 98.0 | 164.0 | 124.0 | 78.0 | 84.0 | 58.0 | 48.2 | 164.0 | 8.0  |
| 7           | 21.0 | 27.0 | 13.0 | 13.0 | 12.0 | 17.0 | 17.0  | 11.0 | 11.0 | 15.0 | 17.0 | 21.0 | 51.0 | 116.0 | 140.0 | 62.0 | 35.0 | 21.0  | 31.0 | 31.0  | 34.0  | 38.0 | 36.0 | 34.0 | 34.3 | 140.0 | 11.0 |
| 8           | 30.0 | 29.0 | 27.0 | 30.0 | 27.0 | 29.0 | 41.0  | 30.0 | 31.0 | 38.0 | 28.0 | 46.0 | 55.0 | 38.0  | 36.0  | 27.0 | 24.0 | 19.0  | 22.0 | 16.0  | 26.0  | 17.0 | 8.0  | 7.0  | 28.4 | 55.0  | 7.0  |
| 9           | 8.0  | 8.0  | 7.0  | 8.0  | 8.0  | 7.0  | 5.0   | 7.0  | 7.0  | 6.0  | 6.0  | 5.0  | 6.0  | 6.0   | 24.0  | 13.0 | 9.0  | 4.0   | 3.0  | 4.0   | 4.0   | 4.0  | 4.0  | 3.0  | 6.9  | 24.0  | 3.0  |
| 10          | 4.0  | 4.0  | 5.0  | 5.0  | 4.0  | 3.0  | 22.0  | 18.0 | 2.0  | 5.0  | 10.0 | 11.0 | 10.0 | 7.0   | 16.0  | 9.0  | 11.0 | 16.0  | 38.0 | 13.0  | 12.0  | 12.0 | 12.0 | 6.0  | 10.6 | 38.0  | 2.0  |
| 11          | 5.0  | 7.0  | 6.0  | 7.0  | 6.0  | 3.0  | 32.0  | 6.0  | 7.0  | 6.0  | 10.0 | 13.0 | --   | --    | 7.0   | 7.0  | 11.0 | 13.0  | 21.0 | 14.0  | 16.0  | 15.0 | 21.0 | 17.0 | 11.4 | 32.0  | 3.0  |
| 12          | 13.0 | 11.0 | 10.0 | 10.0 | 12.0 | 11.0 | 18.0  | 27.0 | 9.0  | 17.0 | 15.0 | 12.0 | 8.0  | 8.0   | 11.0  | 12.0 | 13.0 | 18.0  | 15.0 | 14.0  | 12.0  | 43.0 | 20.0 | 24.0 | 15.1 | 43.0  | 8.0  |
| 13          | 9.0  | 11.0 | 13.0 | 14.0 | 13.0 | 10.0 | 6.0   | 7.0  | 9.0  | 7.0  | 6.0  | 8.0  | 8.0  | 30.0  | 15.0  | 21.0 | 16.0 | 13.0  | 22.0 | 16.0  | 13.0  | 11.0 | 9.0  | 9.0  | 12.3 | 30.0  | 6.0  |
| 14          | 7.0  | 7.0  | 4.0  | 0.0  | 3.0  | 7.0  | 6.0   | 6.0  | 9.0  | 11.0 | 11.0 | 8.0  | 7.0  | 8.0   | 8.0   | 10.0 | 10.0 | 10.0  | 10.0 | 16.0  | 15.0  | 15.0 | 15.0 | 20.0 | 9.3  | 20.0  | 0.0  |
| 15          | 22.0 | 15.0 | 12.0 | 13.0 | 17.0 | 13.0 | 12.0  | 18.0 | 21.0 | 15.0 | 11.0 | 17.0 | 26.0 | 23.0  | 37.0  | 73.0 | 68.0 | 65.0  | 38.0 | 25.0  | 11.0  | 10.0 | 12.0 | 12.0 | 24.4 | 73.0  | 10.0 |
| 16          | 10.0 | 8.0  | 8.0  | 10.0 | 11.0 | --   | 11.0  | 13.0 | 15.0 | 27.0 | 21.0 | 25.0 | 20.0 | 46.0  | 31.0  | 33.0 | 27.0 | 18.0  | 10.0 | 10.0  | 12.0  | 17.0 | 17.0 | 16.0 | 18.1 | 46.0  | 8.0  |
| 17          | 13.0 | 14.0 | 15.0 | 16.0 | 13.0 | 13.0 | 22.0  | 11.0 | 20.0 | 14.0 | 17.0 | 19.0 | 11.0 | 20.0  | --    | 21.0 | 14.0 | --    | 13.0 | 16.0  | 16.0  | 13.0 | 14.0 | 10.0 | 15.2 | 22.0  | 10.0 |
| 18          | 15.0 | 13.0 | 12.0 | 10.0 | 9.0  | 11.0 | 27.0  | 21.0 | 19.0 | 18.0 | 17.0 | --   | --   | 50.0  | 23.0  | 20.0 | 19.0 | 18.0  | 6.0  | 6.0   | 6.0   | 8.0  | 9.0  | 8.0  | 15.7 | 50.0  | 6.0  |
| 19          | 7.0  | 6.0  | 4.0  | 3.0  | 5.0  | 2.0  | 6.0   | 11.0 | 7.0  | 4.0  | 17.0 | 17.0 | 21.0 | 15.0  | 19.0  | -1.0 | 2.0  | 3.0   | 7.0  | 7.0   | 6.0   | 8.0  | 4.0  | 2.0  | 7.6  | 21.0  | -1.0 |
| 20          | 2.0  | 1.0  | 2.0  | 3.0  | 3.0  | 7.0  | 10.0  | 10.0 | 8.0  | 3.0  | 2.0  | 5.0  | 10.0 | 12.0  | 10.0  | 9.0  | 7.0  | 6.0   | 6.0  | 5.0   | 6.0   | 7.0  | 6.0  | 8.0  | 6.2  | 12.0  | 1.0  |
| 21          | 9.0  | 4.0  | 2.0  | 3.0  | 4.0  | 7.0  | 11.0  | 9.0  | 4.0  | 7.0  | 34.0 | 23.0 | 21.0 | 15.0  | 13.0  | 12.0 | 36.0 | 7.0   | 6.0  | 6.0   | 17.0  | 9.0  | 7.0  | 5.0  | 11.3 | 36.0  | 2.0  |
| 22          | 6.0  | 7.0  | 6.0  | 3.0  | 4.0  | 6.0  | 49.0  | 29.0 | 14.0 | 12.0 | 9.0  | 21.0 | 41.0 | 15.0  | 10.0  | 7.0  | 8.0  | 11.0  | 17.0 | 5.0   | 9.0   | 17.0 | 24.0 | 4.0  | 13.9 | 49.0  | 3.0  |
| 23          | 6.0  | 9.0  | 10.0 | 6.0  | 4.0  | 1.0  | 0.0   | 7.0  | 7.0  | 16.0 | --   | 9.0  | 18.0 | 20.0  | 43.0  | 23.0 | 29.0 | 6.0   | 7.0  | 11.0  | 12.0  | 48.0 | 19.0 | 5.0  | 13.7 | 48.0  | 0.0  |
| 24          | 6.0  | 9.0  | 9.0  | 6.0  | 6.0  | 30.0 | 61.0  | --   | 14.0 | 13.0 | 14.0 | 18.0 | 66.0 | 23.0  | 22.0  | 16.0 | 22.0 | 24.0  | 19.0 | 19.0  | 26.0  | 14.0 | 20.0 | 11.0 | 20.3 | 66.0  | 6.0  |
| 25          | 12.0 | 10.0 | 11.0 | 12.0 | 7.0  | 54.0 | 103.0 | 33.0 | 12.0 | 28.0 | 25.0 | 45.0 | 22.0 | 25.0  | 21.0  | 8.0  | 18.0 | 23.0  | 22.0 | 17.0  | 16.0  | 18.0 | 19.0 | 23.0 | 24.3 | 103.0 | 7.0  |
| 26          | 14.0 | 12.0 | 8.0  | 8.0  | 9.0  | --   | --    | --   | 9.0  | 9.0  | 7.0  | 8.0  | 34.0 | 32.0  | 21.0  | 16.0 | 18.0 | 15.0  | 13.0 | 11.0  | 13.0  | 11.0 | 11.0 | 17.0 | 14.1 | 34.0  | 7.0  |
| 27          | 24.0 | 4.0  | 5.0  | 4.0  | 4.0  | 6.0  | 3.0   | 3.0  | 3.0  | 1.0  | 2.0  | 3.0  | 3.0  | 3.0   | 8.0   | 9.0  | 3.0  | 0.0   | 2.0  | 4.0   | 17.0  | 8.0  | 8.0  | 18.0 | 6.0  | 24.0  | 0.0  |
| 28          | 19.0 | 8.0  | 18.0 | 18.0 | 16.0 | 8.0  | 147.0 | 14.0 | 12.0 | 7.0  | 19.0 | 14.0 | 24.0 | 10.0  | 12.0  | 11.0 | 7.0  | 6.0   | 6.0  | 7.0   | 11.0  | 9.0  | --   | 28.0 | 18.7 | 147.0 | 6.0  |
| 29          | 8.0  | 29.0 | 20.0 | 11.0 | 10.0 | --   | --    | 28.0 | 13.0 | --   | 20.0 | 22.0 | 21.0 | 11.0  | 9.0   | 11.0 | 13.0 | 13.0  | 17.0 | 20.0  | 12.0  | 60.0 | 11.0 | 15.0 | 17.8 | 60.0  | 8.0  |
| 30          | 17.0 | 16.0 | 25.0 | 21.0 | 21.0 | 31.0 | 32.0  | 49.0 | 27.0 | 41.0 | 22.0 | 17.0 | 21.0 | 63.0  | 91.0  | 22.0 | 15.0 | 16.0  | 24.0 | 167.0 | 19.0  | 31.0 | 9.0  | 7.0  | 33.5 | 167.0 | 7.0  |
| 31          | 6.0  | 6.0  | 7.0  | 9.0  | 9.0  | 11.0 | 12.0  | 17.0 | 24.0 | 17.0 | --   | 18.0 | 17.0 | 16.0  | 70.0  | 10.0 | --   | --    | --   | --    | --    | 28.0 | 40.0 | --   | --   | 70.0  | 6.0  |
| Avg         | 11.4 | 10.6 | 9.7  | 9.7  | 9.4  | 12.9 | 26.2  | 17.8 | 13.2 | 14.7 | 15.2 | 18.8 | 24.0 | 26.8  | 29.4  | 20.1 | 19.2 | 18.2  | 18.3 | 23.2  | 18.2  | 21.0 | 16.5 | 14.3 | 17.3 | --    | --   |
| Max         | 30.0 | 29.0 | 27.0 | 30.0 | 27.0 | 54.0 | 147.0 | 49.0 | 31.0 | 43.0 | 34.0 | 46.0 | 66.0 | 116.0 | 140.0 | 73.0 | 79.0 | 107.0 | 98.0 | 167.0 | 124.0 | 78.0 | 84.0 | 58.0 | --   | 167.0 | --   |
| Min         | 2.0  | 1.0  | 2.0  | 0.0  | 3.0  | 1.0  | 0.0   | 3.0  | 2.0  | 1.0  | 2.0  | 3.0  | 3.0  | 3.0   | 7.0   | -1.0 | 2.0  | 0.0   | 2.0  | 4.0   | 4.0   | 4.0  | 4.0  | 2.0  | --   | --    | -1.0 |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: Jun 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           | 13.0 | --   | --   | --   | 12.0 | 19.0  | 23.0  | 20.0  | 22.0 | 18.0 | 18.0 | 20.0 | 45.0 | 38.0 | 56.0  | 95.0  | 23.0 | 17.0 | 23.0 | 20.0 | 17.0 | --   | 25.0 | 23.0 | 27.4 | 95.0  | 12.0 |
| 2           | 16.0 | 14.0 | 12.0 | 10.0 | 12.0 | 26.0  | 37.0  | 18.0  | 21.0 | 21.0 | 18.0 | 24.0 | 20.0 | 50.0 | 36.0  | --    | 18.0 | 22.0 | 19.0 | 23.0 | 20.0 | 30.0 | 47.0 | 22.0 | 23.3 | 50.0  | 10.0 |
| 3           | 26.0 | 17.0 | 11.0 | 15.0 | --   | 19.0  | 52.0  | 20.0  | 19.0 | 20.0 | 20.0 | 21.0 | --   | 25.0 | 15.0  | 27.0  | 19.0 | 16.0 | 17.0 | 27.0 | 15.0 | --   | 15.0 | 14.0 | 20.5 | 52.0  | 11.0 |
| 4           | 19.0 | 15.0 | 17.0 | 21.0 | 23.0 | 22.0  | 39.0  | 18.0  | 14.0 | 13.0 | 12.0 | 17.0 | 23.0 | 11.0 | 13.0  | 17.0  | 22.0 | 14.0 | 29.0 | 20.0 | --   | 15.0 | 17.0 | --   | 18.7 | 39.0  | 11.0 |
| 5           | 11.0 | 66.0 | 11.0 | 21.0 | 19.0 | 22.0  | 49.0  | 12.0  | 13.0 | 41.0 | 27.0 | 48.0 | 27.0 | 49.0 | 30.0  | 18.0  | 23.0 | 24.0 | --   | 21.0 | 16.0 | --   | 13.0 | 17.0 | 26.3 | 66.0  | 11.0 |
| 6           | 13.0 | 21.0 | 17.0 | 12.0 | 22.0 | 12.0  | 44.0  | --    | --   | 11.0 | 59.0 | --   | --   | --   | --    | 19.0  | 17.0 | 47.0 | 19.0 | 15.0 | 17.0 | 37.0 | 20.0 | 18.0 | 23.3 | 59.0  | 11.0 |
| 7           | --   | 14.0 | --   | --   | 14.0 | 33.0  | 66.0  | 22.0  | 14.0 | 13.0 | 12.0 | --   | 21.0 | 41.0 | --    | 18.0  | --   | --   | 19.0 | 19.0 | 17.0 | 19.0 | 15.0 | 20.0 | --   | 66.0  | 12.0 |
| 8           | --   | 16.0 | 31.0 | 26.0 | 19.0 | 18.0  | 29.0  | 28.0  | --   | --   | --   | --   | --   | 89.0 | 27.0  | 180.0 | 11.0 | 23.0 | 25.0 | 17.0 | 11.0 | 21.0 | 11.0 | 13.0 | 33.1 | 180.0 | 11.0 |
| 9           | 16.0 | 9.0  | 10.0 | 12.0 | 15.0 | 13.0  | 71.0  | 12.0  | 11.0 | 8.0  | 16.0 | 20.0 | 20.0 | 25.0 | 25.0  | 25.0  | 20.0 | 21.0 | 19.0 | 12.0 | 12.0 | 16.0 | 25.0 | 28.0 | 19.2 | 71.0  | 8.0  |
| 10          | 17.0 | 17.0 | 14.0 | 12.0 | 9.0  | 8.0   | 34.0  | 5.0   | 5.0  | 6.0  | 7.0  | 5.0  | 5.0  | 17.0 | 11.0  | 40.0  | 18.0 | 16.0 | 15.0 | 14.0 | 19.0 | 15.0 | 19.0 | 18.0 | 14.4 | 40.0  | 5.0  |
| 11          | 21.0 | 10.0 | 9.0  | 8.0  | 9.0  | 10.0  | 11.0  | 9.0   | 8.0  | 11.0 | 8.0  | 6.0  | 7.0  | 8.0  | 11.0  | 26.0  | 34.0 | 27.0 | 31.0 | 63.0 | 48.0 | 24.0 | 23.0 | 18.0 | 18.3 | 63.0  | 6.0  |
| 12          | 15.0 | 13.0 | 6.0  | 2.0  | 6.0  | 2.0   | 44.0  | 7.0   | 7.0  | 9.0  | 9.0  | 23.0 | 25.0 | 25.0 | 21.0  | 37.0  | 6.0  | 16.0 | 6.0  | 17.0 | 19.0 | 19.0 | 13.0 | 12.0 | 15.0 | 44.0  | 2.0  |
| 13          | 22.0 | 11.0 | 10.0 | 11.0 | 11.0 | 11.0  | 30.0  | 16.0  | 26.0 | 20.0 | 14.0 | 9.0  | 32.0 | 19.0 | 11.0  | 21.0  | 9.0  | --   | --   | --   | --   | --   | --   | --   | --   | 32.0  | 9.0  |
| 14          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 15          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | 39.0 | 20.0  | 12.0  | 11.0 | 11.0 | 11.0 | 12.0 | 22.0 | 16.0 | 27.0 | 14.0 | --   | 39.0  | 11.0 |
| 16          | 14.0 | 12.0 | 19.0 | 8.0  | 9.0  | 11.0  | 72.0  | 114.0 | 20.0 | 15.0 | 28.0 | 28.0 | 17.0 | 44.0 | 31.0  | 16.0  | 24.0 | 12.0 | 8.0  | 9.0  | 11.0 | 26.0 | 38.0 | 11.0 | 24.9 | 114.0 | 8.0  |
| 17          | 10.0 | 11.0 | 12.0 | 13.0 | 13.0 | 25.0  | 66.0  | 9.0   | 11.0 | 12.0 | 16.0 | 12.0 | 19.0 | 23.0 | 19.0  | 53.0  | 17.0 | 15.0 | 17.0 | 14.0 | 21.0 | 10.0 | 12.0 | 13.0 | 18.5 | 66.0  | 9.0  |
| 18          | 17.0 | 17.0 | 15.0 | 9.0  | 59.0 | 113.0 | 59.0  | 22.0  | 17.0 | 31.0 | 15.0 | 17.0 | 15.0 | 11.0 | 18.0  | 20.0  | 26.0 | 22.0 | 23.0 | 21.0 | 46.0 | 15.0 | 18.0 | 28.0 | 27.2 | 113.0 | 9.0  |
| 19          | 16.0 | 15.0 | 13.0 | 27.0 | 13.0 | 49.0  | 172.0 | 60.0  | 14.0 | 21.0 | 25.0 | 39.0 | 13.0 | 27.0 | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | 172.0 | 13.0 |
| 20          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 21          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 22          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 23          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 24          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 25          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 26          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 27          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 28          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | --    | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |
| 29          | --   | --   | --   | --   | --   | --    | --    | --    | --   | --   | --   | --   | --   | --   | 119.0 | 44.0  | 12.0 | 13.0 | 12.0 | 18.0 | 19.0 | 17.0 | 31.0 | 21.0 | --   | 119.0 | 12.0 |
| 30          | 18.0 | 16.0 | 13.0 | 12.0 | 15.0 | 19.0  | 27.0  | 12.0  | 33.0 | 25.0 | 18.0 | 35.0 | 15.0 | 36.0 | 17.0  | 20.0  | 14.0 | 10.0 | 10.0 | 12.0 | 12.0 | 8.0  | 7.0  | 24.0 | 17.8 | 36.0  | 7.0  |
| Avg         | 16.5 | 17.3 | 13.8 | 13.7 | 16.5 | 24.0  | 51.4  | 23.8  | 15.9 | 17.4 | 18.9 | 21.6 | 20.3 | 32.1 | 28.2  | 38.2  | 18.0 | 19.2 | 17.8 | 19.7 | 20.1 | 19.2 | 20.9 | 18.5 | 21.9 | --    | --   |
| Max         | 26.0 | 66.0 | 31.0 | 27.0 | 59.0 | 113.0 | 172.0 | 114.0 | 33.0 | 41.0 | 59.0 | 48.0 | 45.0 | 89.0 | 119.0 | 180.0 | 34.0 | 47.0 | 31.0 | 63.0 | 48.0 | 37.0 | 47.0 | 28.0 | --   | 180.0 | --   |
| Min         | 10.0 | 9.0  | 6.0  | 2.0  | 6.0  | 2.0   | 11.0  | 5.0   | 5.0  | 6.0  | 7.0  | 5.0  | 5.0  | 8.0  | 11.0  | 12.0  | 6.0  | 10.0 | 6.0  | 9.0  | 11.0 | 8.0  | 7.0  | 11.0 | --   | --    | 2.0  |

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table125, West\_Plant\_conc\_PM10\_STP"**  
**Month: Apr 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           | --   | --   | --   | --   | 16.8 | 23.1 | 28.4  | 29.7  | --   | --   | --   | --   | 24.8 | 24.8 | 20.5  | 39.8  | 18.4 | 14.1 | 19.4  | 20.4 | 12.8 | 20.2 | 18.1 | 17.0 | --   | 39.8  | 12.8 |
| 2           | 6.4  | 10.6 | 12.7 | 17.9 | 21.0 | 16.8 | 35.8  | 16.9  | 10.7 | 24.8 | --   | 19.5 | 17.4 | 17.5 | 17.5  | 18.7  | 25.3 | 18.7 | 19.7  | 27.3 | --   | 15.2 | 17.3 | 12.9 | 18.2 | 35.8  | 6.4  |
| 3           | 11.8 | 11.9 | 9.7  | 8.6  | 17.1 | 11.8 | 12.9  | 27.0  | 10.9 | 9.8  | 31.7 | 24.2 | 21.1 | 55.7 | 53.5  | 36.9  | 28.0 | 27.9 | 27.8  | --   | 23.1 | 70.0 | 15.2 | 14.1 | 24.4 | 70.0  | 8.6  |
| 4           | 12.9 | 10.7 | 7.5  | 6.4  | 5.3  | 3.2  | 7.4   | 7.4   | 7.5  | 21.5 | 19.4 | 4.3  | 26.2 | 61.2 | 54.7  | 15.3  | 7.6  | 5.5  | 7.6   | 4.3  | 5.4  | 9.6  | 8.6  | 2.1  | 13.4 | 61.2  | 2.1  |
| 5           | 1.1  | 6.4  | 8.6  | 9.7  | 8.6  | 3.2  | 3.2   | 9.6   | 18.3 | --   | --   | --   | --   | --   | --    | --    | --   | --   | --    | --   | --   | --   | --   | --   | --   | 18.3  | 1.1  |
| 6           | --   | --   | --   | --   | --   | --   | --    | 16.3  | 6.6  | 35.2 | 16.6 | 12.3 | 7.9  | 9.0  | 25.9  | 3.4   | 9.0  | 13.5 | 19.0  | 33.2 | 29.6 | 45.9 | 18.6 | 9.8  | --   | 45.9  | 3.4  |
| 7           | 10.9 | --   | --   | 13.0 | 10.8 | 42.1 | 94.8  | 19.6  | 12.1 | 13.2 | 14.4 | 17.8 | 14.5 | 13.4 | 9.0   | 6.7   | 10.1 | 8.9  | 21.1  | 13.2 | 24.2 | 6.6  | 25.1 | 10.9 | 18.7 | 94.8  | 6.6  |
| 8           | 13.1 | 14.1 | 14.1 | 11.9 | 10.8 | 13.0 | 32.4  | 9.8   | 12.0 | 12.1 | 8.9  | 5.6  | 5.6  | 9.0  | 11.2  | 19.0  | 16.8 | 13.4 | 12.2  | 13.2 | 16.5 | 17.5 | 15.3 | 25.0 | 13.8 | 32.4  | 5.6  |
| 9           | 17.3 | 10.8 | 9.7  | 18.2 | 19.3 | 21.3 | 41.6  | 18.2  | 22.7 | 17.4 | 16.4 | 18.6 | 21.9 | 17.6 | 16.5  | 20.9  | 26.4 | 20.9 | 16.4  | 23.9 | 36.8 | 23.7 | 19.4 | 23.6 | 20.8 | 41.6  | 9.7  |
| 10          | 24.6 | 20.3 | 22.5 | 18.2 | 19.2 | 19.2 | 41.6  | 23.7  | 29.2 | 22.9 | 30.7 | 25.3 | 32.0 | 18.8 | 32.2  | 20.0  | 15.6 | 17.7 | 12.1  | 22.0 | 21.8 | 18.4 | 21.6 | 16.2 | 22.7 | 41.6  | 12.1 |
| 11          | 23.7 | 18.3 | 18.3 | 20.4 | 16.1 | 17.2 | 22.7  | --    | 28.4 | 18.7 | 23.2 | 26.8 | 11.2 | 22.5 | 18.0  | 64.1  | 18.0 | 42.5 | 23.4  | 18.8 | 22.0 | 14.2 | 26.2 | 16.3 | 23.1 | 64.1  | 11.2 |
| 12          | 10.9 | 13.0 | 18.4 | 18.4 | 13.0 | 22.8 | 50.8  | 21.8  | 19.8 | 21.0 | 21.1 | 35.7 | 14.6 | --   | 66.3  | 23.6  | 10.1 | 20.2 | 29.0  | 20.0 | 16.6 | 14.3 | 18.6 | 16.4 | 22.4 | 66.3  | 10.1 |
| 13          | 15.3 | 12.0 | 12.0 | 13.1 | 14.2 | 13.1 | 12.0  | 31.7  | 23.1 | 21.1 | 29.0 | 15.8 | 19.2 | 14.7 | 40.6  | 27.1  | 28.2 | 34.9 | 39.3  | 23.4 | 22.2 | 46.3 | 17.6 | 18.6 | 22.7 | 46.3  | 12.0 |
| 14          | 17.4 | 16.3 | 16.3 | 13.0 | 11.9 | 13.0 | 20.6  | 15.3  | 23.1 | 14.4 | 17.8 | 32.3 | 15.6 | 16.9 | 42.6  | 27.0  | 20.2 | 34.8 | 20.2  | 21.1 | 24.3 | 26.4 | 29.5 | 24.0 | 21.4 | 42.6  | 11.9 |
| 15          | 17.4 | 20.6 | 18.4 | 15.1 | 13.0 | 73.1 | 29.1  | 17.4  | 16.4 | 8.8  | 25.5 | 14.5 | 24.5 | 13.4 | 13.4  | 12.3  | 21.3 | 21.2 | 20.0  | 49.7 | 24.3 | 20.8 | 20.7 | 25.0 | 22.3 | 73.1  | 8.8  |
| 16          | 19.5 | 18.4 | 17.3 | 16.2 | 16.2 | 17.2 | 92.6  | 21.8  | 17.6 | 24.3 | 8.9  | 17.8 | --   | 16.8 | 16.8  | 15.7  | 13.5 | --   | --    | 38.8 | 25.4 | 40.5 | 19.6 | 16.3 | 23.4 | 92.6  | 8.9  |
| 17          | 15.2 | 12.0 | 13.0 | 23.8 | 13.0 | 10.8 | 118.0 | 19.7  | 13.2 | 34.2 | 26.6 | 8.9  | 31.3 | 24.6 | 30.3  | 19.1  | 13.5 | 26.9 | 16.7  | 22.2 | 7.7  | 11.0 | 12.0 | 10.9 | 22.3 | 118.0 | 7.7  |
| 18          | 13.1 | 10.9 | 7.6  | 5.4  | 7.6  | 12.0 | 41.3  | 39.3  | 39.6 | 25.5 | 15.6 | 25.7 | 50.3 | 15.7 | 28.1  | 25.9  | 22.5 | 19.1 | 15.7  | 14.5 | 13.3 | 12.1 | 12.1 | 18.7 | 20.5 | 50.3  | 5.4  |
| 19          | 18.6 | 21.8 | 17.4 | 13.1 | 19.5 | 16.2 | 42.2  | 20.8  | 26.4 | 28.7 | 22.1 | 37.8 | 29.0 | 33.5 | 43.7  | 170.0 | 15.7 | 19.0 | 18.9  | 18.8 | --   | 9.9  | 10.9 | --   | 29.7 | 170.0 | 9.9  |
| 20          | 14.1 | --   | --   | 13.0 | 13.0 | 16.2 | 79.0  | 83.9  | 18.7 | 10.0 | 18.8 | 15.6 | --   | 36.9 | 26.9  | 15.7  | --   | 17.9 | --    | --   | 21.0 | --   | 18.6 | --   | --   | 83.9  | 10.0 |
| 21          | 12.0 | 9.8  | 9.8  | 10.8 | 9.8  | 11.9 | --    | 23.0  | 15.5 | 15.6 | 20.1 | 17.9 | 23.6 | 41.7 | 30.5  | 13.6  | 20.3 | 23.7 | 16.8  | 17.9 | 18.9 | 37.6 | 16.6 | 15.4 | 18.8 | 41.7  | 9.8  |
| 22          | 14.2 | 16.4 | 10.9 | 8.7  | 17.4 | 6.5  | 24.0  | 11.0  | 8.9  | 7.8  | 10.1 | 12.4 | 14.7 | 15.9 | 14.8  | 21.7  | 19.4 | 11.4 | 26.0  | 12.3 | 13.4 | 15.5 | 14.4 | 13.2 | 14.2 | 26.0  | 6.5  |
| 23          | 11.0 | 18.9 | 11.1 | 10.0 | 21.0 | 37.5 | 56.0  | 132.0 | 65.3 | 42.3 | 38.1 | 37.3 | 23.8 | 25.1 | 18.3  | 25.3  | 13.7 | 24.0 | 38.7  | 9.0  | 11.2 | 75.1 | 22.3 | 20.0 | 32.8 | 132.0 | 9.0  |
| 24          | 17.7 | 9.9  | 8.8  | 8.8  | 7.7  | 6.6  | 18.7  | 16.6  | --   | --   | --   | 46.1 | 56.4 | 87.1 | 88.2  | 31.7  | 29.4 | 25.9 | 27.0  | 25.7 | 16.7 | 18.9 | 17.8 | 21.0 | 27.9 | 88.2  | 6.6  |
| 25          | 14.3 | 18.7 | 14.3 | 18.7 | 18.6 | 21.9 | 29.5  | 30.6  | 49.2 | 48.3 | 67.2 | 70.7 | 96.5 | 97.9 | 143.0 | 88.2  | 72.6 | 75.9 | 67.9  | 47.7 | 38.7 | 22.0 | 23.0 | 21.8 | 49.9 | 143.0 | 14.3 |
| 26          | 7.6  | 9.8  | 8.7  | 6.5  | 6.5  | 5.4  | 9.7   | 25.0  | 11.0 | 28.6 | 9.9  | 24.4 | 18.9 | 42.4 | 19.0  | 17.9  | 16.8 | 12.3 | 10.0  | 11.1 | 14.4 | 11.0 | 7.7  | 9.9  | 14.4 | 42.4  | 5.4  |
| 27          | 9.9  | 8.8  | 17.5 | 20.8 | 13.1 | 13.1 | 23.0  | 18.7  | 15.5 | 22.2 | 20.1 | 21.3 | --   | 65.4 | 54.1  | 37.2  | 31.6 | 42.7 | 23.6  | 32.4 | 22.3 | 24.5 | 20.0 | 32.2 | 25.7 | 65.4  | 8.8  |
| 28          | 27.7 | 17.7 | 14.3 | 12.1 | 13.2 | 13.2 | 26.3  | 29.6  | 33.0 | 37.5 | 24.3 | 24.3 | 44.1 | 52.2 | 79.3  | 62.7  | 99.8 | 95.0 | 572.0 | 83.5 | 30.6 | 20.6 | 11.9 | 9.7  | 59.8 | 572.0 | 9.7  |
| 29          | 9.7  | 10.7 | 8.6  | 6.4  | 7.5  | 9.5  | 9.5   | 7.5   | 4.3  | 4.3  | 3.3  | 3.3  | 36.1 | 6.6  | 6.6   | 19.7  | 12.0 | 7.7  | 6.6   | 6.5  | 7.6  | 7.6  | 5.4  | 7.5  | 8.9  | 36.1  | 3.3  |
| 30          | 11.8 | 7.5  | 4.3  | 5.4  | 4.3  | 5.3  | 70.4  | 13.0  | 14.1 | 9.8  | 1.1  | 5.5  | 8.8  | 6.6  | 7.8   | 8.9   | 7.8  | 8.9  | 7.7   | 18.7 | 25.2 | 37.1 | 14.1 | 10.8 | 13.1 | 70.4  | 1.1  |
| Avg         | 14.3 | 13.7 | 12.8 | 13.0 | 13.3 | 17.1 | 38.3  | 26.1  | 20.5 | 21.5 | 20.8 | 22.2 | 26.5 | 30.8 | 35.5  | 31.3  | 23.0 | 25.2 | 42.0  | 24.1 | 20.2 | 24.7 | 17.2 | 16.3 | 23.3 | --    | --   |
| Max         | 27.7 | 21.8 | 22.5 | 23.8 | 21.0 | 73.1 | 118.0 | 132.0 | 65.3 | 48.3 | 67.2 | 70.7 | 96.5 | 97.9 | 143.0 | 170.0 | 99.8 | 95.0 | 572.0 | 83.5 | 38.7 | 75.1 | 29.5 | 32.2 | --   | 572.0 | --   |
| Min         | 1.1  | 6.4  | 4.3  | 5.4  | 4.3  | 3.2  | 3.2   | 7.4   | 4.3  | 4.3  | 1.1  | 3.3  | 5.6  | 6.6  | 6.6   | 3.4   | 7.6  | 5.5  | 6.6   | 4.3  | 5.4  | 6.6  | 5.4  | 2.1  | --   | --    | 1.1  |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table125, West\_Plant\_conc\_PM10\_STP"**  
**Month: May 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           | 7.6  | 7.6  | 5.4  | 6.5  | 7.6  | 18.3 | 26.0  | 12.1 | 22.0 | 6.7  | 16.6 | 25.6 | --   | 39.2  | 37.1  | 40.5 | 11.3 | 13.5  | 14.6  | 14.5  | 12.2  | 22.1 | 7.7  | 9.9  | 16.7 | 40.5  | 5.4  |
| 2           | 10.9 | 7.7  | 5.5  | 4.4  | 6.5  | 9.8  | 21.9  | 13.3 | 18.9 | 17.8 | 14.5 | 37.1 | 38.3 | 46.4  | 26.0  | 35.1 | 18.1 | 18.1  | 14.7  | 14.6  | 13.4  | 36.6 | 10.0 | 11.1 | 18.8 | 46.4  | 4.4  |
| 3           | 12.1 | 9.9  | 8.8  | 19.7 | 13.1 | 14.2 | 18.6  | 36.4 | 10.0 | 9.0  | 5.6  | 34.9 | 43.0 | 33.0  | 67.2  | 5.7  | 8.0  | 5.7   | 6.8   | 13.5  | 21.3  | 14.5 | 13.4 | 17.8 | 18.4 | 67.2  | 5.6  |
| 4           | 12.2 | 10.0 | 7.8  | 8.8  | 7.7  | 9.9  | 17.7  | 31.1 | 15.7 | 15.8 | 17.0 | 13.6 | 20.6 | 9.2   | 27.5  | 8.0  | 8.0  | 9.2   | 11.4  | 11.3  | 17.0  | 9.0  | 11.2 | 11.2 | 13.4 | 31.1  | 7.7  |
| 5           | 10.0 | 12.3 | 8.9  | 16.8 | 14.6 | 17.9 | 19.0  | 35.9 | 22.6 | 48.8 | 30.9 | 25.3 | 22.0 | 30.1  | 22.1  | 25.5 | 26.6 | 39.3  | 40.3  | 27.5  | 26.2  | 30.7 | 20.4 | 19.2 | 24.7 | 48.8  | 8.9  |
| 6           | 12.4 | 12.3 | 8.9  | 8.9  | 11.1 | 12.2 | 13.3  | 16.8 | 15.7 | 19.2 | 28.4 | 44.4 | 46.9 | 61.0  | 31.1  | 71.4 | 90.7 | 122.0 | 111.0 | 184.0 | 138.0 | 86.4 | 92.8 | 63.7 | 54.3 | 184.0 | 8.9  |
| 7           | 23.0 | 29.4 | 14.1 | 14.1 | 13.0 | 18.3 | 18.4  | 11.9 | 12.0 | 16.4 | 18.6 | 23.0 | 55.8 | 127.0 | 153.0 | 67.7 | 38.3 | 22.9  | 33.8  | 33.7  | 36.9  | 41.1 | 38.9 | 36.6 | 37.4 | 153.0 | 11.9 |
| 8           | 32.3 | 31.1 | 29.0 | 32.3 | 29.0 | 31.2 | 44.1  | 32.4 | 33.6 | 41.5 | 30.8 | 50.7 | 60.9 | 42.3  | 40.1  | 30.1 | 26.3 | 20.8  | 24.1  | 17.4  | 28.2  | 18.3 | 8.6  | 7.5  | 30.9 | 60.9  | 7.5  |
| 9           | 8.5  | 8.5  | 7.4  | 8.5  | 8.5  | 7.4  | 5.3   | 7.5  | 7.5  | 6.4  | 6.4  | 5.4  | 6.5  | 6.5   | 26.0  | 14.1 | 9.7  | 4.3   | 3.2   | 4.3   | 4.3   | 4.3  | 4.3  | 3.2  | 7.4  | 26.0  | 3.2  |
| 10          | 4.3  | 4.3  | 5.3  | 5.3  | 4.2  | 3.2  | 23.3  | 19.2 | 2.1  | 5.4  | 10.7 | 11.9 | 10.8 | 7.6   | 17.4  | 9.8  | 12.0 | 17.4  | 41.3  | 14.1  | 13.0  | 12.9 | 12.9 | 6.4  | 11.4 | 41.3  | 2.1  |
| 11          | 5.3  | 7.5  | 6.4  | 7.5  | 6.4  | 3.2  | 34.3  | 6.5  | 7.6  | 6.6  | 11.0 | 14.4 | --   | --    | 7.8   | 7.8  | 12.3 | 14.5  | 23.4  | 15.5  | 17.7  | 16.5 | 23.0 | 18.6 | 12.4 | 34.3  | 3.2  |
| 12          | 14.2 | 12.0 | 10.9 | 10.9 | 13.1 | 12.0 | 19.7  | 29.7 | 10.0 | 19.0 | 16.9 | 13.6 | 9.1  | 9.1   | 12.5  | 13.7 | 14.8 | 20.5  | 17.0  | 15.8  | 13.5  | 48.0 | 22.3 | 26.7 | 16.9 | 48.0  | 9.1  |
| 13          | 10.0 | 12.2 | 14.3 | 15.4 | 14.3 | 10.9 | 6.6   | 7.8  | 10.1 | 7.8  | 6.8  | 9.1  | 9.1  | 34.2  | 17.1  | 24.0 | 18.3 | 14.9  | 25.0  | 18.1  | 14.6  | 12.3 | 10.0 | 10.0 | 13.9 | 34.2  | 6.6  |
| 14          | 7.7  | 7.7  | 4.4  | 0.0  | 3.3  | 7.7  | 6.6   | 6.6  | 10.0 | 12.3 | 12.3 | 9.0  | 7.9  | 9.0   | 9.0   | 11.3 | 11.3 | 11.3  | 11.3  | 18.0  | 16.7  | 16.6 | 16.5 | 22.0 | 10.3 | 22.0  | 0.0  |
| 15          | 24.1 | 16.4 | 13.1 | 14.1 | 18.4 | 14.1 | 13.1  | 19.8 | 23.2 | 16.7 | 12.3 | 19.1 | 29.3 | 26.0  | 41.8  | 82.1 | 76.2 | 72.5  | 42.1  | 27.6  | 12.1  | 10.9 | 13.0 | 13.0 | 27.1 | 82.1  | 10.9 |
| 16          | 10.8 | 8.6  | 8.6  | 10.7 | 11.8 | --   | 11.8  | 14.0 | 16.1 | 29.0 | 22.6 | 27.1 | 21.8 | 50.2  | 33.9  | 36.1 | 29.6 | 19.7  | 10.9  | 10.9  | 13.0  | 18.3 | 18.3 | 17.2 | 19.6 | 50.2  | 8.6  |
| 17          | 14.0 | 15.0 | 16.1 | 17.1 | 13.9 | 13.9 | 23.6  | 11.9 | 21.7 | 15.3 | 18.6 | 20.9 | 12.2 | 22.2  | --    | 23.5 | 15.7 | --    | 14.5  | 17.8  | 17.7  | 14.3 | 15.4 | 11.0 | 16.6 | 23.6  | 11.0 |
| 18          | 16.4 | 14.2 | 13.1 | 10.9 | 9.8  | 11.9 | 29.3  | 22.9 | 20.8 | 19.7 | 18.7 | --   | --   | 55.6  | 25.6  | 22.3 | 21.2 | 20.1  | 6.7   | 6.6   | 6.6   | 8.8  | 9.8  | 8.7  | 17.3 | 55.6  | 6.6  |
| 19          | 7.6  | 6.5  | 4.3  | 3.2  | 5.4  | 2.1  | 6.4   | 11.9 | 7.6  | 4.4  | 18.6 | 18.7 | 23.2 | 16.7  | 21.2  | -1.1 | 2.2  | 3.4   | 7.8   | 7.7   | 6.6   | 8.8  | 4.4  | 2.2  | 8.3  | 23.2  | -1.1 |
| 20          | 2.2  | 1.1  | 2.2  | 3.3  | 3.3  | 7.7  | 11.0  | 11.0 | 8.8  | 3.3  | 2.2  | 5.6  | 11.3 | 13.5  | 11.3  | 10.2 | 7.9  | 6.8   | 6.8   | 5.6   | 6.7   | 7.8  | 6.6  | 8.8  | 6.9  | 13.5  | 1.1  |
| 21          | 9.9  | 4.4  | 2.2  | 3.3  | 4.4  | 7.7  | 12.1  | 10.0 | 4.5  | 7.9  | 38.5 | 26.1 | 23.9 | 17.1  | 14.9  | 13.7 | 41.2 | 8.0   | 6.8   | 6.8   | 19.1  | 10.0 | 7.8  | 5.6  | 12.7 | 41.2  | 2.2  |
| 22          | 6.7  | 7.8  | 6.6  | 3.3  | 4.4  | 6.6  | 54.2  | 32.3 | 15.8 | 13.6 | 10.2 | 23.9 | 46.9 | 17.2  | 11.5  | 8.1  | 9.2  | 12.6  | 19.4  | 5.7   | 10.2  | 19.2 | 26.9 | 4.5  | 15.7 | 54.2  | 3.3  |
| 23          | 6.7  | 10.1 | 11.2 | 6.7  | 4.5  | 1.1  | 0.0   | 7.8  | 7.9  | 18.1 | --   | 10.3 | 20.6 | 23.0  | 49.5  | 26.5 | 33.4 | 6.9   | 8.0   | 12.5  | 13.6  | 54.0 | 21.4 | 5.6  | 15.6 | 54.0  | 0.0  |
| 24          | 6.8  | 10.1 | 10.1 | 6.7  | 6.7  | 33.3 | 67.9  | --   | 15.8 | 14.8 | 16.0 | 20.7 | 76.0 | 26.6  | 25.5  | 18.5 | 25.5 | 27.8  | 22.0  | 21.9  | 29.8  | 16.0 | 22.7 | 12.4 | 23.2 | 76.0  | 6.7  |
| 25          | 13.5 | 11.2 | 12.3 | 13.4 | 7.8  | 60.0 | 115.0 | 37.0 | 13.5 | 31.7 | 28.3 | 51.0 | 25.1 | 28.6  | 24.1  | 9.2  | 20.7 | 26.3  | 25.1  | 19.3  | 18.0  | 20.2 | 21.2 | 25.5 | 27.4 | 115.0 | 7.8  |
| 26          | 15.5 | 13.3 | 8.8  | 8.8  | 9.9  | --   | --    | --   | 10.0 | 10.1 | 7.9  | 9.0  | 38.5 | 36.3  | 23.8  | 18.2 | 20.4 | 17.0  | 14.7  | 12.3  | 14.5  | 12.2 | 12.1 | 18.7 | 15.8 | 38.5  | 7.9  |
| 27          | 26.4 | 4.4  | 5.4  | 4.4  | 4.4  | 6.5  | 3.3   | 3.3  | 3.3  | 1.1  | 2.2  | 3.4  | 3.4  | 3.4   | 9.1   | 10.2 | 3.4  | 0.0   | 2.3   | 4.5   | 19.0  | 8.9  | 8.9  | 19.9 | 6.7  | 26.4  | 0.0  |
| 28          | 21.0 | 8.8  | 19.8 | 19.8 | 17.6 | 8.8  | 162.0 | 15.5 | 13.4 | 7.9  | 21.5 | 15.9 | 27.3 | 11.4  | 13.7  | 12.6 | 8.0  | 6.9   | 6.8   | 7.9   | 12.4  | 10.1 | --   | 31.2 | 20.9 | 162.0 | 6.8  |
| 29          | 8.9  | 32.2 | 22.2 | 12.2 | 11.1 | --   | --    | 31.4 | 14.7 | --   | 22.9 | 25.3 | 24.2 | 12.7  | 10.4  | 12.7 | 15.0 | 15.0  | 19.5  | 22.8  | 13.6  | 67.7 | 12.4 | 16.9 | 20.2 | 67.7  | 8.9  |
| 30          | 19.1 | 18.0 | 28.1 | 23.6 | 23.5 | 34.6 | 35.8  | 54.9 | 30.4 | 46.4 | 25.0 | 19.4 | 24.1 | 72.2  | 104.0 | 25.3 | 17.2 | 18.3  | 27.4  | 188.0 | 21.3  | 34.6 | 10.0 | 7.8  | 37.9 | 188.0 | 7.8  |
| 31          | 6.7  | 6.7  | 7.8  | 10.0 | 10.0 | 12.2 | 13.4  | 19.0 | 27.0 | 19.2 | --   | 20.5 | 19.5 | 18.3  | 80.4  | 11.5 | --   | --    | --    | --    | --    | 31.5 | 44.8 | --   | --   | 80.4  | 6.7  |
| Avg         | 12.5 | 11.6 | 10.6 | 10.7 | 10.3 | 14.2 | 28.7  | 19.6 | 14.6 | 16.4 | 17.0 | 21.2 | 27.1 | 30.2  | 33.2  | 22.7 | 21.8 | 20.6  | 20.6  | 26.0  | 20.2  | 23.3 | 18.3 | 15.8 | 19.3 | --    | --   |
| Max         | 32.3 | 32.2 | 29.0 | 32.3 | 29.0 | 60.0 | 162.0 | 54.9 | 33.6 | 48.8 | 38.5 | 51.0 | 76.0 | 127.0 | 153.0 | 82.1 | 90.7 | 122.0 | 111.0 | 188.0 | 138.0 | 86.4 | 92.8 | 63.7 | --   | 188.0 | --   |
| Min         | 2.2  | 1.1  | 2.2  | 0.0  | 3.3  | 1.1  | 0.0   | 3.3  | 2.1  | 1.1  | 2.2  | 3.4  | 3.4  | 3.4   | 7.8   | -1.1 | 2.2  | 0.0   | 2.3   | 4.3   | 4.3   | 4.3  | 4.3  | 2.2  | --   | --    | -1.1 |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table125, West\_Plant\_conc\_PM10\_STP"**  
**Month: Jun 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           | 14.5 | --   | --   | --   | 13.3 | 21.1 | 25.5 | 22.3 | 24.7 | 20.3 | 20.4 | 22.8 | 51.3 | 43.4  | 64.0 | 109.0 | 26.3 | 19.4 | 26.2 | 22.6 | 19.1 | --   | 27.9 | 25.6 | 31.0 | 109.0 | 13.3 |      |
| 2           | 17.7 | 15.5 | 13.2 | 11.0 | 13.1 | 28.5 | 40.7 | 19.9 | 23.4 | 23.6 | 20.3 | 27.2 | 22.8 | 57.2  | 41.2 | --    | 20.7 | 25.2 | 21.7 | 26.2 | 22.7 | 33.9 | 52.9 | 24.7 | 26.2 | 57.2  | 11.0 |      |
| 3           | 29.1 | 19.0 | 12.3 | 16.7 | --   | 21.0 | 57.9 | 22.4 | 21.4 | 22.7 | 22.8 | 24.1 | --   | 28.9  | 17.4 | 31.3  | 22.0 | 18.5 | 19.6 | 31.0 | 17.2 | --   | 17.1 | 15.8 | 23.2 | 57.9  | 12.3 |      |
| 4           | 21.4 | 16.9 | 19.1 | 23.4 | 25.6 | 24.4 | 43.4 | 20.2 | 15.8 | 14.8 | 13.7 | 19.5 | 26.5 | 12.7  | 15.1 | 19.7  | 25.5 | 16.2 | 33.5 | 23.0 | --   | 17.0 | 19.4 | --   | 21.2 | 43.4  | 12.7 |      |
| 5           | 12.5 | 74.6 | 12.4 | 23.5 | 21.2 | 24.5 | 54.7 | 13.5 | 14.7 | 46.6 | 30.9 | 55.1 | 31.1 | 56.6  | 34.8 | 20.9  | 26.7 | 27.8 | --   | 24.1 | 18.3 | --   | 14.8 | 19.3 | 29.9 | 74.6  | 12.4 |      |
| 6           | 14.7 | 23.6 | 19.0 | 13.4 | 24.5 | 13.3 | 49.0 | --   | --   | 12.5 | 67.1 | --   | --   | --    | --   | 22.0  | 19.7 | 54.3 | 21.9 | 17.2 | 19.4 | 42.0 | 22.6 | 20.3 | 26.5 | 67.1  | 12.5 |      |
| 7           | --   | 15.7 | --   | --   | 15.6 | 36.6 | 73.5 | 24.7 | 15.7 | 14.7 | 13.7 | --   | 24.2 | 47.4  | --   | 20.8  | --   | --   | 21.9 | 21.8 | 19.4 | 21.5 | 16.9 | 22.5 | --   | 73.5  | 13.7 |      |
| 8           | --   | 18.0 | 34.8 | 29.1 | 21.3 | 20.1 | 32.5 | 31.6 | --   | --   | --   | --   | --   | 102.0 | 31.0 | 207.0 | 12.7 | 26.4 | 28.7 | 19.4 | 12.5 | 23.8 | 12.5 | 14.7 | 37.7 | 207.0 | 12.5 |      |
| 9           | 18.0 | 10.1 | 11.2 | 13.4 | 16.7 | 14.5 | 79.3 | 13.5 | 12.5 | 9.1  | 18.2 | 22.9 | 23.0 | 28.8  | 28.9 | 23.1  | 24.3 | 21.9 | 13.8 | 13.7 | 18.2 | 28.2 | 31.5 | 21.8 | 79.3 | 9.1   |      |      |
| 10          | 19.1 | 19.0 | 15.6 | 13.4 | 10.0 | 8.9  | 37.7 | 5.6  | 5.6  | 6.8  | 8.0  | 5.7  | 5.7  | 19.5  | 12.6 | 46.1  | 20.7 | 18.5 | 17.3 | 16.0 | 21.7 | 17.0 | 21.4 | 20.2 | 16.3 | 46.1  | 5.6  |      |
| 11          | 23.5 | 11.1 | 10.0 | 8.9  | 9.9  | 11.0 | 12.2 | 10.1 | 9.0  | 12.4 | 9.1  | 6.8  | 8.0  | 9.2   | 12.6 | 29.9  | 39.1 | 31.0 | 35.4 | 71.4 | 54.1 | 26.9 | 25.7 | 20.0 | 20.7 | 71.4  | 6.8  |      |
| 12          | 16.6 | 14.3 | 6.6  | 2.2  | 6.6  | 2.2  | 48.3 | 7.7  | 7.8  | 10.0 | 10.1 | 25.8 | 28.1 | 28.1  | 23.7 | 41.9  | 6.8  | 18.2 | 6.8  | 19.1 | 21.2 | 21.1 | 14.4 | 13.2 | 16.7 | 48.3  | 2.2  |      |
| 13          | 24.2 | 12.1 | 10.9 | 12.0 | 12.0 | 12.0 | 32.8 | 17.7 | 28.8 | 22.3 | 15.7 | 10.1 | 36.2 | 21.5  | 12.5 | 23.9  | 10.3 | --   | --   | --   | --   | --   | --   | --   | --   | --    | 36.2 | 10.1 |
| 14          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 15          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 16          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 17          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 18          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 19          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 20          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 21          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 22          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 23          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 24          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 25          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 26          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 27          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 28          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 29          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| 30          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   | --    | --   | --   | --   | --   | --   | --   | --   | --   | --   | --    | --   |      |
| Avg         | 19.2 | 20.8 | 15.0 | 15.2 | 15.8 | 18.3 | 45.2 | 17.4 | 16.3 | 18.0 | 20.8 | 22.0 | 25.7 | 38.0  | 26.7 | 50.1  | 21.1 | 25.4 | 23.2 | 25.5 | 21.7 | 24.6 | 22.8 | 20.7 | 24.7 | --    | --   |      |
| Max         | 29.1 | 74.6 | 34.8 | 29.1 | 25.6 | 36.6 | 79.3 | 31.6 | 28.8 | 46.6 | 67.1 | 55.1 | 51.3 | 102.0 | 64.0 | 207.0 | 39.1 | 54.3 | 35.4 | 71.4 | 54.1 | 42.0 | 52.9 | 31.5 | --   | 207.0 | --   |      |
| Min         | 12.5 | 10.1 | 6.6  | 2.2  | 6.6  | 2.2  | 12.2 | 5.6  | 5.6  | 6.8  | 8.0  | 5.7  | 5.7  | 9.2   | 12.5 | 19.7  | 6.8  | 16.2 | 6.8  | 13.8 | 12.5 | 17.0 | 12.5 | 13.2 | --   | --    | 2.2  |      |

-- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table126, conc\_PM25"**  
**Month: Apr 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   | 3    | 3   | --  | --   | --   | --   | --   | 1    | 1    | 3    | 8   | 11   | 17   | 13   | 12   | 7   | 6    | 7    | 7    | --   | 17  | 1   |
| 2   | 6    | 6    | 7    | 9   | 11  | 9    | 8   | 9   | 8    | --   | --   | 11   | 9    | 9    | 9    | 7   | 4    | 4    | 5    | 5    | 8   | 7    | 3    | 0    | 7    | 11  | 0   |
| 3   | 2    | 7    | 6    | 2   | 6   | 5    | 3   | 5   | 6    | 4    | 2    | 3    | 4    | 7    | 5    | 3   | 7    | 6    | 7    | 8    | 8   | 8    | 3    | 2    | 4.96 | 8   | 2   |
| 4   | 4    | 6    | 5    | 3   | 6   | 5    | 1   | 4   | 4    | 2    | 3    | 0    | 0    | 2    | 2    | 3   | 4    | 2    | 1    | 0    | 1   | 4    | 6    | 5    | 3.04 | 6   | 0   |
| 5   | 4    | 3    | 3    | 2   | 1   | 1    | 1   | 3   | 5    | --   | --   | --   | 2    | -3   | 0    | 3   | 0    | 1    | 1    | 2    | 3   | 2    | 3    | 4    | 1.95 | 5   | -3  |
| 6   | 5    | 3    | 2    | 4   | 4   | 0    | 1   | 2   | 1    | 2    | 3    | 3    | 1    | 2    | 3    | 0   | 0    | 2    | 1    | 1    | 4   | 6    | 6    | 5    | 2.54 | 6   | 0   |
| 7   | 4    | 3    | 3    | 0   | -1  | 5    | 8   | 5   | 4    | 5    | 4    | 3    | 3    | 3    | 2    | 0   | 1    | 3    | 3    | 3    | 5   | 4    | 0    | -1   | 2.88 | 8   | -1  |
| 8   | 1    | 4    | 4    | 5   | 4   | 2    | 2   | 3   | 6    | 6    | 2    | 1    | 2    | 3    | 3    | 3   | 2    | 4    | 2    | 0    | 2   | 1    | 3    | 6    | 2.96 | 6   | 0   |
| 9   | 7    | 7    | 9    | 7   | 6   | 9    | 9   | 7   | 7    | 8    | 7    | 6    | 6    | 9    | 9    | 8   | 6    | 7    | 10   | 10   | 11  | 12   | 10   | 8    | 8.13 | 12  | 6   |
| 10  | 11   | 10   | 8    | 9   | 7   | 7    | 9   | 8   | 8    | 11   | 9    | 8    | 6    | 5    | 6    | 7   | 9    | 4    | 3    | 5    | 6   | 7    | 6    | 6    | 7.29 | 11  | 3   |
| 11  | 6    | 4    | 2    | 5   | 10  | 11   | 8   | 7   | 6    | 6    | 7    | 4    | 2    | 1    | 6    | 6   | 4    | 7    | 8    | 6    | 4   | 5    | 6    | 7    | 5.75 | 11  | 1   |
| 12  | 6    | 6    | 8    | 6   | 4   | 6    | 8   | 10  | 9    | 5    | 5    | 6    | 6    | 7    | 10   | 8   | 4    | 3    | 5    | 6    | 6   | 6    | 5    | 5    | 6.25 | 10  | 3   |
| 13  | 5    | 5    | 7    | 7   | 2   | 4    | 7   | 6   | 6    | 6    | 7    | 4    | 1    | 3    | 5    | 7   | 5    | 6    | 8    | 10   | 11  | 9    | 8    | 7    | 6.08 | 11  | 1   |
| 14  | 6    | 4    | 4    | 7   | 6   | 4    | 3   | 4   | 4    | 5    | 3    | 5    | 3    | 0    | 4    | 5   | 4    | 4    | 4    | 5    | 7   | 9    | 9    | 9    | 4.92 | 9   | 0   |
| 15  | 9    | 6    | 6    | 6   | 4   | 3    | 7   | 8   | 5    | 5    | 3    | 0    | 3    | 3    | 2    | 2   | 3    | 6    | 6    | 6    | 6   | 7    | 8    | 7    | 5.04 | 9   | 0   |
| 16  | 6    | 6    | 6    | 6   | 6   | 4    | 8   | 9   | 5    | 4    | 5    | 3    | 4    | 6    | 4    | 4   | 3    | 4    | 6    | 5    | 5   | 7    | 6    | 5    | 5.29 | 9   | 3   |
| 17  | 6    | 6    | 5    | 6   | 7   | 5    | 4   | 5   | 5    | 5    | 6    | 3    | 2    | 5    | 5    | 4   | 4    | 3    | 1    | 1    | 2   | 5    | 4    | 2    | 4.21 | 7   | 1   |
| 18  | 3    | 4    | 5    | 3   | 2   | 2    | 5   | 8   | 8    | 7    | 2    | 0    | 2    | 4    | 2    | 0   | 2    | 2    | 0    | 1    | 1   | 3    | 5    | 7    | 3.25 | 8   | 0   |
| 19  | 7    | 8    | 7    | 8   | 8   | 6    | 7   | 6   | 6    | 8    | 4    | 1    | 4    | 4    | 3    | 6   | 6    | 4    | 2    | 4    | 5   | 6    | 5    | 2    | 5.29 | 8   | 1   |
| 20  | 2    | 2    | 2    | 3   | 3   | 2    | 6   | 4   | 2    | 5    | 5    | 5    | 4    | 3    | 2    | 1   | 0    | 2    | 5    | 6    | 4   | 4    | 5    | 5    | 3.42 | 6   | 0   |
| 21  | 2    | 2    | 4    | 2   | 4   | 7    | 7   | 8   | 5    | 5    | 4    | 3    | 3    | 2    | 5    | 4   | 5    | 10   | 8    | 8    | 7   | 4    | 3    | 3    | 4.79 | 10  | 2   |
| 22  | 4    | 5    | 8    | 8   | 6   | 4    | 2   | 1   | 3    | 2    | 1    | 1    | 3    | 1    | 0    | 2   | 3    | 5    | 6    | 6    | 6   | 6    | 3    | 4    | 3.75 | 8   | 0   |
| 23  | 5    | 3    | 4    | 3   | 4   | 6    | 9   | 11  | 7    | 6    | 7    | 5    | 5    | 6    | 6    | 6   | 4    | 2    | 2    | 3    | 4   | 5    | 7    | 6    | 5.25 | 11  | 2   |
| 24  | 6    | 5    | 2    | 1   | 5   | 6    | 5   | 3   | --   | --   | --   | 7    | 18   | 8    | 6    | 2   | 4    | 6    | 4    | 5    | 4   | 4    | 6    | 6    | 5.38 | 18  | 1   |
| 25  | 4    | 4    | 7    | 8   | 9   | 10   | 10  | 22  | 16   | 13   | 18   | 13   | 12   | 12   | 14   | 19  | 22   | 16   | 9    | 8    | 6   | 7    | 5    | 4    | 11.2 | 22  | 4   |
| 26  | 5    | 4    | 4    | 4   | 6   | 6    | 4   | 3   | 2    | 1    | 1    | -1   | -1   | 2    | 2    | 2   | 2    | 2    | 3    | 3    | 5   | 5    | 4    | 6    | 3.08 | 6   | -1  |
| 27  | 5    | 4    | 6    | 8   | 7   | 6    | 2   | 2   | 6    | 6    | 4    | 3    | --   | 5    | 8    | 9   | 7    | 6    | 4    | 4    | 6   | 8    | 8    | 7    | 5.7  | 9   | 2   |
| 28  | 7    | 5    | 4    | 6   | 6   | 5    | 5   | 4   | 6    | 8    | 11   | 11   | 10   | 8    | 6    | 7   | 24   | 19   | 41   | 12   | 12  | 8    | 4    | 5    | 9.75 | 41  | 4   |
| 29  | 7    | 8    | 6    | 6   | 6   | 4    | 4   | 5   | 6    | 4    | 1    | 2    | 4    | 4    | 2    | 2   | 4    | 2    | 2    | 6    | 4   | 2    | 4    | 4    | 4.13 | 8   | 1   |
| 30  | 4    | 3    | 3    | 4   | 4   | 4    | 6   | 5   | 4    | 5    | 2    | 0    | 2    | 3    | 5    | 3   | 3    | 1    | 3    | 6    | 5   | 5    | 5    | 6    | 3.79 | 6   | 0   |
| Avg | 5.14 | 4.93 | 5.07 | 5.1 | 5.3 | 5.03 | 5.4 | 6.1 | 5.71 | 5.54 | 4.85 | 3.93 | 4.17 | 4.17 | 4.63 | 4.7 | 5.23 | 5.33 | 5.77 | 5.23 | 5.5 | 5.73 | 5.23 | 4.97 | 5.07 | --  | --  |
| Max | 11   | 10   | 9    | 9   | 11  | 11   | 10  | 22  | 16   | 13   | 18   | 13   | 18   | 12   | 14   | 19  | 24   | 19   | 41   | 12   | 12  | 12   | 10   | 9    | --   | 41  | --  |
| Min | 1    | 2    | 2    | 0   | -1  | 0    | 1   | 1   | 1    | 1    | 1    | -1   | -1   | -3   | 0    | 0   | 0    | 1    | 0    | 0    | 1   | 1    | 0    | -1   | --   | --  | -3  |

<sup>1</sup> -- Indicates Invalid Data

**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table126, conc\_PM25"**  
**Month: May 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    | 4    | 2    | 5    | 3    | 1    | 7    | 6 | 3    | 2    | 2  | 3   | 3    | 3    | 1    | 4    | 6    | 3    | 1    | 2    | 2    | 3    | 6    | 6    | 3.5  | 7   | 1   |
| 2   | 5    | 5    | 6    | 6    | 3    | 1    | 5    | 7 | 9    | 9    | 7  | 6   | 4    | 6    | 6    | 5    | 6    | 16   | 4    | 4    | 4    | 4    | 6    | 8    | 5.92 | 16  | 1   |
| 3   | 7    | 5    | 6    | 7    | 8    | 8    | 5    | 5 | 6    | 5    | 0  | -1  | 0    | 2    | 6    | 6    | 2    | 3    | 6    | 6    | 6    | 8    | 6    | 3    | 4.79 | 8   | -1  |
| 4   | 3    | 4    | 2    | 3    | 4    | 2    | 4    | 7 | 5    | 2    | 5  | 7   | 6    | 4    | 3    | 4    | 5    | 6    | 6    | 5    | 4    | 5    | 5    | 5    | 4.42 | 7   | 2   |
| 5   | 4    | 4    | 3    | 2    | 4    | 6    | 7    | 4 | 3    | 4    | 5  | 6   | 6    | 6    | 6    | 7    | 10   | 11   | 8    | 5    | 7    | 7    | 5    | 6    | 5.67 | 11  | 2   |
| 6   | 8    | 6    | 4    | 5    | 6    | 4    | 4    | 2 | 2    | 5    | 5  | 6   | 8    | 7    | 4    | 5    | 7    | 17   | 9    | 22   | 23   | 30   | 20   | 10   | 9.13 | 30  | 2   |
| 7   | 8    | 9    | 12   | 10   | 6    | 5    | 5    | 3 | 5    | 7    | 8  | 5   | 7    | 18   | 24   | 10   | 10   | 9    | 7    | 11   | 12   | 8    | 8    | 9    | 9    | 24  | 3   |
| 8   | 9    | 7    | 7    | 7    | 8    | 9    | 9    | 6 | 5    | 8    | 10 | 39  | 9    | 7    | 7    | 9    | 10   | 9    | 7    | 9    | 9    | 7    | 6    | 5    | 9.08 | 39  | 5   |
| 9   | 4    | 5    | 5    | 5    | 4    | 5    | 6    | 7 | 5    | 3    | 3  | 1   | -1   | 3    | 6    | 5    | 4    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3.79 | 7   | -1  |
| 10  | 3    | 3    | 4    | 3    | 2    | 3    | 5    | 6 | 5    | 3    | 4  | 4   | 2    | 5    | 3    | 4    | 5    | 3    | 6    | 7    | 5    | 4    | 4    | 3    | 4    | 7   | 2   |
| 11  | 5    | 5    | 4    | 5    | 5    | 4    | 2    | 1 | 3    | 0    | 0  | 2   | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 6    | 8    | 7    | 7    | 9    | 3.75 | 9   | 0   |
| 12  | 7    | 4    | 6    | 5    | 3    | 7    | 8    | 4 | 4    | 3    | 5  | 7   | 5    | 3    | 2    | 3    | 2    | 3    | 3    | 3    | 3    | 6    | 7    | 6    | 4.54 | 8   | 2   |
| 13  | 5    | 4    | 5    | 3    | 6    | 7    | 5    | 7 | 5    | 2    | 1  | 2   | 3    | 3    | 3    | 3    | 4    | 4    | 5    | 6    | 6    | 8    | 5    | 5    | 4.46 | 8   | 1   |
| 14  | 5    | 2    | 5    | 6    | 6    | 3    | 2    | 3 | 4    | 4    | 1  | 1   | 2    | 2    | 2    | 2    | 3    | 4    | 4    | 3    | 4    | 6    | 6    | 6    | 3.58 | 6   | 1   |
| 15  | 7    | 8    | 9    | 9    | 6    | 7    | 8    | 8 | 6    | 4    | 6  | 5   | 2    | 4    | 6    | 10   | 11   | 8    | 6    | 5    | 7    | 6    | 5    | 4    | 6.54 | 11  | 2   |
| 16  | 3    | 4    | 3    | 4    | 5    | 6    | 5    | 6 | 6    | 5    | 5  | 5   | 7    | 9    | 10   | 8    | 8    | 6    | 5    | 3    | 4    | 8    | 9    | 10   | 6    | 10  | 3   |
| 17  | 9    | 6    | 4    | 5    | 7    | 7    | 7    | 5 | 5    | 6    | 6  | 3   | 4    | 6    | 6    | 6    | 5    | 6    | 6    | 6    | 7    | 6    | 6    | 6    | 5.83 | 9   | 3   |
| 18  | 5    | 7    | 7    | 6    | 6    | 7    | 7    | 6 | 6    | 4    | 2  | 2   | 5    | 6    | 4    | 3    | 0    | -1   | 3    | 3    | 1    | 2    | 1    | 1    | 3.88 | 7   | -1  |
| 19  | 3    | 1    | 0    | 1    | -1   | 0    | 3    | 3 | 4    | 3    | 1  | 2   | 1    | 2    | 3    | 0    | -1   | 0    | 0    | 2    | 4    | 3    | 2    | -1   | 1.46 | 4   | -1  |
| 20  | -2   | 0    | 0    | 0    | 1    | 1    | 1    | 3 | 5    | 3    | 3  | 5   | 4    | 4    | 5    | 6    | 6    | 4    | 2    | 0    | 1    | 4    | 4    | 5    | 2.71 | 6   | -2  |
| 21  | 6    | 4    | 3    | 4    | 2    | 1    | 2    | 2 | 2    | 3    | 20 | 14  | 12   | 10   | 8    | 6    | 5    | 3    | 2    | 3    | 1    | 2    | 2    | 3    | 5    | 20  | 1   |
| 22  | 4    | 1    | 0    | 0    | 0    | 1    | 5    | 4 | 3    | 1    | 0  | 0   | 2    | 3    | 0    | 0    | 2    | 4    | 3    | 4    | 6    | 4    | 4    | 3    | 2.25 | 6   | 0   |
| 23  | 2    | 3    | 4    | 6    | 4    | 2    | 4    | 4 | 2    | 2    | 2  | 4   | 4    | 1    | 0    | 3    | 5    | 4    | 2    | 3    | 4    | 5    | 7    | 6    | 3.46 | 7   | 0   |
| 24  | 5    | 2    | 1    | 1    | 4    | 7    | 9    | 9 | 7    | 3    | 3  | 4   | 4    | 2    | 0    | 3    | 6    | 6    | 5    | 7    | 7    | 3    | 4    | 4    | 4.42 | 9   | 0   |
| 25  | 4    | 4    | 4    | 7    | 5    | 1    | 6    | 9 | 4    | 2    | 2  | 3   | 5    | 2    | 0    | 2    | 2    | 0    | 2    | 3    | 4    | 4    | 4    | 3    | 3.42 | 9   | 0   |
| 26  | 2    | 4    | 5    | 3    | 2    | 4    | 3    | 2 | 4    | 4    | 3  | 1   | 1    | 2    | 2    | 2    | 2    | 2    | 3    | 4    | 3    | 3    | 4    | 5    | 2.92 | 5   | 1   |
| 27  | 1    | 2    | 6    | 5    | 2    | 4    | 5    | 1 | 2    | 3    | 2  | 2   | 2    | 2    | -1   | -1   | 2    | 3    | 2    | 4    | 6    | 5    | 4    | 5    | 2.83 | 6   | -1  |
| 28  | 5    | 3    | 2    | 3    | 3    | 3    | 7    | 8 | 1    | 1    | 0  | 3   | 7    | 6    | 4    | 4    | 4    | 1    | 1    | 4    | 4    | 3    | 0    | 0    | 3.21 | 8   | 0   |
| 29  | 2    | 5    | 4    | 2    | 4    | 6    | 7    | 7 | 6    | 5    | 3  | 6   | 9    | 7    | 2    | 1    | 1    | 2    | 5    | 6    | 6    | 4    | 3    | 2    | 4.38 | 9   | 1   |
| 30  | 4    | 5    | 8    | 8    | 6    | 6    | 7    | 6 | 8    | 9    | 6  | 3   | 2    | 5    | 4    | 5    | 5    | 3    | 5    | 7    | 5    | 3    | 4    | 3    | 5.29 | 9   | 2   |
| 31  | 3    | 5    | 5    | 3    | 2    | 4    | 4    | 4 | 4    | 3    | -- | 2   | 2    | 3    | 5    | 6    | 7    | 9    | 7    | 5    | 5    | 6    | 8    | 6    | 4.7  | 9   | 2   |
| Avg | 4.58 | 4.23 | 4.39 | 4.48 | 4.06 | 4.26 | 5.29 | 5 | 4.48 | 3.81 | 4  | 4.9 | 4.16 | 4.68 | 4.29 | 4.29 | 4.74 | 4.97 | 4.23 | 5.19 | 5.52 | 5.71 | 5.32 | 4.81 | 4.64 | --  | --  |
| Max | 9    | 9    | 12   | 10   | 8    | 9    | 9    | 9 | 9    | 9    | 20 | 39  | 12   | 18   | 24   | 10   | 11   | 17   | 9    | 22   | 23   | 30   | 20   | 10   | --   | 39  | --  |
| Min | -2   | 0    | 0    | 0    | -1   | 0    | 1    | 1 | 1    | 0    | 0  | -1  | -1   | 1    | -1   | -1   | -1   | -1   | 0    | 0    | 1    | 2    | 0    | -1   | --   | --  | -2  |

-- Indicates Invalid Data



**SAROAD for Resolution, West\_Plant**  
**"Component, Channel: Table126, conc\_PM25"**  
**Month: Jun 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    | 4   | 6    | 9   | 9    | 7    | 5   | 7   | 9   | 7    | 5    | 7    | 9    | 7    | 7   | 9    | 8    | 5    | 4    | 5   | 5    | 6    | 7   | 6    | 6.54 | 9   | 4   |
| 2   | 7    | 7   | 6    | 4   | 4    | 5    | 6   | 7   | 7   | 6    | 6    | 6    | 3    | 3    | 5   | 7    | 6    | 6    | 9    | 8   | 5    | 4    | 8   | 8    | 5.96 | 9   | 3   |
| 3   | 6    | 7   | 5    | 5   | 9    | 9    | 7   | 6   | 7   | 7    | 5    | 4    | 5    | 4    | 3   | 5    | 5    | 4    | 5    | 4   | 6    | 8    | 6   | 7    | 5.79 | 9   | 3   |
| 4   | 7    | 6   | 7    | 8   | 7    | 6    | 7   | 7   | 6   | 5    | 6    | 6    | 6    | 4    | 4   | 6    | 7    | 9    | 8    | 10  | 9    | 8    | 9   | 6    | 6.83 | 10  | 4   |
| 5   | 4    | 7   | 7    | 6   | 6    | 6    | 6   | 6   | 6   | 8    | 6    | 4    | 5    | 5    | 4   | 4    | 5    | 5    | 6    | 4   | 5    | 7    | 3   | 2    | 5.29 | 8   | 2   |
| 6   | 6    | 5   | 7    | 9   | 6    | 4    | 7   | 9   | 8   | 4    | 3    | 3    | 3    | 6    | 5   | 4    | 3    | 5    | 7    | 6   | 7    | 8    | 6   | 6    | 5.71 | 9   | 3   |
| 7   | 9    | 6   | 3    | 3   | 4    | 6    | 5   | 4   | 4   | 3    | 2    | 3    | 4    | 2    | 5   | 6    | 5    | 4    | 5    | 7   | 9    | 8    | 4   | 3    | 4.75 | 9   | 2   |
| 8   | 5    | 7   | 7    | 11  | 13   | 13   | 11  | 11  | 11  | --   | --   | --   | --   | 6    | 4   | 16   | 6    | 6    | 7    | 8   | 8    | 8    | 8   | 8    | 8.7  | 16  | 4   |
| 9   | 9    | 8   | 7    | 8   | 9    | 8    | 11  | 9   | 6   | 6    | 5    | 8    | 9    | 8    | 7   | 7    | 6    | 6    | 7    | 9   | 10   | 7    | 6   | 7    | 7.63 | 11  | 5   |
| 10  | 8    | 7   | 5    | 4   | 5    | 5    | 4   | 3   | 2   | 3    | -1   | -1   | 1    | 1    | 2   | 3    | 4    | 5    | 2    | 1   | 2    | 5    | 7   | 7    | 3.5  | 8   | -1  |
| 11  | 6    | 4   | 6    | 5   | 3    | 5    | 4   | 3   | 3   | 4    | 2    | 1    | 0    | 2    | 6   | 6    | 7    | 6    | 5    | 9   | 12   | 9    | 5   | 4    | 4.88 | 12  | 0   |
| 12  | 4    | 2   | 3    | 4   | 1    | 4    | 7   | 6   | 5   | 2    | 1    | 1    | 0    | 0    | 4   | 1    | 0    | 5    | 5    | 6   | 7    | 7    | 6   | 5    | 3.58 | 7   | 0   |
| 13  | 7    | 7   | 5    | 5   | 4    | 4    | 5   | 4   | 4   | 4    | 3    | 2    | 3    | 3    | 3   | 4    | 2    | 3    | 6    | 6   | 6    | 7    | 6   | 6    | 4.54 | 7   | 2   |
| 14  | 6    | 9   | 9    | 5   | 6    | 8    | 11  | 11  | 6   | 3    | 1    | 3    | 4    | 5    | 3   | 3    | 5    | 3    | 3    | 5   | 7    | 6    | 3   | 4    | 5.38 | 11  | 1   |
| 15  | 4    | 7   | 8    | 6   | 7    | 3    | 16  | 2   | 4   | 6    | 4    | 4    | 2    | 1    | 1   | 1    | 4    | 4    | 3    | 5   | 6    | 8    | 9   | 9    | 5.17 | 16  | 1   |
| 16  | 7    | 4   | 4    | 4   | 3    | 5    | 6   | 7   | 7   | 5    | 7    | 7    | 4    | 4    | 5   | 5    | 6    | 3    | 3    | 6   | 6    | 6    | 7   | 4    | 5.21 | 7   | 3   |
| 17  | 5    | 7   | 6    | 5   | 6    | 7    | 9   | 6   | 4   | 3    | 3    | 5    | 2    | 1    | 4   | 6    | 4    | 4    | 7    | 7   | 8    | 9    | 7   | 6    | 5.46 | 9   | 1   |
| 18  | 6    | 5   | 5    | 6   | 9    | 17   | 12  | 9   | 4   | 3    | 4    | 4    | 4    | 6    | 7   | 6    | 6    | 8    | 8    | 9   | 11   | 11   | 11  | 11   | 7.58 | 17  | 3   |
| 19  | 10   | 9   | 7    | 6   | 5    | 7    | 16  | 7   | 5   | 3    | 3    | 5    | 4    | 2    | 5   | 6    | 7    | 9    | 10   | 11  | 11   | 5    | 4   | 7    | 6.83 | 16  | 2   |
| 20  | 7    | 9   | 9    | 7   | 16   | 16   | 19  | 11  | 10  | 10   | 13   | 17   | 15   | 15   | 13  | 16   | 12   | 10   | 7    | 7   | 6    | 5    | 6   | 4    | 10.8 | 19  | 4   |
| 21  | 1    | 5   | 7    | 5   | 6    | 6    | 6   | 8   | 7   | 8    | 9    | 10   | 12   | 11   | 16  | 13   | 12   | 15   | 13   | 11  | 11   | 17   | 16  | 7    | 9.67 | 17  | 1   |
| 22  | 8    | 7   | 7    | 10  | 12   | 13   | 13  | 12  | 11  | 10   | 9    | 7    | 8    | 11   | 16  | 15   | 12   | 9    | 8    | 10  | 12   | 10   | 10  | 9    | 10.4 | 16  | 7   |
| 23  | 9    | 13  | 16   | 14  | 14   | 12   | 12  | 12  | 11  | 13   | 12   | 20   | 7    | 10   | 11  | 10   | 13   | 11   | 9    | 10  | 9    | 10   | 11  | 10   | 11.6 | 20  | 7   |
| 24  | 10   | 10  | 9    | 8   | 8    | 10   | 9   | 9   | 9   | 7    | 8    | 8    | 9    | 7    | 7   | 8    | 7    | 7    | 8    | 9   | 11   | 11   | 9   | 9    | 8.62 | 11  | 7   |
| 25  | 22   | 43  | 25   | 20  | 23   | 17   | 18  | 14  | 13  | 14   | 13   | 13   | 15   | 10   | 7   | 9    | 8    | 8    | 9    | 12  | 12   | 8    | 7   | 7    | 14.5 | 43  | 7   |
| 26  | 6    | 6   | 6    | 9   | 11   | 12   | 13  | 13  | 13  | 13   | 12   | 15   | 17   | 10   | 9   | 10   | 12   | 13   | 12   | 10  | 12   | 14   | 12  | 11   | 11.3 | 17  | 6   |
| 27  | 12   | 9   | 8    | 10  | 9    | 9    | 9   | 11  | 11  | 9    | 10   | 9    | 9    | 12   | 10  | 6    | 3    | 4    | 4    | 5   | 5    | 5    | 4   | 4    | 7.79 | 12  | 3   |
| 28  | 6    | 3   | 3    | 9   | 11   | 9    | 7   | 7   | 9   | 11   | 9    | 9    | 12   | 22   | 30  | 23   | 16   | 13   | 12   | 9   | 8    | 8    | 10  | 17   | 11.4 | 30  | 3   |
| 29  | 7    | 7   | 6    | 4   | 4    | 6    | 7   | 6   | 7   | 6    | 1    | 3    | --   | --   | 17  | 8    | 8    | 6    | 5    | 7   | 9    | 8    | 11  | 11   | 7    | 17  | 1   |
| 30  | 7    | 7   | 9    | 7   | 5    | 6    | 5   | 4   | 7   | 6    | 4    | 3    | 2    | 4    | 5   | 3    | 4    | 4    | 3    | 6   | 6    | 6    | 4   | 0    | 4.88 | 9   | 0   |
| Avg | 7.17 | 7.9 | 7.27 | 7.2 | 7.83 | 8.17 | 9.1 | 7.7 | 7.2 | 6.52 | 5.69 | 6.41 | 6.21 | 6.28 | 7.5 | 7.53 | 6.77 | 6.67 | 6.67 | 7.4 | 8.03 | 7.97 | 7.4 | 6.83 | 7.24 | --  | --  |
| Max | 22   | 43  | 25   | 20  | 23   | 17   | 19  | 14  | 13  | 14   | 13   | 20   | 17   | 22   | 30  | 23   | 16   | 15   | 13   | 12  | 12   | 17   | 16  | 17   | --   | 43  | --  |
| Min | 1    | 2   | 3    | 3   | 1    | 3    | 4   | 2   | 2   | 2    | -1   | -1   | 0    | 0    | 1   | 1    | 0    | 3    | 2    | 1   | 2    | 4    | 3   | 0    | --   | --  | -1  |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, Far\_West\_conc\_PM10\_STP"**  
**Month: Apr 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   | 30.4 | 29.3 | 22.2 | 18.1 | 15.0 | 24.1 | 22.2 | 25.5 | 28.8 | 26.9 | 24.9 | 28.0 | 22.9 | 22.9 | 26.1 | 20.9  | 20.9 | 18.8  | 22.9  | 17.5 | 37.9 | 15.4  | 16.3 | 17.3 | 23.1 | 37.9  | 15.0 |
| 2   | 14.2 | 18.1 | 16.0 | 17.9 | 16.9 | 16.0 | 13.0 | 17.2 | 14.4 | 14.5 | 18.7 | 18.8 | 15.8 | 20.1 | 18.0 | 13.8  | 14.9 | 18.1  | 19.1  | 17.9 | 19.9 | 15.5  | 15.5 | 15.5 | 16.7 | 20.1  | 13.0 |
| 3   | 12.3 | 20.5 | 13.3 | 10.3 | 9.3  | 11.2 | 13.2 | 14.5 | 17.8 | --   | 20.1 | 21.2 | 22.4 | 16.1 | 29.1 | 41.2  | 41.2 | 26.0  | 29.0  | 24.5 | 22.3 | 249.0 | 11.5 | 10.4 | 29.8 | 249.0 | 9.3  |
| 4   | 17.6 | 17.4 | 10.2 | 9.2  | 8.1  | 5.1  | 2.0  | 4.1  | 5.2  | 4.2  | 9.4  | 10.5 | 15.8 | 10.5 | 21.1 | 12.7  | 8.5  | 6.3   | 9.5   | 9.4  | 8.2  | 12.2  | 11.2 | 9.2  | 9.9  | 21.1  | 2.0  |
| 5   | 8.2  | 6.1  | 5.1  | 4.1  | 8.2  | 22.7 | 19.6 | 29.0 | 9.4  | 8.4  | 5.3  | 4.2  | 8.5  | 6.4  | 5.4  | 2.2   | --   | --    | 38.5  | 23.2 | 15.7 | 13.5  | 10.3 | 9.2  | 12.0 | 38.5  | 2.2  |
| 6   | 6.2  | 19.5 | 3.1  | 6.1  | 10.1 | 9.1  | 7.1  | 5.2  | 13.7 | 10.6 | 11.7 | 12.9 | 10.8 | 9.8  | 15.2 | 9.8   | 10.9 | 29.3  | 24.8  | 14.9 | 20.0 | 23.0  | 22.9 | 16.6 | 13.5 | 29.3  | 3.1  |
| 7   | 22.8 | 17.6 | 14.4 | 15.4 | 16.4 | 13.3 | 16.4 | 16.6 | 12.7 | 11.7 | 11.7 | 9.6  | 10.8 | 7.6  | 10.8 | 13.0  | 17.3 | 13.0  | 15.0  | 13.8 | 17.9 | 12.6  | 17.7 | 16.6 | 14.4 | 22.8  | 7.6  |
| 8   | 16.6 | 10.3 | 14.4 | 15.4 | 15.3 | 12.3 | 11.3 | 17.6 | 14.8 | 12.8 | 11.7 | 26.8 | 11.8 | 16.2 | 18.4 | 21.6  | 30.3 | 15.1  | 36.5  | 24.5 | 22.3 | 23.2  | 21.1 | 18.9 | 18.3 | 36.5  | 10.3 |
| 9   | 17.7 | 14.5 | 20.6 | 19.4 | 23.4 | 18.2 | 26.3 | 22.6 | 28.0 | 32.4 | 26.2 | 21.0 | 27.4 | 19.1 | 24.4 | 27.7  | 25.5 | 23.4  | 23.3  | 23.1 | 22.9 | 30.0  | 20.5 | 20.4 | 23.2 | 32.4  | 14.5 |
| 10  | 21.3 | 22.2 | 19.2 | 19.2 | 20.1 | 21.1 | 25.1 | 24.5 | 18.6 | 21.9 | 22.1 | 20.1 | 24.5 | 15.0 | 18.2 | 18.2  | 16.1 | 31.1  | 29.8  | 26.3 | 18.8 | 12.4  | 17.5 | 18.5 | 20.9 | 31.1  | 12.4 |
| 11  | 23.6 | 22.5 | 14.3 | 11.2 | 16.2 | 17.2 | 24.4 | 24.8 | 28.2 | 19.0 | 28.6 | 24.6 | 20.4 | 22.7 | 22.7 | 29.3  | 29.3 | 35.7  | 25.8  | 27.7 | 27.5 | 26.2  | 27.1 | 21.8 | 23.8 | 35.7  | 11.2 |
| 12  | 20.7 | 19.6 | 16.4 | 17.4 | 16.3 | 12.2 | 17.4 | 23.9 | 22.1 | 21.3 | 18.2 | 15.1 | 18.3 | 15.2 | 11.9 | 9.8   | 23.9 | 19.5  | 30.2  | 24.6 | 21.1 | 23.0  | 20.9 | 17.7 | 19.0 | 30.2  | 9.8  |
| 13  | 15.6 | 18.7 | 14.5 | 15.5 | 16.4 | 16.4 | 15.4 | 19.8 | 30.7 | 23.5 | 21.5 | 20.5 | 22.8 | 21.8 | 29.4 | 32.7  | 32.8 | 24.0  | 23.9  | 21.5 | 26.6 | 31.8  | 19.9 | 22.8 | 22.4 | 32.8  | 14.5 |
| 14  | 18.6 | 23.7 | 18.6 | 13.4 | 17.5 | 18.4 | 14.4 | 15.6 | 28.5 | 43.5 | 32.0 | 22.5 | 28.0 | 23.8 | 22.7 | 20.6  | 40.3 | 27.2  | 24.9  | 28.9 | 22.3 | 19.0  | 25.0 | 28.0 | 24.1 | 43.5  | 13.4 |
| 15  | 37.3 | 25.8 | 22.6 | 17.4 | 12.3 | 16.3 | 42.9 | 19.8 | 15.8 | 10.6 | 7.5  | 16.0 | 11.8 | 17.2 | 51.8 | 23.8  | 18.4 | 19.4  | 21.5  | 27.6 | 26.4 | 41.7  | 33.2 | 24.9 | 23.4 | 51.8  | 7.5  |
| 16  | 24.8 | 20.6 | 21.6 | 18.4 | 22.4 | 17.3 | 21.5 | 19.8 | 24.3 | 23.4 | 18.2 | 16.1 | 17.3 | 16.3 | 21.7 | 25.0  | 19.5 | 21.6  | 17.2  | 17.0 | 16.9 | 19.9  | 14.6 | 17.7 | 19.7 | 25.0  | 14.6 |
| 17  | 18.6 | 19.6 | 14.4 | 19.5 | 18.4 | 15.3 | 12.3 | 27.1 | 30.7 | 17.0 | 10.7 | 14.0 | 12.9 | 16.2 | 18.4 | 16.3  | 22.8 | 25.0  | 9.7   | 15.0 | 30.7 | 25.3  | 20.9 | 16.7 | 18.7 | 30.7  | 9.7  |
| 18  | 8.3  | 11.4 | 13.4 | 14.5 | 13.4 | 12.3 | 17.5 | 27.3 | 17.0 | 14.9 | 10.7 | 11.9 | 20.5 | 17.4 | 28.3 | 24.0  | 42.6 | 18.5  | 14.1  | 33.3 | 26.6 | 14.9  | 18.1 | 24.4 | 19.0 | 42.6  | 8.3  |
| 19  | 22.1 | 20.9 | 16.6 | 20.7 | 17.5 | 20.6 | 26.9 | 29.4 | 20.0 | 19.1 | 12.8 | 15.0 | 31.2 | 13.0 | 21.6 | 15.2  | 19.5 | 14.1  | 15.1  | 15.0 | 27.6 | 32.6  | 25.1 | 21.8 | 20.6 | 32.6  | 12.8 |
| 20  | 15.5 | 15.5 | 17.5 | 16.4 | 9.2  | 9.2  | 20.5 | 10.4 | 15.9 | 14.9 | 11.8 | 10.7 | 48.5 | 15.1 | 16.3 | 22.8  | 22.8 | 21.7  | 28.1  | 22.5 | 20.1 | 24.1  | 27.2 | 16.6 | 18.9 | 48.5  | 9.2  |
| 21  | 20.6 | 13.4 | 15.4 | 15.4 | 14.3 | 10.2 | 11.3 | 15.7 | 15.8 | 16.0 | 16.1 | 16.2 | 17.3 | 12.0 | 16.4 | 21.9  | 32.8 | 24.0  | 21.8  | 32.3 | 37.4 | 26.4  | 18.9 | 19.8 | 19.2 | 37.4  | 10.2 |
| 22  | 18.7 | 18.6 | 15.5 | 15.4 | 12.3 | 13.3 | 12.4 | 33.6 | 16.0 | 10.7 | 18.3 | 11.9 | 15.2 | 18.6 | 16.4 | 13.2  | 14.3 | 12.1  | 13.1  | 25.9 | 21.4 | 21.1  | 29.5 | 22.1 | 17.5 | 33.6  | 10.7 |
| 23  | 22.0 | 17.8 | 13.6 | 16.6 | 16.5 | 16.6 | 39.0 | 48.1 | 51.7 | 59.6 | 43.5 | 33.8 | 23.0 | 17.6 | 16.6 | 19.9  | 24.4 | 15.5  | 17.6  | 27.3 | 40.1 | 32.3  | 27.8 | 35.1 | 28.2 | 59.6  | 13.6 |
| 24  | 24.3 | 18.0 | 11.6 | 9.5  | 11.5 | 17.7 | 20.9 | 14.9 | 20.4 | 32.4 | 28.2 | 38.1 | 29.5 | 45.9 | 24.1 | 32.9  | 31.7 | 29.5  | 28.3  | 24.9 | 28.0 | 22.5  | 19.3 | 26.7 | 24.6 | 45.9  | 9.5  |
| 25  | 25.5 | 22.2 | 17.9 | 22.1 | 28.3 | 27.3 | 29.4 | 38.1 | 47.7 | 67.0 | 78.9 | 88.8 | 92.4 | 92.4 | --   | 155.0 | 80.1 | 85.4  | 69.0  | 63.4 | 40.5 | 37.1  | 29.6 | 23.2 | 54.8 | 155.0 | 17.9 |
| 26  | 22.0 | 19.8 | 16.5 | 20.5 | 9.2  | 20.5 | 32.9 | 30.3 | 23.2 | 16.9 | 13.8 | 10.7 | 19.3 | 21.5 | 11.9 | 16.3  | 52.1 | 14.1  | 15.1  | 21.5 | 20.3 | 15.9  | 13.7 | 13.7 | 19.7 | 52.1  | 9.2  |
| 27  | 13.7 | 16.9 | 17.9 | 18.9 | 23.1 | 19.8 | 22.0 | 20.1 | 20.3 | 26.8 | 22.6 | 31.3 | 22.8 | 32.7 | 28.4 | 35.0  | 37.2 | 31.7  | 33.7  | 33.6 | 25.9 | 31.1  | 22.5 | 29.8 | 25.7 | 37.2  | 13.7 |
| 28  | 31.8 | 14.8 | 15.9 | 16.9 | 16.9 | 16.8 | 24.2 | 19.1 | 24.5 | 17.1 | 19.2 | 30.0 | 37.5 | 65.8 | 59.5 | 46.7  | 86.9 | 217.0 | 736.0 | 73.3 | 45.3 | 21.0  | 15.6 | 11.4 | 69.3 | 736.0 | 11.4 |
| 29  | 13.4 | 11.3 | 7.2  | 10.2 | 6.1  | 7.1  | 14.2 | 9.3  | 6.2  | 7.3  | 6.3  | 6.3  | 28.5 | 8.5  | 14.8 | 9.6   | 9.6  | 9.6   | 12.7  | 12.6 | 23.9 | 20.7  | 19.6 | 20.5 | 12.3 | 28.5  | 6.1  |
| 30  | 14.3 | 15.3 | 12.3 | 8.2  | 11.2 | 9.1  | 9.2  | 10.4 | 19.9 | 7.4  | 5.3  | 5.3  | 17.0 | 12.8 | 10.7 | 9.7   | 8.6  | 8.6   | 10.7  | 14.9 | 13.6 | 15.6  | 14.5 | 10.4 | 11.4 | 19.9  | 5.3  |
| Avg | 19.3 | 18.1 | 15.1 | 15.1 | 15.1 | 15.6 | 19.5 | 21.1 | 21.4 | 21.1 | 19.5 | 20.4 | 23.5 | 21.7 | 21.7 | 25.3  | 28.8 | 29.5  | 47.3  | 25.3 | 24.9 | 30.3  | 20.2 | 19.3 | 22.5 | --    | --   |
| Max | 37.3 | 29.3 | 22.6 | 22.1 | 28.3 | 27.3 | 42.9 | 48.1 | 51.7 | 67.0 | 78.9 | 88.8 | 92.4 | 92.4 | 59.5 | 155.0 | 86.9 | 217.0 | 736.0 | 73.3 | 45.3 | 249.0 | 33.2 | 35.1 | --   | 736.0 | --   |
| Min | 6.2  | 6.1  | 3.1  | 4.1  | 6.1  | 5.1  | 2.0  | 4.1  | 5.2  | 4.2  | 5.3  | 4.2  | 8.5  | 6.4  | 5.4  | 2.2   | 8.5  | 6.3   | 9.5   | 9.4  | 8.2  | 12.2  | 10.3 | 9.2  | --   | --    | 2.0  |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, Far\_West\_conc\_PM10\_STP"**  
**Month: May 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   | 9.3  | 16.5 | 9.3  | 11.3 | 7.1  | 8.2  | 14.4 | 11.5 | 12.7 | 11.7  | 8.6  | 7.5  | 9.7   | 11.9  | 13.0  | 12.0  | 10.9  | 15.2  | 13.0  | 14.0  | 18.2  | 13.7 | 12.6 | 12.6 | 11.9 | 18.2  | 7.1  |
| 2   | 13.6 | 16.7 | 7.3  | 12.4 | 10.3 | 17.5 | 11.4 | 14.8 | 51.3 | 16.1  | 25.9 | 22.7 | 25.0  | 19.7  | 23.0  | 25.2  | 17.6  | 20.8  | 15.3  | 19.5  | 13.9  | 17.0 | 11.6 | 14.8 | 18.5 | 51.3  | 7.3  |
| 3   | 10.5 | 18.8 | 14.7 | 12.5 | 11.4 | 8.3  | 19.9 | 14.9 | 15.0 | 11.9  | 8.7  | 6.5  | 7.7   | 7.7   | 11.0  | 8.8   | 11.0  | 11.0  | 18.7  | 26.1  | 25.8  | 23.4 | 17.0 | 17.0 | 14.1 | 26.1  | 6.5  |
| 4   | 15.9 | 13.8 | 18.9 | 11.5 | 13.6 | 11.5 | 20.0 | 20.2 | 16.2 | 11.9  | 31.7 | 11.0 | 7.7   | 12.2  | 7.8   | 12.2  | 10.0  | 13.3  | 18.8  | 19.7  | 8.7   | 11.8 | 12.8 | 13.9 | 14.4 | 31.7  | 7.7  |
| 5   | 18.1 | 17.0 | 5.3  | 11.7 | 12.7 | 13.8 | 20.4 | 46.8 | 26.4 | 33.1  | 24.4 | 39.0 | 28.0  | 24.7  | 30.4  | 40.6  | 41.7  | 78.6  | 118.0 | 40.0  | 40.7  | 37.2 | 20.7 | 23.9 | 33.1 | 118.0 | 5.3  |
| 6   | 22.7 | 20.5 | 17.1 | 19.1 | 13.8 | 13.7 | 17.0 | 34.5 | 19.5 | 113.0 | 27.3 | 27.5 | 34.2  | 45.4  | 152.0 | 209.0 | 175.0 | 232.0 | 180.0 | 162.0 | 131.0 | 87.6 | 57.5 | 38.1 | 77.1 | 232.0 | 13.7 |
| 7   | 21.0 | 22.0 | 19.8 | 16.6 | 18.7 | 13.4 | 12.5 | 13.5 | 12.5 | 12.6  | 24.2 | 61.1 | 157.0 | 150.0 | 59.0  | 40.1  | 27.4  | 31.6  | 35.8  | 52.5  | 32.3  | 39.5 | 36.2 | 36.3 | 39.4 | 157.0 | 12.5 |
| 8   | 44.4 | 37.2 | 24.7 | 27.7 | 28.8 | 36.0 | 37.1 | 23.8 | 22.9 | 23.0  | 26.3 | 29.7 | 24.6  | 24.7  | 20.4  | 38.7  | 64.3  | 22.4  | 22.3  | 22.1  | 40.7  | 20.7 | 12.4 | 16.4 | 28.8 | 64.3  | 12.4 |
| 9   | 6.1  | 4.1  | 4.1  | 5.1  | 5.1  | 6.1  | 7.2  | 4.1  | 5.1  | 9.3   | 6.2  | 4.1  | 7.3   | 5.2   | 3.2   | 4.2   | 4.2   | 5.2   | 6.2   | 4.1   | 1.0   | 3.1  | 4.1  | 2.1  | 4.9  | 9.3   | 1.0  |
| 10  | 2.1  | 4.1  | 4.1  | 2.0  | 1.0  | 7.1  | 4.1  | 2.1  | 5.2  | 5.2   | 7.3  | 7.3  | 5.2   | 5.3   | 6.3   | 6.3   | 5.3   | 8.5   | 11.6  | 9.4   | 6.3   | 7.3  | 9.3  | 9.3  | 5.9  | 11.6  | 1.0  |
| 11  | 10.3 | 8.2  | 7.2  | 8.2  | 6.1  | 6.1  | 6.2  | 10.4 | 8.4  | 5.3   | 3.2  | 13.8 | 13.9  | 12.9  | 19.4  | 15.1  | 22.7  | 19.5  | 20.5  | 18.2  | 19.2  | 22.2 | 16.9 | 22.1 | 13.2 | 22.7  | 3.2  |
| 12  | 12.6 | 12.5 | 18.8 | 16.7 | 11.4 | 11.5 | 10.5 | 18.0 | 18.2 | 12.9  | 45.6 | 18.5 | 10.9  | 12.1  | 9.9   | 15.5  | 19.9  | 17.7  | 14.3  | 19.7  | 16.2  | 15.1 | 19.2 | 14.9 | 16.4 | 45.6  | 9.9  |
| 13  | 28.7 | 25.4 | 10.6 | 9.5  | 12.7 | 11.5 | 8.4  | 5.4  | 4.3  | 7.6   | 7.6  | 7.6  | 15.3  | 19.8  | 13.3  | 25.5  | 16.6  | 22.1  | 17.6  | 32.7  | 11.9  | 10.7 | 11.8 | 11.7 | 14.5 | 32.7  | 4.3  |
| 14  | 14.8 | 9.5  | 7.4  | 6.3  | 12.6 | 9.4  | 6.3  | 4.3  | 12.9 | 12.9  | 9.7  | 6.5  | 5.4   | 14.1  | 10.9  | 12.0  | 11.0  | 17.5  | 24.1  | 23.9  | 22.6  | 24.5 | 25.5 | 21.2 | 13.5 | 25.5  | 4.3  |
| 15  | 8.5  | 10.5 | 10.5 | 8.3  | 12.4 | 12.4 | 9.4  | 21.2 | 13.9 | 17.1  | 18.3 | 19.4 | 45.6  | 51.2  | 58.7  | 65.2  | 88.8  | 82.0  | 29.0  | 18.1  | 15.9  | 18.9 | 8.4  | 9.4  | 27.2 | 88.8  | 8.3  |
| 16  | 9.4  | 16.6 | 10.3 | 12.3 | 14.4 | 10.3 | 11.3 | 14.5 | 20.7 | 22.9  | 29.3 | 34.6 | 35.8  | 39.0  | 34.9  | 23.3  | 13.8  | 12.7  | 13.7  | 21.0  | 18.8  | 18.7 | 21.7 | 19.5 | 20.0 | 39.0  | 9.4  |
| 17  | 15.4 | 15.4 | 10.2 | 16.4 | 12.3 | 10.2 | 18.5 | 14.6 | 14.6 | 15.8  | 16.9 | 13.8 | 14.9  | 26.8  | 18.3  | 9.7   | 9.8   | 14.1  | 18.4  | 17.2  | 25.7  | 14.9 | 14.8 | 10.6 | 15.4 | 26.8  | 9.7  |
| 18  | 32.7 | 14.7 | 14.7 | 11.5 | 11.4 | 12.4 | 17.7 | 18.9 | 10.5 | 13.8  | 18.1 | 18.2 | 30.0  | 25.8  | 27.0  | 23.8  | 19.5  | 3.2   | 2.2   | 9.6   | 9.5   | 6.3  | 8.4  | 12.6 | 15.5 | 32.7  | 2.2  |
| 19  | 23.0 | 25.0 | 11.4 | 9.3  | 9.2  | 15.3 | 13.4 | 10.4 | 6.3  | 1.1   | -1.1 | 0.0  | 5.3   | 3.2   | 4.3   | 5.4   | 8.6   | 5.4   | 4.3   | 7.5   | 7.4   | 13.7 | 10.5 | 7.4  | 8.6  | 25.0  | -1.1 |
| 20  | 4.2  | 1.1  | 1.1  | 2.1  | 4.2  | 3.1  | 0.0  | -1.1 | -1.1 | -1.1  | 3.2  | 6.5  | 6.5   | 9.8   | 7.7   | 4.4   | 4.4   | 4.4   | 6.6   | 11.9  | 23.6  | 12.7 | 8.5  | 9.5  | 5.5  | 23.6  | -1.1 |
| 21  | 6.3  | 3.2  | 2.1  | 3.2  | 2.1  | 3.2  | 5.3  | 6.5  | 14.1 | 16.3  | 12.0 | 12.1 | 9.9   | 8.8   | 11.0  | 11.1  | 7.7   | 6.6   | 5.5   | 10.9  | 7.6   | 13.9 | 9.6  | 10.6 | 8.3  | 16.3  | 2.1  |
| 22  | 9.5  | 10.6 | 7.4  | 9.5  | 10.5 | 11.5 | 8.5  | 11.8 | 11.9 | 8.7   | 5.5  | 6.6  | 13.3  | 14.4  | 8.9   | 8.9   | 12.2  | 7.8   | 17.7  | 26.4  | 28.3  | 21.5 | 12.8 | 10.7 | 12.3 | 28.3  | 5.5  |
| 23  | 12.8 | 11.7 | 17.0 | 12.7 | 7.4  | 7.4  | 12.8 | 14.0 | --   | 12.0  | 8.8  | 8.8  | 12.2  | 12.2  | 10.0  | 6.7   | 12.3  | 12.2  | 21.1  | 23.1  | 22.9  | 19.4 | 15.0 | 15.1 | 13.4 | 23.1  | 6.7  |
| 24  | 15.0 | 16.0 | 11.7 | 10.6 | 11.6 | 11.6 | 14.9 | 16.3 | 9.8  | 8.8   | 12.1 | 11.1 | 17.8  | 19.0  | 15.7  | 16.9  | 19.1  | 21.4  | 20.2  | 31.2  | 28.8  | 18.7 | 21.9 | 26.2 | 16.9 | 31.2  | 8.8  |
| 25  | 19.5 | 14.0 | 22.6 | 24.7 | 14.0 | 12.8 | 7.5  | 16.3 | 23.9 | 19.6  | 29.6 | 9.9  | 12.1  | 19.9  | 11.1  | 12.2  | 20.0  | 25.5  | 21.0  | 26.3  | 36.0  | 33.5 | 35.4 | 28.9 | 20.7 | 36.0  | 7.5  |
| 26  | 26.5 | 24.2 | 17.8 | 17.8 | 14.6 | 14.5 | 10.5 | 9.6  | 12.9 | 16.2  | 18.4 | 28.3 | 21.9  | 19.7  | 12.1  | 12.1  | 7.7   | 7.7   | 13.1  | 21.7  | 25.9  | 11.8 | 18.0 | 15.9 | 16.6 | 28.3  | 7.7  |
| 27  | 12.7 | 7.3  | 6.3  | 5.2  | 6.2  | 8.3  | 6.3  | 12.7 | 6.4  | 1.1   | 1.1  | 5.4  | 6.5   | 6.5   | 7.7   | 6.6   | 6.6   | 8.8   | 8.7   | 13.0  | 10.7  | 11.8 | 9.5  | 12.7 | 7.8  | 13.0  | 1.1  |
| 28  | 11.6 | 15.8 | 11.5 | 12.5 | 10.4 | 13.5 | 17.8 | 14.9 | 8.6  | 13.0  | 8.7  | 14.2 | 13.2  | 24.2  | 7.7   | 7.7   | 7.8   | 13.3  | 14.3  | 12.0  | 10.8  | 9.7  | 13.9 | 12.7 | 12.5 | 24.2  | 7.7  |
| 29  | 9.5  | 10.5 | 12.6 | 10.5 | 10.5 | 12.6 | 9.5  | 8.6  | 15.2 | 28.5  | 17.6 | 34.3 | 12.2  | 11.1  | 10.0  | 7.8   | 16.7  | 16.7  | 20.0  | 19.8  | 16.4  | 22.7 | 16.2 | 17.2 | 15.3 | 34.3  | 7.8  |
| 30  | 25.7 | 19.3 | 13.9 | 10.6 | 16.9 | 13.7 | 16.0 | 25.9 | 22.8 | 19.6  | --   | --   | --    | 29.9  | 22.2  | 18.9  | 18.9  | 16.6  | 18.8  | 137.0 | 49.9  | 17.3 | 9.7  | 11.8 | 25.5 | 137.0 | 9.7  |
| 31  | 15.0 | 13.9 | 9.6  | 10.7 | 11.7 | 12.7 | 10.7 | 18.4 | 21.8 | 22.9  | 18.6 | 20.9 | 21.0  | 16.6  | 26.7  | 18.9  | 18.9  | 21.1  | 25.5  | 39.7  | 54.7  | 40.2 | 20.5 | 22.6 | 21.4 | 54.7  | 9.6  |
| Avg | 15.7 | 14.7 | 11.6 | 11.6 | 11.1 | 11.6 | 12.4 | 14.8 | 14.8 | 16.9  | 15.8 | 16.9 | 21.0  | 22.7  | 21.7  | 23.4  | 23.6  | 25.7  | 25.0  | 29.4  | 25.2  | 20.6 | 16.9 | 16.4 | 18.3 | --    | --   |
| Max | 44.4 | 37.2 | 24.7 | 27.7 | 28.8 | 36.0 | 37.1 | 46.8 | 51.3 | 113.0 | 45.6 | 61.1 | 157.0 | 150.0 | 152.0 | 209.0 | 175.0 | 232.0 | 180.0 | 162.0 | 131.0 | 87.6 | 57.5 | 38.1 | --   | 232.0 | --   |
| Min | 2.1  | 1.1  | 1.1  | 2.0  | 1.0  | 3.1  | 0.0  | -1.1 | -1.1 | -1.1  | -1.1 | 0.0  | 5.2   | 3.2   | 3.2   | 4.2   | 4.2   | 3.2   | 2.2   | 4.1   | 1.0   | 3.1  | 4.1  | 2.1  | --   | --    | -1.1 |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table100, Far\_West\_conc\_PM10\_STP"**  
**Month: Jun 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   | 20.3 | 10.7 | 14.9 | 19.1 | 21.2 | 21.2 | 15.9 | 40.7 | 18.4 | 17.4 | 21.8 | 26.3 | 29.7 | 23.1 | 24.3 | 18.8 | 16.6 | 27.7 | 29.8 | 23.0 | 38.1 | 23.8 | 31.1 | 24.5 | 23.3 | 40.7 | 10.7 |      |
| 2   | 22.3 | 21.2 | 24.2 | 24.1 | 19.9 | 17.8 | 19.0 | 10.7 | 8.6  | 20.5 | 23.9 | 28.4 | 27.5 | 26.5 | 32.1 | 33.3 | 30.0 | 23.3 | 24.4 | 29.8 | 23.0 | 25.0 | 21.6 | 24.8 | 23.4 | 33.3 | 8.6  |      |
| 3   | 18.3 | 24.7 | 26.7 | 30.8 | 26.5 | 24.3 | 45.8 | 21.6 | 17.3 | 17.4 | 27.4 | 27.5 | 21.0 | 23.4 | 26.9 | 20.2 | 15.7 | 19.1 | 14.5 | 15.6 | 22.0 | 16.4 | 19.6 | 18.4 | 22.5 | 45.8 | 14.5 |      |
| 4   | 20.4 | 25.8 | 33.3 | 26.7 | 18.2 | 10.7 | 12.9 | 10.8 | 11.9 | 16.4 | 15.4 | 12.1 | 23.3 | 21.2 | 24.6 | --   | 23.6 | 23.6 | 25.8 | 18.9 | 14.3 | 21.9 | 21.8 | 22.7 | 19.8 | 33.3 | 10.7 |      |
| 5   | 13.0 | 19.5 | 16.1 | 24.6 | 23.5 | 24.5 | 26.9 | 13.0 | 8.7  | 6.6  | 17.6 | 23.3 | --   | 25.7 | 31.4 | 22.5 | 28.1 | 29.2 | 21.3 | 20.0 | 25.4 | 19.7 | 22.9 | 17.4 | 20.9 | 31.4 | 6.6  |      |
| 6   | 22.7 | 51.7 | 22.5 | 20.3 | 11.7 | 14.9 | 15.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 17.4 | --   | --   | 51.7 | 11.7 |      |
| 7   | 20.5 | --   | --   | --   | --   | --   | --   | 4.3  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 20.5 | 4.3  |      |
| 8   | --   | --   | --   | --   | --   | --   | --   | 31.4 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 31.4 | 31.4 |      |
| 9   | --   | --   | --   | --   | --   | --   | 7.5  | 6.5  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 7.5  | 6.5  |      |
| 10  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 11  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 12  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 13  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 14  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 15  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 16  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 17  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 18  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 19  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 20  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 21  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |      |
| 22  | --   | --   | --   | --   | --   | --   | --   | --   | 22.1 | 24.4 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 24.4 | 22.1 |
| 23  | --   | --   | --   | --   | --   | --   | --   | --   | --   | 30.9 | 26.6 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 30.9 | 26.6 |
| 24  | --   | --   | --   | --   | --   | --   | --   | 17.6 | 18.8 | 12.2 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 18.8 | 12.2 |
| 25  | --   | --   | --   | --   | --   | --   | --   | 62.8 | 45.3 | 34.4 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 62.8 | 34.4 |
| 26  | --   | --   | --   | --   | --   | --   | --   | 58.0 | 49.3 | 38.5 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 58.0 | 38.5 |
| 27  | --   | --   | --   | --   | --   | --   | --   | --   | 31.9 | --   | 28.9 | --   | --   | 29.2 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 31.9 | 28.9 |
| 28  | --   | --   | --   | --   | --   | --   | --   | 14.2 | 19.7 | 18.7 | 29.7 | --   | --   | 40.1 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 40.1 | 14.2 |
| 29  | --   | --   | --   | --   | --   | --   | --   | 22.8 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 22.8 | 22.8 |
| 30  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| Avg | 19.6 | 25.6 | 22.9 | 24.3 | 20.2 | 18.9 | 20.4 | 24.2 | 22.9 | 21.6 | 23.9 | 23.5 | 25.4 | 27.0 | 27.9 | 23.7 | 22.8 | 24.6 | 23.2 | 21.5 | 24.6 | 21.4 | 22.4 | 21.5 | 22.0 | --   | --   |      |
| Max | 22.7 | 51.7 | 33.3 | 30.8 | 26.5 | 24.5 | 45.8 | 62.8 | 49.3 | 38.5 | 29.7 | 28.4 | 29.7 | 40.1 | 32.1 | 33.3 | 30.0 | 29.2 | 29.8 | 29.8 | 38.1 | 25.0 | 31.1 | 24.8 | --   | 62.8 | --   |      |
| Min | 13.0 | 10.7 | 14.9 | 19.1 | 11.7 | 10.7 | 7.5  | 4.3  | 8.6  | 6.6  | 15.4 | 12.1 | 21.0 | 21.2 | 24.3 | 18.8 | 15.7 | 19.1 | 14.5 | 15.6 | 14.3 | 16.4 | 17.4 | 17.4 | --   | --   | 4.3  |      |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: Apr 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           | 30.0 | 29.0 | 22.0 | 18.0 | 15.0 | 24.0 | 22.0 | 25.0 | 28.0 | 26.0 | 24.0 | 27.0 | 22.0 | 22.0 | 25.0 | 20.0  | 20.0 | 18.0  | 22.0  | 17.0 | 37.0 | 15.0  | 16.0 | 17.0 | 22.5 | 37.0  | 15.0 |  |
| 2           | 14.0 | 18.0 | 16.0 | 18.0 | 17.0 | 16.0 | 13.0 | 17.0 | 14.0 | 14.0 | 18.0 | 18.0 | 15.0 | 19.0 | 17.0 | 13.0  | 14.0 | 17.0  | 18.0  | 17.0 | 19.0 | 15.0  | 15.0 | 15.0 | 16.1 | 19.0  | 13.0 |  |
| 3           | 12.0 | 20.0 | 13.0 | 10.0 | 9.0  | 11.0 | 13.0 | 14.0 | 17.0 | --   | 19.0 | 20.0 | 21.0 | 15.0 | 27.0 | 38.0  | 38.0 | 24.0  | 27.0  | 23.0 | 21.0 | 237.0 | 11.0 | 10.0 | 28.3 | 237.0 | 9.0  |  |
| 4           | 17.0 | 17.0 | 10.0 | 9.0  | 8.0  | 5.0  | 2.0  | 4.0  | 5.0  | 4.0  | 9.0  | 10.0 | 15.0 | 10.0 | 20.0 | 12.0  | 8.0  | 6.0   | 9.0   | 9.0  | 8.0  | 12.0  | 11.0 | 9.0  | 9.5  | 20.0  | 2.0  |  |
| 5           | 8.0  | 6.0  | 5.0  | 4.0  | 8.0  | 22.0 | 19.0 | 28.0 | 9.0  | 8.0  | 5.0  | 4.0  | 8.0  | 6.0  | 5.0  | 2.0   | --   | --    | 36.0  | 22.0 | 15.0 | 13.0  | 10.0 | 9.0  | 11.5 | 36.0  | 2.0  |  |
| 6           | 6.0  | 19.0 | 3.0  | 6.0  | 10.0 | 9.0  | 7.0  | 5.0  | 13.0 | 10.0 | 11.0 | 12.0 | 10.0 | 9.0  | 14.0 | 9.0   | 10.0 | 27.0  | 23.0  | 14.0 | 19.0 | 22.0  | 22.0 | 16.0 | 12.7 | 27.0  | 3.0  |  |
| 7           | 22.0 | 17.0 | 14.0 | 15.0 | 16.0 | 13.0 | 16.0 | 16.0 | 12.0 | 11.0 | 11.0 | 9.0  | 10.0 | 7.0  | 10.0 | 12.0  | 16.0 | 12.0  | 14.0  | 13.0 | 17.0 | 12.0  | 17.0 | 16.0 | 13.7 | 22.0  | 7.0  |  |
| 8           | 16.0 | 10.0 | 14.0 | 15.0 | 15.0 | 12.0 | 11.0 | 17.0 | 14.0 | 12.0 | 11.0 | 25.0 | 11.0 | 15.0 | 17.0 | 20.0  | 28.0 | 14.0  | 34.0  | 23.0 | 21.0 | 22.0  | 20.0 | 18.0 | 17.3 | 34.0  | 10.0 |  |
| 9           | 17.0 | 14.0 | 20.0 | 19.0 | 23.0 | 18.0 | 26.0 | 22.0 | 27.0 | 31.0 | 25.0 | 20.0 | 26.0 | 18.0 | 23.0 | 26.0  | 24.0 | 22.0  | 22.0  | 22.0 | 22.0 | 29.0  | 20.0 | 20.0 | 22.3 | 31.0  | 14.0 |  |
| 10          | 21.0 | 22.0 | 19.0 | 19.0 | 20.0 | 21.0 | 25.0 | 24.0 | 18.0 | 21.0 | 21.0 | 19.0 | 23.0 | 14.0 | 17.0 | 17.0  | 15.0 | 29.0  | 28.0  | 25.0 | 18.0 | 12.0  | 17.0 | 18.0 | 20.1 | 29.0  | 12.0 |  |
| 11          | 23.0 | 22.0 | 14.0 | 11.0 | 16.0 | 17.0 | 24.0 | 24.0 | 27.0 | 18.0 | 27.0 | 23.0 | 19.0 | 21.0 | 21.0 | 27.0  | 27.0 | 33.0  | 24.0  | 26.0 | 26.0 | 25.0  | 26.0 | 21.0 | 22.6 | 33.0  | 11.0 |  |
| 12          | 20.0 | 19.0 | 16.0 | 17.0 | 16.0 | 12.0 | 17.0 | 23.0 | 21.0 | 20.0 | 17.0 | 14.0 | 17.0 | 14.0 | 11.0 | 9.0   | 22.0 | 18.0  | 28.0  | 23.0 | 20.0 | 22.0  | 20.0 | 17.0 | 18.0 | 28.0  | 9.0  |  |
| 13          | 15.0 | 18.0 | 14.0 | 15.0 | 16.0 | 16.0 | 15.0 | 19.0 | 29.0 | 22.0 | 20.0 | 19.0 | 21.0 | 20.0 | 27.0 | 30.0  | 30.0 | 22.0  | 22.0  | 20.0 | 25.0 | 30.0  | 19.0 | 22.0 | 21.1 | 30.0  | 14.0 |  |
| 14          | 18.0 | 23.0 | 18.0 | 13.0 | 17.0 | 18.0 | 14.0 | 15.0 | 27.0 | 41.0 | 30.0 | 21.0 | 26.0 | 22.0 | 21.0 | 19.0  | 37.0 | 25.0  | 23.0  | 27.0 | 21.0 | 18.0  | 24.0 | 27.0 | 22.7 | 41.0  | 13.0 |  |
| 15          | 36.0 | 25.0 | 22.0 | 17.0 | 12.0 | 16.0 | 42.0 | 19.0 | 15.0 | 10.0 | 7.0  | 15.0 | 11.0 | 16.0 | 48.0 | 22.0  | 17.0 | 18.0  | 20.0  | 26.0 | 25.0 | 40.0  | 32.0 | 24.0 | 22.3 | 48.0  | 7.0  |  |
| 16          | 24.0 | 20.0 | 21.0 | 18.0 | 22.0 | 17.0 | 21.0 | 19.0 | 23.0 | 22.0 | 17.0 | 15.0 | 16.0 | 15.0 | 20.0 | 23.0  | 18.0 | 20.0  | 16.0  | 16.0 | 16.0 | 19.0  | 14.0 | 17.0 | 18.7 | 24.0  | 14.0 |  |
| 17          | 18.0 | 19.0 | 14.0 | 19.0 | 18.0 | 15.0 | 12.0 | 26.0 | 29.0 | 16.0 | 10.0 | 13.0 | 12.0 | 15.0 | 17.0 | 15.0  | 21.0 | 23.0  | 9.0   | 14.0 | 29.0 | 24.0  | 20.0 | 16.0 | 17.7 | 29.0  | 9.0  |  |
| 18          | 8.0  | 11.0 | 13.0 | 14.0 | 13.0 | 12.0 | 17.0 | 26.0 | 16.0 | 14.0 | 10.0 | 11.0 | 19.0 | 16.0 | 26.0 | 22.0  | 39.0 | 17.0  | 13.0  | 31.0 | 25.0 | 14.0  | 17.0 | 23.0 | 17.8 | 39.0  | 8.0  |  |
| 19          | 21.0 | 20.0 | 16.0 | 20.0 | 17.0 | 20.0 | 26.0 | 28.0 | 19.0 | 18.0 | 12.0 | 14.0 | 29.0 | 12.0 | 20.0 | 14.0  | 18.0 | 13.0  | 14.0  | 14.0 | 26.0 | 31.0  | 24.0 | 21.0 | 19.5 | 31.0  | 12.0 |  |
| 20          | 15.0 | 15.0 | 17.0 | 16.0 | 9.0  | 9.0  | 20.0 | 10.0 | 15.0 | 14.0 | 11.0 | 10.0 | 45.0 | 14.0 | 15.0 | 21.0  | 21.0 | 20.0  | 26.0  | 21.0 | 19.0 | 23.0  | 26.0 | 16.0 | 17.8 | 45.0  | 9.0  |  |
| 21          | 20.0 | 13.0 | 15.0 | 15.0 | 14.0 | 10.0 | 11.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 16.0 | 11.0 | 15.0 | 20.0  | 30.0 | 22.0  | 20.0  | 30.0 | 35.0 | 25.0  | 18.0 | 19.0 | 18.1 | 35.0  | 10.0 |  |
| 22          | 18.0 | 18.0 | 15.0 | 15.0 | 12.0 | 13.0 | 12.0 | 32.0 | 15.0 | 10.0 | 17.0 | 11.0 | 14.0 | 17.0 | 15.0 | 12.0  | 13.0 | 11.0  | 12.0  | 24.0 | 20.0 | 20.0  | 28.0 | 21.0 | 16.5 | 32.0  | 10.0 |  |
| 23          | 21.0 | 17.0 | 13.0 | 16.0 | 16.0 | 16.0 | 37.0 | 45.0 | 48.0 | 55.0 | 40.0 | 31.0 | 21.0 | 16.0 | 15.0 | 18.0  | 22.0 | 14.0  | 16.0  | 25.0 | 37.0 | 30.0  | 26.0 | 33.0 | 26.2 | 55.0  | 13.0 |  |
| 24          | 23.0 | 17.0 | 11.0 | 9.0  | 11.0 | 17.0 | 20.0 | 14.0 | 19.0 | 30.0 | 26.0 | 35.0 | 27.0 | 42.0 | 22.0 | 30.0  | 29.0 | 27.0  | 26.0  | 23.0 | 26.0 | 21.0  | 18.0 | 25.0 | 22.8 | 42.0  | 9.0  |  |
| 25          | 24.0 | 21.0 | 17.0 | 21.0 | 27.0 | 26.0 | 28.0 | 36.0 | 45.0 | 63.0 | 74.0 | 83.0 | 86.0 | 86.0 | --   | 143.0 | 74.0 | 79.0  | 64.0  | 59.0 | 38.0 | 35.0  | 28.0 | 22.0 | 51.3 | 143.0 | 17.0 |  |
| 26          | 21.0 | 19.0 | 16.0 | 20.0 | 9.0  | 20.0 | 32.0 | 29.0 | 22.0 | 16.0 | 13.0 | 10.0 | 18.0 | 20.0 | 11.0 | 15.0  | 48.0 | 13.0  | 14.0  | 20.0 | 19.0 | 15.0  | 13.0 | 13.0 | 18.6 | 48.0  | 9.0  |  |
| 27          | 13.0 | 16.0 | 17.0 | 18.0 | 22.0 | 19.0 | 21.0 | 19.0 | 19.0 | 25.0 | 21.0 | 29.0 | 21.0 | 30.0 | 26.0 | 32.0  | 34.0 | 29.0  | 31.0  | 31.0 | 24.0 | 29.0  | 21.0 | 28.0 | 24.0 | 34.0  | 13.0 |  |
| 28          | 30.0 | 14.0 | 15.0 | 16.0 | 16.0 | 16.0 | 23.0 | 18.0 | 23.0 | 16.0 | 18.0 | 28.0 | 35.0 | 61.0 | 55.0 | 43.0  | 80.0 | 201.0 | 688.0 | 69.0 | 43.0 | 20.0  | 15.0 | 11.0 | 64.8 | 688.0 | 11.0 |  |
| 29          | 13.0 | 11.0 | 7.0  | 10.0 | 6.0  | 7.0  | 14.0 | 9.0  | 6.0  | 7.0  | 6.0  | 6.0  | 27.0 | 8.0  | 14.0 | 9.0   | 9.0  | 9.0   | 12.0  | 12.0 | 23.0 | 20.0  | 19.0 | 20.0 | 11.8 | 27.0  | 6.0  |  |
| 30          | 14.0 | 15.0 | 12.0 | 8.0  | 11.0 | 9.0  | 9.0  | 10.0 | 19.0 | 7.0  | 5.0  | 5.0  | 16.0 | 12.0 | 10.0 | 9.0   | 8.0  | 8.0   | 10.0  | 14.0 | 13.0 | 15.0  | 14.0 | 10.0 | 11.0 | 19.0  | 5.0  |  |
| Avg         | 18.6 | 17.5 | 14.6 | 14.7 | 14.7 | 15.2 | 19.0 | 20.3 | 20.3 | 19.9 | 18.3 | 19.1 | 21.9 | 20.1 | 20.1 | 23.4  | 26.6 | 27.3  | 44.0  | 23.7 | 23.6 | 28.8  | 19.4 | 18.5 | 21.2 | --    | --   |  |
| Max         | 36.0 | 29.0 | 22.0 | 21.0 | 27.0 | 26.0 | 42.0 | 45.0 | 48.0 | 63.0 | 74.0 | 83.0 | 86.0 | 86.0 | 55.0 | 143.0 | 80.0 | 201.0 | 688.0 | 69.0 | 43.0 | 237.0 | 32.0 | 33.0 | --   | 688.0 | --   |  |
| Min         | 6.0  | 6.0  | 3.0  | 4.0  | 6.0  | 5.0  | 2.0  | 4.0  | 5.0  | 4.0  | 5.0  | 4.0  | 8.0  | 6.0  | 5.0  | 2.0   | 8.0  | 6.0   | 9.0   | 9.0  | 8.0  | 12.0  | 10.0 | 9.0  | --   | --    | 2.0  |  |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: May 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  | 16.0 | 9.0  | 11.0 | 7.0  | 8.0  | 14.0 | 11.0 | 12.0 | 11.0  | 8.0  | 7.0  | 9.0   | 11.0  | 12.0  | 11.0  | 10.0  | 14.0  | 12.0  | 13.0  | 17.0  | 13.0 | 12.0 | 12.0 | 11.2 | 17.0  | 7.0  |  |
| 2           | 13.0 | 16.0 | 7.0  | 12.0 | 10.0 | 17.0 | 11.0 | 14.0 | 48.0 | 15.0  | 24.0 | 21.0 | 23.0  | 18.0  | 21.0  | 23.0  | 16.0  | 19.0  | 14.0  | 18.0  | 13.0  | 16.0 | 11.0 | 14.0 | 17.3 | 48.0  | 7.0  |  |
| 3           | 10.0 | 18.0 | 14.0 | 12.0 | 11.0 | 8.0  | 19.0 | 14.0 | 14.0 | 11.0  | 8.0  | 6.0  | 7.0   | 7.0   | 10.0  | 8.0   | 10.0  | 10.0  | 17.0  | 24.0  | 24.0  | 22.0 | 16.0 | 16.0 | 13.2 | 24.0  | 6.0  |  |
| 4           | 15.0 | 13.0 | 18.0 | 11.0 | 13.0 | 11.0 | 19.0 | 19.0 | 15.0 | 11.0  | 29.0 | 10.0 | 7.0   | 11.0  | 7.0   | 11.0  | 9.0   | 12.0  | 17.0  | 18.0  | 8.0   | 11.0 | 12.0 | 13.0 | 13.3 | 29.0  | 7.0  |  |
| 5           | 17.0 | 16.0 | 5.0  | 11.0 | 12.0 | 13.0 | 19.0 | 43.0 | 24.0 | 30.0  | 22.0 | 35.0 | 25.0  | 22.0  | 27.0  | 36.0  | 37.0  | 70.0  | 106.0 | 36.0  | 37.0  | 34.0 | 19.0 | 22.0 | 29.9 | 106.0 | 5.0  |  |
| 6           | 21.0 | 19.0 | 16.0 | 18.0 | 13.0 | 13.0 | 16.0 | 32.0 | 18.0 | 104.0 | 25.0 | 25.0 | 31.0  | 41.0  | 137.0 | 188.0 | 158.0 | 210.0 | 164.0 | 150.0 | 122.0 | 82.0 | 54.0 | 36.0 | 70.5 | 210.0 | 13.0 |  |
| 7           | 20.0 | 21.0 | 19.0 | 16.0 | 18.0 | 13.0 | 12.0 | 13.0 | 12.0 | 12.0  | 23.0 | 58.0 | 150.0 | 142.0 | 56.0  | 38.0  | 26.0  | 30.0  | 34.0  | 50.0  | 31.0  | 38.0 | 35.0 | 35.0 | 37.6 | 150.0 | 12.0 |  |
| 8           | 43.0 | 36.0 | 24.0 | 27.0 | 28.0 | 35.0 | 36.0 | 23.0 | 22.0 | 22.0  | 25.0 | 28.0 | 23.0  | 23.0  | 19.0  | 36.0  | 60.0  | 21.0  | 21.0  | 21.0  | 39.0  | 20.0 | 12.0 | 16.0 | 27.5 | 60.0  | 12.0 |  |
| 9           | 6.0  | 4.0  | 4.0  | 5.0  | 5.0  | 6.0  | 7.0  | 4.0  | 5.0  | 9.0   | 6.0  | 4.0  | 7.0   | 5.0   | 3.0   | 4.0   | 4.0   | 5.0   | 6.0   | 4.0   | 1.0   | 3.0  | 4.0  | 2.0  | 4.7  | 9.0   | 1.0  |  |
| 10          | 2.0  | 4.0  | 4.0  | 2.0  | 1.0  | 7.0  | 4.0  | 2.0  | 5.0  | 5.0   | 7.0  | 7.0  | 5.0   | 5.0   | 6.0   | 6.0   | 5.0   | 8.0   | 11.0  | 9.0   | 6.0   | 7.0  | 9.0  | 9.0  | 5.7  | 11.0  | 1.0  |  |
| 11          | 10.0 | 8.0  | 7.0  | 8.0  | 6.0  | 6.0  | 6.0  | 10.0 | 8.0  | 5.0   | 3.0  | 13.0 | 13.0  | 12.0  | 18.0  | 14.0  | 21.0  | 18.0  | 19.0  | 17.0  | 18.0  | 21.0 | 16.0 | 21.0 | 12.4 | 21.0  | 3.0  |  |
| 12          | 12.0 | 12.0 | 18.0 | 16.0 | 11.0 | 11.0 | 10.0 | 17.0 | 17.0 | 12.0  | 42.0 | 17.0 | 10.0  | 11.0  | 9.0   | 14.0  | 18.0  | 16.0  | 13.0  | 18.0  | 15.0  | 14.0 | 18.0 | 14.0 | 15.2 | 42.0  | 9.0  |  |
| 13          | 27.0 | 24.0 | 10.0 | 9.0  | 12.0 | 11.0 | 8.0  | 5.0  | 4.0  | 7.0   | 7.0  | 7.0  | 14.0  | 18.0  | 12.0  | 23.0  | 15.0  | 20.0  | 16.0  | 30.0  | 11.0  | 10.0 | 11.0 | 11.0 | 13.4 | 30.0  | 4.0  |  |
| 14          | 14.0 | 9.0  | 7.0  | 6.0  | 12.0 | 9.0  | 6.0  | 4.0  | 12.0 | 12.0  | 9.0  | 6.0  | 5.0   | 13.0  | 10.0  | 11.0  | 10.0  | 16.0  | 22.0  | 22.0  | 21.0  | 23.0 | 24.0 | 20.0 | 12.6 | 24.0  | 4.0  |  |
| 15          | 8.0  | 10.0 | 10.0 | 8.0  | 12.0 | 12.0 | 9.0  | 20.0 | 13.0 | 16.0  | 17.0 | 18.0 | 42.0  | 47.0  | 54.0  | 60.0  | 82.0  | 76.0  | 27.0  | 17.0  | 15.0  | 18.0 | 8.0  | 9.0  | 25.3 | 82.0  | 8.0  |  |
| 16          | 9.0  | 16.0 | 10.0 | 12.0 | 14.0 | 10.0 | 11.0 | 14.0 | 20.0 | 22.0  | 28.0 | 33.0 | 34.0  | 37.0  | 33.0  | 22.0  | 13.0  | 12.0  | 13.0  | 20.0  | 18.0  | 18.0 | 21.0 | 19.0 | 19.1 | 37.0  | 9.0  |  |
| 17          | 15.0 | 15.0 | 10.0 | 16.0 | 12.0 | 10.0 | 18.0 | 14.0 | 14.0 | 15.0  | 16.0 | 13.0 | 14.0  | 25.0  | 17.0  | 9.0   | 9.0   | 13.0  | 17.0  | 16.0  | 24.0  | 14.0 | 14.0 | 10.0 | 14.6 | 25.0  | 9.0  |  |
| 18          | 31.0 | 14.0 | 14.0 | 11.0 | 11.0 | 12.0 | 17.0 | 18.0 | 10.0 | 13.0  | 17.0 | 17.0 | 28.0  | 24.0  | 25.0  | 22.0  | 18.0  | 3.0   | 2.0   | 9.0   | 9.0   | 6.0  | 8.0  | 12.0 | 14.6 | 31.0  | 2.0  |  |
| 19          | 22.0 | 24.0 | 11.0 | 9.0  | 9.0  | 15.0 | 13.0 | 10.0 | 6.0  | 1.0   | -1.0 | 0.0  | 5.0   | 3.0   | 4.0   | 5.0   | 8.0   | 5.0   | 4.0   | 7.0   | 7.0   | 13.0 | 10.0 | 7.0  | 8.2  | 24.0  | -1.0 |  |
| 20          | 4.0  | 1.0  | 1.0  | 2.0  | 4.0  | 3.0  | 0.0  | -1.0 | -1.0 | -1.0  | 3.0  | 6.0  | 6.0   | 9.0   | 7.0   | 4.0   | 4.0   | 4.0   | 6.0   | 11.0  | 22.0  | 12.0 | 8.0  | 9.0  | 5.1  | 22.0  | -1.0 |  |
| 21          | 6.0  | 3.0  | 2.0  | 3.0  | 2.0  | 3.0  | 5.0  | 6.0  | 13.0 | 15.0  | 11.0 | 11.0 | 9.0   | 8.0   | 10.0  | 10.0  | 7.0   | 6.0   | 5.0   | 10.0  | 7.0   | 13.0 | 9.0  | 10.0 | 7.7  | 15.0  | 2.0  |  |
| 22          | 9.0  | 10.0 | 7.0  | 9.0  | 10.0 | 11.0 | 8.0  | 11.0 | 11.0 | 8.0   | 5.0  | 6.0  | 12.0  | 13.0  | 8.0   | 8.0   | 11.0  | 7.0   | 16.0  | 24.0  | 26.0  | 20.0 | 12.0 | 10.0 | 11.3 | 26.0  | 5.0  |  |
| 23          | 12.0 | 11.0 | 16.0 | 12.0 | 7.0  | 7.0  | 12.0 | 13.0 | --   | 11.0  | 8.0  | 8.0  | 11.0  | 11.0  | 9.0   | 6.0   | 11.0  | 11.0  | 19.0  | 21.0  | 21.0  | 18.0 | 14.0 | 14.0 | 12.3 | 21.0  | 6.0  |  |
| 24          | 14.0 | 15.0 | 11.0 | 10.0 | 11.0 | 11.0 | 14.0 | 15.0 | 9.0  | 8.0   | 11.0 | 10.0 | 16.0  | 17.0  | 14.0  | 15.0  | 17.0  | 19.0  | 18.0  | 28.0  | 26.0  | 17.0 | 20.0 | 24.0 | 15.4 | 28.0  | 8.0  |  |
| 25          | 18.0 | 13.0 | 21.0 | 23.0 | 13.0 | 12.0 | 7.0  | 15.0 | 22.0 | 18.0  | 27.0 | 9.0  | 11.0  | 18.0  | 10.0  | 11.0  | 18.0  | 23.0  | 19.0  | 24.0  | 33.0  | 31.0 | 33.0 | 27.0 | 19.0 | 33.0  | 7.0  |  |
| 26          | 25.0 | 23.0 | 17.0 | 17.0 | 14.0 | 14.0 | 10.0 | 9.0  | 12.0 | 15.0  | 17.0 | 26.0 | 20.0  | 18.0  | 11.0  | 11.0  | 7.0   | 7.0   | 12.0  | 20.0  | 24.0  | 11.0 | 17.0 | 15.0 | 15.5 | 26.0  | 7.0  |  |
| 27          | 12.0 | 7.0  | 6.0  | 5.0  | 6.0  | 8.0  | 6.0  | 12.0 | 6.0  | 1.0   | 1.0  | 5.0  | 6.0   | 6.0   | 7.0   | 6.0   | 6.0   | 8.0   | 8.0   | 12.0  | 10.0  | 11.0 | 9.0  | 12.0 | 7.3  | 12.0  | 1.0  |  |
| 28          | 11.0 | 15.0 | 11.0 | 12.0 | 10.0 | 13.0 | 17.0 | 14.0 | 8.0  | 12.0  | 8.0  | 13.0 | 12.0  | 22.0  | 7.0   | 7.0   | 7.0   | 12.0  | 13.0  | 11.0  | 10.0  | 9.0  | 13.0 | 12.0 | 11.6 | 22.0  | 7.0  |  |
| 29          | 9.0  | 10.0 | 12.0 | 10.0 | 10.0 | 12.0 | 9.0  | 8.0  | 14.0 | 26.0  | 16.0 | 31.0 | 11.0  | 10.0  | 9.0   | 7.0   | 15.0  | 15.0  | 18.0  | 18.0  | 15.0  | 21.0 | 15.0 | 16.0 | 14.0 | 31.0  | 7.0  |  |
| 30          | 24.0 | 18.0 | 13.0 | 10.0 | 16.0 | 13.0 | 15.0 | 24.0 | 21.0 | 18.0  | --   | --   | --    | 27.0  | 20.0  | 17.0  | 17.0  | 15.0  | 17.0  | 125.0 | 46.0  | 16.0 | 9.0  | 11.0 | 23.4 | 125.0 | 9.0  |  |
| 31          | 14.0 | 13.0 | 9.0  | 10.0 | 11.0 | 12.0 | 10.0 | 17.0 | 20.0 | 21.0  | 17.0 | 19.0 | 19.0  | 15.0  | 24.0  | 17.0  | 17.0  | 19.0  | 23.0  | 36.0  | 50.0  | 37.0 | 19.0 | 21.0 | 19.6 | 50.0  | 9.0  |  |
| Avg         | 14.9 | 14.0 | 11.1 | 11.1 | 10.7 | 11.2 | 11.9 | 13.9 | 13.8 | 15.6  | 14.6 | 15.6 | 19.5  | 20.9  | 19.9  | 21.3  | 21.5  | 23.4  | 22.9  | 27.1  | 23.4  | 19.3 | 15.9 | 15.5 | 17.1 | --    | --   |  |
| Max         | 43.0 | 36.0 | 24.0 | 27.0 | 28.0 | 35.0 | 36.0 | 43.0 | 48.0 | 104.0 | 42.0 | 58.0 | 150.0 | 142.0 | 137.0 | 188.0 | 158.0 | 210.0 | 164.0 | 150.0 | 122.0 | 82.0 | 54.0 | 36.0 | --   | 210.0 | --   |  |
| Min         | 2.0  | 1.0  | 1.0  | 2.0  | 1.0  | 3.0  | 0.0  | -1.0 | -1.0 | -1.0  | -1.0 | 0.0  | 5.0   | 3.0   | 3.0   | 4.0   | 4.0   | 3.0   | 2.0   | 4.0   | 1.0   | 3.0  | 4.0  | 2.0  | --   | --    | -1.0 |  |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table125, conc\_PM10"**  
**Month: Jun 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 | 10.0 | 14.0 | 18.0 | 20.0 | 20.0 | 15.0 | 38.0 | 17.0 | 16.0 | 20.0 | 24.0 | 27.0 | 21.0 | 22.0 | 17.0 | 15.0 | 25.0 | 27.0 | 21.0 | 35.0 | 22.0 | 29.0 | 23.0 | 21.5 | 38.0 | 10.0 |      |
| 2           | 21.0 | 20.0 | 23.0 | 23.0 | 19.0 | 17.0 | 18.0 | 10.0 | 8.0  | 19.0 | 22.0 | 26.0 | 25.0 | 24.0 | 29.0 | 30.0 | 27.0 | 21.0 | 22.0 | 27.0 | 21.0 | 23.0 | 20.0 | 23.0 | 21.6 | 30.0 | 8.0  |      |
| 3           | 17.0 | 23.0 | 25.0 | 29.0 | 25.0 | 23.0 | 43.0 | 20.0 | 16.0 | 16.0 | 25.0 | 25.0 | 19.0 | 21.0 | 24.0 | 18.0 | 14.0 | 17.0 | 13.0 | 14.0 | 20.0 | 15.0 | 18.0 | 17.0 | 20.7 | 43.0 | 13.0 |      |
| 4           | 19.0 | 24.0 | 31.0 | 25.0 | 17.0 | 10.0 | 12.0 | 10.0 | 11.0 | 15.0 | 14.0 | 11.0 | 21.0 | 19.0 | 22.0 | --   | 21.0 | 21.0 | 23.0 | 17.0 | 13.0 | 20.0 | 20.0 | 21.0 | 18.1 | 31.0 | 10.0 |      |
| 5           | 12.0 | 18.0 | 15.0 | 23.0 | 22.0 | 23.0 | 25.0 | 12.0 | 8.0  | 6.0  | 16.0 | 21.0 | --   | 23.0 | 28.0 | 20.0 | 25.0 | 26.0 | 19.0 | 18.0 | 23.0 | 18.0 | 21.0 | 16.0 | 19.0 | 28.0 | 6.0  |      |
| 6           | 21.0 | 48.0 | 21.0 | 19.0 | 11.0 | 14.0 | 14.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 16.0 | --   | --   | 48.0 | 11.0 |      |
| 7           | 19.0 | --   | --   | --   | --   | --   | --   | 4.0  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 19.0 | 4.0  |
| 8           | --   | --   | --   | --   | --   | --   | --   | 29.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 29.0 | 29.0 |
| 9           | --   | --   | --   | --   | --   | --   | 7.0  | 6.0  | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 7.0  | 6.0  |
| 10          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 11          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 12          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 13          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 14          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 15          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 16          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 17          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 18          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 19          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 20          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 21          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| 22          | --   | --   | --   | --   | --   | --   | --   | --   | 20.0 | 22.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 22.0 | 20.0 |
| 23          | --   | --   | --   | --   | --   | --   | --   | --   | --   | 28.0 | 24.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 28.0 | 24.0 |
| 24          | --   | --   | --   | --   | --   | --   | --   | 16.0 | 17.0 | 11.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 17.0 | 11.0 |
| 25          | --   | --   | --   | --   | --   | --   | --   | 57.0 | 41.0 | 31.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 57.0 | 31.0 |
| 26          | --   | --   | --   | --   | --   | --   | --   | 53.0 | 45.0 | 35.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 53.0 | 35.0 |
| 27          | --   | --   | --   | --   | --   | --   | --   | --   | 29.0 | --   | 26.0 | --   | --   | 26.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 29.0 | 26.0 |
| 28          | --   | --   | --   | --   | --   | --   | --   | 13.0 | 18.0 | 17.0 | 27.0 | --   | --   | 36.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 36.0 | 13.0 |
| 29          | --   | --   | --   | --   | --   | --   | --   | 21.0 | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | 21.0 | 21.0 |
| 30          | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   | --   |
| Avg         | 18.3 | 23.8 | 21.5 | 22.8 | 19.0 | 17.8 | 19.1 | 22.2 | 20.9 | 19.6 | 21.8 | 21.4 | 23.0 | 24.3 | 25.0 | 21.2 | 20.4 | 22.0 | 20.8 | 19.4 | 22.4 | 19.6 | 20.7 | 20.0 | 20.2 | --   | --   |      |
| Max         | 21.0 | 48.0 | 31.0 | 29.0 | 25.0 | 23.0 | 43.0 | 57.0 | 45.0 | 35.0 | 27.0 | 26.0 | 27.0 | 36.0 | 29.0 | 30.0 | 27.0 | 26.0 | 27.0 | 27.0 | 35.0 | 23.0 | 29.0 | 23.0 | --   | 57.0 | --   |      |
| Min         | 12.0 | 10.0 | 14.0 | 18.0 | 11.0 | 10.0 | 7.0  | 4.0  | 8.0  | 6.0  | 14.0 | 11.0 | 19.0 | 19.0 | 22.0 | 17.0 | 14.0 | 17.0 | 13.0 | 14.0 | 13.0 | 15.0 | 16.0 | 16.0 | --   | --   | 4.0  |      |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table126, conc\_PM2.5"**  
**Month: Apr 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   | 11   | 7    | 7    | 11   | 6    | 8    | 8   | 8   | 7  | 5   | 4    | 5    | 6    | 8    | 5   | 7    | 7    | 6   | 8    | 12  | 8   | 6   | 9    | 7.42 | 12  | 4   |
| 2           | 7   | 6    | 7    | 8    | 7    | 7    | 5    | 7   | 8   | 7  | 7   | 5    | 4    | 6    | 5    | 1   | 5    | 10   | 7   | 6    | 7   | 7   | 9   | 7    | 6.46 | 10  | 1   |
| 3           | 8   | 6    | 5    | 4    | 4    | 9    | 8    | 5   | 5   | 5  | 6   | 5    | 3    | 1    | 2    | 3   | 5    | 5    | 6   | 6    | 9   | 11  | 7   | 5    | 5.54 | 11  | 1   |
| 4           | 5   | 6    | 5    | 3    | 1    | 2    | 3    | 4   | 2   | 2  | 6   | 4    | 4    | 4    | 1    | 5   | 6    | 3    | 3   | 5    | 4   | 4   | 5   | 4    | 3.79 | 6   | 1   |
| 5           | 3   | 2    | 2    | 2    | 1    | -2   | 4    | 4   | 2   | 4  | 5   | 3    | 0    | 1    | 0    | 1   | --   | --   | 3   | 5    | 5   | 6   | 5   | 2    | 2.64 | 6   | -2  |
| 6           | 2   | 6    | 7    | 4    | 4    | 3    | 3    | 3   | 1   | 2  | 1   | 1    | 2    | 2    | 1    | 0   | 1    | 4    | 4   | 3    | 3   | 5   | 6   | 7    | 3.13 | 7   | 0   |
| 7           | 5   | 7    | 7    | 7    | 5    | 2    | 2    | 5   | 4   | 3  | 4   | 2    | 1    | 2    | 3    | 2   | 2    | 3    | 2   | 7    | 5   | 6   | 7   | 4    | 4.04 | 7   | 1   |
| 8           | 2   | 0    | 2    | 3    | 6    | 6    | 4    | 4   | 2   | 1  | 1   | 3    | 6    | 3    | 4    | 4   | 3    | 2    | 4   | 4    | 5   | 4   | 3   | 2    | 3.25 | 6   | 0   |
| 9           | 4   | 6    | 6    | 8    | 7    | 15   | 10   | 9   | 7   | 9  | 6   | 10   | 9    | 8    | 8    | 8   | 6    | 10   | 9   | 13   | 9   | 7   | 8   | 6    | 8.25 | 15  | 4   |
| 10          | 7   | 9    | 7    | 9    | 9    | 10   | 9    | 6   | 8   | 6  | 11  | 10   | 11   | 9    | 6    | 3   | 5    | 6    | 4   | 4    | 6   | 6   | 5   | 6    | 7.17 | 11  | 3   |
| 11          | 10  | 7    | 11   | 8    | 6    | 5    | 8    | 9   | 9   | 6  | 10  | 8    | 5    | 6    | 9    | 7   | 8    | 6    | 8   | 9    | 8   | 9   | 7   | 7    | 7.75 | 11  | 5   |
| 12          | 5   | 8    | 13   | 10   | 10   | 7    | 6    | 6   | 7   | 6  | 7   | 5    | 3    | 2    | 3    | 5   | 6    | 8    | 9   | 9    | 7   | 7   | 10  | 6    | 6.88 | 13  | 2   |
| 13          | 4   | 4    | 5    | 6    | 7    | 7    | 9    | 7   | 6   | 7  | 9   | 6    | 4    | 4    | 6    | 4   | 3    | 6    | 8   | 6    | 6   | 4   | 4   | 8    | 5.83 | 9   | 3   |
| 14          | 7   | 7    | 5    | 3    | 4    | 7    | 5    | 4   | 6   | 8  | 6   | 6    | 5    | 4    | 3    | 2   | 3    | 4    | 6   | 4    | 6   | 8   | 10  | 6    | 5.38 | 10  | 2   |
| 15          | 6   | 6    | 8    | 8    | 7    | 5    | 5    | 6   | 4   | 3  | 1   | 3    | 5    | 5    | 5    | 7   | 5    | 2    | 6   | 8    | 7   | 8   | 7   | 8    | 5.63 | 8   | 1   |
| 16          | 6   | 7    | 6    | 5    | 5    | 5    | 5    | 9   | 9   | 6  | 4   | 5    | 4    | 6    | 4    | 5   | 5    | 4    | 5   | 6    | 5   | 8   | 9   | 6    | 5.79 | 9   | 4   |
| 17          | 4   | 7    | 7    | 6    | 6    | 5    | 3    | 6   | 7   | 6  | 6   | 5    | 3    | 3    | 6    | 5   | 4    | 4    | 2   | 4    | 9   | 8   | 7   | 6    | 5.38 | 9   | 2   |
| 18          | 6   | 4    | 6    | 5    | 4    | 5    | 6    | 7   | 6   | 6  | 4   | 5    | 5    | 5    | 6    | 4   | 5    | 3    | 0   | 4    | 6   | 7   | 10  | 11   | 5.42 | 11  | 0   |
| 19          | 7   | 13   | 9    | 8    | 5    | 4    | 6    | 6   | 6   | 6  | 7   | 4    | 6    | 4    | 2    | 2   | 5    | 4    | 2   | 2    | 4   | 9   | 6   | 7    | 5.58 | 13  | 2   |
| 20          | 5   | 2    | 4    | 8    | 6    | 6    | 4    | 6   | 4   | 6  | 4   | 3    | 3    | 1    | 1    | 6   | 5    | 4    | 8   | 6    | 3   | 3   | 5   | 3    | 4.42 | 8   | 1   |
| 21          | 1   | 2    | 5    | 7    | 6    | 4    | 4    | 4   | 4   | 8  | 6   | 10   | 6    | 5    | 6    | 9   | 8    | 5    | 4   | 7    | 5   | 3   | 3   | 6    | 5.33 | 10  | 1   |
| 22          | 6   | 5    | 6    | 4    | 3    | 6    | 5    | 4   | 5   | 3  | 2   | 2    | 2    | 7    | 7    | 4   | 4    | 5    | 8   | 9    | 8   | 5   | 8   | 7    | 5.21 | 9   | 2   |
| 23          | 10  | 7    | 4    | 5    | 3    | 5    | 7    | 6   | 7   | 5  | 7   | 6    | 4    | 4    | 4    | 4   | 2    | 3    | 4   | 5    | 6   | 8   | 6   | 9    | 5.46 | 10  | 2   |
| 24          | 6   | 3    | 3    | 3    | 4    | 4    | 4    | 6   | 5   | 4  | 5   | 8    | 6    | 7    | 6    | 8   | 9    | 8    | 7   | 6    | 6   | 7   | 6   | 4    | 5.63 | 9   | 3   |
| 25          | 6   | 6    | 7    | 8    | 10   | 7    | 7    | 10  | 7   | 17 | 16  | 16   | 17   | 15   | --   | 21  | 27   | 23   | 15  | 9    | 7   | 8   | 7   | 9    | 12   | 27  | 6   |
| 26          | 6   | 6    | 6    | 12   | 7    | 4    | 6    | 12  | 9   | 8  | 5   | 2    | 2    | 3    | 3    | 2   | 6    | 3    | 5   | 4    | 2   | 4   | 5   | 6    | 5.33 | 12  | 2   |
| 27          | 4   | 5    | 6    | 11   | 9    | 7    | 5    | 9   | 7   | 14 | 8   | 5    | 6    | 7    | 21   | 14  | 9    | 9    | 5   | 3    | 6   | 6   | 4   | 2    | 7.58 | 21  | 2   |
| 28          | 9   | 7    | 6    | 6    | 4    | 3    | 5    | 6   | 6   | 7  | 23  | 10   | 13   | 10   | 6    | 8   | 8    | 14   | 43  | 7    | 9   | 5   | 2   | 2    | 9.13 | 43  | 2   |
| 29          | 6   | 4    | 2    | 3    | 6    | 3    | 4    | 5   | 3   | 1  | 3   | 7    | 3    | -1   | 1    | 0   | -1   | 0    | 2   | 2    | 3   | 5   | 4   | 3    | 2.83 | 7   | -1  |
| 30          | 5   | 4    | 2    | 1    | 3    | 3    | 4    | 3   | 10  | 7  | 10  | 13   | 7    | 16   | 2    | 4   | 4    | 2    | 0   | 7    | 5   | 3   | 2   | 2    | 4.96 | 16  | 0   |
| Avg         | 5.7 | 5.77 | 5.87 | 6.07 | 5.67 | 5.33 | 5.47 | 6.2 | 5.8 | 6  | 6.5 | 5.87 | 5.13 | 5.17 | 4.79 | 5.1 | 5.69 | 5.76 | 6.5 | 5.93 | 6.1 | 6.3 | 6.1 | 5.67 | 5.77 | --  | --  |
| Max         | 10  | 13   | 13   | 12   | 11   | 15   | 10   | 12  | 10  | 17 | 23  | 16   | 17   | 16   | 21   | 21  | 27   | 23   | 43  | 13   | 12  | 11  | 10  | 11   | --   | 43  | --  |
| Min         | 1   | 0    | 2    | 1    | 1    | -2   | 2    | 3   | 1   | 1  | 1   | 1    | 0    | -1   | 0    | 0   | -1   | 0    | 0   | 2    | 2   | 3   | 2   | 2    | --   | --  | -2  |

-- Indicates Invalid Data



**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table126, conc\_PM2.5"**  
**Month: May 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    | 4    | 4   | 15   | 4    | 5    | 3   | 5    | 3   | 1    | 0    | 3    | 3    | 2    | 1    | 1    | 2   | 1    | 0    | 4    | 2    | 0   | 1    | 1    | 2.79 | 15  | 0   |
| 2           | 5    | 5    | 4   | 3    | 4    | 5    | 3   | 3    | 6   | 4    | 2    | 6    | 7    | 4    | 15   | 9    | 7   | 4    | 3    | 2    | 4    | 6   | 7    | 6    | 5.17 | 15  | 2   |
| 3           | 6    | 4    | 4   | 5    | 3    | 3    | 3   | 1    | 0   | 2    | 4    | 3    | 5    | 4    | 10   | 8    | 6   | 11   | 7    | 10   | 7    | 4   | 5    | 6    | 5.04 | 11  | 0   |
| 4           | 4    | 5    | 5   | 5    | 3    | 2    | 3   | 4    | 4   | 3    | 5    | 5    | 2    | 0    | 5    | 11   | 8   | 6    | 6    | 6    | 8    | 9   | 7    | 6    | 5.08 | 11  | 0   |
| 5           | 5    | 4    | 2   | 3    | 3    | 1    | 7   | 5    | 5   | 4    | 3    | 3    | 4    | 4    | 6    | 7    | 6   | 6    | 12   | 10   | 6    | 6   | 5    | 5    | 5.08 | 12  | 1   |
| 6           | 5    | 6    | 4   | 2    | 4    | 6    | 6   | 4    | 7   | 8    | 5    | 1    | 2    | 5    | 8    | 16   | 14  | 19   | 21   | 33   | 30   | 22  | 35   | 9    | 11.3 | 35  | 1   |
| 7           | 6    | 5    | 2   | 4    | 7    | 4    | 10  | 9    | 6   | 10   | 7    | 8    | 26   | 21   | 7    | 8    | 6   | 6    | 9    | 11   | 10   | 7   | 7    | 7    | 8.46 | 26  | 2   |
| 8           | 7    | 6    | 7   | 5    | 4    | 7    | 6   | 5    | 5   | 5    | 4    | 4    | 7    | 7    | 10   | 8    | 8   | 7    | 6    | 7    | 8    | 11  | 7    | 4    | 6.46 | 11  | 4   |
| 9           | 6    | 7    | 5   | 3    | 3    | 6    | 7   | 6    | 5   | -14  | -7   | 5    | 3    | 1    | 2    | 4    | 3   | 3    | 2    | 4    | 3    | -1  | 1    | 3    | 2.5  | 7   | -14 |
| 10          | 1    | 3    | 2   | 1    | 3    | 3    | 4   | 4    | 4   | 4    | 4    | 3    | 4    | 4    | 6    | 5    | 5   | 3    | 2    | 5    | 5    | 3   | 4    | 5    | 3.63 | 6   | 1   |
| 11          | 6    | 3    | 3   | 4    | 2    | 6    | 4   | 2    | 2   | 13   | 9    | 7    | 4    | 4    | 3    | 3    | 6   | 5    | 6    | 7    | 6    | 8   | 5    | 7    | 5.21 | 13  | 2   |
| 12          | 8    | 7    | 6   | 5    | 3    | 6    | 5   | 6    | 8   | 5    | 5    | 4    | 6    | 4    | 4    | 4    | 4   | 5    | 5    | 8    | 9    | 6   | 5    | 3    | 5.46 | 9   | 3   |
| 13          | 4    | 6    | 6   | 4    | 3    | 3    | 4   | 4    | 3   | 3    | 6    | 3    | 2    | 5    | 4    | 2    | 3   | 3    | 2    | 12   | 9    | 7   | 8    | 8    | 4.75 | 12  | 2   |
| 14          | 5    | 3    | 4   | 3    | 5    | 5    | 5   | 5    | 5   | 7    | 6    | 8    | 6    | 6    | 5    | 2    | 5   | 4    | 6    | 6    | 11   | 8   | 9    | 9    | 5.75 | 11  | 2   |
| 15          | 9    | 6    | 9   | 7    | 6    | 8    | 6   | 8    | 7   | 12   | 8    | 6    | 8    | 5    | 4    | 9    | 10  | 7    | 8    | 6    | 7    | 6   | 3    | 3    | 7    | 12  | 3   |
| 16          | 4    | 6    | 6   | 6    | 5    | 2    | 3   | 5    | 5   | 6    | 6    | 9    | 7    | 8    | 8    | 5    | 3   | 3    | 4    | 7    | 6    | 7   | 5    | 3    | 5.38 | 9   | 2   |
| 17          | 2    | 8    | 5   | 3    | 7    | 6    | 6   | 5    | -15 | -15  | 2    | 7    | 8    | 9    | 6    | 1    | 1   | 7    | 6    | 4    | 10   | 8   | 16   | 4    | 4.21 | 16  | -15 |
| 18          | 6    | 9    | 6   | 3    | 3    | 4    | 4   | 3    | 3   | 2    | 2    | 3    | 4    | 5    | 6    | 5    | 3   | -1   | 2    | 5    | 5    | 3   | 2    | 3    | 3.75 | 9   | -1  |
| 19          | 2    | 5    | 5   | 2    | 1    | 2    | 0   | 4    | 4   | 3    | 3    | 2    | 4    | 3    | 2    | 0    | -1  | 0    | 3    | 3    | 2    | 1   | -1   | 0    | 2.04 | 5   | -1  |
| 20          | 2    | 3    | 1   | 0    | 1    | -1   | -1  | 0    | 0   | 0    | 3    | 3    | 4    | 6    | 4    | 3    | 1   | 0    | 1    | 5    | 6    | 3   | 2    | 4    | 2.08 | 6   | -1  |
| 21          | 5    | 4    | 2   | 2    | 2    | 3    | 1   | -1   | 0   | 8    | 5    | 4    | 6    | 6    | 10   | 6    | 4   | 4    | 3    | 3    | 3    | 3   | 2    | 4    | 3.71 | 10  | -1  |
| 22          | 2    | 2    | 3   | 2    | 4    | 3    | 6   | 5    | 3   | 2    | 0    | -1   | -1   | 0    | 2    | 0    | 0   | 5    | 5    | 6    | 5    | 4   | 2    | 2    | 2.54 | 6   | -1  |
| 23          | 3    | 3    | 3   | 3    | 4    | 3    | 1   | 5    | --  | 8    | 7    | 6    | 3    | 4    | 5    | 5    | 4   | 4    | 4    | 5    | 8    | 10  | 6    | 6    | 4.78 | 10  | 1   |
| 24          | 4    | 5    | 4   | 6    | 9    | 7    | 4   | 1    | 3   | 3    | 1    | -1   | 2    | 2    | 0    | 0    | 0   | 2    | 5    | 6    | 5    | 8   | 6    | 3    | 3.54 | 9   | -1  |
| 25          | 6    | 5    | 4   | 6    | 5    | 4    | 2   | 4    | 2   | 0    | 1    | 2    | 3    | 1    | 0    | 2    | 0   | -1   | 3    | 4    | 6    | 5   | 5    | 6    | 3.13 | 6   | -1  |
| 26          | 4    | 3    | 4   | 2    | 1    | 4    | 7   | 4    | 2   | 5    | 4    | 0    | 3    | 3    | 0    | 3    | 4   | 2    | 3    | 6    | 4    | 2   | 4    | 5    | 3.29 | 7   | 0   |
| 27          | 2    | 1    | 2   | 2    | 5    | 4    | 2   | 1    | 1   | 1    | 0    | 1    | 2    | 2    | 0    | 1    | 1   | -1   | 3    | 3    | 3    | 2   | 3    | 5    | 1.92 | 5   | -1  |
| 28          | 3    | 2    | 2   | 3    | 3    | 5    | 4   | 3    | 2   | 3    | 2    | 4    | 3    | 3    | 2    | -1   | -1  | 6    | 6    | 6    | 4    | 2   | 6    | 6    | 3.25 | 6   | -1  |
| 29          | 5    | 3    | 4   | 4    | 5    | 3    | 4   | 4    | 2   | 5    | 3    | 2    | 4    | 5    | 3    | 2    | 1   | 1    | 3    | 5    | 8    | 6   | 6    | 6    | 3.92 | 8   | 1   |
| 30          | 4    | 6    | 4   | 5    | 4    | 6    | 5   | 4    | 3   | 2    | --   | --   | --   | 24   | 10   | 7    | 4   | 3    | 2    | 9    | 10   | 7   | 6    | 6    | 6.24 | 24  | 2   |
| 31          | 3    | 4    | 5   | 12   | 7    | 4    | 3   | 2    | 5   | 5    | 6    | 5    | 7    | 7    | 39   | 3    | 4   | 6    | 6    | 34   | 15   | 16  | 9    | 6    | 8.88 | 39  | 2   |
| Avg         | 4.39 | 4.61 | 4.1 | 4.19 | 3.97 | 4.16 | 4.1 | 3.87 | 3   | 3.39 | 3.53 | 3.83 | 4.93 | 5.29 | 6.03 | 4.48 | 3.9 | 4.19 | 4.97 | 7.81 | 7.26 | 6.1 | 6.06 | 4.87 | 4.72 | --  | --  |
| Max         | 9    | 9    | 9   | 15   | 9    | 8    | 10  | 9    | 8   | 13   | 9    | 9    | 26   | 24   | 39   | 16   | 14  | 19   | 21   | 34   | 30   | 22  | 35   | 9    | --   | 39  | --  |
| Min         | 1    | 1    | 1   | 0    | 1    | -1   | -1  | -1   | -15 | -15  | -7   | -1   | -1   | 0    | 0    | -1   | -1  | -1   | 0    | 2    | 2    | -1  | -1   | 0    | --   | --  | -15 |

-- Indicates Invalid Data

**SAROAD for Resolution, Far\_West**  
**"Component, Channel: Table126, conc\_PM2.5"**  
**Month: Jun 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    | 6    | 4    | 5    | 4    | 5    | 7  | 19   | 7   | 7   | 13 | 8   | 8   | 6   | 3  | 1    | 3    | 6   | 6   | 7   | 9   | 8   | 10   | 8   | 6.96 | 19  | 1   |  |
| 2           | 9    | 7    | 7    | 6    | 10   | 7    | 16 | 10   | 7   | 6   | 7  | 10  | 10  | 7   | 6  | 12   | 11   | 7   | 7   | 7   | 8   | 7   | 10   | 8   | 8.42 | 16  | 6   |  |
| 3           | 8    | 7    | 5    | 5    | 7    | 7    | 6  | 6    | 4   | 8   | 7  | 7   | 6   | 8   | 8  | 4    | 11   | 9   | 7   | 11  | 14  | 11  | 8    | 5   | 7.46 | 14  | 4   |  |
| 4           | 4    | 4    | 7    | 7    | 6    | 4    | 6  | 7    | 5   | 4   | 3  | 7   | 6   | 5   | 7  | --   | 17   | 11  | 9   | 7   | 7   | 6   | 15   | 10  | 7.13 | 17  | 3   |  |
| 5           | 6    | 5    | 6    | 6    | 7    | 5    | 12 | 10   | 5   | 2   | 5  | 9   | --  | 12  | 11 | 10   | 9    | 8   | 7   | 6   | 4   | 6   | 4    | 5   | 6.96 | 12  | 2   |  |
| 6           | 8    | 9    | 8    | 5    | 6    | 4    | 2  | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | 6    | --  | --   | 9   | 2   |  |
| 7           | 5    | --   | --   | --   | --   | --   | -- | -4   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | 5   | -4  |  |
| 8           | --   | --   | --   | --   | --   | --   | -- | 9    | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | 9   | 9   |  |
| 9           | --   | --   | --   | --   | --   | --   | 7  | 5    | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | 7   | 5   |  |
| 10          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 11          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 12          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 13          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 14          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 15          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 16          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 17          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 18          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 19          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 20          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 21          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 22          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 23          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 24          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 25          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 26          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 27          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 28          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 29          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| 30          | --   | --   | --   | --   | --   | --   | -- | --   | --  | --  | -- | --  | --  | --  | -- | --   | --   | --  | --  | --  | --  | --  | --   | --  | --   | --  | --  |  |
| Avg         | 6.71 | 6.33 | 6.17 | 5.67 | 6.67 | 5.33 | 8  | 7.75 | 5.6 | 5.4 | 7  | 8.2 | 7.5 | 7.6 | 7  | 6.75 | 10.2 | 8.2 | 7.2 | 7.6 | 8.4 | 7.6 | 8.83 | 7.2 | 7.38 | --  | --  |  |
| Max         | 9    | 9    | 8    | 7    | 10   | 7    | 16 | 19   | 7   | 8   | 13 | 10  | 10  | 12  | 11 | 12   | 17   | 11  | 9   | 11  | 14  | 11  | 15   | 10  | --   | 19  | --  |  |
| Min         | 4    | 4    | 4    | 5    | 4    | 4    | 2  | -4   | 4   | 2   | 3  | 7   | 6   | 5   | 3  | 1    | 3    | 6   | 6   | 6   | 4   | 6   | 4    | 5   | --   | --  | -4  |  |

-- Indicates Invalid Data

## **Appendix C - Gaseous Analyzer Data: Hourly**

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**SAROAD for Resolution, East\_Plant, rolling 8-hour average**  
**"Component, Channel: TableAmbient\_Hourly, O3\_ppm"**  
**Month: Apr 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   | 0.0311 | 0.033  | 0.0348 | 0.0369 | 0.0395 | 0.0416 | 0.0437 | 0.0456 | 0.0475 | 0.0489 | 0.0497 | 0.0497 | 0.0489 | 0.0478 | 0.0466 | 0.0456 | 0.0444 | 0.0431 | 0.042  | 0.0406 | 0.0399 | 0.0392 | 0.0389 | 0.0389 | 0.0424 | 0.0497 | 0.0311 |
| 2   | 0.0394 | 0.0406 | 0.0419 | 0.0429 | 0.0443 | 0.0459 | 0.0478 | 0.0497 | 0.0517 | 0.0534 | 0.0543 | 0.0545 | 0.0547 | 0.0547 | 0.0544 | 0.0539 | 0.0532 | 0.0522 | 0.0508 | 0.0494 | 0.0484 | 0.0471 | 0.0456 | 0.0441 | 0.049  | 0.0547 | 0.0394 |
| 3   | 0.0436 | 0.0436 | 0.0437 | 0.0442 | 0.0451 | 0.0462 | 0.0477 | 0.0492 | 0.0508 | 0.0514 | 0.0517 | 0.0519 | 0.0514 | 0.051  | 0.0503 | 0.0501 | 0.0501 | 0.05   | 0.0499 | 0.0496 | 0.0492 | 0.0493 | 0.0485 | 0.048  | 0.0486 | 0.0519 | 0.0436 |
| 4   | 0.0482 | 0.0484 | 0.0482 | 0.0482 | 0.0481 | 0.0483 | 0.0486 | 0.0502 | 0.0514 | 0.0515 | 0.0515 | 0.0518 | 0.0518 | 0.0519 | 0.0525 | 0.0521 | 0.0504 | 0.0488 | 0.0476 | 0.0464 | 0.0454 | 0.0444 | 0.0432 | 0.0419 | 0.0488 | 0.0525 | 0.0419 |
| 5   | 0.0416 | 0.0424 | 0.0437 | 0.0447 | 0.0459 | 0.0469 | 0.0481 | 0.0494 | 0.0504 | 0.051  | 0.0513 | 0.0511 | 0.0504 | 0.0495 | 0.0485 | 0.0472 | 0.046  | 0.0451 | 0.0439 | 0.0429 | 0.0419 | 0.0413 | 0.0407 | 0.0408 | 0.046  | 0.0513 | 0.0407 |
| 6   | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0566 | 0.0555 | --     | --     | --     |
| 7   | 0.055  | 0.0545 | 0.0541 | 0.0539 | 0.0539 | 0.0536 | 0.0536 | 0.0539 | 0.0547 | 0.0551 | 0.0553 | 0.0549 | 0.054  | 0.0534 | 0.0527 | 0.0523 | 0.052  | 0.0515 | 0.051  | 0.0503 | 0.0501 | 0.0501 | 0.0498 | 0.0496 | 0.0529 | 0.0553 | 0.0496 |
| 8   | 0.0488 | 0.0485 | 0.0484 | 0.0484 | 0.0485 | 0.0489 | 0.0494 | 0.0504 | 0.0523 | 0.0547 | 0.0557 | 0.056  | 0.0547 | 0.053  | 0.0511 | 0.0496 | 0.0494 | 0.0485 | 0.0475 | 0.0475 | 0.048  | 0.0498 | 0.0514 | 0.0526 | 0.0505 | 0.056  | 0.0475 |
| 9   | 0.0543 | 0.0545 | 0.0552 | 0.0556 | 0.0557 | 0.0561 | 0.057  | 0.0587 | 0.0609 | 0.0622 | 0.0635 | 0.0643 | 0.0652 | 0.0659 | 0.0658 | 0.0653 | 0.0639 | 0.0624 | 0.0612 | 0.0597 | 0.0586 | 0.0576 | 0.0562 | 0.0557 | 0.0598 | 0.0659 | 0.0543 |
| 10  | 0.0555 | 0.0566 | 0.0579 | 0.0589 | 0.06   | 0.061  | 0.062  | 0.0637 | 0.0652 | 0.0665 | 0.0673 | 0.0679 | 0.0685 | 0.0682 | 0.0679 | 0.0677 | 0.067  | 0.0664 | 0.0659 | 0.0655 | 0.0645 | 0.0633 | 0.0626 | 0.0619 | 0.0638 | 0.0685 | 0.0555 |
| 11  | 0.0614 | 0.0613 | 0.0612 | 0.0609 | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0646 | 0.0645 | 0.0649 | 0.0649 | 0.0645 | 0.0639 | 0.0631 | 0.0624 | 0.0614 | 0.0608 | 0.0595 | --     | --     | --     |
| 12  | 0.0588 | 0.0589 | 0.0591 | 0.0594 | 0.0594 | 0.0596 | 0.0601 | 0.0607 | 0.0622 | 0.0629 | 0.0633 | 0.0637 | 0.0639 | 0.0634 | 0.063  | 0.063  | 0.0628 | 0.0628 | 0.0627 | 0.0621 | 0.0613 | 0.06   | 0.0596 | 0.0583 | 0.0613 | 0.0639 | 0.0583 |
| 13  | 0.057  | 0.0569 | 0.057  | 0.0563 | 0.0557 | 0.0556 | 0.0563 | 0.0574 | 0.0593 | 0.0606 | 0.0608 | 0.0606 | 0.0606 | 0.0603 | 0.0596 | 0.059  | 0.0581 | 0.057  | 0.0556 | 0.0542 | 0.0528 | 0.0518 | 0.0513 | 0.0503 | 0.0568 | 0.0608 | 0.0503 |
| 14  | 0.0496 | 0.0494 | 0.0495 | 0.0501 | 0.0509 | 0.0519 | 0.053  | 0.0542 | 0.0556 | 0.0565 | 0.0567 | 0.0567 | 0.0567 | 0.0574 | 0.0578 | 0.0574 | 0.0567 | 0.056  | 0.0551 | 0.0541 | 0.0533 | 0.0525 | 0.051  | 0.0494 | 0.0538 | 0.0578 | 0.0494 |
| 15  | 0.0493 | 0.0499 | 0.0506 | 0.0517 | 0.0532 | 0.0545 | 0.0559 | 0.0577 | 0.06   | 0.062  | 0.0637 | 0.0649 | 0.0658 | 0.0667 | 0.0678 | 0.0682 | 0.0682 | 0.0678 | 0.0672 | 0.0663 | 0.0663 | 0.0665 | 0.0663 | 0.0652 | 0.0615 | 0.0682 | 0.0493 |
| 16  | 0.0657 | 0.0664 | 0.0667 | 0.0671 | 0.0677 | 0.0678 | 0.0678 | 0.0681 | 0.0691 | 0.0692 | 0.0689 | 0.0691 | 0.0683 | 0.0679 | 0.0685 | 0.0691 | 0.069  | 0.0685 | 0.068  | 0.0673 | 0.0669 | 0.0669 | 0.066  | 0.0638 | 0.0677 | 0.0692 | 0.0638 |
| 17  | 0.062  | 0.0615 | 0.0615 | 0.0614 | 0.0614 | 0.061  | 0.0605 | 0.0604 | 0.0605 | 0.06   | 0.0585 | 0.0563 | 0.0539 | 0.0513 | 0.0486 | 0.0464 | 0.0443 | 0.0423 | 0.0408 | 0.0396 | 0.0389 | 0.0381 | 0.0374 | 0.0369 | 0.0518 | 0.062  | 0.0369 |
| 18  | 0.0368 | 0.0375 | 0.0384 | 0.0392 | 0.04   | 0.0409 | 0.0424 | 0.0445 | 0.0466 | 0.0484 | 0.0494 | 0.0501 | 0.0506 | 0.0509 | 0.0508 | 0.0499 | 0.0484 | 0.0468 | 0.045  | 0.043  | 0.041  | 0.0393 | 0.0372 | 0.0354 | 0.0439 | 0.0509 | 0.0354 |
| 19  | 0.0348 | 0.0345 | 0.0347 | 0.0352 | 0.036  | 0.0372 | 0.0389 | 0.0415 | 0.0447 | 0.0474 | 0.0497 | 0.0521 | 0.0539 | 0.0554 | 0.0562 | 0.0562 | 0.0563 | 0.056  | 0.0557 | 0.0557 | 0.0557 | 0.0561 | 0.0562 | 0.0564 | 0.0482 | 0.0564 | 0.0345 |
| 20  | 0.0577 | 0.0574 | 0.0579 | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0718 | 0.0711 | 0.07   | 0.0686 | 0.0673 | 0.0656 | 0.063  | 0.061  | 0.0598 | 0.0589 | 0.0579 | 0.0573 | --     | --     | --     |
| 21  | 0.0573 | 0.0574 | 0.0578 | 0.0589 | 0.0598 | 0.0609 | 0.0619 | 0.0638 | 0.0661 | 0.0687 | 0.0706 | 0.0714 | 0.0714 | 0.0707 | 0.0698 | 0.0689 | 0.0673 | 0.0651 | 0.0616 | 0.0587 | 0.0565 | 0.055  | 0.0537 | 0.0527 | 0.0627 | 0.0714 | 0.0527 |
| 22  | 0.0523 | 0.0523 | 0.0529 | 0.0538 | 0.0549 | 0.056  | 0.0571 | 0.0586 | 0.0601 | 0.0613 | 0.0626 | 0.0637 | 0.0649 | 0.0659 | 0.0666 | 0.0672 | 0.0676 | 0.068  | 0.0683 | 0.0677 | 0.0657 | 0.0627 | 0.0595 | 0.0568 | 0.0611 | 0.0683 | 0.0523 |
| 23  | 0.0544 | 0.0526 | 0.0511 | 0.0495 | 0.0489 | 0.0496 | 0.0512 | 0.0534 | 0.0558 | 0.0579 | 0.0596 | 0.0606 | 0.0615 | 0.062  | 0.0621 | 0.0617 | 0.0609 | 0.0599 | 0.0592 | 0.0585 | 0.0581 | 0.0574 | 0.0566 | 0.0564 | 0.0566 | 0.0621 | 0.0489 |
| 24  | 0.0566 | 0.057  | 0.0573 | 0.0575 | 0.0576 | 0.0578 | 0.0585 | 0.0594 | 0.06   | 0.0605 | 0.0607 | 0.0607 | 0.0606 | 0.0605 | 0.0603 | 0.06   | 0.0597 | 0.0596 | 0.0595 | 0.0594 | 0.0591 | 0.0585 | 0.0577 | 0.0565 | 0.059  | 0.0607 | 0.0565 |
| 25  | 0.0554 | 0.0543 | 0.0533 | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0585 | 0.0594 | 0.0597 | 0.0598 | 0.0602 | 0.0607 | 0.0606 | 0.0601 | 0.0596 | 0.058  | 0.0564 | 0.0554 | 0.0581 | 0.0607 | 0.0533 |
| 26  | 0.0547 | 0.054  | 0.0536 | 0.0539 | 0.0549 | 0.0556 | 0.057  | 0.0591 | 0.0613 | 0.063  | 0.0638 | 0.0638 | 0.0634 | 0.0631 | 0.0625 | 0.0615 | 0.0599 | 0.0576 | 0.0557 | 0.0547 | 0.0545 | 0.0546 | 0.0546 | 0.0546 | --     | --     | --     |
| 27  | 0.0545 | 0.0545 | 0.0548 | 0.0551 | 0.0551 | 0.0549 | 0.0548 | 0.0552 | 0.0558 | 0.0565 | 0.0572 | 0.0576 | 0.0577 | 0.0578 | 0.0577 | 0.0573 | 0.0565 | 0.055  | 0.0537 | 0.0526 | 0.0513 | 0.0503 | 0.0491 | 0.0477 | 0.0547 | 0.0578 | 0.0477 |
| 28  | 0.0463 | 0.0449 | 0.0442 | 0.0434 | 0.0427 | 0.0429 | 0.0438 | 0.0456 | 0.0481 | 0.0505 | 0.0529 | 0.0556 | 0.0586 | 0.0611 | 0.0625 | 0.0632 | 0.063  | 0.0618 | 0.0606 | 0.0598 | 0.0588 | 0.0575 | 0.0562 | 0.0554 | 0.0533 | 0.0632 | 0.0427 |
| 29  | 0.0545 | 0.0539 | 0.0539 | 0.0542 | 0.0539 | 0.0533 | 0.0524 | 0.052  | 0.0516 | 0.0515 | 0.0512 | 0.0506 | 0.0497 | 0.0489 | 0.0477 | 0.0465 | 0.0447 | 0.0437 | 0.0426 | 0.0411 | 0.0402 | 0.0398 | 0.0397 | 0.0403 | 0.0482 | 0.0545 | 0.0397 |
| 30  | 0.0416 | 0.0432 | 0.0443 | 0.0455 | 0.0472 | 0.0485 | 0.0499 | 0.0514 | 0.0529 | 0.0546 | 0.0564 | 0.0582 | 0.0596 | 0.061  | 0.0623 | 0.0632 | 0.0636 | 0.0634 | 0.0626 | 0.0615 | 0.0604 | 0.0594 | 0.058  | 0.0565 | 0.0552 | 0.0636 | 0.0416 |
| Avg | 0.051  | 0.051  | 0.0513 | 0.0514 | 0.0515 | 0.0522 | 0.0531 | 0.0544 | 0.0559 | 0.0572 | 0.0579 | 0.0584 | 0.059  | 0.0591 | 0.0589 | 0.0585 | 0.0578 | 0.0569 | 0.0559 | 0.0549 | 0.0541 | 0.0533 | 0.0526 | 0.0518 | 0.0549 | --     | --     |
| Max | 0.0657 | 0.0664 | 0.0667 | 0.0671 | 0.0677 | 0.0678 | 0.0678 | 0.0681 | 0.0691 | 0.0692 | 0.0706 | 0.0714 | 0.0718 | 0.0711 | 0.07   | 0.0691 | 0.069  | 0.0685 | 0.0683 | 0.0677 | 0.0669 | 0.0669 | 0.0663 | 0.0652 | --     | 0.0718 | --     |
| Min | 0.0311 | 0.033  | 0.0347 | 0.0352 | 0.036  | 0.0372 | 0.0389 | 0.0415 | 0.0447 | 0.0474 | 0.0494 | 0.0497 | 0.0489 | 0.0478 | 0.0466 | 0.0456 | 0.0443 | 0.0423 | 0.0408 | 0.0396 | 0.0389 | 0.0381 | 0.0372 | 0.0354 | --     | --     | 0.0311 |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant, rolling 8-hour average**  
**"Component, Channel: TableAmbient\_Hourly, O3\_ppm"**  
**Month: May 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   | 0.0556 | 0.055  | 0.0549 | 0.0548 | 0.0548 | 0.0548 | 0.0547 | 0.0555 | 0.0566 | 0.0578 | 0.0592 | 0.0602 | 0.061  | 0.0615 | 0.0619 | 0.062  | 0.0618 | 0.0612 | 0.0594 | 0.0575 | 0.0561 | 0.0551 | 0.0535 | 0.0521 | 0.0574 | 0.062  | 0.0521 |
| 2   | 0.0519 | 0.0521 | 0.0526 | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0643 | 0.0639 | 0.0634 | 0.063  | 0.0625 | 0.0617 | 0.06   | 0.0578 | 0.056  | 0.0546 | 0.0529 | 0.0515 | --     | --     | --     |
| 3   | 0.0503 | 0.0495 | 0.0487 | 0.0482 | 0.0478 | 0.0477 | 0.0478 | 0.0484 | 0.0494 | 0.0505 | 0.0513 | 0.0528 | 0.0548 | 0.0573 | 0.059  | 0.0604 | 0.0613 | 0.0612 | 0.0609 | 0.0604 | 0.0594 | 0.0577 | 0.0556 | 0.0544 | 0.0539 | 0.0613 | 0.0477 |
| 4   | 0.0535 | 0.053  | 0.0532 | 0.0533 | 0.0537 | 0.0543 | 0.0553 | 0.0568 | 0.058  | 0.0588 | 0.0597 | 0.0604 | 0.0607 | 0.0606 | 0.0606 | 0.0606 | 0.0605 | 0.0605 | 0.0609 | 0.0611 | 0.0605 | 0.0597 | 0.0591 | 0.0582 | 0.058  | 0.0611 | 0.053  |
| 5   | 0.057  | 0.0558 | 0.0548 | 0.0541 | 0.0535 | 0.0535 | 0.0541 | 0.0554 | 0.0571 | 0.0588 | 0.0601 | 0.061  | 0.061  | 0.0608 | 0.0604 | 0.0599 | 0.0586 | 0.0569 | 0.0553 | 0.0542 | 0.0529 | 0.0517 | 0.0503 | 0.0497 | 0.0561 | 0.061  | 0.0497 |
| 6   | 0.0494 | 0.0494 | 0.05   | 0.0506 | 0.0508 | 0.0514 | 0.0523 | 0.0533 | 0.0537 | 0.0539 | 0.0538 | 0.0528 | 0.0514 | 0.05   | 0.0487 | 0.0468 | 0.0449 | 0.0433 | 0.0416 | 0.04   | 0.0388 | 0.0378 | 0.0366 | 0.0356 | 0.0474 | 0.0539 | 0.0356 |
| 7   | 0.0349 | 0.0347 | 0.0346 | 0.0347 | 0.035  | 0.0355 | 0.0365 | 0.0377 | 0.039  | 0.0405 | 0.0416 | 0.0424 | 0.0432 | 0.0441 | 0.0446 | 0.0448 | 0.0446 | 0.0435 | 0.0423 | 0.0418 | 0.0417 | 0.0413 | 0.0407 | 0.0404 | 0.04   | 0.0448 | 0.0346 |
| 8   | 0.0401 | 0.0404 | 0.0415 | 0.0428 | 0.0438 | 0.0447 | 0.0457 | 0.0469 | 0.0476 | 0.0485 | 0.0488 | 0.0491 | 0.0492 | 0.0493 | 0.0494 | 0.0492 | 0.0488 | 0.0482 | 0.0476 | 0.048  | 0.0481 | 0.0478 | 0.0473 | 0.0465 | 0.0466 | 0.0494 | 0.0401 |
| 9   | 0.0461 | 0.0457 | 0.0458 | 0.0464 | 0.0467 | 0.0477 | 0.0491 | 0.0507 | 0.0519 | 0.0528 | 0.0541 | 0.0547 | 0.0535 | 0.0519 | 0.0507 | 0.05   | 0.0489 | 0.0483 | 0.048  | 0.0475 | 0.0474 | 0.0481 | 0.0484 | 0.0485 | 0.0493 | 0.0547 | 0.0457 |
| 10  | 0.0482 | 0.0481 | 0.0481 | 0.0483 | 0.0486 | 0.0494 | 0.0511 | 0.0538 | 0.0558 | 0.0579 | 0.06   | 0.0615 | 0.0624 | 0.063  | 0.0628 | 0.0622 | 0.0609 | 0.0589 | 0.0569 | 0.0551 | 0.0533 | 0.0521 | 0.0506 | 0.0501 | 0.055  | 0.063  | 0.0481 |
| 11  | 0.0498 | 0.0497 | 0.0504 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.072  | 0.0737 | 0.0743 | 0.074  | 0.0728 | 0.0702 | 0.0665 | 0.0626 | 0.0592 | 0.0561 | 0.0536 | --     | --     | --     |
| 12  | 0.0525 | 0.0523 | 0.0525 | 0.0534 | 0.0544 | 0.0558 | 0.0575 | 0.0596 | 0.0615 | 0.0634 | 0.0648 | 0.066  | 0.0669 | 0.0675 | 0.0679 | 0.0676 | 0.0674 | 0.0667 | 0.065  | 0.0632 | 0.0612 | 0.0598 | 0.0577 | 0.0559 | 0.0608 | 0.0679 | 0.0523 |
| 13  | 0.0552 | 0.0545 | 0.0543 | 0.0544 | 0.0548 | 0.0558 | 0.0561 | 0.0571 | 0.0578 | 0.0585 | 0.059  | 0.0592 | 0.0594 | 0.0595 | 0.0594 | 0.0597 | 0.06   | 0.0605 | 0.0608 | 0.0611 | 0.0611 | 0.0605 | 0.0594 | 0.0589 | 0.0582 | 0.0611 | 0.0543 |
| 14  | 0.0584 | 0.0578 | 0.0577 | 0.0576 | 0.0577 | 0.0576 | 0.0583 | 0.0593 | 0.0595 | 0.0597 | 0.0596 | 0.0587 | 0.0577 | 0.0566 | 0.0555 | 0.0544 | 0.0533 | 0.0525 | 0.0519 | 0.0505 | 0.0492 | 0.0478 | 0.0469 | 0.0471 | 0.0552 | 0.0597 | 0.0469 |
| 15  | 0.0473 | 0.048  | 0.049  | 0.0501 | 0.0519 | 0.0534 | 0.055  | 0.0557 | 0.0556 | 0.0557 | 0.0561 | 0.0562 | 0.0559 | 0.0558 | 0.0557 | 0.0554 | 0.0558 | 0.0564 | 0.0562 | 0.0554 | 0.0542 | 0.053  | 0.0519 | 0.0513 | 0.0538 | 0.0564 | 0.0473 |
| 16  | 0.0508 | 0.05   | 0.0491 | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0551 | 0.0559 | 0.0567 | 0.0574 | 0.058  | 0.0583 | 0.0578 | 0.0576 | 0.0566 | 0.0554 | 0.0532 | 0.051  | --     | --     | --     |
| 17  | 0.0505 | 0.0502 | 0.0501 | 0.0505 | 0.0503 | 0.0509 | 0.0517 | 0.0533 | 0.0549 | 0.0544 | 0.0541 | 0.0538 | 0.0527 | 0.0514 | 0.0499 | 0.0483 | 0.047  | 0.0458 | 0.0448 | 0.0436 | 0.0425 | 0.042  | 0.042  | 0.0422 | 0.049  | 0.0549 | 0.042  |
| 18  | 0.0426 | 0.0431 | 0.0438 | 0.0447 | 0.0458 | 0.0472 | 0.049  | 0.0504 | 0.0512 | 0.0513 | 0.0513 | 0.0512 | 0.0505 | 0.0494 | 0.048  | 0.0459 | 0.0438 | 0.0424 | 0.0417 | 0.041  | 0.0405 | 0.0405 | 0.0406 | 0.0409 | 0.0457 | 0.0513 | 0.0405 |
| 19  | 0.0418 | 0.043  | 0.0444 | 0.0465 | 0.0487 | 0.0504 | 0.0521 | 0.0535 | 0.0548 | 0.0559 | 0.0571 | 0.0579 | 0.0578 | 0.0574 | 0.0562 | 0.0549 | 0.054  | 0.0533 | 0.0523 | 0.0512 | 0.05   | 0.0489 | 0.0479 | 0.0477 | 0.0516 | 0.0579 | 0.0418 |
| 20  | 0.0476 | 0.0475 | 0.0475 | 0.0478 | 0.0483 | 0.049  | 0.05   | 0.0513 | 0.0526 | 0.0539 | 0.0546 | 0.0553 | 0.056  | 0.056  | 0.0556 | 0.0548 | 0.0543 | 0.0539 | 0.0536 | 0.0532 | 0.0524 | 0.0517 | 0.0513 | 0.0508 | 0.052  | 0.056  | 0.0475 |
| 21  | 0.0509 | 0.0507 | 0.0507 | 0.0511 | 0.0522 | 0.0533 | 0.0543 | 0.0554 | 0.0573 | 0.059  | 0.0605 | 0.0617 | 0.0627 | 0.0636 | 0.0644 | 0.0644 | 0.0643 | 0.0636 | 0.0623 | 0.0608 | 0.0586 | 0.0564 | 0.0535 | 0.0514 | 0.0576 | 0.0644 | 0.0507 |
| 22  | 0.0499 | 0.0488 | 0.0481 | 0.0477 | 0.0476 | 0.0479 | 0.0486 | 0.0499 | 0.0514 | 0.0535 | 0.0555 | 0.0574 | 0.0588 | 0.0597 | 0.0602 | 0.0602 | 0.0595 | 0.0579 | 0.0555 | 0.0531 | 0.0507 | 0.0485 | 0.0468 | 0.0455 | 0.0526 | 0.0602 | 0.0455 |
| 23  | 0.0449 | 0.0451 | 0.0454 | 0.0458 | 0.0462 | 0.0467 | 0.0477 | 0.0488 | 0.05   | 0.0512 | 0.0529 | 0.0552 | 0.0578 | 0.0602 | 0.0616 | 0.0618 | 0.0616 | 0.0605 | 0.0585 | 0.0558 | 0.0524 | 0.0494 | 0.0462 | 0.0442 | 0.0521 | 0.0618 | 0.0442 |
| 24  | 0.0423 | 0.0423 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0576 | 0.0584 | 0.0587 | 0.0588 | 0.0582 | 0.0574 | 0.0565 | 0.0555 | 0.0549 | 0.0546 | 0.0543 | 0.0544 | --     | --     | --     |
| 25  | 0.0546 | 0.055  | 0.0557 | 0.0563 | 0.0569 | 0.0573 | 0.0577 | 0.0577 | 0.0573 | 0.0563 | 0.0548 | 0.0533 | 0.0521 | 0.0505 | 0.0489 | 0.0474 | 0.0462 | 0.0453 | 0.0449 | 0.0447 | 0.0447 | 0.0442 | 0.0442 | 0.0437 | 0.0512 | 0.0577 | 0.0437 |
| 26  | 0.0433 | 0.043  | 0.043  | 0.0434 | 0.0443 | 0.0452 | 0.0461 | 0.0468 | 0.0481 | 0.0497 | 0.0515 | 0.0528 | 0.0537 | 0.0542 | 0.0544 | 0.0542 | 0.0543 | 0.054  | 0.0529 | 0.052  | 0.0512 | 0.0508 | 0.0494 | 0.0487 | 0.0495 | 0.0544 | 0.043  |
| 27  | 0.0483 | 0.0484 | 0.0486 | 0.0493 | 0.0492 | 0.0489 | 0.0484 | 0.0488 | 0.0486 | 0.0483 | 0.0478 | 0.0479 | 0.0482 | 0.0486 | 0.0492 | 0.0495 | 0.0496 | 0.0494 | 0.0491 | 0.0483 | 0.0467 | 0.0449 | 0.0434 | 0.0419 | 0.048  | 0.0496 | 0.0419 |
| 28  | 0.0414 | 0.0412 | 0.0416 | 0.0422 | 0.0431 | 0.044  | 0.045  | 0.0461 | 0.0473 | 0.0481 | 0.0494 | 0.0504 | 0.0509 | 0.0513 | 0.0512 | 0.0515 | 0.0518 | 0.0517 | 0.0513 | 0.0509 | 0.0504 | 0.0498 | 0.0494 | 0.0494 | 0.0479 | 0.0518 | 0.0412 |
| 29  | 0.0493 | 0.0493 | 0.0493 | 0.0501 | 0.0504 | 0.0509 | 0.0515 | 0.0523 | 0.0532 | 0.054  | 0.055  | 0.0559 | 0.056  | 0.0556 | 0.055  | 0.0545 | 0.0541 | 0.0533 | 0.0524 | 0.0516 | 0.0503 | 0.0492 | 0.0486 | 0.0486 | 0.0521 | 0.056  | 0.0486 |
| 30  | 0.0486 | 0.0483 | 0.0487 | 0.049  | 0.0491 | 0.0495 | 0.0499 | 0.0505 | 0.0507 | 0.0507 | 0.0506 | 0.0511 | 0.0518 | 0.0527 | 0.0536 | 0.0545 | 0.055  | 0.0554 | 0.0561 | 0.057  | 0.0568 | 0.0566 | 0.0559 | 0.055  | 0.0524 | 0.057  | 0.0483 |
| 31  | 0.0547 | 0.0552 | 0.0561 | 0.0567 | 0.0567 | 0.0571 | 0.0574 | 0.0582 | 0.0596 | 0.0611 | 0.0615 | 0.0611 | 0.0606 | 0.0601 | 0.0594 | 0.0588 | 0.058  | 0.0567 | 0.0549 | 0.0529 | 0.0506 | 0.0487 | 0.0468 | 0.0461 | 0.0562 | 0.0615 | 0.0461 |
| Avg | 0.0488 | 0.0486 | 0.049  | 0.0493 | 0.0497 | 0.0504 | 0.0512 | 0.0523 | 0.0533 | 0.0542 | 0.055  | 0.0556 | 0.0561 | 0.0567 | 0.0567 | 0.0564 | 0.0559 | 0.0552 | 0.0542 | 0.0532 | 0.052  | 0.0509 | 0.0497 | 0.0489 | 0.0527 | --     | --     |
| Max | 0.0584 | 0.0578 | 0.0577 | 0.0576 | 0.0577 | 0.0576 | 0.0583 | 0.0596 | 0.0615 | 0.0634 | 0.0648 | 0.066  | 0.0669 | 0.072  | 0.0737 | 0.0743 | 0.074  | 0.0728 | 0.0702 | 0.0665 | 0.0626 | 0.0605 | 0.0594 | 0.0589 | --     | 0.0743 | --     |
| Min | 0.0349 | 0.0347 | 0.0346 | 0.0347 | 0.035  | 0.0355 | 0.0365 | 0.0377 | 0.039  | 0.0405 | 0.0416 | 0.0424 | 0.0432 | 0.0441 | 0.0446 | 0.0448 | 0.0438 | 0.0424 | 0.0416 | 0.04   | 0.0388 | 0.0378 | 0.0366 | 0.0356 | --     | --     | 0.0346 |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant, rolling 8-hour average**  
**"Component, Channel: TableAmbient\_Hourly, O3\_ppm"**  
**Month: Jun 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   | 0.0455 | 0.045  | 0.0443 | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0474 | 0.048  | 0.0486 | 0.0487 | 0.0484 | 0.0483 | 0.0477 | 0.0471 | 0.0456 | 0.0444 | 0.0431 | 0.0428 | --     | --     | --     |
| 2   | 0.0429 | 0.0429 | 0.0432 | 0.0438 | 0.0448 | 0.0469 | 0.049  | 0.0517 | 0.0538 | 0.0559 | 0.0578 | 0.0592 | 0.0607 | 0.0621 | 0.0627 | 0.0628 | 0.0622 | 0.0611 | 0.0594 | 0.0576 | 0.0556 | 0.0537 | 0.0513 | 0.0498 | 0.0538 | 0.0628 | 0.0429 |
| 3   | 0.0487 | 0.048  | 0.0479 | 0.0483 | 0.0487 | 0.0494 | 0.05   | 0.0509 | 0.0518 | 0.0526 | 0.0534 | 0.054  | 0.0547 | 0.0555 | 0.0562 | 0.0568 | 0.0571 | 0.0563 | 0.0554 | 0.0538 | 0.0518 | 0.0495 | 0.0469 | 0.0446 | 0.0518 | 0.0571 | 0.0446 |
| 4   | 0.0429 | 0.0415 | 0.0409 | 0.0404 | 0.0402 | 0.0404 | 0.0411 | 0.0426 | 0.0451 | 0.048  | 0.0506 | 0.0527 | 0.0546 | 0.0563 | 0.0576 | 0.0584 | 0.0585 | 0.0574 | 0.0551 | 0.0529 | 0.0507 | 0.0485 | 0.0467 | 0.0452 | 0.0487 | 0.0585 | 0.0402 |
| 5   | 0.0443 | 0.0438 | 0.044  | 0.0436 | 0.0436 | 0.0445 | 0.0462 | 0.0488 | 0.0521 | 0.0561 | 0.0591 | 0.0611 | 0.0636 | 0.0654 | 0.066  | 0.0653 | 0.0634 | 0.0605 | 0.056  | 0.0515 | 0.0476 | 0.0439 | 0.04   | 0.0377 | 0.052  | 0.066  | 0.0377 |
| 6   | 0.0362 | 0.0355 | 0.0346 | 0.0349 | 0.036  | 0.0374 | 0.0392 | 0.042  | 0.0444 | 0.0469 | 0.0496 | 0.0522 | 0.0546 | 0.0569 | 0.0583 | 0.0585 | 0.057  | 0.0543 | 0.0511 | 0.0475 | 0.0439 | 0.0404 | 0.037  | 0.0343 | 0.0451 | 0.0585 | 0.0343 |
| 7   | 0.0322 | 0.0319 | 0.0329 | 0.0345 | 0.0363 | 0.0378 | 0.0391 | 0.0401 | 0.0413 | 0.0427 | 0.0434 | 0.0441 | 0.0454 | 0.0458 | 0.0459 | 0.046  | 0.0459 | 0.0453 | 0.0449 | 0.045  | 0.0446 | 0.043  | 0.0416 | 0.0413 | 0.0413 | 0.046  | 0.0319 |
| 8   | 0.0411 | 0.0416 | 0.0425 | 0.0431 | 0.0434 | 0.044  | 0.0451 | 0.0479 | 0.0509 | 0.0539 | 0.0561 | 0.0575 | 0.0583 | 0.059  | 0.0595 | 0.0592 | 0.0578 | 0.0555 | 0.0526 | 0.05   | 0.0485 | 0.0477 | 0.0469 | 0.0463 | 0.0504 | 0.0595 | 0.0411 |
| 9   | 0.0459 | 0.0454 | 0.0454 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0472 | 0.0468 | 0.0456 | 0.0442 | 0.0429 | 0.0416 | 0.0405 | 0.0393 | 0.0387 | 0.0386 | 0.0386 | --     | --     | --     |
| 10  | 0.0393 | 0.0402 | 0.041  | 0.0418 | 0.0428 | 0.0441 | 0.0451 | 0.0459 | 0.0468 | 0.0475 | 0.0478 | 0.0483 | 0.0493 | 0.0499 | 0.0494 | 0.0484 | 0.0477 | 0.0473 | 0.047  | 0.0462 | 0.0448 | 0.0429 | 0.0409 | 0.0403 | 0.0452 | 0.0499 | 0.0393 |
| 11  | 0.0403 | 0.0403 | 0.0404 | 0.0408 | 0.0416 | 0.0427 | 0.044  | 0.0454 | 0.0458 | 0.0456 | 0.0445 | 0.0431 | 0.0417 | 0.0409 | 0.0399 | 0.039  | 0.0381 | 0.038  | 0.0384 | 0.0395 | 0.0407 | 0.0416 | 0.0418 | 0.042  | 0.0415 | 0.0458 | 0.038  |
| 12  | 0.0422 | 0.0422 | 0.0417 | 0.0409 | 0.0404 | 0.04   | 0.0398 | 0.0402 | 0.0412 | 0.0423 | 0.0433 | 0.0442 | 0.0456 | 0.0467 | 0.0477 | 0.0487 | 0.0489 | 0.0486 | 0.0485 | 0.0481 | 0.0476 | 0.0474 | 0.0456 | 0.045  | 0.0445 | 0.0489 | 0.0398 |
| 13  | 0.0448 | 0.0453 | 0.0464 | 0.0478 | 0.05   | 0.0523 | 0.0542 | 0.0578 | 0.0606 | 0.063  | 0.0658 | 0.0682 | 0.0699 | 0.0711 | 0.0723 | 0.0724 | 0.0728 | 0.0722 | 0.0723 | 0.072  | 0.0714 | 0.0706 | 0.0694 | 0.0683 | 0.063  | 0.0728 | 0.0448 |
| 14  | 0.0682 | 0.0685 | 0.0697 | 0.0702 | 0.0684 | 0.0689 | 0.0702 | 0.0717 | 0.0735 | 0.0756 | 0.0772 | 0.0785 | 0.08   | 0.0831 | 0.0834 | 0.0831 | 0.0824 | 0.0826 | 0.0818 | 0.0794 | 0.0765 | 0.0735 | 0.071  | 0.0702 | 0.0753 | 0.0834 | 0.0682 |
| 15  | 0.0692 | 0.0689 | 0.0671 | 0.0653 | 0.0646 | 0.0641 | 0.0634 | 0.0624 | 0.061  | 0.0601 | 0.0591 | 0.0588 | 0.0589 | 0.0582 | 0.0587 | 0.0598 | 0.06   | 0.0597 | 0.0593 | 0.0584 | 0.057  | 0.0556 | 0.0549 | 0.0537 | 0.0608 | 0.0692 | 0.0537 |
| 16  | 0.0524 | 0.0523 | 0.0521 | 0.0515 | 0.0513 | 0.0515 | 0.0518 | 0.0519 | 0.0523 | 0.0524 | 0.0526 | 0.0529 | 0.0538 | 0.0544 | 0.0552 | 0.0556 | 0.0559 | 0.0546 | 0.0531 | 0.0515 | 0.0497 | 0.0476 | 0.0458 | 0.0443 | 0.0519 | 0.0559 | 0.0443 |
| 17  | 0.0429 | 0.042  | 0.0418 | 0.0426 | 0.0431 | 0.0437 | 0.0447 | 0.0463 | 0.048  | 0.0498 | 0.0515 | 0.0538 | 0.0545 | 0.0552 | 0.0554 | 0.0542 | 0.0523 | 0.0504 | 0.0485 | 0.0465 | 0.044  | 0.0428 | 0.0424 | 0.0422 | 0.0474 | 0.0554 | 0.0418 |
| 18  | 0.0425 | 0.0433 | 0.0432 | 0.0428 | 0.0422 | 0.0409 | 0.0384 | 0.0367 | 0.0361 | 0.0362 | 0.0358 | 0.0367 | 0.0377 | 0.0388 | 0.04   | 0.042  | 0.0426 | 0.043  | 0.0424 | 0.0428 | 0.0413 | 0.0404 | 0.0391 | 0.0382 | 0.0401 | 0.0433 | 0.0358 |
| 19  | 0.0366 | 0.0347 | 0.0315 | 0.0301 | 0.0276 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0232 | 0.0231 | 0.0224 | 0.0217 | 0.0205 | 0.019  | 0.0202 | 0.0209 | 0.0216 | --     | --     | --     |
| 20  | 0.0203 | 0.0202 | 0.0184 | 0.0182 | 0.0189 | 0.0201 | 0.0206 | 0.0203 | 0.0195 | 0.0206 | 0.0213 | 0.0233 | 0.0243 | 0.0235 | 0.0231 | 0.0228 | 0.0237 | 0.0257 | 0.0268 | 0.0274 | 0.028  | 0.0277 | 0.0281 | 0.0271 | 0.0229 | 0.0281 | 0.0182 |
| 21  | 0.0273 | 0.0267 | 0.0253 | 0.0231 | 0.0215 | 0.0197 | 0.0188 | 0.019  | 0.0205 | 0.0223 | 0.0253 | 0.0277 | 0.0311 | 0.0337 | 0.0357 | 0.0382 | 0.0393 | 0.0393 | 0.0377 | 0.0362 | 0.0358 | 0.0351 | 0.0344 | 0.0337 | 0.0295 | 0.0393 | 0.0188 |
| 22  | 0.0317 | 0.0293 | 0.0269 | 0.0256 | 0.0228 | 0.0216 | 0.0202 | 0.0198 | 0.0223 | 0.0256 | 0.0275 | 0.0298 | 0.0311 | 0.0338 | 0.0349 | 0.0363 | 0.0364 | 0.0342 | 0.0319 | 0.0315 | 0.0313 | 0.0308 | 0.0303 | 0.0295 | 0.029  | 0.0364 | 0.0198 |
| 23  | 0.0285 | 0.0278 | 0.0276 | 0.0271 | 0.0263 | 0.0251 | 0.0248 | 0.0249 | 0.0268 | 0.0307 | 0.0323 | 0.0336 | 0.0348 | 0.0364 | 0.0384 | 0.0395 | 0.0394 | 0.0381 | 0.0349 | 0.0334 | 0.0325 | 0.0319 | 0.0303 | 0.0285 | 0.0314 | 0.0395 | 0.0248 |
| 24  | 0.0279 | 0.0277 | 0.0266 | 0.0262 | 0.0257 | 0.024  | 0.0214 | 0.0206 | 0.0196 | 0.0208 | 0.0222 | 0.0243 | 0.0259 | 0.029  | 0.0326 | 0.0357 | 0.0385 | 0.0424 | 0.043  | 0.0427 | 0.0432 | 0.0436 | 0.0435 | 0.0439 | 0.0313 | 0.0439 | 0.0196 |
| 25  | 0.0457 | 0.0466 | 0.046  | 0.0452 | 0.0448 | 0.0434 | 0.0416 | 0.0391 | 0.0371 | 0.0352 | 0.0342 | 0.0335 | 0.0342 | 0.036  | 0.0373 | 0.0389 | 0.041  | 0.0428 | 0.0435 | 0.0435 | 0.0445 | 0.0446 | 0.0433 | 0.0421 | 0.041  | 0.0466 | 0.0335 |
| 26  | 0.0416 | 0.0416 | 0.0406 | 0.0394 | 0.0384 | 0.036  | 0.0344 | 0.0327 | 0.033  | 0.0342 | 0.0356 | 0.0364 | 0.0367 | 0.0368 | 0.0379 | 0.039  | 0.0404 | 0.0396 | 0.0379 | 0.0351 | 0.0335 | 0.0331 | 0.0319 | 0.0311 | 0.0365 | 0.0416 | 0.0311 |
| 27  | 0.0308 | 0.0314 | 0.0326 | 0.034  | --     | --     | --     | --     | --     | --     | --     | --     | --     | 0.0384 | 0.0371 | 0.0367 | 0.0366 | 0.037  | 0.037  | 0.0369 | 0.036  | 0.0356 | 0.0338 | 0.0334 | --     | --     | --     |
| 28  | 0.0331 | 0.0323 | 0.0311 | 0.0301 | 0.0292 | 0.0286 | 0.0287 | 0.0302 | 0.0296 | 0.0285 | 0.0274 | 0.0261 | 0.0265 | 0.0272 | 0.0288 | 0.029  | 0.0291 | 0.0295 | 0.03   | 0.03   | 0.0299 | 0.0286 | 0.0264 | 0.0246 | 0.0289 | 0.0331 | 0.0246 |
| 29  | 0.024  | 0.0224 | 0.0206 | 0.02   | 0.0209 | 0.0218 | 0.0226 | 0.0238 | 0.0237 | 0.023  | 0.0235 | 0.0247 | 0.0247 | 0.0242 | 0.0243 | 0.0248 | 0.0249 | 0.0248 | 0.0245 | 0.0248 | 0.0238 | 0.0236 | 0.0227 | 0.0223 | 0.0234 | 0.0249 | 0.02   |
| 30  | 0.0221 | 0.0217 | 0.0224 | 0.0234 | 0.0233 | 0.0235 | 0.0226 | 0.0226 | 0.0218 | 0.021  | 0.0216 | 0.0221 | 0.0225 | 0.0228 | 0.0236 | 0.0241 | 0.0251 | 0.0263 | 0.0274 | 0.0274 | 0.0265 | 0.0262 | 0.0256 | 0.0254 | 0.0238 | 0.0274 | 0.021  |
| Avg | 0.0397 | 0.0394 | 0.039  | 0.0384 | 0.0384 | 0.0389 | 0.0391 | 0.0398 | 0.0407 | 0.0419 | 0.043  | 0.0441 | 0.0453 | 0.0461 | 0.0468 | 0.0464 | 0.0464 | 0.046  | 0.045  | 0.044  | 0.0428 | 0.0418 | 0.0405 | 0.0396 | 0.0423 | --     | --     |
| Max | 0.0692 | 0.0689 | 0.0697 | 0.0702 | 0.0684 | 0.0689 | 0.0702 | 0.0717 | 0.0735 | 0.0756 | 0.0772 | 0.0785 | 0.08   | 0.0831 | 0.0834 | 0.0831 | 0.0824 | 0.0826 | 0.0818 | 0.0794 | 0.0765 | 0.0735 | 0.071  | 0.0702 | --     | 0.0834 | --     |
| Min | 0.0203 | 0.0202 | 0.0184 | 0.0182 | 0.0189 | 0.0197 | 0.0188 | 0.019  | 0.0195 | 0.0206 | 0.0213 | 0.0221 | 0.0225 | 0.0228 | 0.0231 | 0.0228 | 0.0231 | 0.0224 | 0.0217 | 0.0205 | 0.019  | 0.0202 | 0.0209 | 0.0216 | --     | --     | 0.0182 |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: TableAmbient\_Hourly, NO2\_ppb"**  
**Month: Apr 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   | --     | 0.145  | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 2   | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 3   | --     | --     | --     | --     | --     | --     | -0.36  | -0.696 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 4   | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 5   | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | -1.34  | -0.701 | -1.12  | -1.08  | -1.34  | -1.13  | -0.482 | -0.325 | 0.081  | -0.13  | -0.961 | -0.775 | 0.081  | -1.34  |
| 6   | -0.789 | 0.253  | 1.69   | -0.424 | -0.665 | -0.59  | -0.586 | -0.593 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 6.99   | 7.1    | 1.24   | 7.1    | -0.789 |
| 7   | 5.28   | 4.77   | 3.91   | 3.81   | 4.4    | 3      | 5.53   | 8.45   | 12.1   | 5.18   | 3.81   | 3.81   | 2.44   | 1.78   | 2.04   | 1.48   | 1.82   | 1.55   | 3.16   | 13.2   | 10.9   | 3.44   | 6.16   | 4.45   | 4.85   | 13.2   | 1.48   |
| 8   | 2.42   | 2.62   | 3.51   | 3.73   | 4.96   | 3.36   | 8.53   | 6.63   | 10.7   | 2.33   | 2.56   | 1.73   | 1.7    | 1.6    | 2.14   | 2.06   | 4.27   | 4.24   | 2.76   | 2      | 2.87   | 4.51   | 4.03   | 4.25   | 3.73   | 10.7   | 1.6    |
| 9   | 1.81   | 1.68   | 1.85   | 4.58   | 4.23   | 3.58   | 10.3   | 22.1   | 4.78   | 4.12   | 3.4    | 3.41   | 2.77   | 2.9    | 2.8    | 2.81   | 2.94   | 3.08   | 2.84   | 4.46   | 4.22   | 3.81   | 7.1    | 9.87   | 4.81   | 22.1   | 1.68   |
| 10  | 23.2   | 15     | 6.48   | 6.61   | 7.3    | 9.99   | 19.4   | 12.1   | 8.53   | 6.64   | 4.13   | 3.51   | 5.05   | 4.73   | 3.72   | 3.15   | 3.02   | 2.68   | 2.3    | 2.54   | 3.63   | 4.54   | 5.01   | 2.99   | 6.93   | 23.2   | 2.3    |
| 11  | 4.15   | 2.1    | 2.17   | 2.3    | 4.19   | 8.46   | 7.55   | 7.65   | 5.48   | --     | --     | --     | --     | -0.782 | -0.793 | -0.828 | -0.789 | -0.844 | -0.417 | -0.595 | -0.294 | 0.231  | 0.708  | 0.611  | 2.01   | 8.46   | -0.844 |
| 12  | 0.376  | -0.681 | -0.879 | -0.683 | -0.731 | -0.455 | 0.037  | 3.52   | 0.079  | -0.123 | -0.329 | -0.493 | -0.32  | -0.431 | -0.62  | -0.676 | -0.862 | -0.762 | -0.685 | -0.642 | -0.335 | 1.22   | 0.987  | -0.395 | -0.162 | 3.52   | -0.879 |
| 13  | 0.15   | -0.627 | -0.479 | -0.5   | -0.363 | -0.359 | -0.11  | 1.4    | 0.516  | 0.248  | -0.438 | -0.521 | -0.764 | -0.86  | -0.851 | -0.744 | -0.667 | -0.766 | -0.636 | -0.71  | -0.446 | 0.029  | 0.015  | -0.144 | -0.318 | 1.4    | -0.86  |
| 14  | -0.397 | -0.351 | -0.116 | -0.1   | -0.201 | -0.221 | -0.359 | 2.01   | 0.667  | -0.263 | -0.732 | -0.677 | -0.688 | -0.892 | -0.712 | -0.787 | -0.896 | -0.899 | -0.837 | -0.696 | -0.464 | 0.091  | 0.055  | 0.191  | -0.303 | 2.01   | -0.899 |
| 15  | 0.723  | 0.882  | 0.615  | 0.924  | 0.62   | 0.326  | 0.011  | 1.47   | 0.011  | -0.748 | -0.487 | -0.751 | -0.871 | -0.887 | -0.821 | -0.881 | -0.831 | -0.927 | -0.867 | -0.625 | -0.616 | -0.872 | -0.949 | 0.283  | -0.22  | 1.47   | -0.949 |
| 16  | -0.794 | -0.818 | -0.82  | 0.172  | -0.522 | -0.504 | -0.328 | 1.23   | 0.961  | -0.505 | -0.848 | -0.839 | -0.759 | -0.947 | -0.948 | -0.914 | -1.08  | -0.924 | -0.992 | -0.862 | -0.33  | -0.376 | -0.545 | -0.633 | -0.539 | 1.23   | -1.08  |
| 17  | -0.457 | -0.495 | -0.458 | -0.708 | -0.937 | -0.81  | -0.045 | 1.26   | 0.434  | -0.331 | -0.603 | -0.841 | -0.658 | -0.804 | -0.861 | -0.915 | -0.885 | -0.812 | -0.773 | -0.816 | -0.788 | 0.2    | 0.096  | -0.347 | -0.473 | 1.26   | -0.937 |
| 18  | -0.39  | -0.441 | -0.809 | -0.827 | -0.639 | -0.246 | 0.192  | 1.13   | 0.023  | -0.516 | -0.602 | -0.544 | -0.513 | -0.652 | -0.833 | -0.659 | -0.787 | -0.802 | -0.84  | -0.869 | -0.702 | -0.638 | -0.606 | -0.606 | -0.508 | 1.13   | -0.869 |
| 19  | -0.736 | -0.763 | -0.676 | -0.755 | -0.42  | -0.569 | 0.764  | 0.614  | -0.095 | -0.555 | -0.401 | -0.718 | -0.708 | -0.611 | -0.747 | -0.811 | -0.79  | -0.754 | -0.379 | -0.584 | 0.443  | -0.622 | 0.494  | 0.307  | -0.378 | 0.764  | -0.811 |
| 20  | -0.336 | -0.397 | -0.456 | -0.589 | -0.675 | -0.833 | -0.594 | 2.39   | -0.018 | --     | --     | -1.5   | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 21  | --     | --     | -0.937 | --     | --     | --     | 1.06   | 0.129  | --     | --     | --     | --     | --     | --     | --     | --     | --     | -0.353 | -0.579 | -0.679 | -1.5   | --     | --     | --     | --     | --     | --     |
| 22  | --     | --     | --     | --     | --     | --     | -0.392 | -0.286 | --     | -0.237 | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | -1.42  | -0.426 | --     | --     | --     | --     |
| 23  | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 24  | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| 25  | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | -0.301 | -0.442 | -0.741 | -0.622 | -0.798 | -1     | -1.21  | -1.12  | -0.508 | -0.309 | -0.09  | -0.132 | --     | --     | --     |
| 26  | -1.43  | -1.39  | -0.757 | 0.748  | -0.548 | -0.311 | 0.797  | -0.505 | 1.01   | -0.613 | -0.936 | -1.14  | -0.825 | -1     | -1.03  | -0.761 | -0.373 | -0.665 | -1.07  | -1.12  | -1.25  | -1.17  | -1.21  | -1.48  | -0.71  | 1.01   | -1.48  |
| 27  | -1.45  | -1.24  | -1.48  | -1.63  | -1.78  | -1.67  | -1.63  | -1.48  | -0.813 | -1.24  | -1.39  | -1.31  | -1.24  | -1.03  | -0.946 | -0.845 | -1.1   | -0.805 | -0.986 | -0.935 | -0.933 | -1.2   | -1.16  | -1.13  | -1.23  | -0.805 | -1.78  |
| 28  | -1.18  | -1.23  | -1.46  | -1.51  | -1.3   | -1.25  | -1.04  | -0.763 | -0.626 | -0.889 | -0.704 | -0.825 | -0.015 | -0.18  | -0.53  | -0.656 | -0.631 | -0.884 | -0.749 | -0.815 | -1.01  | -1.02  | -1.31  | -1.39  | -0.915 | -0.015 | -1.51  |
| 29  | -1.52  | -0.8   | -1.14  | -1.17  | -1.37  | -1.26  | -0.992 | -1.22  | -1.17  | -1.16  | -1.25  | -1.28  | -1.24  | -1.24  | -1.2   | -1.25  | -1.29  | -1.06  | -0.971 | -0.944 | -1     | -1.21  | 0.014  | 1.65   | -1     | 1.65   | -1.52  |
| 30  | 3.61   | -0.993 | -0.093 | 5.07   | 4.85   | 2.89   | 1.02   | -0.185 | -0.798 | -0.14  | -1     | -1.26  | -1.25  | -1.17  | -1.21  | -1.08  | -1.13  | -1.01  | -0.934 | -0.69  | -0.623 | -0.546 | -0.418 | -0.579 | 0.0968 | 5.07   | -1.26  |
| Avg | 1.61   | 0.818  | 0.46   | 0.953  | 1.02   | 1.13   | 2.12   | 2.89   | 2.2    | 0.622  | 0.246  | -0.014 | 0.1    | -0.114 | -0.142 | -0.202 | -0.097 | -0.147 | -0.143 | 0.428  | 0.524  | 0.418  | 1.13   | 1.14   | 0.731  | --     | --     |
| Max | 23.2   | 15     | 6.48   | 6.61   | 7.3    | 9.99   | 19.4   | 22.1   | 12.1   | 6.64   | 4.13   | 3.81   | 5.05   | 4.73   | 3.72   | 3.15   | 4.27   | 4.24   | 3.16   | 13.2   | 10.9   | 4.54   | 7.1    | 9.87   | --     | 23.2   | --     |
| Min | -1.52  | -1.39  | -1.48  | -1.63  | -1.78  | -1.67  | -1.63  | -1.48  | -1.17  | -1.24  | -1.39  | -1.5   | -1.25  | -1.34  | -1.21  | -1.25  | -1.29  | -1.34  | -1.21  | -1.12  | -1.5   | -1.42  | -1.31  | -1.48  | --     | --     | -1.78  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: TableAmbient\_Hourly, NO2\_ppb"**  
**Month: May 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   | -0.43  | 1.5    | -0.155 | -1.27  | -1.44  | -1.34  | 0.343  | 3.61   | -0.095 | -0.951 | -1.03  | -1.16  | -1.28  | -1.39  | -1.15  | -1.36  | -1.13  | -0.952 | -0.443 | -0.154 | -0.006 | -0.135 | 0.412  | -0.635 | -0.443 | 3.61   | -1.44  |
| 2   | -0.307 | -1.03  | -0.491 | -0.58  | -1.19  | -1.07  | 0.417  | 2.39   | -0.031 | --     | --     | 0.459  | 0.283  | 0.02   | 0.335  | 0.276  | 0.201  | 0.45   | 0.949  | 0.836  | 2.85   | 0.484  | 0.206  | -0.091 | 0.244  | 2.85   | -1.19  |
| 3   | -0.195 | -0.261 | 0.286  | 0.754  | 0.448  | 1.16   | 3.58   | 0.774  | 1.92   | 1.16   | 1.35   | 0.465  | 0.053  | 0.235  | -0.065 | -0.137 | -0.119 | -0.113 | -0.08  | 0.39   | 0.931  | 1.15   | 4.72   | 3.11   | 0.897  | 4.72   | -0.261 |
| 4   | 1.28   | 0.547  | 0.726  | 0.86   | 0.725  | 1.4    | 2.14   | 1.83   | 3.38   | 3.13   | 0.442  | 0.767  | 1.27   | 0.625  | 0.132  | 0.195  | 0.032  | 0.078  | -0.055 | -0.106 | 0.601  | 0.831  | 0.276  | 0.455  | 0.899  | 3.38   | -0.106 |
| 5   | 0.438  | 0.227  | 0.25   | 0.933  | 0.433  | 1.56   | 0.641  | 1.3    | 1.19   | 1.2    | 1.03   | 0.596  | 0.582  | 0.504  | 0.341  | 0.233  | 0.534  | 0.33   | 0.056  | 0.013  | -0.016 | -0.049 | -0.022 | -0.082 | 0.509  | 1.56   | -0.082 |
| 6   | -0.203 | -0.345 | -0.405 | -0.479 | -0.112 | 0.222  | 1.68   | 0.956  | 0.395  | 0.146  | 0.481  | 0.232  | -0.067 | -0.018 | -0.043 | -0.13  | -0.144 | -0.175 | 0.073  | 0.548  | 0.072  | 0.217  | -0.128 | -0.106 | 0.111  | 1.68   | -0.479 |
| 7   | -0.15  | -0.047 | -0.223 | -0.376 | -0.27  | 0.28   | 0.774  | 0.182  | 0.36   | 0.391  | 0.504  | 0.511  | 0.48   | 0.477  | 0.301  | 0.258  | 0.055  | -0.037 | -0.192 | -0.085 | -0.215 | -0.18  | -0.057 | -0.039 | 0.113  | 0.774  | -0.376 |
| 8   | 1.1    | 2.81   | 2.12   | 0.845  | 0.349  | 1.05   | 1.7    | 0.713  | 0.967  | 0.721  | 0.649  | 0.472  | 0.649  | 0.915  | 0.622  | 0.73   | 0.859  | 0.781  | 0.229  | 0.232  | 0.225  | 0.127  | -0.082 | 0.187  | 0.79   | 2.81   | -0.082 |
| 9   | 0.219  | 1.2    | 0.391  | 0.104  | 0.293  | 0.758  | 0.991  | 0.787  | 0.7    | 1.25   | 1.21   | 1.15   | 1.31   | 1.38   | 1.37   | 1.43   | 1.15   | 1.53   | 1.64   | 2.2    | 4.45   | 4.57   | 2.22   | 0.881  | 1.38   | 4.57   | 0.104  |
| 10  | 1.06   | 0.869  | 0.748  | 0.786  | 0.815  | 1.42   | 2.65   | 1.77   | 1.55   | 1.38   | 1.21   | 1.12   | 0.922  | 1.11   | 1.48   | 1.75   | 1.61   | 1.4    | 1.43   | 1.34   | 1.43   | 1.2    | 2.65   | 1.45   | 1.38   | 2.65   | 0.748  |
| 11  | 1.6    | 3.88   | 2.38   | 1.79   | 0.911  | 0.534  | 3.41   | 2.11   | --     | --     | --     | --     | 1.38   | 1.15   | 0.968  | 0.892  | 1.03   | 1.24   | 2.43   | 2.38   | 2.1    | 1.72   | 0.955  | 0.659  | 1.68   | 3.88   | 0.534  |
| 12  | 0.648  | 1.04   | 1      | 0.553  | 1.51   | 2.33   | 4.02   | 7.37   | 4.83   | 1.95   | 1.04   | 0.777  | 0.634  | 0.828  | 0.912  | 0.727  | 0.513  | 0.399  | 0.374  | 0.834  | 0.683  | 0.816  | 0.311  | 1.95   | 1.5    | 7.37   | 0.311  |
| 13  | 0.936  | 1.4    | 0.73   | 0.414  | 0.381  | -0.219 | 1.31   | 0.904  | 0.118  | 0.279  | 0.27   | 0.13   | 0.156  | 0.228  | 0.165  | 0.375  | -0.005 | -0.106 | -0.157 | -0.25  | -0.305 | -0.191 | -0.273 | -0.464 | 0.243  | 1.4    | -0.464 |
| 14  | -0.496 | -0.383 | -0.572 | -0.43  | -0.395 | 0.508  | 1.98   | 0.221  | 0.254  | 0.357  | 0.084  | 0.083  | 0.048  | -0.049 | -0.076 | 0.057  | -0.103 | 0.05   | -0.176 | -0.114 | 0.373  | 0.33   | 0.423  | 0.469  | 0.102  | 1.98   | -0.572 |
| 15  | 0.468  | -0.154 | -0.298 | 0.731  | 2.41   | 3.81   | 1.98   | 0.227  | 0.242  | 0.133  | 0.09   | 0.356  | 0.024  | 0.057  | 0.05   | 0.045  | 0.012  | -0.106 | -0.291 | -0.335 | -0.188 | -0.186 | -0.362 | -0.258 | 0.352  | 3.81   | -0.362 |
| 16  | -0.417 | -0.504 | -0.418 | -0.457 | 0.384  | 1.15   | 0.419  | 0.148  | --     | --     | --     | 0.124  | -0.098 | -0.236 | -0.152 | -0.134 | -0.391 | -0.385 | -0.553 | -0.046 | 0.218  | 2.77   | 1.84   | -0.225 | 0.144  | 2.77   | -0.553 |
| 17  | -0.19  | 0.609  | 1.78   | -0.297 | 2.72   | 0.688  | 3.05   | 0.158  | -0.086 | 0.131  | -0.207 | -0.093 | -0.082 | -0.089 | 0.06   | -0.274 | -0.243 | -0.421 | -0.254 | -0.374 | -0.304 | -0.41  | -0.219 | -0.404 | 0.219  | 3.05   | -0.421 |
| 18  | -0.22  | -0.42  | -0.228 | -0.476 | -0.339 | -0.102 | 0.071  | 0.043  | 0.198  | 0.042  | 0.052  | -0.007 | -0.109 | 0.026  | 0.492  | -0.142 | -0.199 | -0.283 | -0.078 | 0.167  | 0.175  | -0.063 | -0.257 | 0.214  | -0.06  | 0.492  | -0.476 |
| 19  | 0.767  | -0.221 | -0.263 | -0.007 | -0.468 | -0.364 | -0.086 | -0.13  | 0.095  | 0.006  | -0.013 | 0.108  | -0.186 | 0.004  | -0.196 | -0.363 | -0.444 | -0.566 | -0.068 | 0.186  | 0.396  | 0.685  | 0.588  | 0.057  | -0.02  | 0.767  | -0.566 |
| 20  | -0.445 | -0.529 | -0.352 | -0.451 | -0.297 | -0.07  | -0.336 | -0.281 | -0.287 | -0.279 | -0.244 | -0.077 | -0.163 | -0.09  | -0.029 | 0.21   | -0.175 | -0.397 | -0.451 | -0.303 | -0.113 | 0.438  | 0.011  | 0.574  | -0.172 | 0.574  | -0.529 |
| 21  | -0.122 | -0.369 | -0.456 | 0.834  | 0.321  | -0.326 | -0.409 | 3.12   | -0.183 | 0.3    | 0.17   | 0.226  | 0.001  | -0.04  | -0.207 | -0.462 | -0.321 | -0.182 | -0.135 | -0.003 | 0.167  | 0.151  | 0.247  | -0.106 | 0.0925 | 3.12   | -0.462 |
| 22  | -0.44  | -0.704 | -0.488 | 0.348  | 0.62   | 1.86   | 3.07   | 0.225  | 0.671  | 0.983  | 0.538  | 0.281  | -0.039 | -0.179 | -0.287 | -0.292 | -0.131 | 0.113  | 0.11   | 0.348  | 0.432  | 0.49   | 0.584  | 0.172  | 0.345  | 3.07   | -0.704 |
| 23  | 1.65   | 0.839  | 2.1    | 2.04   | 0.443  | 2.66   | 1.75   | 0.67   | 0.188  | 0.108  | -0.074 | -0.296 | -0.196 | -0.31  | -0.265 | -0.145 | -0.23  | -0.127 | 0.123  | 0.768  | 1.22   | 1.07   | 1.74   | 1.68   | 0.726  | 2.66   | -0.31  |
| 24  | 1.07   | 0.34   | 0.165  | 0.316  | 2.22   | 0.402  | 2.02   | 2.7    | --     | --     | 0.424  | -0.232 | -0.326 | -0.448 | -0.5   | -0.247 | -0.58  | -0.216 | -0.389 | -0.46  | -0.293 | -0.619 | -0.723 | -0.758 | 0.176  | 2.7    | -0.758 |
| 25  | -0.793 | -0.884 | -0.935 | -0.937 | -0.883 | -0.962 | -0.825 | -0.722 | -0.676 | -0.534 | -0.334 | -0.127 | -0.376 | -0.421 | -0.589 | -0.686 | -0.522 | -0.708 | -0.857 | -0.931 | -0.886 | -0.874 | -1     | -0.847 | -0.721 | -0.127 | -1     |
| 26  | -0.883 | -0.974 | -0.994 | -0.957 | -0.917 | -0.771 | -0.714 | -0.339 | -0.275 | -0.429 | -0.545 | -0.635 | -0.747 | -0.662 | -0.663 | -0.605 | -0.625 | -0.78  | -0.681 | -0.913 | -0.885 | -0.834 | -0.653 | -0.81  | -0.72  | -0.275 | -0.994 |
| 27  | -0.493 | -0.337 | -0.02  | -0.357 | -0.739 | -0.96  | 2.33   | 0.588  | -0.762 | -0.744 | -0.469 | -0.56  | -0.732 | -0.702 | -0.646 | -0.776 | -0.673 | -0.667 | -0.712 | -0.166 | 0.122  | -0.154 | -0.315 | 3.42   | -0.188 | 3.42   | -0.96  |
| 28  | 2.88   | 4.82   | -0.01  | -0.299 | -0.753 | -0.802 | 1.5    | 3.21   | 0.831  | -0.017 | -0.154 | -0.008 | -0.129 | -0.327 | -0.466 | -0.635 | -0.549 | -0.697 | -0.818 | -0.816 | -0.739 | -0.022 | 1.59   | -0.653 | 0.289  | 4.82   | -0.818 |
| 29  | -0.393 | 0.595  | 2.65   | 0.98   | -0.339 | 0.489  | 0.163  | -0.192 | -0.008 | -0.135 | -0.051 | 0.358  | 0.363  | -0.049 | -0.421 | -0.479 | -0.556 | -0.447 | -0.577 | -0.53  | -0.261 | -0.056 | 1.79   | 0.977  | 0.161  | 2.65   | -0.577 |
| 30  | 0.922  | 0.485  | 0.677  | -0.485 | 0.088  | 0.234  | 0.965  | 0.199  | -0.118 | -0.06  | -0.144 | -0.062 | -0.149 | -0.15  | -0.2   | -0.31  | -0.405 | -0.557 | -0.538 | 0.094  | 0.003  | -0.083 | -0.197 | -0.163 | 0.0019 | 0.965  | -0.557 |
| 31  | 0.181  | 0.12   | 0.404  | 0.14   | 0.121  | 0.593  | 0.934  | 2.09   | 1.17   | 0.601  | 0.046  | 0.029  | 0.21   | -0.157 | -0.264 | -0.202 | -0.291 | -0.28  | -0.483 | -0.59  | -0.089 | 0.16   | -0.624 | -0.646 | 0.133  | 2.09   | -0.646 |
| Avg | 0.292  | 0.455  | 0.326  | 0.148  | 0.227  | 0.52   | 1.34   | 1.18   | 0.591  | 0.412  | 0.226  | 0.166  | 0.119  | 0.0721 | 0.0327 | -0.007 | -0.059 | -0.059 | -0.018 | 0.134  | 0.392  | 0.431  | 0.505  | 0.321  | 0.322  | --     | --     |
| Max | 2.88   | 4.82   | 2.65   | 2.04   | 2.72   | 3.81   | 4.02   | 7.37   | 4.83   | 3.13   | 1.35   | 1.15   | 1.38   | 1.38   | 1.48   | 1.75   | 1.61   | 1.53   | 2.43   | 2.38   | 4.45   | 4.57   | 4.72   | 3.42   | --     | 7.37   | --     |
| Min | -0.883 | -1.03  | -0.994 | -1.27  | -1.44  | -1.34  | -0.825 | -0.722 | -0.762 | -0.951 | -1.03  | -1.16  | -1.28  | -1.39  | -1.15  | -1.36  | -1.13  | -0.952 | -0.857 | -0.931 | -0.886 | -0.874 | -1     | -0.847 | --     | --     | -1.44  |

-- I Indicates Invalid Data



**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: TableAmbient\_Hourly, NO2\_ppb"**  
**Month: Jun 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   | -0.791 | -0.556 | -0.543 | -0.506 | 4.96   | 2.25   | 7.15   | 1.41   | --     | --     | --     | 0.075  | -0.361 | -0.522 | -0.44  | -0.301 | -0.618 | -0.543 | -0.823 | -0.812 | -0.738 | -0.392 | 0.181  | 1.39   | 0.451  | 7.15  | -0.823 |
| 2   | 1.21   | 0.593  | 0.708  | 0.561  | 3      | 1.72   | 4.27   | 0.49   | -0.024 | 0.624  | 0.308  | 0.14   | 0.065  | 0.082  | -0.168 | 0.137  | 0.03   | -0.144 | -0.081 | -0.195 | -0.239 | -0.011 | 0.581  | 2.01   | 0.653  | 4.27  | -0.239 |
| 3   | 2.07   | 0.292  | 0.87   | 1.48   | 2.35   | 0.939  | 4.37   | 0.948  | 0.107  | 0.558  | 0.379  | 0.142  | -0.181 | -0.048 | -0.378 | -0.329 | -0.454 | -0.425 | -0.574 | -0.517 | -0.279 | -0.266 | -0.013 | -0.09  | 0.457  | 4.37  | -0.574 |
| 4   | -0.215 | -0.223 | -0.148 | 0.37   | -0.394 | 0.874  | 1.93   | 0.22   | -0.295 | -0.197 | -0.493 | -0.393 | -0.561 | -0.42  | -0.528 | -0.471 | -0.198 | -0.024 | -0.074 | -0.196 | -0.163 | -0.142 | -0.237 | -0.586 | -0.107 | 1.93  | -0.586 |
| 5   | -0.707 | -0.702 | -0.703 | -0.406 | 0.75   | 1.1    | 0.996  | 0.49   | 0.186  | 0.293  | 0.226  | -0.435 | -0.399 | 0.002  | -0.27  | -0.235 | -0.19  | 0.135  | 0.229  | 0.521  | 0.659  | 0.295  | 0.152  | -0.132 | 0.0774 | 1.1   | -0.707 |
| 6   | 0.23   | -0.729 | 0.266  | 0.47   | 0.497  | 0.281  | 3.65   | 0.709  | 0.435  | 0.153  | -0.335 | -0.26  | -0.326 | -0.342 | -0.269 | -0.366 | -0.532 | -0.586 | -0.41  | -0.159 | 0.026  | 0.123  | 0.023  | 0.482  | 0.126  | 3.65  | -0.729 |
| 7   | 1.17   | 1.42   | 0.457  | -0.062 | 0.046  | -0.312 | 0.188  | -0.366 | -0.123 | 0.616  | 0.619  | 0.59   | 0.054  | -0.159 | 0.02   | -0.22  | -0.356 | -0.507 | -0.649 | -0.435 | 0.181  | 0.739  | 2.38   | 0.878  | 0.257  | 2.38  | -0.649 |
| 8   | 1.04   | 1.65   | 0.35   | 0.13   | 0.429  | 0.583  | 2.22   | 1.59   | 0.445  | 0.433  | 0.115  | 0.086  | -0.208 | -0.243 | -0.318 | 0.127  | 0.563  | 0.189  | 0.111  | -0.214 | -0.432 | -0.572 | -0.602 | -0.838 | 0.276  | 2.22  | -0.838 |
| 9   | -0.906 | 0.017  | 0.172  | -0.372 | -0.664 | -0.63  | -0.616 | -0.694 | --     | --     | --     | 0.36   | -0.219 | -0.3   | -0.394 | -0.586 | -0.574 | -0.509 | -0.64  | -0.687 | -0.497 | 0.149  | -0.01  | 0.855  | -0.321 | 0.855 | -0.906 |
| 10  | 0.433  | 0.42   | -0.224 | -0.844 | -0.792 | -0.693 | -0.554 | -0.768 | -0.644 | -0.812 | -0.85  | -0.832 | -0.837 | -0.725 | -0.565 | -0.602 | -0.838 | -0.804 | -0.843 | -1.01  | -1.12  | -0.843 | -0.792 | -0.825 | -0.665 | 0.433 | -1.12  |
| 11  | -1.12  | -1.08  | -1.13  | -1.08  | -0.948 | -0.349 | 0.072  | -0.856 | -0.771 | -0.713 | -0.8   | -0.704 | -0.808 | -0.891 | -0.652 | -0.791 | -0.747 | -0.705 | -0.96  | -0.962 | -0.589 | -0.939 | -1     | -0.921 | -0.81  | 0.072 | -1.13  |
| 12  | -1.03  | -1.21  | -1.19  | -1.13  | -1.09  | -1.04  | -0.98  | -0.803 | -0.605 | -0.646 | -0.67  | -0.831 | -0.721 | -0.533 | -0.476 | -0.325 | -0.66  | -0.825 | -0.728 | -0.697 | 0.129  | 0.513  | 0.044  | 0.784  | -0.614 | 0.784 | -1.21  |
| 13  | 2.3    | 5.74   | 0.29   | 0.192  | 2.35   | 0.787  | 7.15   | 1.11   | 0.168  | 0.079  | -0.149 | -0.388 | -0.516 | -0.473 | -0.64  | -0.527 | -0.632 | -0.551 | -0.381 | 0.059  | 0.287  | 1.08   | 3.18   | 4.07   | 1.02   | 7.15  | -0.64  |
| 14  | 1.27   | 0.772  | -0.06  | -0.301 | -0.211 | 0.53   | 1.71   | 0.975  | 0.589  | 0.702  | 0.23   | -0.139 | -0.407 | 0.057  | 0.108  | 0.3    | 0.165  | -0.199 | 0.105  | 0.079  | 0.177  | 4.05   | 2.32   | 4.71   | 0.73   | 4.71  | -0.407 |
| 15  | 13.1   | 2.09   | 0.221  | 1.42   | -0.017 | 0.316  | 2.39   | 4.38   | 1.9    | 1.2    | 0.697  | 0.245  | 0.456  | -0.019 | 0.018  | -0.228 | -0.208 | -0.224 | -0.273 | -0.211 | 0.816  | 3.04   | 1.43   | 2.15   | 1.45   | 13.1  | -0.273 |
| 16  | 0.632  | 0.278  | 0.079  | -0.248 | -0.106 | -0.222 | 0.769  | 1.87   | 0.655  | 1.13   | 0.17   | 1.04   | 0.07   | 0.016  | -0.04  | -0.094 | -0.047 | -0.071 | -0.142 | -0.292 | 0.05   | 0.438  | 0.618  | 0.402  | 0.29   | 1.87  | -0.292 |
| 17  | 0.072  | -0.114 | -0.017 | -0.261 | -0.237 | -0.294 | -0.05  | 0.004  | 0.006  | 0.143  | 0.008  | -0.034 | -0.17  | -0.038 | -0.042 | 0.14   | 0.194  | 0.444  | 0.457  | 0.567  | 0.666  | 0.687  | 0.93   | 0.431  | 0.145  | 0.93  | -0.294 |
| 18  | 0.274  | 0.051  | 0.043  | 0.09   | -0.126 | -0.25  | -0.111 | -0.007 | 0.09   | 0.119  | 0.118  | 0.056  | 0.09   | 0.163  | 0.084  | 0.191  | 0.36   | 0.708  | 0.796  | 0.57   | 0.454  | 0.345  | 0.156  | -0.098 | 0.174  | 0.796 | -0.25  |
| 19  | 0.028  | 0.064  | -0.242 | -0.291 | -0.314 | -0.114 | 2.78   | 1.89   | 5.3    | 4.99   | 0.944  | --     | --     | 1.27   | 0.815  | 0.475  | 0.621  | 0.94   | 1.59   | 1.89   | 1.35   | 1.97   | 1.9    | 1.82   | 1.35   | 5.3   | -0.314 |
| 20  | 4.13   | 3.7    | 2.22   | 0.906  | 1.47   | 0.968  | 0.6    | 0.655  | 1.12   | 1.98   | 1.08   | 2.21   | 1.58   | 1.09   | 1.57   | 0.473  | 0.683  | 0.72   | 0.412  | -0.116 | 0.7    | 1.36   | 0.869  | 0.49   | 1.29   | 4.13  | -0.116 |
| 21  | 1.24   | 0.459  | 0.731  | -0.056 | 0.499  | 0.509  | 3.07   | 2.81   | 1.68   | 1.43   | 0.766  | 0.886  | 0.765  | 0.868  | 0.73   | 0.625  | 0.514  | 0.675  | 0.687  | 0.655  | 0.496  | 0.159  | 0.1    | -0.083 | 0.842  | 3.07  | -0.083 |
| 22  | -0.123 | -0.128 | 0.007  | -0.195 | -0.004 | -0.091 | 0.037  | 0.232  | 0.339  | 0.635  | 0.547  | 0.465  | 0.515  | 0.544  | 0.537  | 0.892  | 1.12   | 1.11   | 1.02   | 1.1    | 1.01   | 0.87   | 0.724  | 0.64   | 0.492  | 1.12  | -0.195 |
| 23  | 1.02   | 0.531  | 0.616  | 0.637  | 0.574  | 1.89   | 1.1    | 1.26   | 0.931  | 1.54   | 0.639  | 0.625  | 0.529  | 0.54   | 0.517  | 0.527  | 0.563  | 1.24   | 1.05   | 1.29   | 1.53   | 0.895  | 0.568  | 0.544  | 0.881  | 1.89  | 0.517  |
| 24  | 0.398  | 0.662  | 0.766  | 2.71   | 0.788  | 0.629  | 1.47   | 3.31   | 1.08   | 1.17   | 1.33   | 0.983  | 0.827  | 0.42   | 0.182  | 0.153  | 0.145  | 0.133  | 0.223  | 0.469  | 0.481  | 1.36   | 1.44   | 1.62   | 0.947  | 3.31  | 0.133  |
| 25  | 0.379  | 0.433  | 0.398  | 0.96   | 0.637  | 0.881  | 0.806  | 0.933  | 0.933  | 0.919  | 1.2    | 1.1    | 0.867  | 0.711  | 0.375  | 0.888  | 0.718  | 0.211  | 0.506  | 6.37   | 6.05   | 0.879  | -0.001 | 0.196  | 1.14   | 6.37  | -0.001 |
| 26  | 1.81   | 0.721  | 0.44   | 0.708  | 0.348  | 0.862  | 1.33   | 1.27   | 1.36   | 1.17   | 1.16   | 0.792  | 0.878  | 0.578  | 0.639  | 0.834  | 0.25   | 0.776  | 0.912  | 0.511  | 0.62   | 0.448  | 1.35   | -0.205 | 0.815  | 1.81  | -0.205 |
| 27  | -0.123 | 0.815  | 0.827  | -0.043 | 0.679  | 0.578  | 4.12   | 3.56   | --     | --     | --     | --     | 0.662  | 0.245  | -0.077 | -0.534 | -0.37  | -0.439 | -0.816 | -0.818 | -0.499 | 0.024  | -0.997 | -0.435 | 0.318  | 4.12  | -0.997 |
| 28  | -0.797 | -0.892 | -0.536 | -0.686 | -0.02  | -0.131 | 12.4   | 0.547  | -0.547 | -0.091 | -0.391 | -0.419 | 0.143  | 0.131  | 0.482  | 0.515  | -0.101 | -0.23  | -0.592 | -1.04  | -0.673 | 2.5    | 0.654  | 3.82   | 0.584  | 12.4  | -1.04  |
| 29  | -0.522 | -1.01  | -1     | -1.19  | -0.054 | -0.227 | 9.07   | 0.507  | -0.512 | -0.514 | -0.166 | -0.149 | -0.122 | -0.289 | -0.154 | -0.473 | -0.571 | -0.718 | -1.09  | -0.857 | -0.734 | -0.153 | 0.361  | 0.448  | -0.005 | 9.07  | -1.19  |
| 30  | -0.514 | -0.793 | -1.15  | -1.21  | -0.252 | -0.624 | 9.23   | 0.839  | 0.39   | -0.053 | -0.4   | -0.386 | -0.431 | -0.418 | -0.729 | -0.804 | -0.748 | -0.798 | -0.949 | -0.743 | -0.466 | 0.309  | -0.136 | -0.13  | -0.04  | 9.23  | -1.21  |
| Avg | 0.866  | 0.442  | 0.0842 | 0.0583 | 0.472  | 0.357  | 2.68   | 0.95   | 0.526  | 0.624  | 0.232  | 0.173  | 0.0424 | 0.0432 | -0.002 | -0.02  | -0.064 | -0.034 | -0.064 | 0.137  | 0.309  | 0.63   | 0.539  | 0.78   | 0.407  | --    | --     |
| Max | 13.1   | 5.74   | 2.22   | 2.71   | 4.96   | 2.25   | 12.4   | 4.38   | 5.3    | 4.99   | 1.33   | 2.21   | 1.58   | 1.27   | 1.57   | 0.892  | 1.12   | 1.24   | 1.59   | 6.37   | 6.05   | 4.05   | 3.18   | 4.71   | --     | 13.1  | --     |
| Min | -1.12  | -1.21  | -1.19  | -1.21  | -1.09  | -1.04  | -0.98  | -0.856 | -0.771 | -0.812 | -0.85  | -0.832 | -0.837 | -0.891 | -0.729 | -0.804 | -0.838 | -0.825 | -1.09  | -1.04  | -1.12  | -0.939 | -1     | -0.921 | --     | --    | -1.21  |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: TableAmbient\_Hourly, SO2\_ppb"**  
**Month: Apr 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   | 0.75  | 0.78  | 0.77  | 0.80  | 0.75  | 0.68  | 0.73  | 0.70  | 0.78  | 0.84  | 0.97  | 0.95  | 0.79  | 0.66  | 0.74  | 0.70  | 0.68  | 0.63  | 0.65  | 0.65  | 0.66  | 0.61  | 0.79  | 1.08  | 0.76  | 1.08  | 0.61  |
| 2   | 1.54  | 1.04  | 0.70  | 0.69  | 0.68  | 0.66  | 0.71  | 0.64  | 0.61  | 0.78  | 1.11  | 1.39  | 1.31  | 1.08  | 0.96  | 0.73  | 0.75  | 0.71  | 0.69  | 0.73  | 0.72  | 0.75  | 0.74  | 0.68  | 0.85  | 1.54  | 0.61  |
| 3   | 0.72  | 0.73  | 0.75  | 0.74  | 0.74  | 0.72  | 0.83  | 0.76  | 0.87  | 0.81  | 0.78  | 0.79  | 0.69  | 0.73  | 0.75  | 0.78  | 0.78  | 0.67  | 0.75  | 0.72  | 0.72  | 0.76  | 0.78  | 0.74  | 0.75  | 0.87  | 0.67  |
| 4   | 0.73  | 0.74  | 0.62  | 0.72  | 0.71  | 0.69  | 0.68  | 0.63  | 0.55  | 0.49  | 0.60  | 0.53  | 0.57  | 0.53  | 0.59  | 0.59  | 0.59  | 0.59  | 0.55  | 0.64  | 0.65  | 0.61  | 0.59  | 0.57  | 0.61  | 0.74  | 0.49  |
| 5   | 0.58  | 0.56  | 0.59  | 0.58  | 0.58  | 0.62  | 0.90  | 1.23  | 1.32  | 1.62  | 2.42  | 0.50  | 0.51  | 0.50  | 0.53  | 0.55  | 0.55  | 0.54  | 0.57  | 0.60  | 0.76  | 0.62  | 0.58  | 0.72  | 0.77  | 2.42  | 0.50  |
| 6   | 0.77  | 1.28  | 2.05  | 2.35  | 2.78  | 1.99  | 1.85  | 2.63  | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | 0.90  | 0.58  | --    | --    | --    |
| 7   | 0.49  | 0.21  | 0.21  | 0.14  | 0.06  | 0.08  | 0.11  | 0.54  | 19.60 | 8.95  | 9.13  | 7.49  | 4.03  | 0.63  | 0.13  | 0.01  | -0.01 | -0.02 | 0.01  | 0.02  | -0.07 | -0.06 | -0.10 | -0.11 | 2.14  | 19.60 | -0.11 |
| 8   | -0.07 | -0.06 | -0.29 | -0.16 | -0.08 | 0.26  | 2.37  | 2.70  | 5.13  | 3.83  | 6.84  | 1.39  | 0.30  | -0.04 | -0.03 | 0.07  | 0.08  | 0.10  | 0.08  | 0.00  | 0.01  | 0.04  | 0.01  | 0.05  | 0.94  | 6.84  | -0.29 |
| 9   | -0.04 | -0.02 | -0.02 | 0.03  | -0.01 | 0.00  | -0.02 | -0.08 | -0.15 | -0.08 | -0.10 | -0.15 | -0.09 | -0.09 | -0.07 | -0.04 | -0.05 | -0.02 | -0.05 | -0.09 | -0.04 | -0.04 | -0.06 | -0.11 | -0.06 | 0.03  | -0.15 |
| 10  | -0.15 | -0.14 | -0.17 | -0.13 | -0.11 | -0.13 | 0.03  | 0.07  | -0.09 | -0.16 | -0.04 | 0.53  | 0.75  | 1.47  | 1.70  | 1.17  | 1.22  | 0.49  | 0.02  | 0.03  | 0.04  | -0.06 | -0.08 | -0.15 | 0.25  | 1.70  | -0.17 |
| 11  | -0.30 | -0.12 | -0.14 | -0.15 | -0.02 | 0.11  | 0.39  | 0.90  | 0.66  | 0.18  | --    | --    | --    | 1.06  | 1.48  | 2.11  | 1.53  | 1.65  | 1.89  | 1.22  | 0.88  | 0.81  | 0.78  | 0.72  | 0.75  | 2.11  | -0.30 |
| 12  | 0.72  | 0.74  | 0.68  | 0.69  | 0.69  | 0.66  | 0.68  | 0.65  | 0.67  | 0.58  | 0.63  | 0.77  | 1.06  | 1.38  | 2.28  | 1.75  | 1.12  | 0.81  | 0.76  | 0.74  | 0.71  | 0.65  | 0.67  | 0.72  | 0.87  | 2.28  | 0.58  |
| 13  | 0.67  | 0.65  | 0.69  | 0.65  | 0.69  | 0.68  | 0.70  | 0.67  | 0.76  | 2.77  | 1.37  | 1.61  | 1.33  | 1.09  | 0.75  | 0.79  | 0.87  | 0.86  | 0.80  | 0.85  | 0.82  | 0.77  | 0.67  | 0.70  | 0.93  | 2.77  | 0.65  |
| 14  | 0.79  | 0.81  | 0.80  | 0.86  | 0.85  | 0.79  | 0.76  | 0.91  | 0.89  | 1.28  | 2.35  | 1.58  | 0.91  | 0.76  | 0.72  | 0.72  | 0.76  | 0.75  | 0.76  | 0.78  | 0.80  | 0.83  | 0.78  | 0.75  | 0.92  | 2.35  | 0.72  |
| 15  | 0.80  | 0.85  | 0.79  | 0.75  | 0.73  | 0.76  | 0.71  | 0.70  | 0.67  | 0.65  | 0.66  | 1.12  | 1.21  | 1.16  | 0.86  | 0.68  | 0.56  | 0.68  | 0.66  | 0.63  | 0.67  | 0.65  | 0.69  | 0.66  | 0.76  | 1.21  | 0.56  |
| 16  | 0.58  | 0.64  | 0.68  | 0.70  | 0.67  | 0.63  | 0.63  | 0.56  | 0.65  | 0.60  | 0.60  | 0.70  | 0.96  | 2.06  | 1.95  | 1.28  | 1.16  | 0.93  | 0.72  | 0.47  | 0.59  | 0.60  | 0.66  | 0.67  | 0.82  | 2.06  | 0.47  |
| 17  | 0.56  | 0.54  | 0.53  | 0.67  | 0.67  | 0.64  | 0.58  | 0.49  | 0.69  | 0.73  | 0.82  | 0.79  | 0.84  | 0.91  | 0.76  | 0.73  | 0.71  | 0.78  | 0.72  | 0.73  | 0.66  | 0.69  | 0.70  | 0.66  | 0.69  | 0.91  | 0.49  |
| 18  | 0.69  | 0.66  | 0.71  | 0.69  | 0.72  | 0.59  | 0.58  | 0.62  | 1.33  | 2.11  | 2.65  | 1.80  | 1.52  | 0.97  | 0.79  | 0.73  | 0.84  | 0.74  | 0.74  | 0.64  | 0.66  | 0.67  | 0.68  | 0.69  | 0.95  | 2.65  | 0.58  |
| 19  | 0.69  | 0.67  | 0.59  | 0.63  | 0.65  | 0.68  | 0.61  | 0.58  | 0.61  | 0.59  | 0.63  | 0.64  | 0.67  | 0.58  | 0.64  | 0.71  | 0.71  | 0.64  | 0.66  | 0.67  | 0.65  | 0.61  | 0.64  | 0.68  | 0.64  | 0.71  | 0.58  |
| 20  | 0.63  | 0.63  | 0.66  | 0.65  | 0.63  | 0.62  | 0.66  | 0.55  | 0.57  | 1.33  | --    | --    | 0.81  | 0.66  | 0.66  | 0.68  | 0.62  | 0.69  | 0.70  | 0.69  | 0.65  | 0.61  | 0.59  | 0.57  | 0.68  | 1.33  | 0.55  |
| 21  | 0.61  | 0.60  | 0.63  | 0.66  | 0.64  | 0.61  | 0.62  | 0.57  | 0.57  | 0.54  | 0.60  | 0.70  | 0.80  | 0.95  | 1.54  | 1.29  | 0.70  | 0.73  | 0.73  | 0.71  | 0.56  | 0.29  | 0.64  | 0.61  | 0.70  | 1.54  | 0.29  |
| 22  | 0.64  | 0.67  | 0.66  | 0.60  | 0.58  | 0.58  | 0.64  | 0.62  | 0.58  | 0.61  | 1.01  | 2.04  | 2.08  | 1.55  | 2.50  | 2.41  | 1.46  | 1.40  | 1.09  | 0.81  | 0.72  | 0.67  | 0.67  | 0.68  | 1.05  | 2.50  | 0.58  |
| 23  | 0.66  | 0.63  | 0.69  | 0.72  | 0.84  | 0.73  | 0.72  | 0.61  | 0.69  | 0.74  | 0.75  | 0.77  | 0.76  | 0.83  | 0.81  | 0.80  | 0.72  | 0.71  | 0.75  | 0.80  | 0.79  | 0.84  | 0.84  | 0.81  | 0.75  | 0.84  | 0.61  |
| 24  | 0.76  | 0.79  | 0.78  | 0.70  | 0.72  | 0.67  | 0.61  | 0.72  | 0.65  | 0.69  | 0.71  | 0.75  | 0.74  | 0.74  | 0.74  | 0.82  | 0.82  | 0.85  | 0.80  | 0.84  | 0.80  | 0.79  | 0.72  | 0.79  | 0.75  | 0.85  | 0.61  |
| 25  | 0.81  | 0.82  | 0.82  | 0.81  | 0.83  | 0.81  | 0.81  | 0.80  | 0.77  | 0.83  | 0.83  | --    | 0.70  | 0.80  | 0.84  | 0.81  | 0.76  | 0.69  | 0.65  | 0.59  | 0.52  | 0.51  | 0.53  | 0.49  | 0.73  | 0.84  | 0.49  |
| 26  | 0.52  | 0.47  | 0.49  | 0.45  | 0.47  | 0.44  | 0.46  | 0.43  | 0.43  | 0.44  | 0.38  | 0.42  | 0.47  | 0.50  | 0.50  | 0.58  | 0.66  | 0.29  | 0.53  | 0.55  | 0.53  | 0.50  | 0.54  | 0.49  | 0.48  | 0.66  | 0.29  |
| 27  | 0.51  | 0.56  | 0.60  | 0.59  | 0.54  | 0.57  | 0.57  | 0.53  | 0.54  | 0.53  | 0.57  | 0.60  | 0.56  | 0.62  | 0.64  | 0.65  | 0.67  | 0.71  | 0.69  | 0.72  | 0.63  | 0.65  | 0.65  | 0.62  | 0.60  | 0.72  | 0.51  |
| 28  | 0.67  | 0.67  | 0.65  | 0.58  | 0.63  | 0.59  | 0.58  | 0.59  | 0.55  | 0.61  | 0.61  | 0.63  | 0.65  | 0.66  | 0.63  | 0.69  | 0.63  | 0.64  | 0.58  | 0.55  | 0.54  | 0.54  | 0.51  | 0.53  | 0.61  | 0.69  | 0.51  |
| 29  | 0.51  | 0.50  | 0.48  | 0.48  | 0.49  | 0.47  | 0.48  | 0.45  | 0.42  | 0.42  | 0.39  | 0.39  | 0.47  | 0.40  | 0.43  | 0.44  | 0.44  | 0.39  | 0.44  | 0.43  | 0.43  | 0.38  | 0.37  | 0.39  | 0.44  | 0.51  | 0.37  |
| 30  | 0.35  | 0.32  | 0.34  | 0.37  | 0.38  | 0.31  | 0.39  | 0.33  | 0.35  | 0.36  | 0.36  | 0.45  | 0.34  | 0.39  | 0.45  | 0.57  | 0.59  | 0.80  | 0.75  | 0.58  | 0.55  | 0.47  | 0.41  | 0.42  | 0.44  | 0.80  | 0.31  |
| Avg | 0.57  | 0.57  | 0.58  | 0.59  | 0.62  | 0.58  | 0.68  | 0.74  | 1.44  | 1.16  | 1.39  | 1.12  | 0.92  | 0.81  | 0.87  | 0.82  | 0.72  | 0.67  | 0.64  | 0.60  | 0.57  | 0.54  | 0.56  | 0.56  | 0.76  | --    | --    |
| Max | 1.54  | 1.28  | 2.05  | 2.35  | 2.78  | 1.99  | 2.37  | 2.70  | 19.60 | 8.95  | 9.13  | 7.49  | 4.03  | 2.06  | 2.50  | 2.41  | 1.53  | 1.65  | 1.89  | 1.22  | 0.88  | 0.84  | 0.90  | 1.08  | --    | 19.60 | --    |
| Min | -0.30 | -0.14 | -0.29 | -0.16 | -0.11 | -0.13 | -0.02 | -0.08 | -0.15 | -0.16 | -0.10 | -0.15 | -0.09 | -0.09 | -0.07 | -0.04 | -0.05 | -0.02 | -0.05 | -0.09 | -0.07 | -0.06 | -0.10 | -0.15 | --    | --    | -0.30 |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: TableAmbient\_Hourly, SO2\_ppb"**  
**Month: May 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   | 0.43 | 0.39 | 0.46 | 0.47 | 0.41 | 0.38 | 0.58 | 7.06 | 7.80 | 3.63  | 2.08 | 2.33 | 1.34 | 0.79 | 0.73 | 0.79 | 0.59 | 0.52 | 0.52 | 0.54 | 0.52 | 0.54 | 0.53 | 0.53 | 1.42 | 7.80 | 0.38  |
| 2   | 0.48 | 0.48 | 0.52 | 0.49 | 0.45 | 0.50 | 0.53 | 0.70 | 1.59 | --    | --   | --   | 0.96 | 0.68 | 0.67 | 0.59 | 0.59 | 0.62 | 0.63 | 0.61 | 0.60 | 0.59 | 0.59 | 0.59 | 0.64 | 1.59 | 0.45  |
| 3   | 0.60 | 0.61 | 0.55 | 0.57 | 0.56 | 0.50 | 0.55 | 0.49 | 0.46 | 0.37  | 0.47 | 0.49 | 0.49 | 0.49 | 0.50 | 0.51 | 0.49 | 0.51 | 0.32 | 0.49 | 0.56 | 0.57 | 0.55 | 0.55 | 0.51 | 0.61 | 0.32  |
| 4   | 0.53 | 0.49 | 0.43 | 0.42 | 0.46 | 0.43 | 0.44 | 0.44 | 0.47 | 0.53  | 0.50 | 0.55 | 0.50 | 0.50 | 0.65 | 0.86 | 1.28 | 1.14 | 0.98 | 0.78 | 0.63 | 0.59 | 0.55 | 0.58 | 0.61 | 1.28 | 0.42  |
| 5   | 0.63 | 0.59 | 0.54 | 0.57 | 0.64 | 0.59 | 0.54 | 0.54 | 0.55 | 0.62  | 0.63 | 0.62 | 0.69 | 0.89 | 1.29 | 1.32 | 1.03 | 0.83 | 0.71 | 0.66 | 0.62 | 0.63 | 0.57 | 0.59 | 0.70 | 1.32 | 0.54  |
| 6   | 0.57 | 0.61 | 0.62 | 0.57 | 0.51 | 0.59 | 0.59 | 0.65 | 0.67 | 0.76  | 0.74 | 0.76 | 0.78 | 0.70 | 0.71 | 0.72 | 0.68 | 0.62 | 0.96 | 1.10 | 0.65 | 0.69 | 0.71 | 0.65 | 0.69 | 1.10 | 0.51  |
| 7   | 0.63 | 0.66 | 0.60 | 0.60 | 0.61 | 0.57 | 0.55 | 0.56 | 0.61 | 0.63  | 0.58 | 0.62 | 0.61 | 0.62 | 0.62 | 0.55 | 0.62 | 0.61 | 0.57 | 0.56 | 0.59 | 0.49 | 0.42 | 0.57 | 0.59 | 0.66 | 0.42  |
| 8   | 0.59 | 0.62 | 0.59 | 0.61 | 0.62 | 0.61 | 0.59 | 0.56 | 0.58 | 0.63  | 1.05 | 1.56 | 0.99 | 1.05 | 1.01 | 0.99 | 0.79 | 0.79 | 0.62 | 0.63 | 0.59 | 0.60 | 0.57 | 0.58 | 0.74 | 1.56 | 0.56  |
| 9   | 0.55 | 0.63 | 0.59 | 0.58 | 0.58 | 0.57 | 0.56 | 0.52 | 0.54 | 0.52  | 0.50 | 0.50 | 0.57 | 0.56 | 0.53 | 0.52 | 0.83 | 0.69 | 0.84 | 0.60 | 0.51 | 0.55 | 0.55 | 0.52 | 0.58 | 0.84 | 0.50  |
| 10  | 0.55 | 0.53 | 0.51 | 0.53 | 0.49 | 0.53 | 0.53 | 0.50 | 0.48 | 0.53  | 0.54 | 0.46 | 0.48 | 0.51 | 0.51 | 0.52 | 0.48 | 0.52 | 0.51 | 0.53 | 0.47 | 0.47 | 0.44 | 0.49 | 0.51 | 0.55 | 0.44  |
| 11  | 0.49 | 0.46 | 0.47 | 0.46 | 0.43 | 0.46 | 0.44 | 0.41 | 0.37 | 0.38  | 0.39 | --   | 0.45 | 0.50 | 0.51 | 0.49 | 0.48 | 0.50 | 0.53 | 0.55 | 0.55 | 0.55 | 0.49 | 0.50 | 0.47 | 0.55 | 0.37  |
| 12  | 0.51 | 0.60 | 0.54 | 0.51 | 0.50 | 0.48 | 0.53 | 0.56 | 0.58 | 0.54  | 0.91 | 0.89 | 1.42 | 0.91 | 1.39 | 1.62 | 1.15 | 0.69 | 0.62 | 0.67 | 0.66 | 0.65 | 0.64 | 0.62 | 0.76 | 1.62 | 0.48  |
| 13  | 0.65 | 0.67 | 0.70 | 0.69 | 0.66 | 0.55 | 0.59 | 0.57 | 0.55 | 0.55  | 0.54 | 0.61 | 0.64 | 0.64 | 0.61 | 0.62 | 0.62 | 0.62 | 0.59 | 0.56 | 0.58 | 0.57 | 0.57 | 0.53 | 0.60 | 0.70 | 0.53  |
| 14  | 0.54 | 0.54 | 0.54 | 0.47 | 0.52 | 0.54 | 0.52 | 0.51 | 0.57 | 1.01  | 0.99 | 0.60 | 0.62 | 0.64 | 0.62 | 0.65 | 0.64 | 0.70 | 0.72 | 0.61 | 0.58 | 0.59 | 0.60 | 0.58 | 0.62 | 1.01 | 0.47  |
| 15  | 0.56 | 0.59 | 0.60 | 0.58 | 0.57 | 0.64 | 0.66 | 0.72 | 0.65 | 0.61  | 0.63 | 0.65 | 0.64 | 0.68 | 0.63 | 0.60 | 0.64 | 0.65 | 0.58 | 0.57 | 0.58 | 0.56 | 0.50 | 0.54 | 0.61 | 0.72 | 0.50  |
| 16  | 0.52 | 0.54 | 0.54 | 0.56 | 0.54 | 0.52 | 0.53 | 0.45 | 0.49 | 0.50  | --   | --   | 0.52 | 0.51 | 0.53 | 0.53 | 0.51 | 0.46 | 0.51 | 0.48 | 0.50 | 0.48 | 0.47 | 0.45 | 0.51 | 0.56 | 0.45  |
| 17  | 0.43 | 0.49 | 0.50 | 0.49 | 0.49 | 0.53 | 1.33 | 1.56 | 0.88 | 1.85  | 0.99 | 0.89 | 0.73 | 0.65 | 0.62 | 0.60 | 0.63 | 0.66 | 0.68 | 0.70 | 0.63 | 0.65 | 0.63 | 0.56 | 0.76 | 1.85 | 0.43  |
| 18  | 0.59 | 0.63 | 0.59 | 0.57 | 0.63 | 0.65 | 0.65 | 0.58 | 0.57 | 0.61  | 0.61 | 0.58 | 0.60 | 0.62 | 0.60 | 0.57 | 0.57 | 0.62 | 0.61 | 0.63 | 0.63 | 0.63 | 0.56 | 0.58 | 0.60 | 0.65 | 0.56  |
| 19  | 0.53 | 0.59 | 0.56 | 0.59 | 0.57 | 0.55 | 0.56 | 0.52 | 0.15 | -0.04 | 0.54 | 0.51 | 0.53 | 0.55 | 0.55 | 0.56 | 0.54 | 0.55 | 0.55 | 0.56 | 0.51 | 0.54 | 0.52 | 0.50 | 0.50 | 0.59 | -0.04 |
| 20  | 0.54 | 0.52 | 0.53 | 0.52 | 0.54 | 0.54 | 0.46 | 0.45 | 0.53 | 0.57  | 0.55 | 0.55 | 0.58 | 0.57 | 0.56 | 0.60 | 0.60 | 0.61 | 0.55 | 0.59 | 0.56 | 0.50 | 0.55 | 0.52 | 0.55 | 0.61 | 0.45  |
| 21  | 0.52 | 0.52 | 0.47 | 0.49 | 0.56 | 0.56 | 0.54 | 0.57 | 0.52 | 0.52  | 0.58 | 0.73 | 0.78 | 0.77 | 0.61 | 0.58 | 0.60 | 0.55 | 0.55 | 0.54 | 0.53 | 0.58 | 0.52 | 0.50 | 0.57 | 0.78 | 0.47  |
| 22  | 0.51 | 0.52 | 0.51 | 0.54 | 0.58 | 1.10 | 1.54 | 0.55 | 0.47 | 0.48  | 0.44 | 0.48 | 0.71 | 0.71 | 0.62 | 0.53 | 0.57 | 0.54 | 0.53 | 0.56 | 0.56 | 0.58 | 0.55 | 0.55 | 0.61 | 1.54 | 0.44  |
| 23  | 0.56 | 0.58 | 0.60 | 0.61 | 0.57 | 0.58 | 0.57 | 0.53 | 0.48 | 0.52  | 0.57 | 0.50 | 0.71 | 0.72 | 0.56 | 0.56 | 0.59 | 0.64 | 0.62 | 0.61 | 0.62 | 0.57 | 0.54 | 0.52 | 0.58 | 0.72 | 0.48  |
| 24  | 0.53 | 0.54 | 0.47 | 0.55 | 0.62 | 0.91 | 1.11 | 1.82 | 1.77 | 0.81  | --   | 1.28 | 0.77 | 0.59 | 0.55 | 0.59 | 0.68 | 0.70 | 0.73 | 0.78 | 0.76 | 0.71 | 0.67 | 0.66 | 0.81 | 1.82 | 0.47  |
| 25  | 0.60 | 0.62 | 0.61 | 0.61 | 0.59 | 0.58 | 0.60 | 0.55 | 0.53 | 0.58  | 0.54 | 0.57 | 0.59 | 0.60 | 0.60 | 0.61 | 0.60 | 0.55 | 0.56 | 0.55 | 0.54 | 0.54 | 0.52 | 0.53 | 0.57 | 0.62 | 0.52  |
| 26  | 0.52 | 0.52 | 0.50 | 0.48 | 0.48 | 0.50 | 0.44 | 0.41 | 0.48 | 0.48  | 0.48 | 0.50 | 0.50 | 0.46 | 0.45 | 0.47 | 0.47 | 0.49 | 0.49 | 0.49 | 0.47 | 0.46 | 0.47 | 0.48 | 0.48 | 0.52 | 0.41  |
| 27  | 0.42 | 0.42 | 0.45 | 0.46 | 0.45 | 0.44 | 0.39 | 0.38 | 0.41 | 0.43  | 0.40 | 0.50 | 0.52 | 0.46 | 0.43 | 0.45 | 0.43 | 0.45 | 0.42 | 0.49 | 0.45 | 0.45 | 0.39 | 0.37 | 0.44 | 0.52 | 0.37  |
| 28  | 0.46 | 0.52 | 0.48 | 0.47 | 0.52 | 0.50 | 0.46 | 0.48 | 0.51 | 1.16  | 2.16 | 3.20 | 2.61 | 2.24 | 1.34 | 0.87 | 0.66 | 0.56 | 0.51 | 0.51 | 0.50 | 0.49 | 0.51 | 0.51 | 0.93 | 3.20 | 0.46  |
| 29  | 0.55 | 0.57 | 0.66 | 0.60 | 0.55 | 2.56 | 4.77 | 1.96 | 0.84 | 0.79  | 0.75 | 0.86 | 0.81 | 0.97 | 1.16 | 1.04 | 0.88 | 0.89 | 0.98 | 1.04 | 0.98 | 0.87 | 0.80 | 1.43 | 1.14 | 4.77 | 0.55  |
| 30  | 2.01 | 1.00 | 0.71 | 0.57 | 0.55 | 0.51 | 0.52 | 0.47 | 0.50 | 0.48  | 0.52 | 0.49 | 0.62 | 1.07 | 1.13 | 0.75 | 0.63 | 0.66 | 0.65 | 0.53 | 0.50 | 0.51 | 0.50 | 0.48 | 0.68 | 2.01 | 0.47  |
| 31  | 0.47 | 0.70 | 3.94 | 2.63 | 1.18 | 1.29 | 0.75 | 0.63 | 0.58 | 0.51  | 0.54 | 0.65 | 0.96 | 0.78 | 0.80 | 0.74 | 0.67 | 0.58 | 0.66 | 0.68 | 0.74 | 0.74 | 0.63 | 0.62 | 0.94 | 3.94 | 0.47  |
| Avg | 0.58 | 0.57 | 0.66 | 0.61 | 0.56 | 0.65 | 0.76 | 0.86 | 0.84 | 0.72  | 0.72 | 0.82 | 0.77 | 0.72 | 0.71 | 0.69 | 0.66 | 0.63 | 0.62 | 0.62 | 0.59 | 0.58 | 0.55 | 0.57 | 0.67 | --   | --    |
| Max | 2.01 | 1.00 | 3.94 | 2.63 | 1.18 | 2.56 | 4.77 | 7.06 | 7.80 | 3.63  | 2.16 | 3.20 | 2.61 | 2.24 | 1.39 | 1.62 | 1.28 | 1.14 | 0.98 | 1.10 | 0.98 | 0.87 | 0.80 | 1.43 | --   | 7.80 | --    |
| Min | 0.42 | 0.39 | 0.43 | 0.42 | 0.41 | 0.38 | 0.39 | 0.38 | 0.15 | -0.04 | 0.39 | 0.46 | 0.45 | 0.46 | 0.43 | 0.45 | 0.43 | 0.45 | 0.32 | 0.48 | 0.45 | 0.45 | 0.39 | 0.37 | --   | --   | -0.04 |

-- Indicates Invalid Data

**SAROAD for Resolution, East\_Plant**  
**"Component, Channel: TableAmbient\_Hourly, SO2\_ppb"**  
**Month: Jun 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   | 0.61 | 0.62 | 0.62 | 0.60 | 0.59 | 0.57 | 0.64 | 1.35 | 1.33 | 2.70 | --   | --   | 1.35  | 1.08 | 0.47 | 0.45 | 0.42 | 0.50 | 0.45 | 0.47 | 0.45 | 0.42 | 0.44 | 0.44 | 0.75 | 2.70  | 0.42 |
| 2   | 0.40 | 0.37 | 0.36 | 0.39 | 0.38 | 0.46 | 1.32 | 1.92 | 2.70 | 2.01 | 1.64 | 1.16 | 1.09  | 1.11 | 1.01 | 0.68 | 0.66 | 0.61 | 0.55 | 0.52 | 0.48 | 0.50 | 0.48 | 0.46 | 0.89 | 2.70  | 0.36 |
| 3   | 0.42 | 0.45 | 0.41 | 0.37 | 0.38 | 0.44 | 0.51 | 0.62 | 1.36 | 1.38 | 1.59 | 1.37 | 1.07  | 0.97 | 0.68 | 0.62 | 0.48 | 0.43 | 0.41 | 0.41 | 0.46 | 0.40 | 0.41 | 0.44 | 0.67 | 1.59  | 0.37 |
| 4   | 0.41 | 0.50 | 0.49 | 0.52 | 0.46 | 0.44 | 0.41 | 0.42 | 0.41 | 0.41 | 0.44 | 0.47 | 0.48  | 0.50 | 0.52 | 0.53 | 0.54 | 0.57 | 0.56 | 0.47 | 0.49 | 0.46 | 0.45 | 0.47 | 0.48 | 0.57  | 0.41 |
| 5   | 0.50 | 0.49 | 0.48 | 0.42 | 0.38 | 0.45 | 0.40 | 0.41 | 0.40 | 0.44 | 0.44 | 0.44 | 0.44  | 0.48 | 0.44 | 0.47 | 0.47 | 0.46 | 0.47 | 0.48 | 0.47 | 0.44 | 0.43 | 0.30 | 0.44 | 0.50  | 0.30 |
| 6   | 0.37 | 0.40 | 0.40 | 0.42 | 0.37 | 0.34 | 0.34 | 0.25 | 0.33 | 0.38 | 0.37 | 0.37 | 0.41  | 0.44 | 0.43 | 0.47 | 0.39 | 0.42 | 0.46 | 0.42 | 0.40 | 0.43 | 0.39 | 0.43 | 0.39 | 0.47  | 0.25 |
| 7   | 0.39 | 0.40 | 0.38 | 0.36 | 0.34 | 0.32 | 0.27 | 0.31 | 0.31 | 0.31 | 0.36 | 0.62 | 0.57  | 0.45 | 0.45 | 0.43 | 0.41 | 0.41 | 0.40 | 0.36 | 0.35 | 0.37 | 0.38 | 0.37 | 0.39 | 0.62  | 0.27 |
| 8   | 0.38 | 0.34 | 0.31 | 0.34 | 0.36 | 0.32 | 0.38 | 0.45 | 0.95 | 1.56 | 2.50 | 0.91 | 0.27  | 0.31 | 0.33 | 0.41 | 0.43 | 0.45 | 0.45 | 0.43 | 0.42 | 0.38 | 0.40 | 0.37 | 0.56 | 2.50  | 0.27 |
| 9   | 0.38 | 0.37 | 0.34 | 0.38 | 0.36 | 0.31 | 0.31 | 0.31 | 0.29 | 0.34 | --   | --   | 0.39  | 0.44 | 0.36 | 0.44 | 0.41 | 0.44 | 0.46 | 0.48 | 0.44 | 0.46 | 0.42 | 0.41 | 0.39 | 0.48  | 0.29 |
| 10  | 0.39 | 0.41 | 0.38 | 0.37 | 0.35 | 0.35 | 0.28 | 0.32 | 0.27 | 0.29 | 0.29 | 0.30 | 0.31  | 0.26 | 0.28 | 0.32 | 0.38 | 0.41 | 0.36 | 0.35 | 0.39 | 0.37 | 0.34 | 0.32 | 0.34 | 0.41  | 0.26 |
| 11  | 0.32 | 0.34 | 0.34 | 0.34 | 0.36 | 0.30 | 0.29 | 0.29 | 0.29 | 0.29 | 0.25 | 0.30 | 0.32  | 0.33 | 0.33 | 0.37 | 0.37 | 0.40 | 0.41 | 0.39 | 0.35 | 0.42 | 0.37 | 0.34 | 0.34 | 0.42  | 0.25 |
| 12  | 0.33 | 0.34 | 0.33 | 0.35 | 0.35 | 0.32 | 0.27 | 0.28 | 0.27 | 0.25 | 0.31 | 0.29 | 0.33  | 0.35 | 0.34 | 0.35 | 0.36 | 0.36 | 0.33 | 0.38 | 0.49 | 0.51 | 0.50 | 0.49 | 0.35 | 0.51  | 0.25 |
| 13  | 0.47 | 0.46 | 0.32 | 0.36 | 0.35 | 0.33 | 0.29 | 0.31 | 0.32 | 0.30 | 0.31 | 0.33 | 0.31  | 0.33 | 0.35 | 0.33 | 0.35 | 0.31 | 0.33 | 0.38 | 0.40 | 0.38 | 0.41 | 0.38 | 0.35 | 0.47  | 0.29 |
| 14  | 0.38 | 0.36 | 0.34 | 0.34 | 0.31 | 0.34 | 0.28 | 0.29 | 0.31 | 0.26 | 0.28 | 0.36 | 24.90 | 0.93 | 0.91 | 0.92 | 0.48 | 0.32 | 0.33 | 0.31 | 0.28 | 0.35 | 0.31 | 0.32 | 1.42 | 24.90 | 0.26 |
| 15  | 0.41 | 0.36 | 0.34 | 0.29 | 0.26 | 0.26 | 0.28 | 0.31 | 0.33 | 0.30 | 0.38 | 0.58 | 1.42  | 1.15 | 0.61 | 0.34 | 0.32 | 0.31 | 0.34 | 0.31 | 0.30 | 0.24 | 0.32 | 0.36 | 0.42 | 1.42  | 0.24 |
| 16  | 0.36 | 0.30 | 0.36 | 0.36 | 0.30 | 0.33 | 0.31 | 0.27 | 0.38 | 0.47 | 0.60 | 0.77 | 0.51  | 0.36 | 0.33 | 0.35 | 0.33 | 0.31 | 0.35 | 0.33 | 0.34 | 0.34 | 0.38 | 0.39 | 0.38 | 0.77  | 0.27 |
| 17  | 0.36 | 0.37 | 0.37 | 0.40 | 0.34 | 0.32 | 0.32 | 0.32 | 0.34 | 0.37 | 0.40 | 0.39 | 0.38  | 0.46 | 0.46 | 0.45 | 0.43 | 0.49 | 0.51 | 0.48 | 0.42 | 0.48 | 0.47 | 0.46 | 0.41 | 0.51  | 0.32 |
| 18  | 0.45 | 0.44 | 0.46 | 0.43 | 0.44 | 0.46 | 0.48 | 0.44 | 0.46 | 0.47 | 0.42 | 0.43 | 0.43  | 0.44 | 0.46 | 0.48 | 0.47 | 0.59 | 0.56 | 0.54 | 0.56 | 0.48 | 0.47 | 0.48 | 0.47 | 0.59  | 0.42 |
| 19  | 0.45 | 0.46 | 0.50 | 0.49 | 0.46 | 0.47 | 0.46 | 0.49 | 0.64 | 0.80 | 0.51 | 0.48 | 0.47  | --   | 0.65 | 0.63 | 0.61 | 0.67 | 0.69 | 0.65 | 0.53 | 0.68 | 0.86 | 0.80 | 0.59 | 0.86  | 0.45 |
| 20  | 0.68 | 1.45 | 1.30 | 0.77 | 0.76 | 0.56 | 0.52 | 0.52 | 0.66 | 0.58 | 0.60 | 0.63 | 0.66  | 0.62 | 0.64 | 0.58 | 0.47 | 0.54 | 0.64 | 0.72 | 0.58 | 0.51 | 0.53 | 0.56 | 0.67 | 1.45  | 0.47 |
| 21  | 0.57 | 0.85 | 0.72 | 0.63 | 0.58 | 0.54 | 1.19 | 1.53 | 1.48 | 0.97 | 0.63 | 0.68 | 0.73  | 0.78 | 0.76 | 0.74 | 0.69 | 0.75 | 0.75 | 0.76 | 0.75 | 0.69 | 0.69 | 0.69 | 0.80 | 1.53  | 0.54 |
| 22  | 0.68 | 0.67 | 0.66 | 0.69 | 0.68 | 0.69 | 0.74 | 0.73 | 0.74 | 0.71 | 0.72 | 0.71 | 0.70  | 0.76 | 0.76 | 0.77 | 0.83 | 0.87 | 0.83 | 0.81 | 0.74 | 0.72 | 0.75 | 0.78 | 0.74 | 0.87  | 0.66 |
| 23  | 0.75 | 0.67 | 0.69 | 0.70 | 0.65 | 0.67 | 0.68 | 0.63 | 0.62 | 0.70 | 0.49 | 0.65 | 0.70  | 0.72 | 0.70 | 0.71 | 0.73 | 0.74 | 0.76 | 0.78 | 0.76 | 0.69 | 0.66 | 0.66 | 0.69 | 0.78  | 0.49 |
| 24  | 0.68 | 0.60 | 0.64 | 0.66 | 0.69 | 0.66 | 0.61 | 0.63 | 0.64 | 0.72 | 0.68 | 0.69 | 0.74  | 0.66 | 0.62 | 0.61 | 0.65 | 0.64 | 0.67 | 0.73 | 0.69 | 0.62 | 0.62 | 0.50 | 0.65 | 0.74  | 0.50 |
| 25  | 0.45 | 0.50 | 0.50 | 0.51 | 0.54 | 0.48 | 0.38 | 0.45 | 0.47 | 0.52 | 0.52 | 0.53 | 0.54  | 0.60 | 0.60 | 0.65 | 0.79 | 0.70 | 0.69 | 0.68 | 0.65 | 0.97 | 0.70 | 0.53 | 0.58 | 0.97  | 0.38 |
| 26  | 0.47 | 0.59 | 0.53 | 0.50 | 0.43 | 0.44 | 0.45 | 0.44 | 0.45 | 0.53 | 0.36 | 0.55 | 0.57  | 0.62 | 0.60 | 0.66 | 0.66 | 0.75 | 0.76 | 0.68 | 0.71 | 0.65 | 0.61 | 0.62 | 0.57 | 0.76  | 0.36 |
| 27  | 0.64 | 0.59 | 0.61 | 0.66 | 0.62 | 0.59 | 0.56 | 0.56 | 0.57 | 0.63 | 0.59 | --   | --    | 0.45 | 0.43 | 0.47 | 0.45 | 0.43 | 0.43 | 0.47 | 0.51 | 0.56 | 0.53 | 0.48 | 0.54 | 0.66  | 0.43 |
| 28  | 0.47 | 0.50 | 0.51 | 0.50 | 0.51 | 0.46 | 0.65 | 0.44 | 0.40 | 0.45 | 0.46 | 0.44 | 0.52  | 0.53 | 0.62 | 0.69 | 0.61 | 0.59 | 0.55 | 0.55 | 0.55 | 0.55 | 0.50 | 0.51 | 0.52 | 0.69  | 0.40 |
| 29  | 0.49 | 0.45 | 0.45 | 0.40 | 0.40 | 0.40 | 0.42 | 0.40 | 0.41 | 0.40 | 0.40 | 0.44 | 0.50  | 0.50 | 0.48 | 0.48 | 0.47 | 0.45 | 0.47 | 0.47 | 0.50 | 0.48 | 0.46 | 0.47 | 0.45 | 0.50  | 0.40 |
| 30  | 0.45 | 0.38 | 0.42 | 0.45 | 0.40 | 0.38 | 0.45 | 0.37 | 0.39 | 0.37 | 0.33 | 0.39 | 0.45  | 0.43 | 0.44 | 0.40 | 0.42 | 0.46 | 0.38 | 0.44 | 0.42 | 0.42 | 0.38 | 0.43 | 0.41 | 0.46  | 0.33 |
| Avg | 0.47 | 0.50 | 0.49 | 0.47 | 0.45 | 0.43 | 0.48 | 0.54 | 0.62 | 0.66 | 0.60 | 0.57 | 1.43  | 0.59 | 0.53 | 0.53 | 0.50 | 0.51 | 0.51 | 0.51 | 0.50 | 0.50 | 0.49 | 0.48 | 0.55 | --    | --   |
| Max | 0.75 | 1.45 | 1.30 | 0.77 | 0.76 | 0.69 | 1.32 | 1.92 | 2.70 | 2.70 | 2.50 | 1.37 | 24.90 | 1.15 | 1.01 | 0.92 | 0.83 | 0.87 | 0.83 | 0.81 | 0.76 | 0.97 | 0.86 | 0.80 | --   | 24.90 | --   |
| Min | 0.32 | 0.30 | 0.31 | 0.29 | 0.26 | 0.26 | 0.27 | 0.25 | 0.27 | 0.25 | 0.25 | 0.29 | 0.27  | 0.26 | 0.28 | 0.32 | 0.32 | 0.31 | 0.33 | 0.31 | 0.28 | 0.24 | 0.31 | 0.30 | --   | --    | 0.24 |

-- Indicates Invalid Data

## **Appendix D – East Plant Site Check Forms**

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



Date: 4-5-17 Time: 1409 Operator: R. ARRIDGE

YES NO

- |   |  |                                                                                              |
|---|--|----------------------------------------------------------------------------------------------|
| X |  | 1. The tower is intact and upright.                                                          |
| X |  | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| X |  | 3. All temperature shields are intact, and the probes are inside their shields.              |
| X |  | 4. The aspirator fans are operating.                                                         |
| X |  | 5. The solar radiation sensor is level and has been cleaned.                                 |
| X |  | 6. The solar panel is facing south and is clean.                                             |
| X |  | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| X |  | 8. The datalogger is reading the correct time and day.                                       |
| X |  | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| X |  | 10. Estimate and document the parameters below.                                              |

| Parameter                           | Estimated                         | Logger     | Audit          |
|-------------------------------------|-----------------------------------|------------|----------------|
| Speed 10m (m/s)                     | 2                                 | 1.7        | 2.72 +         |
| Direction* 10m (deg.)               | SE                                | 113.2      | 123 +          |
| Ambient Temperature (°C)            | 20                                | 21.4       | 21.3 +         |
| Relative Humidity (%)               | 10                                | 12.6       | 12.2 +         |
| Aspirated Temp 2m                   | 20                                | 21.4       | 21.2 +         |
| Aspirated Temp 10m                  | 20                                | 19.8       | 19.8 +         |
| Delta Temperature (°C)              | N/A                               | 1.8        | 1.96 +         |
| Solar Radiation (w/m <sup>2</sup> ) | <u>Sunny</u> Partly cloudy Cloudy | 888.6      | 895 +          |
| Barometric Pressure (mmHg)          | N/A                               | 654.3      | 654 +          |
| Battery Voltage (V)                 | N/A                               | 12.7       | 12.8 +         |
| Time (MST)                          | N/A                               | 1411       | 14:15 - L.T. + |
| Date                                | N/A                               | 2017-04-05 | 04/05/17 +     |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: 0.039" of precip. included for 14:15 hrs!  
TRIGGERED RAIN GLOBE - AAA X

Site Operator Signature: \_\_\_\_\_

*[Signature]*

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 4-5-17 Time: 1320 Operator: ATTREOLE

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> 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

|   |   |
|---|---|
|   | X |
| X |   |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Complete calibration of flow system (\*Work performed by Air Sciences)

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

YES NO

|   |   |
|---|---|
|   | X |
| X |   |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: PM10 conc. + flow invalidated for 14:00 and 15:00 hrs.  
ASI on site for quarterly flow audit/calibration!

Signature:



**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 4-5-17 ✓ Time: 1330 ✓ Operator: ATTITUDE ✓

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> 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

|   |   |
|---|---|
|   | X |
| X |   |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Complete calibration of flow system (\*Work performed by Air Sciences)

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

YES NO

|   |   |
|---|---|
|   | X |
| X |   |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences:

PM<sub>2.5</sub> conc + flow invalidated for 14:00 and 15:00 hrs. ASI on site for quarterly flow audit/  
calibration!  
66.

Signature: \_\_\_\_\_

*[Signature]*



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



Date: 04/11/2017 Time: 08:50 Operator: P. Maducno

YES NO

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit      |
|----------------------------|----------------------------|----------|------------|
| Speed 10m (m/s)            | 2m/s                       | 2.15     | 2.02 +     |
| Direction* 10m (deg)       | E                          | 90.65    | 87.8 +     |
| Ambient Temperature (°C)   | 20°                        | 19.50    | 19.8 +     |
| Relative Humidity (%)      | 12%                        | 12.06    | 12.5 +     |
| Aspirated Temperature 2m   | 20°                        | 18.83    | 18.1 +     |
| Aspirated Temperature 10m  | 19°                        | 18.29    | 18.4 +     |
| Delta Temperature (°C)     | N/A                        | -0.46    | -0.737 +   |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 524.426  | 525 +      |
| Barometric Pressure (mmHg) | N/A                        | 653.649  | 654 +      |
| Battery Voltage (V)        | N/A                        | 12.77    | 12.8 +     |
| Time (MST)                 | N/A                        | 08:55    | 08:00 LT + |
| Date                       | N/A                        | 04/11/17 | 04/11/17 + |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

*\* 0.028" of precip. invol. dated @ 08:00 hrs!*  
*\* No indication in date of evap. pan being filled?*  
*Slight overcast, Triggered precip gauge, Filled evap pan.*

Site Operator Signature:

*Paul Maducno*

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/11/2017 Time: 08:59 Operator: P. Madhane

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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]

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/11/2017 Time: 08:57 Operator: P. Maduena

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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]



**East Plant**  
O<sub>3</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                  |            |                                    |              |
|--------------------------------|------------------------------------------------------------------|------------|------------------------------------|--------------|
| Operator:<br><i>P. Madhene</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N                 | <i>224</i> | Calibration Start Time             | <i>12:11</i> |
|                                | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N | <i>191</i> | Calibration Stop Time              | <i>12:38</i> |
| Date:<br><i>04/11/17</i>       |                                                                  |            | T400 Analyzer Range                | <i>500</i>   |
|                                |                                                                  |            | Shelter Temperature<br>(20 - 30°C) | <i>22.22</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.1</i>              | <i>0.3</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.5</i>     |
| 80 ppb                | <i>80</i>                        | <i>80.2</i>             | <i>0.3</i>         | Span Drift $\leq \pm 7\%$   | <i>80.2</i>    |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.5</i>              | <i>0.82</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.2</i>             | <i>80.76</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>767</i>   | Sample Temp. (10 - 50°C)                  | <i>38.8</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>27.7</i>   | *Dilution Calibrator Flow (lpm) | <i>3.980</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.017</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3517.6</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>3.8</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3513.4</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *Paul Madhene*

**East Plant**  
**NO<sub>x</sub> Level 1 Zero and Span Check**  
**Resolution Copper Mining**



|                         |                                                            |     |                                 |       |
|-------------------------|------------------------------------------------------------|-----|---------------------------------|-------|
| Operator:<br>P. Maduano | Teledyne API T200 NOx Analyzer S/N                         | 197 | Calibration Start Time          | 09:14 |
|                         | Teledyne API T700 Primary Standard Dilution Calibrator S/N | 191 | Calibration Stop Time           | 12:50 |
| Date:<br>04/11/17       | NIST-Traceable Gas Conc.                                   | 40% | T200 Analyzer Range             | 500   |
|                         |                                                            |     | Shelter Temperature (20 - 30°C) | 20.49 |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Final NO <sub>x</sub> /Zero Response |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|--------------------------------------|
| Zero Air              | 0                                | -0.8        | -2.4                     | -3.2                     | 0.2                | Zero Drift $\leq \pm 5$ ppb | 0.4                                  |
| 80 ppb                | 80                               | 81.7        | 1.1                      | 82.8                     | 0.5                | Span Drift $\leq \pm 10$ %  | 78.7                                 |

**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                    | 0.41  |  | $\pm 2$ ppb         | No                   |
|                       | NO <sub>2</sub>         | 0.5  |  | NO <sub>2</sub>       | 0.49  |  |                     |                      |
|                       | NO <sub>x</sub>         | 0.4  |  | NO <sub>x</sub>       | 0.62  |  |                     |                      |
| 80 ppb                | NO                      | 79.1 |  | NO                    | 79.32 |  | $\pm 2$ ppb         | No                   |
|                       | NO <sub>2</sub>         | -0.3 |  | NO <sub>2</sub>       | -0.04 |  |                     |                      |
|                       | NO <sub>x</sub>         | 78.7 |  | NO <sub>x</sub>       | 78.74 |  |                     |                      |

**Analyzer Parameters**

|                                     |       |                            |       |                                   |       |
|-------------------------------------|-------|----------------------------|-------|-----------------------------------|-------|
| Sample Flow (500 $\pm$ 50 cc/min)   | 481   | Moly Temp. (315 $\pm$ 5°C) | 315.2 | Span Gas Tank Pressure (psi)      | 1900  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | 80    | HVPS (400 - 900 V)         | 744   | Span Gas Regulator Pressure (psi) | 21    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | 1.411 | NO Slope (1 $\pm$ 0.3)     | 1.279 | Zero Air Generator Pressure (psi) | 30    |
| NO <sub>x</sub> Offset (-20 to 150) | 15.2  | NO Offset (-20 to 150)     | 0.6   | *Dilution Calibrator Flow (lpm)   | 3.971 |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

*Paul Maduano*

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



Date: 04/20/17 Time: 08:46 Operator: P. Madueno

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- The tower is intact and upright.
- The anemometer propeller and the wind direction vane are turning freely.
- All temperature shields are intact, and the probes are inside their shields.
- The aspirator fans are operating.
- The solar radiation sensor is level and has been cleaned.
- The solar panel is facing south and is clean.
- The precipitation gauge is clean and free of bugs and dust.
- The datalogger is reading the correct time and day.
- The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
- Estimate and document the parameters below.

| Parameter                  | Estimated                         | Logger   | Audit          |
|----------------------------|-----------------------------------|----------|----------------|
| Speed 10m (m/s)            | 3m/s                              | 2.76     | 1.55 +         |
| Direction* 10m (deg)       | W                                 | 285.308  | 251 +          |
| Ambient Temperature (°C)   | 21°                               | 20.99    | 20.7 +         |
| Relative Humidity (%)      | 13°                               | 12.96    | 13.6 +         |
| Aspirated Temperature 2m   | 21°                               | 19.30    | 19 +           |
| Aspirated Temperature 10m  | 20°                               | 18.95    | 18.4 +         |
| Delta Temperature (°C)     | N/A                               | -0.47    | -0.593 +       |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 683.388  | 635 +          |
| Barometric Pressure (mmHg) | N/A                               | 654.066  | 654 +          |
| Battery Voltage (V)        | N/A                               | 12.73    | 12.8 +         |
| Time (MST)                 | N/A                               | 08:52    | 08:45 - L.T. + |
| Date                       | N/A                               | 04/20/17 | 04/20/17 +     |

255 - 8:15  
 250 - 8:30  
 242 - 9:00  
 247 - 9:15

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

*\* 0.028" of precip. invol. dated @ 08:00 hrs!  
 \* no indication in the date of evap. being filled!  
 Triggered precip gauge \* Filled evap pan. \**

Site Operator Signature:

*[Handwritten Signature]*

66



**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/20/17 Time: 08:58 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_

*[Handwritten Signature]*

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/20/17 Time: 08:54 Operator: P. Madhano

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Madhano



**East Plant**  
NO<sub>x</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                          |                                                 |
|--------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N<br><i>197</i>             | Verification Start Time<br><i>09:00</i>         |
| Date:<br><i>04/20/17</i>       | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>10:50</i>          |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T200 Analyzer Range<br><i>500</i>               |
|                                |                                                                          | Shelter Temperature (20 - 30°C)<br><i>19.56</i> |

Biweekly Manual Level 2 Zero and Span Precision Check

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.1</i>  | <i>-0.1</i>              | <i>0.1</i>               | <i>0.0</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.1</i> | <i>-0.2</i>              | <i>79.7</i>              | <i>0.3</i>         | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

Real-Time Analyzer vs. Logger Data Comparison

| Target Dilution (ppb) | Analyzer Response (ppb) |             | Logger Response (ppb) |              | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|-----------------------|--------------|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.1</i>  | NO                    | <i>0.36</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>-0.1</i> | NO <sub>2</sub>       | <i>0.06</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.1</i>  | NO <sub>x</sub>       | <i>0.29</i>  |                     |                      |
| 80 ppb                | NO                      | <i>80.1</i> | NO                    | <i>80.4</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>-0.2</i> | NO <sub>2</sub>       | <i>0.14</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>79.7</i> | NO <sub>x</sub>       | <i>80.19</i> |                     |                      |

Analyzer Parameters

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>483</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>314.3</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>81</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Flow (psi)     | <i>21</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.269</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.269</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>13.1</i>  | NO Offset (-20 to 150)     | <i>0.7</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.976</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

*Paul Mal*

*NO<sub>x</sub> + NO slope are a little low!*

**East Plant**  
O<sub>3</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                  |            |                                    |              |
|--------------------------------|------------------------------------------------------------------|------------|------------------------------------|--------------|
| Operator:<br><i>P. Maduena</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N                 | <i>224</i> | Verification Start Time            | <i>11:23</i> |
|                                | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N | <i>191</i> | Verification Stop Time             | <i>11:50</i> |
| Date:<br><i>04/20/17</i>       |                                                                  |            | T400 Analyzer Range                | <i>500</i>   |
|                                |                                                                  |            | Shelter Temperature<br>(20 - 30°C) | <i>20.71</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.2</i>              | <i>0.4</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>78.5</i>             | <i>0.3</i>         | Span Drift $\leq \pm 7\%$   | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.2</i>              | <i>1.27</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>78.5</i>             | <i>79.21</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>773</i>   | Sample Temp. (10 - 50°C)                  | <i>37.8</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>26.6</i>   | *Dilution Calibrator Flow (lpm) | <i>3.981</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.016</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3509.2</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>3.8</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3509.1</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *Paul Maduena*

**East Plant**  
SO<sub>2</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                          |                                               |
|--------------------------------|--------------------------------------------------------------------------|-----------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N<br><i>147</i>             | Verification Start Time<br><i>10:53</i>       |
| Date:<br><i>04/20/17</i>       | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>11:20</i>        |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T100 Analyzer Range<br><i>500</i>             |
|                                |                                                                          | Shelter Temperature (20-30°C)<br><i>19.77</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.295</i>             | <i>0.023</i>       | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>79.886</i>            | <i>0.163</i>       | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.295</i>            | <i>0.397</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>79.886</i>           | <i>80.463</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                        |                                                   |                                               |
|----------------------------------------|---------------------------------------------------|-----------------------------------------------|
| Sample Flow (550 $\pm$ 10%) <i>626</i> | Sample Press. (Ambient $\pm$ 2 in-Hg) <i>25.9</i> | Span Gas Tank Pressure (psi) <i>1900</i>      |
| UV Lamp (1000 - 4800 mV) <i>4262.0</i> | Lamp Ratio (30 - 120%) <i>115.4</i>               | Span Gas Regulator Pressure (psi) <i>21</i>   |
| Slope (1 $\pm$ 0.3) <i>1.206</i>       | BOX Temp. (Ambient $\pm$ 5°C) <i>31.0</i>         | Zero Air Generator Pressure (psi) <i>30</i>   |
| Offset (< 250 mV) <i>32.3</i>          | HVPS (400 - 900 V) <i>587</i>                     | * Dilution Calibrator Flow (lpm) <i>3.782</i> |

\* Document value during span activities.

Operator Comments:

*\* Sample Flow a little high!*

Operator Signature:

*[Signature]*



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



Date: 04/25/17 Time: 09:11 Operator: P. Madueno

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

| Parameter                  | Estimated                         | Logger   | Audit        |
|----------------------------|-----------------------------------|----------|--------------|
| Speed 10m (m/s)            | 3m/s                              | 3.78     | 2.68 +       |
| Direction* 10m (deg)       | S                                 | 142.266  | 237 ★        |
| Ambient Temperature (°C)   | 16°                               | 15.71    | 16 +         |
| Relative Humidity (%)      | 48%                               | 48.67    | 47.9 +       |
| Aspirated Temperature 2m   | 16°                               | 15.33    | 15.3 +       |
| Aspirated Temperature 10m  | 15°                               | 14.43    | 14.5 +       |
| Delta Temperature (°C)     | N/A                               | -0.85    | -0.784 +     |
| Solar Radiation (w/m²)     | Sunny <u>Partly cloudy</u> Cloudy | 729.854  | 558 ★        |
| Barometric Pressure (mmHg) | N/A                               | 647.018  | 647 +        |
| Battery Voltage (V)        | N/A                               | 12.78    | 12.8 +       |
| Time (MST)                 | N/A                               | 09:11    | 09:15 L.T. + |
| Date                       | N/A                               | 04/25/17 | 04/25/17 +   |

178-8:45  
 176-8:00  
 218-9:30  
 208-8:45  
  
 710-8:45  
 664-8:00  
 687-9:30  
 557-8:45

\*Direction wind is from 0.032" of precip. invalidated @ 09:30 hrs! 06.  
★ No indication of filling of the evap pan?!  
 Comments/Unusual Occurrences or Weather: Triggered precip gauge ★ Filled evap pan. ★

Site Operator Signature: *[Signature]* 06.

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/25/17

Time: 09:25

Operator: P. Maduno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

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). *off of 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

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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, Replaced filter tape

Signature: J. P. Maduno



## Monthly Flow Verification PM<sub>10</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>10</sub>: S/N: M8712  
Firmware:   
Calibrator: Delta Cal S/N: 1034

Date of Flow Audit: 04/25/17  
Time of Flow Audit: 12:40

|                               | BAM  | STD   |
|-------------------------------|------|-------|
| Ambient Temperature (AT) °C   | 18.6 | 18.5  |
| Barometric Pressure (BP) mmHg | 647  | 647.5 |

|                         | 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%         | 18.37           | 0.2%       |
| 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%)

(2) Leak Test 0.4 Should be < 1.0 LPM

Comments/Abnormalities: Self Test Passed

Signature:



**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/25/17 Time: 09:20 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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, Replaced filter tape

Signature: [Signature]



## Monthly Flow Verification PM<sub>2.5</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>2.5</sub>: S/N: M04660 ✓  
Firmware: Delta Cal S/N: 1034 ✓  
Calibrator: Delta Cal

Date of Flow Audit: 04/25/17 ✓  
Time of Flow Audit: 12:26 ✓

|                               | BAM  | STD   |
|-------------------------------|------|-------|
| Ambient Temperature (AT) °C   | 17.9 | 18.0  |
| Barometric Pressure (BP) mmHg | 646  | 646.5 |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0.0 ✓      | 15.03           | 0.2 ✓      |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0.0 ✓      | 18.34           | 0.3 ✓      |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0 ✓      | 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%)

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

Comments/Abnormalities: Self Test Passed ✓ 0.6

Signature: Paul Mack



**East Plant**  
**NO<sub>x</sub> Level 1 Zero and Span Check**  
**Resolution Copper Mining**



|                               |                                                                                |                                                    |
|-------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madano</i> | Teledyne API T200 NO <sub>x</sub><br>Analyzer S/N<br><i>197</i>                | Calibration Start Time<br><i>09:30</i>             |
| Date:<br><i>04/25/17</i>      | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>11:15</i>              |
|                               | NIST-Traceable Gas Conc.<br><i>40%</i>                                         | T200 Analyzer Range<br><i>500</i>                  |
|                               |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>23.77</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Final NO <sub>x</sub> /Zero Response |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|--------------------------------------|
| Zero Air              | <i>0</i>                         | <i>0.4</i>  | <i>0.4</i>               | <i>0.8</i>               | <i>0.2</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.0</i>                           |
| 80 ppb                | <i>80</i>                        | <i>79.8</i> | <i>0.5</i>               | <i>80.3</i>              | <i>0.3</i>         | Span Drift $\leq \pm 10$ %  | <i>78.8</i>                          |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             | Logger Response (ppb) |              | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|-----------------------|--------------|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.2</i>  | NO                    | <i>0.48</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>-0.3</i> | NO <sub>2</sub>       | <i>-0.28</i> |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.0</i>  | NO <sub>x</sub>       | <i>0.21</i>  |                     |                      |
| 80 ppb                | NO                      | <i>79.6</i> | NO                    | <i>80.1</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>-0.2</i> | NO <sub>2</sub>       | <i>-0.36</i> |                     |                      |
|                       | NO <sub>x</sub>         | <i>78.8</i> | NO <sub>x</sub>       | <i>79.48</i> |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>474</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>317.5</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>80</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.361</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.352</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>18.1</i>  | NO Offset (-20 to 150)     | <i>2.3</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.980</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

*\* NO<sub>x</sub> + NO Slope are a little low!*

*[Signature]*

**East Plant**  
SO<sub>2</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                                            |                                                            |            |                                 |              |
|------------------------------------------------------------|------------------------------------------------------------|------------|---------------------------------|--------------|
| Operator:<br><i>P. Madueno</i><br>Date:<br><i>04/25/17</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N             | <i>197</i> | Calibration Start Time          | <i>11:18</i> |
|                                                            | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>191</i> | Calibration Stop Time           | <i>11:45</i> |
|                                                            | NIST-Traceable Gas Conc.                                   | <i>40%</i> | T100 Analyzer Range             | <i>500</i>   |
|                                                            |                                                            |            | Shelter Temperature (20 - 30°C) | <i>22.02</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.255</i>             | <i>0.277</i>       | Zero Drift $\leq \pm 5$ ppb | <i>0.044</i>   |
| 80 ppb                | <i>80</i>                        | <i>81.312</i>            | <i>0.348</i>       | Span Drift $\leq \pm 10$ %  | <i>80.042</i>  |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.044</i>            | <i>0.135</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.042</i>           | <i>80.553</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                      |               |                                                |              |                                   |              |
|--------------------------------------|---------------|------------------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) <i>✗</i> | <i>618</i>    | Sample Press. (Ambient $\pm$ 2 in-Hg) <i>✓</i> | <i>25.7</i>  | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV) <i>✓</i>    | <i>4373.2</i> | Lamp Ratio (30 - 120%) <i>✓</i>                | <i>115.7</i> | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| Slope (1 $\pm$ 0.3)                  | <i>0.929</i>  | BOX Temp. (Ambient $\pm$ 5°C) <i>✓</i>         | <i>31.5</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV)                    | <i>32.8</i>   | HVPS (400 - 900 V) <i>✓</i>                    | <i>587</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.981</i> |

\* Document value during span activities.

Operator Comments:

*Sample Flow - Caffe high!*

Operator Signature:

*Paul MacL*

**East Plant**  
O<sub>3</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madonna</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N<br><i>224</i>                 | Calibration Start Time<br><i>11:48</i>             |
| Date:<br><i>04/25/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>11:23</i>              |
|                                |                                                                                | T400 Analyzer Range<br><i>500</i>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>20.61</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.3</i>              | <i>0.4</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.0</i>     |
| 80 ppb                | <i>80</i>                        | <i>79.4</i>             | <i>0.2</i>         | Span Drift $\leq \pm 7\%$   | <i>80.2</i>    |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.0</i>              | <i>0.43</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.7</i>             | <i>80.48</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>758</i>   | Sample Temp. (10 - 50°C)                  | <i>39.0</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>27.6</i>   | *Dilution Calibrator Flow (lpm) | <i>3.986</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.016</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3508.9</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>3.8</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3508.8</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *[Signature]*



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



Date: 05/02/17

Time: 08:40

Operator: P. Madano

YES NO

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit        |
|----------------------------|----------------------------|----------|--------------|
| Speed 10m (m/s)            | 2m/s                       | 2.04     | 1.19 +       |
| Direction* 10m (deg)       | N                          | 316.680  | 42.4 +       |
| Ambient Temperature (°C)   | 25°                        | 24.98    | 24.2 +       |
| Relative Humidity (%)      | 10%                        | 10.23    | 10.2 +       |
| Aspirated Temperature 2m   | 25°                        | 22.27    | 22.2 +       |
| Aspirated Temperature 10m  | 24°                        | 21.25    | 21.2 +       |
| Delta Temperature (°C)     | N/A                        | -0.98    | -1.02 +      |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 684.258  | 664 +        |
| Barometric Pressure (mmHg) | N/A                        | 652.246  | 652 +        |
| Battery Voltage (V)        | N/A                        | 12.69    | 12.7 +       |
| Time (MST)                 | N/A                        | 08:46    | 08.45 L.T. + |
| Date                       | N/A                        | 05/02/17 | 05/02/17 +   |

109 - 8:15  
 122 - 8:30  
 280 - 9:00  
 275 - 9:15

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

pan,

Triggered precip gauge, cleaned & filled evap

Site Operator Signature:

*[Signature]*

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/02/17 Time: 08:53 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/01 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_

*[Handwritten Signature]*

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/02/17 Time: 08:48 Operator: P. Maduena

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/02 BAM CAL Membrane 50%
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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: \_\_\_\_\_

*Paul Maduena*



**East Plant**  
NO<sub>x</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T200 NO <sub>x</sub><br>Analyzer S/N<br><i>197</i>                | Calibration Start Time<br><i>09:00</i>             |
| Date:<br><i>05/02/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>10:45</i>              |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                         | T200 Analyzer Range<br><i>500</i>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>23.13</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Final NO <sub>x</sub> / Zero Response |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|---------------------------------------|
| Zero Air              | <i>0</i>                         | <i>0.7</i>  | <i>0.1</i>               | <i>0.8</i>               | <i>0.1</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.0</i>                            |
| 80 ppb                | <i>80</i>                        | <i>75.7</i> | <i>-1.3</i>              | <i>74.4</i>              | <i>0.1</i>         | Span Drift $\leq \pm 10$ %  | <i>80.5</i>                           |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             |  | Logger Response (ppb) |              |  | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|--|-----------------------|--------------|--|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.1</i>  |  | NO                    | <i>0.38</i>  |  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.1</i>  |  | NO <sub>2</sub>       | <i>0.04</i>  |  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.0</i>  |  | NO <sub>x</sub>       | <i>0.33</i>  |  |                     |                      |
| 80 ppb                | NO                      | <i>79.5</i> |  | NO                    | <i>80.06</i> |  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.9</i>  |  | NO <sub>2</sub>       | <i>1.08</i>  |  |                     |                      |
|                       | NO <sub>x</sub>         | <i>80.5</i> |  | NO <sub>x</sub>       | <i>80.90</i> |  |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>480</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>341.0</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>80</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Pressure (psi) | <i>20</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.355</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.353</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>9.8</i>   | NO Offset (-20 to 150)     | <i>3.2</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.991</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *[Signature]*

*\* NO<sub>x</sub> slope > one a little low!  
NO slope*

**East Plant**  
SO<sub>2</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                            |                         |                                 |              |
|--------------------------------|------------------------------------------------------------|-------------------------|---------------------------------|--------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N             | <i>193</i>              | Calibration Start Time          | <i>10:48</i> |
|                                | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>191</i>              | Calibration Stop Time           | <i>11:25</i> |
| Date:<br><i>05/02/17</i>       | NIST-Traceable Gas Conc.                                   | <i>40%<sub>10</sub></i> | T100 Analyzer Range             | <i>500</i>   |
|                                |                                                            |                         | Shelter Temperature (20 - 30°C) | <i>22.75</i> |

Biweekly Manual Level 1 Zero and Span Check

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.084</i>             | <i>0.086</i>       | Zero Drift $\leq \pm 5$ ppb | <i>0.034</i>   |
| 80 ppb                | <i>80</i>                        | <i>80.051</i>            | <i>0.467</i>       | Span Drift $\leq \pm 10$ %  | <i>80.117</i>  |

Real-Time Analyzer vs. Logger Data Comparison

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.034</i>            | <i>0.447</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.117</i>           | <i>80.492</i>         | $\pm 2$ ppb         | <i>No</i>            |

Analyzer Parameters

|                                      |               |                                                |              |                                   |              |
|--------------------------------------|---------------|------------------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) <i>X</i> | <i>623</i>    | Sample Press. (Ambient $\pm$ 2 in-Hg) <i>✓</i> | <i>25.8</i>  | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV) <i>✓</i>    | <i>4377.8</i> | Lamp Ratio (30 - 120%) <i>✓</i>                | <i>115.8</i> | Span Gas Regulator Pressure (psi) | <i>20</i>    |
| Slope (1 $\pm$ 0.3) <i>✓</i>         | <i>0.914</i>  | BOX Temp. (Ambient $\pm$ 5°C) <i>✓</i>         | <i>32.1</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV) <i>✓</i>           | <i>32.8</i>   | HVPS (400 - 900 V) <i>✓</i>                    | <i>586</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.981</i> |

\* Document value during span activities.

Operator Comments:

*\* Sample Flow a little high!*

Operator Signature:

*Paul Madueno*

*66.*



**East Plant**  
O<sub>3</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N<br><i>224</i>                 | Calibration Start Time<br><i>11:26</i>             |
| Date:<br><i>05/02/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>500</i>                |
|                                |                                                                                | T400 Analyzer Range<br><i>500</i>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>19.83</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>-0.8</i>             | <i>0.2</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.7</i>     |
| 80 ppb                | <i>80</i>                        | <i>79.2</i>             | <i>0.4</i>         | Span Drift $\leq \pm 7\%$   | <i>80.2</i>    |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.7</i>              | <i>1.67</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.2</i>             | <i>80.69</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>768</i>   | Sample Temp. (10 - 50°C)                  | <i>38.1</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>26.7</i>   | *Dilution Calibrator Flow (lpm) | <i>3.990</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.026</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3504.1</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>3.2</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3503.9</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

*Paul Madueno*

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



Date: 05/11/17

Time: 08:18

Operator: P. Madueno

YES NO

- |                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit      |
|----------------------------|-----------------------------------|----------|------------|
| Speed 10m (m/s)            | 1 m/s                             | 0.00     | 1.28 +     |
| Direction* 10m (deg)       | N                                 | 315.456  | 324 +      |
| Ambient Temperature (°C)   | 19°                               | 19.69    | 19.2 +     |
| Relative Humidity (%)      | 33%                               | 33.43    | 35.8 +     |
| Aspirated Temperature 2m   | 19°                               | 16.58    | 16.8 +     |
| Aspirated Temperature 10m  | 18°                               | 15.98    | 16.1 +     |
| Delta Temperature (°C)     | N/A                               | -0.61    | -0.831 +   |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 630.654  | 616 +      |
| Barometric Pressure (mmHg) | N/A                               | 655.553  | 656 +      |
| Battery Voltage (V)        | N/A                               | 12.76    | 12.8 +     |
| Time (MST)                 | N/A                               | 08:27    | 08:30-27.8 |
| Date                       | N/A                               | 05/11/17 | 05/11/17 + |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

*\* 0.051" of precip. invalidated @ 08:50 hrs!*  
*\* No indication of evap pan being filled?*  
*Triggered precip gauge, filled evap pan*

Site Operator Signature: \_\_\_\_\_

*P. Madueno*

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/11/17 Time: 08:35 Operator: P. Madune

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- The sampler is intact and the inlet head is unobstructed.
- The vacuum pump is running and sounds normal.
- The temperature shield is intact, and the sensor is inside of it.
- The BAM is reading the correct time and day.
- The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
- Error log was checked (F3), and errors followed up on (see manual). 05/01 BAM CAC Membrane 3%
- 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Inlet Flow check performed
- Visual inspection and dust removal
- Leak check performed
- PM<sub>10</sub> particle trap cleaned
- Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Filter tape replaced
- Ran the Self-Test function

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

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Replaced muffler on the pump (\*Work performed by Air Sciences)
- 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
- Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: P. Madune



**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/11/17 Time: 08:29 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/11 BAMCAL Membrane 596
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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Madueno

**East Plant**  
NO<sub>x</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                          |                                                 |
|--------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N<br><i>197</i>             | Verification Start Time<br><i>08:40</i>         |
| Date:<br><i>05/11/17</i>       | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>11:21</i>          |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T200 Analyzer Range<br><i>500</i>               |
|                                |                                                                          | Shelter Temperature (20 - 30°C)<br><i>21.09</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.3</i>  | <i>0.4</i>               | <i>0.7</i>               | <i>0.1</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>79.8</i> | <i>0.6</i>               | <i>80.5</i>              | <i>0.1</i>         | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             | Logger Response (ppb) |              | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|-----------------------|--------------|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.3</i>  | NO                    | <i>0.44</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.4</i>  | NO <sub>2</sub>       | <i>0.61</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.7</i>  | NO <sub>x</sub>       | <i>0.93</i>  |                     |                      |
| 80 ppb                | NO                      | <i>79.8</i> | NO                    | <i>80.06</i> | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.6</i>  | NO <sub>2</sub>       | <i>0.76</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>80.5</i> | NO <sub>x</sub>       | <i>80.70</i> |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>483</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>315.7</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>81</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Flow (psi)     | <i>20</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.383</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.381</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>4.8</i>   | NO Offset (-20 to 150)     | <i>0.9</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.965</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

*\* NO<sub>x</sub> + NO slopes are low!*

*Paul Mack*

*66*

**East Plant**  
SO<sub>2</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                                |                                                  |
|--------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T100 SO <sub>2</sub><br>Analyzer S/N<br><i>193</i>                | Verification Start Time<br><i>11:23</i>          |
| Date:<br><i>05/11/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>111</i> | Verification Stop Time<br><i>11:51</i>           |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                         | T100 Analyzer Range<br><i>500</i>                |
|                                |                                                                                | Shelter Temperature<br>(20-30°C)<br><i>17.00</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.145</i>             | <i>0.261</i>       | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.083</i>            | <i>0.068</i>       | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.145</i>            | <i>0.261</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.083</i>           | <i>80.695</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                        |                                                   |                                               |
|----------------------------------------|---------------------------------------------------|-----------------------------------------------|
| Sample Flow (550 $\pm$ 10%) <i>629</i> | Sample Press. (Ambient $\pm$ 2 in-Hg) <i>25.9</i> | Span Gas Tank Pressure (psi) <i>1900</i>      |
| UV Lamp (1000 - 4800 mV) <i>4381.1</i> | Lamp Ratio (30 - 120%) <i>115.9</i>               | Span Gas Regulator Pressure (psi) <i>20</i>   |
| Slope (1 $\pm$ 0.3) <i>0.903</i>       | BOX Temp. (Ambient $\pm$ 5°C) <i>30.9</i>         | Zero Air Generator Pressure (psi) <i>30</i>   |
| Offset (< 250 mV) <i>32.7</i>          | HVPS (400 - 900 V) <i>587</i>                     | * Dilution Calibrator Flow (lpm) <i>3.976</i> |

\* Document value during span activities.

Operator Comments:

*\* Shelter Temp. - little low!*  
*\* Sample Flow - little high!*

Operator Signature:

*66 -*



**East Plant**  
O<sub>3</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N<br><i>224</i>                 | Verification Start Time<br><i>11:53</i>            |
| Date:<br><i>05/11/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>11:28</i>             |
|                                |                                                                                | T400 Analyzer Range<br><i>560</i>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>17.63</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.1</i>              | <i>0.4</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.0</i>             | <i>0.5</i>         | Span Drift $\leq \pm 7\%$   | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.1</i>              | <i>0.439</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.0</i>             | <i>80.52</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |           |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|-----------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>772</i>   | Sample Temp. (10 - 50°C)                  | <i>38.1</i>   | Zero Air Generator (psi)        | <i>30</i> |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>27.2</i>   | *Dilution Calibrator Flow (lpm) | <i>?</i>  |
| Slope (1 $\pm$ 0.15)              | <i>1.020</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3494.5</i> |                                 |           |
| Offset (0.0 $\pm$ 5 ppb)          | <i>4.3</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3494.5</i> |                                 |           |

\* Document actual value during span activities.

Operator Comments:

*\* Shelter Temp - a little low!*

Operator Signature:

*[Signature]*

*66*

# East Plant

## MET SITE CHECK FORM

### Resolution Copper Company



Date: 05/16/17

Time: 08:00

Operator: P. Maduenis

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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                              | 1.33    | 1.84 +         |
| Direction* 10m (deg)       | W                                 | 256.895 | 217 +          |
| Ambient Temperature (°C)   | 10°                               | 10.85   | 11 +           |
| Relative Humidity (%)      | 41%                               | 41.91   | 41.5 +         |
| Aspirated Temperature 2m   | 10°                               | 10.02   | 10.4 +         |
| Aspirated Temperature 10m  | 9°                                | 9.82    | 9.84 +         |
| Delta Temperature (°C)     | N/A                               | -0.26   | -0.487 +       |
| Solar Radiation (w/m²)     | Sunny <u>Partly cloudy</u> Cloudy | 621.716 | 380 +          |
| Barometric Pressure (mmHg) | N/A                               | 649.716 | 650 +          |
| Battery Voltage (V)        | N/A                               | 12.95   | 13 +           |
| Time (MST)                 | N/A                               | 08:09   | 08:15 - L.T. + |
| Date                       | N/A                               | 05- -17 | 05/16/17 +     |

232 - 7:45  
228 - 8:00  
200 - 8:30  
280 - 8:45

142 - 7:45  
213 - 8:00  
663 - 8:30  
716 - 8:45

68

\*Direction wind is from

\*0.02" if precip. invalidated @ 08:15 hrs!

Comments/Unusual Occurrences or Weather:

Triggered precip gauge. \*

Site Operator Signature:

*[Signature]*



**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/16/17 Time: 08:15 Operator: P. MADWENO

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/01 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Marshall

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/14/17 Time: 08:11 Operator: P. MADUENO

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/16 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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<sub>x</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                            |            |                                 |              |
|--------------------------------|------------------------------------------------------------|------------|---------------------------------|--------------|
| Operator:<br><i>P. MADUENO</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N             | <i>197</i> | Calibration Start Time          | <i>08:20</i> |
|                                | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>197</i> | Calibration Stop Time           | <i>10:28</i> |
|                                | NIST-Traceable Gas Conc.                                   | <i>40%</i> | T200 Analyzer Range             | <i>500</i>   |
| Date:<br><i>05-16-17</i>       |                                                            |            | Shelter Temperature (20 - 30°C) | <i>25.84</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Final NO <sub>x</sub> /Zero Response |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|--------------------------------------|
| Zero Air              | <i>0</i>                         | <i>0.1</i>  | <i>0.7</i>               | <i>0.8</i>               | <i>0.0</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.3</i>                           |
| 80 ppb                | <i>80</i>                        | <i>80.4</i> | <i>0.7</i>               | <i>81.1</i>              | <i>0.4</i>         | Span Drift $\leq \pm 10$ %  | <i>80.2</i>                          |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             | Logger Response (ppb) |              | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|-----------------------|--------------|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.0</i>  | NO                    | <i>0.31</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>-0.1</i> | NO <sub>2</sub>       | <i>-0.22</i> |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.3</i>  | NO <sub>x</sub>       | <i>0.56</i>  |                     |                      |
| 80 ppb                | NO                      | <i>80.0</i> | NO                    | <i>80.15</i> | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.2</i>  | NO <sub>2</sub>       | <i>0.56</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>80.2</i> | NO <sub>x</sub>       | <i>80.53</i> |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>470</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>314.9</i> | Span Gas Tank Pressure (psi)      | <i>2000</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>80</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.383</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.381</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>4.8</i>   | NO Offset (-20 to 150)     | <i>0.9</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.965</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *Paul Madueno*

*\* NO<sub>x</sub> + NO slope - low!*

*66*



**East Plant**  
SO<sub>2</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                          |                                                 |
|--------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|
| Operator:<br><i>P. MADUENO</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N<br><i>193</i>             | Calibration Start Time<br><i>10:30</i>          |
| Date:<br><i>05-16-17</i>       | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>11:00</i>           |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T100 Analyzer Range<br><i>500</i>               |
|                                |                                                                          | Shelter Temperature (20 - 30°C)<br><i>27.56</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.037</i>             | <i>0.101</i>       | Zero Drift $\leq \pm 5$ ppb | <i>0.132</i>   |
| 80 ppb                | <i>80</i>                        | <i>77.898</i>            | <i>0.437</i>       | Span Drift $\leq \pm 10$ %  | <i>80.200</i>  |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.132</i>            | <i>0.381</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.200</i>           | <i>80.542</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                        |                                                   |                                               |
|----------------------------------------|---------------------------------------------------|-----------------------------------------------|
| Sample Flow (550 $\pm$ 10%) <i>623</i> | Sample Press. (Ambient $\pm$ 2 in-Hg) <i>25.8</i> | Span Gas Tank Pressure (psi) <i>2000</i>      |
| UV Lamp (1000 - 4800 mV) <i>4388.0</i> | Lamp Ratio (30 - 120%) <i>116.0</i>               | Span Gas Regulator Pressure (psi) <i>21</i>   |
| Slope (1 $\pm$ 0.3) <i>0.904</i>       | BOX Temp. (Ambient $\pm$ 5°C) <i>32.0</i>         | Zero Air Generator Pressure (psi) <i>30</i>   |
| Offset (< 250 mV) <i>32.8</i>          | HVPS (400 - 900 V) <i>587</i>                     | * Dilution Calibrator Flow (lpm) <i>3.976</i> |

\* Document value during span activities.

Operator Comments:

*\* Sample Flow - high!*

*66*

Operator Signature:

**East Plant**  
O<sub>3</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><b>P. MADUENO</b> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N<br><b>224</b>                 | Calibration Start Time<br><b>11103</b>             |
| Date:<br><b>05/16/17</b>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><b>191</b> | Calibration Stop Time<br><b>11:31</b>              |
|                                |                                                                                | T400 Analyzer Range<br><b>500</b>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><b>24.40</b> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <b>0</b>                         | <b>0.2</b>              | <b>0.2</b>         | Zero Drift $\leq \pm 5$ ppb | <b>0.4</b>     |
| 80 ppb                | <b>80</b>                        | <b>79.6</b>             | <b>0.5</b>         | Span Drift $\leq \pm 7\%$   | <b>80.8</b>    |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <b>0.4</b>              | <b>1.50</b>           | $\pm 2$ ppb         | <b>No</b>            |
| 80 ppb                | <b>80.8</b>             | <b>81.37</b>          | $\pm 2$ ppb         | <b>No</b>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <b>758</b>   | Sample Temp. (10 - 50°C)                  | <b>39.9</b>   | Zero Air Generator (psi)        | <b>30</b>    |
| Photo Lamp (58 $\pm$ 1°C)         | <b>58.0</b>  | BOX Temp. (10 to 50°C)                    | <b>28.6</b>   | *Dilution Calibrator Flow (lpm) | <b>3.976</b> |
| Slope (1 $\pm$ 0.15)              | <b>11031</b> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <b>3489.6</b> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <b>4.1</b>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <b>3492.0</b> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

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



Date: 05/24/17 Time: 08:20 Operator: P. Madunaw

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- The tower is intact and upright.
- The anemometer propeller and the wind direction vane are turning freely.
- All temperature shields are intact, and the probes are inside their shields.
- The aspirator fans are operating.
- The solar radiation sensor is level and has been cleaned.
- The solar panel is facing south and is clean.
- The precipitation gauge is clean and free of bugs and dust.
- The datalogger is reading the correct time and day.
- The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
- Estimate and document the parameters below.

| Parameter                  | Estimated                         | Logger   | Audit      |
|----------------------------|-----------------------------------|----------|------------|
| Speed 10m (m/s)            | 1m/s                              | 0.61     | 1.57 +     |
| Direction* 10m (deg)       | E                                 | 88.34    | 92.4 +     |
| Ambient Temperature (°C)   | 28°                               | 28.54    | 27.8 +     |
| Relative Humidity (%)      | 11%                               | 10.66    | 10.8 +     |
| Aspirated Temperature 2m   | 28°                               | 27.16    | 26.5 +     |
| Aspirated Temperature 10m  | 27°                               | 25.92    | 25.5 +     |
| Delta Temperature (°C)     | N/A                               | -0.91    | -1.05 +    |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 646.049  | 645 +      |
| Barometric Pressure (mmHg) | N/A                               | 651.549  | 652 +      |
| Battery Voltage (V)        | N/A                               | 12.64    | 12.7 +     |
| Time (MST)                 | N/A                               | 08:26    | 08:30-LT   |
| Date                       | N/A                               | 05/24/17 | 05/24/17 + |

\*Direction wind is from

*\* No indication of precip. gauge being tipped! ?*

Comments/Unusual Occurrences or Weather: Triggered precip gauge, Filled ewap pan. Wildfire near may effect data

Site Operator Signature: \_\_\_\_\_

*[Handwritten Signature]*



**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/24/17 Time: 08:35 Operator: P. Maduano

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/22 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_

*[Handwritten Signature]*

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/24/17 Time: 08:31 Operator: P. Maduino

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/23 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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<sub>x</sub> Level 2 Zero and Span Precision Check**  
**Resolution Copper Mining**



|                                  |                                                                          |                                                 |
|----------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|
| Operator:<br><i>P. M. MADWEN</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N<br><i>197</i>             | Verification Start Time<br><i>08:35</i>         |
| Date:<br><i>05/24/17</i>         | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>09:59</i>          |
|                                  | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T200 Analyzer Range<br><i>500</i>               |
|                                  |                                                                          | Shelter Temperature (20 - 30°C)<br><i>17.94</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria  | Adjustment Required? |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|----------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.2</i>  | <i>0.7</i>               | <i>0.8</i>               | <i>0.1</i>         | Zero Drift ≤ ± 5 ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>79.3</i> | <i>0.9</i>               | <i>80.3</i>              | <i>0.5</i>         | Span Drift ≤ ± 10 %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             |  | Logger Response (ppb) |              |  | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|--|-----------------------|--------------|--|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.2</i>  |  | NO                    | <i>0.18</i>  |  | ± 2 ppb             | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.7</i>  |  | NO <sub>2</sub>       | <i>0.79</i>  |  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.8</i>  |  | NO <sub>x</sub>       | <i>0.97</i>  |  |                     |                      |
| 80 ppb                | NO                      | <i>79.3</i> |  | NO                    | <i>79.49</i> |  | ± 2 ppb             | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.9</i>  |  | NO <sub>2</sub>       | <i>1.27</i>  |  |                     |                      |
|                       | NO <sub>x</sub>         | <i>80.3</i> |  | NO <sub>x</sub>       | <i>80.67</i> |  |                     |                      |

**Analyzer Parameters**

|                                     |              |                        |              |                                   |              |
|-------------------------------------|--------------|------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 ± 50 cc/min)       | <i>480</i>   | Moly Temp. (315 ± 5°C) | <i>315.6</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 ± 15 cc/min)         | <i>80</i>    | HVPS (400 - 900 V)     | <i>744</i>   | Span Gas Regulator Flow (psi)     | <i>21</i>    |
| NO <sub>x</sub> Slope (1 ± 0.3)     | <i>0.379</i> | NO Slope (1 ± 0.3)     | <i>0.378</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>7.1</i>   | NO Offset (-20 to 150) | <i>0.6</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.968</i> |

\* Document actual value during span activities.

Operator Comments:

*Replaced filter*

Operator Signature:

*\*<sup>1</sup> Shelter Temp. - little low!*

*\*<sup>2</sup> NO<sub>x</sub> + NO slopes - low!*

*66-*

**East Plant**  
SO<sub>2</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                   |                                                                          |                                               |
|-----------------------------------|--------------------------------------------------------------------------|-----------------------------------------------|
| Operator:<br><i>P. M. MADRERO</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N<br><i>193</i>             | Verification Start Time<br><i>10:01</i>       |
| Date:<br><i>05/24/17</i>          | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>10:36</i>        |
|                                   | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T100 Analyzer Range<br><i>500</i>             |
|                                   |                                                                          | Shelter Temperature (20-30°C)<br><i>21.99</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.123</i>             | <i>0.011</i>       | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.054</i>            | <i>0.124</i>       | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.123</i>            | <i>0.281</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.054</i>           | <i>80.068</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                      |               |                                                |              |                                   |              |
|--------------------------------------|---------------|------------------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) <i>✓</i> | <i>625</i>    | Sample Press. (Ambient $\pm$ 2 in-Hg) <i>✓</i> | <i>25.8</i>  | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV) <i>✓</i>    | <i>4372.9</i> | Lamp Ratio (30 - 120%) <i>✓</i>                | <i>115.7</i> | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| Slope (1 $\pm$ 0.3) <i>✓</i>         | <i>0.904</i>  | BOX Temp. (Ambient $\pm$ 5°C) <i>✓</i>         | <i>31.1</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV) <i>✓</i>           | <i>32.8</i>   | HVPS (400 - 900 V) <i>✓</i>                    | <i>586</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.981</i> |

\* Document value during span activities.

**Operator Comments:**

*Replaced filter ✓*

**Operator Signature:**

*[Signature]*

*\* Sample Flow - a little high!*

*26.*

**East Plant**  
O<sub>3</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                  |            |                                    |              |
|--------------------------------|------------------------------------------------------------------|------------|------------------------------------|--------------|
| Operator:<br><i>P. MENDOZA</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N                 | <i>224</i> | Verification Start Time            | <i>10:38</i> |
|                                | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N | <i>191</i> | Verification Stop Time             | <i>11:20</i> |
| Date:<br><i>05/24/17</i>       |                                                                  |            | T400 Analyzer Range                | <i>500</i>   |
|                                |                                                                  |            | Shelter Temperature<br>(20 - 30°C) | <i>20.30</i> |

Biweekly Manual Level 2 Zero and Span Precision Check

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.2</i>              | <i>0.3</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.5</i>             | <i>0.5</i>         | Span Drift $\leq \pm 7\%$   | <i>No</i>            |

Real-Time Analyzer vs. Logger Data Comparison

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.2</i>              | <i>0.56</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.5</i>             | <i>80.9</i>           | $\pm 2$ ppb         | <i>No</i>            |

Analyzer Parameters

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>771</i>   | Sample Temp. (10 - 50°C)                  | <i>37.6</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>26.9</i>   | *Dilution Calibrator Flow (lpm) | <i>3.982</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.031</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3487.5</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>4.1</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3187.3</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

*Replaced Filter.*

Operator Signature:



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



Date: 05/30/17

Time: 07:50

Operator: P. Maduena

YES NO

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit      |
|----------------------------|-----------------------------------|----------|------------|
| Speed 10m (m/s)            | 6m/s                              | 6.04     | 5.41 +     |
| Direction* 10m (deg)       | SW                                | 60.81    | 55.5 +     |
| Ambient Temperature (°C)   | 23°                               | 23.15    | 23.2 +     |
| Relative Humidity (%)      | 32%                               | 32.99    | 33.1 +     |
| Aspirated Temperature 2m   | 23°                               | 22.77    | 22.8 +     |
| Aspirated Temperature 10m  | 22°                               | 21.91    | 21.8 +     |
| Delta Temperature (°C)     | N/A                               | -0.93    | -1.02 +    |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 525.460  | 517 +      |
| Barometric Pressure (mmHg) | N/A                               | 651.862  | 652 +      |
| Battery Voltage (V)        | N/A                               | 12.70    | 12.7 +     |
| Time (MST)                 | N/A                               | 07:58    | 08:00 LT   |
| Date                       | N/A                               | 05/30/17 | 05/31/17 + |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge, \* Filled evap  
pano

Site Operator Signature: Paul Mark

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/30/17 Time: 08:07 Operator: P. Maduano

**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). 05/22 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<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. 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: [Signature]



## Monthly Flow Verification PM<sub>10</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>10</sub>:

S/N: MB 714 ✓

Firmware:

Calibrator:

Delta Cal

S/N: 1034 ✓

Date of Flow Audit:

05/31/17

Time of Flow Audit:

08:40

BAM STD

Ambient Temperature (AT) °C

23.0 24.3 ✓

Barometric Pressure (BP) mmHg

652 652.5 ✓

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0 ✓        | 15.06           | 0.4 ✓      |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0 ✓        | 18.39           | 0.1 ✓      |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0 ✓        | 16.75           | 0.3 ✓      |
| 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%)

(2) Leak Test 0.5 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed ✓

\* PM10 conc. + flow invalidated for 08:00 hrs! 66

Signature:

Paul Mal

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/30/17 Time: 08:01 Operator: P. Maduano

**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). 05/29
6. Error log was checked (F3), and errors followed up on (see manual). BAM CAL Membrane 5%
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|   |  |
|---|--|
| ✓ |  |
| ✓ |  |
| ✓ |  |
| ✓ |  |
| ✓ |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. 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 Verification

Signature: [Signature]





## Monthly Flow Verification PM<sub>2.5</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020  
Firmware:  
Calibrator:

PM<sub>2.5</sub>:

S/N: M6466 ✓

Delta Cal ✓

S/N: 1034 ✓

Date of Flow Audit:  
Time of Flow Audit:

05/30/17

08:15 ✓

Ambient Temperature (AT) °C

Barometric Pressure (BP) mmHg

| BAM  | STD    |
|------|--------|
| 23.1 | 23.3 ✓ |
| 654  | 654 ✓  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0% ✓       | 15.02           | 0.1% ✓     |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0% ✓       | 18.32           | 0.4% ✓     |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0% ✓       | 16.67           | 0.2% ✓     |
| 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%)

(2) Leak Test

BAM

0.6 ✓

Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed ✓

\* PM<sub>2.5</sub> conc. + flow indicated for 08:00 hrs!

Signature:

*John M. [Signature]*

86



**East Plant**  
**NO<sub>x</sub> Level 1 Zero and Span Check**  
**Resolution Copper Mining**



|                                |                                                            |            |                                 |              |
|--------------------------------|------------------------------------------------------------|------------|---------------------------------|--------------|
| Operator:<br><i>P. Maduero</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N             | <i>147</i> | Calibration Start Time          | <i>08:00</i> |
|                                | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>141</i> | Calibration Stop Time           | <i>10:30</i> |
|                                | NIST-Traceable Gas Conc.                                   | <i>40%</i> | T200 Analyzer Range             | <i>500</i>   |
| Date:<br><i>06/01/17</i>       |                                                            |            | Shelter Temperature (20 - 30°C) | <i>23.7</i>  |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Final NO <sub>x</sub> /Zero Response |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|--------------------------------------|
| Zero Air              | <i>0</i>                         | <i>0.3</i>  | <i>0.5</i>               | <i>0.9</i>               | <i>0.2</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.2</i>                           |
| 80 ppb                | <i>80</i>                        | <i>77.2</i> | <i>-0.1</i>              | <i>77.1</i>              | <i>0.2</i>         | Span Drift $\leq \pm 10$ %  | <i>81.1</i>                          |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             |  | Logger Response (ppb) |              |  | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|--|-----------------------|--------------|--|---------------------|----------------------|
| Zero Air              | NO                      | <i>-0.1</i> |  | NO                    | <i>-0.06</i> |  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.0</i>  |  | NO <sub>2</sub>       | <i>0.14</i>  |  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.2</i>  |  | NO <sub>x</sub>       | <i>0.26</i>  |  |                     |                      |
| 80 ppb                | NO                      | <i>80.9</i> |  | NO                    | <i>81.42</i> |  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.4</i>  |  | NO <sub>2</sub>       | <i>0.69</i>  |  |                     |                      |
|                       | NO <sub>x</sub>         | <i>81.1</i> |  | NO <sub>x</sub>       | <i>81.59</i> |  |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>471</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>316.0</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>80</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.379</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.378</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>7.1</i>   | NO Offset (-20 to 150)     | <i>0.8</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.967</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

*\* NO<sub>x</sub> + NO slope - low!*

*[Signature]*

**East Plant**  
SO<sub>2</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                               |                                                            |            |                                 |              |
|-------------------------------|------------------------------------------------------------|------------|---------------------------------|--------------|
| Operator:<br><i>P. Maduno</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N             | <i>193</i> | Calibration Start Time          | <i>10:33</i> |
|                               | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>191</i> | Calibration Stop Time           | <i>11:08</i> |
| Date:<br><i>06/01/17</i>      |                                                            |            | T100 Analyzer Range             | <i>500</i>   |
|                               | NIST-Traceable Gas Conc.                                   | <i>40%</i> | Shelter Temperature (20 - 30°C) | <i>19.66</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.1243</i>            | <i>0.1086</i>      | Zero Drift $\leq \pm 5$ ppb | <i>0.140</i>   |
| 80 ppb                | <i>80</i>                        | <i>79.828</i>            | <i>0.532</i>       | Span Drift $\leq \pm 10$ %  | <i>80.061</i>  |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.140</i>            | <i>0.165</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.061</i>           | <i>80.537</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                             |              |                                       |              |                                   |              |
|-----------------------------|--------------|---------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) | <i>626</i>   | Sample Press. (Ambient $\pm$ 2 in-Hg) | <i>25.8</i>  | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV)    | <i>4585</i>  | Lamp Ratio (30 - 120%)                | <i>116.1</i> | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| Slope (1 $\pm$ 0.3)         | <i>0.904</i> | BOX Temp. (Ambient $\pm$ 5°C)         | <i>31.2</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV)           | <i>32.8</i>  | HVPS (400 - 900 V)                    | <i>586</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.987</i> |

\* Document value during span activities.

Operator Comments:

Operator Signature:

*\* Shelter T - low!*  
*\* Sample Flow - high!*

**East Plant**  
O<sub>3</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                  |            |                                    |              |
|--------------------------------|------------------------------------------------------------------|------------|------------------------------------|--------------|
| Operator:<br><i>P. Maduena</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N                 | <i>224</i> | Calibration Start Time             | <i>11:10</i> |
|                                | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N | <i>191</i> | Calibration Stop Time              | <i>11:38</i> |
| Date:<br><i>06/01/17</i>       |                                                                  |            | T400 Analyzer Range                | <i>500</i>   |
|                                |                                                                  |            | Shelter Temperature<br>(20 - 30°C) | <i>22.63</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.1</i>              | <i>0.5</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.4</i>     |
| 80 ppb                | <i>80</i>                        | <i>80.4</i>             | <i>0.3</i>         | Span Drift $\leq \pm 7\%$   | <i>80.2</i>    |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.4</i>              | <i>1.45</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.2</i>             | <i>80.46</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>767</i>   | Sample Temp. (10 - 50°C)                  | <i>37.9</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>26.5</i>   | *Dilution Calibrator Flow (lpm) | <i>3.965</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.031</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3481.2</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>4.1</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3481.1</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *[Signature]*



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



Date: 06/09/17

Time: 08:28

Operator: F. 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)            | 2 m/s                             | 2.66     | 2.54 +        |
| Direction* 10m (deg)       | 3                                 | 284.517  | 275 +         |
| Ambient Temperature (°C)   | 28°                               | 28.81    | 28.6 +        |
| Relative Humidity (%)      | 13%                               | 13.18    | 13.1 +        |
| Aspirated Temperature 2m   | 28°                               | 26.46    | 26.6 +        |
| Aspirated Temperature 10m  | 27°                               | 26.97    | 26.2 +        |
| Delta Temperature (°C)     | N/A                               | -0.36    | -0.383 +      |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 663.681  | 624 +         |
| Barometric Pressure (mmHg) | N/A                               | 652.711  | 653 +         |
| Battery Voltage (V)        | N/A                               | 12.77    | 12.7 +        |
| Time (MST)                 | N/A                               | 08:35    | 08:30 - L.T.F |
| Date                       | N/A                               | 06/09/17 | 06/08/17 +    |

\*Direction wind is from

\*0.02" of precip. imbedded @ 08:45 hrs!

Comments/Unusual Occurrences or Weather:

Triggered precip gauge, Filled w/pan.

Site Operator Signature:

[Signature]

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/09/17 Time: 08:42 Operator: P. Maduano

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/31 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences:

Replaced guide assembly block,  
Monthly Flow Verification, Self Test Passed.

Signature: [Signature]



## Monthly Flow Verification PM<sub>10</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>10</sub>: S/N: M8714 ✓  
Firmware: Delta cal S/N: 1034 ✓  
Calibrator: \_\_\_\_\_

Date of Flow Audit: 06/09/17 ✓  
Time of Flow Audit: 12:35 ✓

|                               | BAM  | STD  |
|-------------------------------|------|------|
| Ambient Temperature (AT) °C   | 65.2 | 65.2 |
| Barometric Pressure (BP) mmHg | 31.9 | 31.5 |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.10           | 0.7 ✓      | 14.98           | 0.8 ✓      |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0.0 ✓      | 18.21           | 1.0 ✓      |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0 ✓      | 16.67           | 0.2 ✓      |
| 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%)

(2) Leak Test 0.4 Should be < 1.0 LPM

Comments/Abnormalities: Self Test Passed ✓

\* PM10 conc. + flow invalidated for 13:00 and 14:00 hrs!

Signature:

66



**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/09/17 Time: 08:37 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). OS/SI 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences:

Replaced guide block assembly,  
Monthly Flow Verification, Self Test Passed,

Signature: [Signature]



## Monthly Flow Verification PM<sub>2.5</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>2.5</sub>:

S/N: M6466

Firmware:

Calibrator:

Delta Cal

S/N: 1034

Date of Flow Audit:

06/09/17

Time of Flow Audit:

12:15

Ambient Temperature (AT) °C

| BAM  | STD  |
|------|------|
| 65.2 | 65.3 |
| 32.7 | 32.8 |

Barometric Pressure (BP) mmHg

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0.0%       | 14.95           | 0.3%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0.0%       | 18.21           | 1.0%       |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0%       | 16.60           | 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%)

(2) Leak Test 0.5 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed

\* PM<sub>2.5</sub> conc. flow indicated for 12:00 and 13:00 hrs!

Signature:

*[Handwritten Signature]*

06



**East Plant**  
NO<sub>x</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                               |                                                            |            |                                 |              |
|-------------------------------|------------------------------------------------------------|------------|---------------------------------|--------------|
| Operator:<br><i>P. Madano</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N             | <i>197</i> | Verification Start Time         | <i>08:50</i> |
|                               | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>191</i> | Verification Stop Time          | <i>10:48</i> |
| Date:<br><i>06/09/17</i>      |                                                            |            | T200 Analyzer Range             | <i>500</i>   |
|                               | NIST-Traceable Gas Conc.                                   | <i>40%</i> | Shelter Temperature (20 - 30°C) | <i>17.91</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.0</i>  | <i>0.5</i>               | <i>0.5</i>               | <i>0.1</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>78.3</i> | <i>1.0</i>               | <i>79.2</i>              | <i>0.2</i>         | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             | Logger Response (ppb) |              | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|-----------------------|--------------|---------------------|----------------------|
| Zero Air              | NO                      | <i>0.0</i>  | NO                    | <i>0.04</i>  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.5</i>  | NO <sub>2</sub>       | <i>0.66</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.5</i>  | NO <sub>x</sub>       | <i>0.72</i>  |                     |                      |
| 80 ppb                | NO                      | <i>78.3</i> | NO                    | <i>78.29</i> | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>1.0</i>  | NO <sub>2</sub>       | <i>1.14</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>79.2</i> | NO <sub>x</sub>       | <i>79.31</i> |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>472</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>315.0</i> | Span Gas Tank Pressure (psi)      | <i>19</i>    |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>80</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Flow (psi)     | <i>21</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.395</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.393</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>8.0</i>   | NO Offset (-20 to 150)     | <i>0.4</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.975</i> |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *[Signature]*

*\* Shelter Temp. - low!*  
*\* NO<sub>x</sub> + NO slopes - low!*

*66*

**East Plant**  
SO<sub>2</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                                |                                                  |
|--------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T100 SO <sub>2</sub><br>Analyzer S/N<br><i>193</i>                | Verification Start Time<br><i>10:51</i>          |
| Date:<br><i>06/08/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>11:26</i>           |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                         | T100 Analyzer Range<br><i>500</i>                |
|                                |                                                                                | Shelter Temperature<br>(20-30°C)<br><i>20.15</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.020</i>             | <i>0.028</i>       | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.082</i>            | <i>0.050</i>       | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.020</i>            | <i>0.231</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.082</i>           | <i>80.374</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                      |              |                                       |              |                                   |              |
|--------------------------------------|--------------|---------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) <i>*</i> | <i>627</i>   | Sample Press. (Ambient $\pm$ 2 in-Hg) | <i>25.7</i>  | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV)             | <i>43933</i> | Lamp Ratio (30 - 120%)                | <i>116.3</i> | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| Slope (1 $\pm$ 0.3)                  | <i>0.908</i> | BOX Temp. (Ambient $\pm$ 5°C)         | <i>31.0</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV)                    | <i>33.3</i>  | HVPS (400 - 900 V)                    | <i>587</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.969</i> |

\* Document value during span activities.

Operator Comments:

*\* Sample Flow - high!*

Operator Signature:

*[Signature]*

*66*

**East Plant**  
O<sub>3</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madhane</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N<br><i>224</i>                 | Verification Start Time<br><i>11:30</i>            |
| Date:<br><i>06/08/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>12:07</i>             |
|                                |                                                                                | T400 Analyzer Range<br><i>500</i>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>21.12</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.0</i>              | <i>0.3</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.8</i>             | <i>79.81</i>       | Span Drift $\leq \pm 7\%$   | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.0</i>              | <i>-1.22</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.8</i>             | <i>79.81</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>776</i>   | Sample Temp. (10 - 50°C)                  | <i>37.0</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>26.6</i>   | *Dilution Calibrator Flow (lpm) | <i>3.977</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.024</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3476.6</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>4.0</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3476.5</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:



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



Date: 06/14/17

Time: 09:03

Operator: P. Maduena

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit   |
|----------------------------|-----------------------------------|----------|---------|
| Speed 10m (m/s)            | 2m/s                              | 1.94     | 2.01    |
| Direction* 10m (deg)       | W                                 | 104.011  | 68.7    |
| Ambient Temperature (°C)   | 27°                               | 27.43    | 27.9    |
| Relative Humidity (%)      | 4%                                | 3.36     | 3.77    |
| Aspirated Temperature 2m   | 27°                               | 26.30    | 27.1    |
| Aspirated Temperature 10m  | 26°                               | 25.31    | 25.5    |
| Delta Temperature (°C)     | N/A                               | -1.09    | -1.63   |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 815.380  | 828     |
| Barometric Pressure (mmHg) | N/A                               | 652.345  | 653     |
| Battery Voltage (V)        | N/A                               | 12.65    | 12.7    |
| Time (MSI)                 | N/A                               | 09:09    | 0915    |
| Date                       | N/A                               | 06/14/17 | 6-14-17 |

no values  
 x2↑ x2↓  
 { 54.4  
 61.8  
 81.1  
 355.0

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge -  
INVALIDATED 0.032" of precip recorded on 6/14/17 - 12:00

Site Operator Signature: [Signature]

**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/14/17 Time: 09:11 Operator: P. Maducino

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

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). 06/09 Maintenance
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. 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**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/14/17

Time: 09:15

Operator: P. Madhane

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 06/09 Maintenance
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

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<sub>x</sub> Level 2 Zero and Span Precision Check**  
**Resolution Copper Mining**



|                                |                                                            |     |                                 |       |
|--------------------------------|------------------------------------------------------------|-----|---------------------------------|-------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T200 NOx Analyzer S/N                         | 197 | Verification Start Time         | 10:51 |
|                                | Teledyne API T700 Primary Standard Dilution Calibrator S/N | 191 | Verification Stop Time          | 12:57 |
| Date:<br><i>06/19/17</i>       | NIST-Traceable Gas Conc.                                   | 40% | T200 Analyzer Range             | 500   |
|                                |                                                            |     | Shelter Temperature (20 - 30°C) | 18:51 |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | 0                                | 0.1         | 0.3                      | 0.4                      | 0.1                | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | 80                               | 80.5        | -0.4                     | 80.2                     | 0.3                | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**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                    | 0.23  | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | 0.3  | NO <sub>2</sub>       | 0.43  |                     |                      |
|                       | NO <sub>x</sub>         | 0.4  | NO <sub>x</sub>       | 0.44  |                     |                      |
| 80 ppb                | NO                      | 80.5 | NO                    | 80.74 | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | -0.4 | NO <sub>2</sub>       | -0.28 |                     |                      |
|                       | NO <sub>x</sub>         | 80.2 | NO <sub>x</sub>       | 80.47 |                     |                      |

**Analyzer Parameters**

|                                     |       |                            |       |                                   |       |
|-------------------------------------|-------|----------------------------|-------|-----------------------------------|-------|
| Sample Flow (500 $\pm$ 50 cc/min)   | 480   | Moly Temp. (315 $\pm$ 5°C) | 315.5 | Span Gas Tank Pressure (psi)      | 1700  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | 80    | HVPS (400 - 900 V)         | 744   | Span Gas Regulator Flow (psi)     | 21    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | 0.405 | NO Slope (1 $\pm$ 0.3)     | 0.405 | Zero Air Generator Pressure (psi) | 30    |
| NO <sub>x</sub> Offset (-20 to 150) | 6.0   | NO Offset (-20 to 150)     | 0.2   | *Dilution Calibrator Flow (lpm)   | 3.980 |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

**East Plant**  
SO<sub>2</sub> Level 2 Zero and Span Precision Check  
Resolution Copper Mining



|                                |                                                                                |                                                   |
|--------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T100 SO <sub>2</sub><br>Analyzer S/N<br><i>193</i>                | Verification Start Time<br><i>11:00</i>           |
| Date:<br><i>6/19/17</i>        | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Verification Stop Time<br><i>11:55</i>            |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                         | T100 Analyzer Range<br><i>500</i>                 |
|                                |                                                                                | Shelter Temperature<br>(20- 30°C)<br><i>20.75</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.015</i>             | <i>0.040</i>       | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.540</i>            | <i>0.075</i>       | Span Drift $\leq \pm 10$ %  | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.015</i>            | <i>0.153</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.540</i>           | <i>80.736</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                             |               |                                       |              |                                   |              |
|-----------------------------|---------------|---------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) | <i>625</i>    | Sample Press. (Ambient $\pm$ 2 in-Hg) | <i>25.8</i>  | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV)    | <i>4396.0</i> | Lamp Ratio (30 - 120%)                | <i>116.0</i> | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| Slope (1 $\pm$ 0.3)         | <i>0.903</i>  | BOX Temp. (Ambient $\pm$ 5°C)         | <i>32.4</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV)           | <i>33.0</i>   | HVPS (400 - 900 V)                    | <i>587</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.975</i> |

\* Document value during span activities.

Operator Comments:

Operator Signature:



**East Plant**  
**O<sub>3</sub> Level 2 Zero and Span Precision Check**  
**Resolution Copper Mining**



|                                |                                                                  |            |                                    |              |
|--------------------------------|------------------------------------------------------------------|------------|------------------------------------|--------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N                 | <i>224</i> | Verification Start Time            | <i>2:00</i>  |
|                                | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N | <i>191</i> | Verification Stop Time             | <i>2:43</i>  |
| Date:<br><i>06/19/17</i>       |                                                                  |            | T400 Analyzer Range                | <i>500</i>   |
|                                |                                                                  |            | Shelter Temperature<br>(20 - 30°C) | <i>21.15</i> |

**Biweekly Manual Level 2 Zero and Span Precision Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria         | Adjustment Required? |
|-----------------------|----------------------------------|-------------------------|--------------------|-----------------------------|----------------------|
| Zero Air              | <i>0</i>                         | <i>0.2</i>              | <i>0.3</i>         | Zero Drift $\leq \pm 5$ ppb | <i>No</i>            |
| 80 ppb                | <i>80</i>                        | <i>80.2</i>             | <i>0.3</i>         | Span Drift $\leq \pm 7\%$   | <i>No</i>            |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.2</i>              | <i>0.39</i>           | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.2</i>             | <i>80.47</i>          | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                                   |              |                                           |               |                                 |              |
|-----------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 $\pm$ 80 cc/min) | <i>762</i>   | Sample Temp. (10 - 50°C)                  | <i>39.0</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 $\pm$ 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>28.7</i>   | *Dilution Calibrator Flow (lpm) | <i>5.891</i> |
| Slope (1 $\pm$ 0.15)              | <i>1.015</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3467.2</i> |                                 |              |
| Offset (0.0 $\pm$ 5 ppb)          | <i>3.7</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3469.4</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature:

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



Date: 06/27/17 Time: 08:27 Operator: P. Madueno

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit        |
|----------------------------|-----------------------------------|----------|--------------|
| Speed 10m (m/s)            | 5m/s                              | 4.91     | 4.31 +       |
| Direction* 10m (deg)       | S                                 | 206.860  | 203 +        |
| Ambient Temperature (°C)   | 30°                               | 29.50    | 28.1 +       |
| Relative Humidity (%)      | 5%                                | 24.92    | 24.5 +       |
| Aspirated Temperature 2m   | 30°                               | 29.16    | 28.7 +       |
| Aspirated Temperature 10m  | 29°                               | 28.14    | 27.8 +       |
| Delta Temperature (°C)     | N/A                               | -1.03    | -0.956 +     |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 631.275  | 606 +        |
| Barometric Pressure (mmHg) | N/A                               | 654.153  | 654 +        |
| Battery Voltage (V)        | N/A                               | 12.60    | 12.7 +       |
| Time (MST)                 | N/A                               | 08:33    | 08:30 - L.T. |
| Date                       | N/A                               | 06/27/17 | 06/27/17 +   |

\*Direction wind is from

*\* 0.063" of precip. invalidated @ 08:45 hrs!*

Comments/Unusual Occurrences or Weather:

*Triggered precip gauge, Filled evap pan.*

Site Operator Signature:

*[Signature]*

**East Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/29/17 Time: 08:40 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 06/22 Count failed
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences:

Replaced filter tape, Self Test  
Passed

Signature: P. Madueno



## Monthly Flow Verification PM<sub>10</sub>

East Plant

PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>10</sub>:

S/N:

Firmware:

Calibrator:

De Ha Cal

S/N: 1034

Date of Flow Audit:

06/29/17

Time of Flow Audit:

11:00

Ambient Temperature (AT) °C

Barometric Pressure (BP) mmHg

BAM STD

|      |      |
|------|------|
| 31.6 | 31.6 |
| 654  | 654  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0.0        | 14.95           | 0.3        |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0.0        | 18.37           | 0.1        |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0        | 16.65           | 0.3        |
| 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%)

(2) Leak Test 0.4 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed.

Signature:



**East Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/27/17 Time: 08:35 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 06/09 Maintenance.
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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, Replaced filter tape.

Signature: [Signature]



# Monthly Flow Verification PM<sub>2.5</sub>

East Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>2.5</sub>: S/N:  
Firmware: Delta cal S/N: 1034  
Calibrator: ✓

Date of Flow Audit: 06/29/17  
Time of Flow Audit: 10:30

|                               | BAM  | STD  |
|-------------------------------|------|------|
| Ambient Temperature (AT) °C   | 31.0 | 30.7 |
| Barometric Pressure (BP) mmHg | 654  | 654  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0.0        | 15.01           | 0.1        |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0.0        | 18.39           | 0.1        |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0        | 16.71           | 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%)

(2) Leak Test 0.6 Should be < 1.0 LPM

Comments/Abnormalities: Self Test Passed.  
66

Signature: [Signature]

**East Plant**  
**NO<sub>x</sub> Level 1 Zero and Span Check**  
**Resolution Copper Mining**



|                                |                                                                          |                                                 |
|--------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N<br><i>197</i>             | Calibration Start Time<br><i>08:45</i>          |
| Date:<br><i>06/27/17</i>       | Teledyne API T700 Primary Standard Dilution Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>11:53</i>           |
|                                | NIST-Traceable Gas Conc.<br><i>40%</i>                                   | T200 Analyzer Range<br><i>500</i>               |
|                                |                                                                          | Shelter Temperature (20 - 30°C)<br><i>21.52</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Analyzer Stability | Acceptance Criteria         | Final NO <sub>x</sub> / Zero Response |
|-----------------------|----------------------------------|-------------|--------------------------|--------------------------|--------------------|-----------------------------|---------------------------------------|
| Zero Air              | <i>0</i>                         | <i>0.4</i>  | <i>0.7</i>               | <i>1.1</i>               | <i>0.0</i>         | Zero Drift $\leq \pm 5$ ppb | <i>0.0</i>                            |
| 80 ppb                | <i>80</i>                        | <i>76.5</i> | <i>-0.2</i>              | <i>76.4</i>              | <i>0.1</i>         | Span Drift $\leq \pm 10$ %  | <i>80.9</i>                           |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) |             | Logger Response (ppb) |              | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-------------|-----------------------|--------------|---------------------|----------------------|
| Zero Air              | NO                      | <i>-0.3</i> | NO                    | <i>-0.18</i> | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.2</i>  | NO <sub>2</sub>       | <i>0.39</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>0.0</i>  | NO <sub>x</sub>       | <i>0.14</i>  |                     |                      |
| 80 ppb                | NO                      | <i>80.5</i> | NO                    | <i>80.69</i> | $\pm 2$ ppb         | <i>No</i>            |
|                       | NO <sub>2</sub>         | <i>0.9</i>  | NO <sub>2</sub>       | <i>0.94</i>  |                     |                      |
|                       | NO <sub>x</sub>         | <i>80.9</i> | NO <sub>x</sub>       | <i>81.28</i> |                     |                      |

**Analyzer Parameters**

|                                     |              |                            |              |                                   |              |
|-------------------------------------|--------------|----------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 $\pm$ 50 cc/min)   | <i>401</i>   | Moly Temp. (315 $\pm$ 5°C) | <i>315.0</i> | Span Gas Tank Pressure (psi)      | <i>1400</i>  |
| Ozone Flow (80 $\pm$ 15 cc/min)     | <i>80</i>    | HVPS (400 - 900 V)         | <i>744</i>   | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| NO <sub>x</sub> Slope (1 $\pm$ 0.3) | <i>0.405</i> | NO Slope (1 $\pm$ 0.3)     | <i>0.405</i> | Zero Air Generator Pressure (psi) | <i>30</i>    |
| NO <sub>x</sub> Offset (-20 to 150) | <i>6.0</i>   | NO Offset (-20 to 150)     | <i>0.2</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.989</i> |

\* Document actual value during span activities.

Operator Comments:

*\* NO<sub>x</sub> + NO slope - low!*

Operator Signature:



**East Plant**  
SO<sub>2</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                            |            |                                 |              |
|--------------------------------|------------------------------------------------------------|------------|---------------------------------|--------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N             | <i>193</i> | Calibration Start Time          | <i>11:55</i> |
|                                | Teledyne API T700 Primary Standard Dilution Calibrator S/N | <i>191</i> | Calibration Stop Time           | <i>11:27</i> |
| Date:<br><i>04/27/17</i>       | NIST-Traceable Gas Conc.                                   | <i>40%</i> | T100 Analyzer Range             | <i>500</i>   |
|                                |                                                            |            | Shelter Temperature (20 - 30°C) | <i>17.74</i> |

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | SO <sub>2</sub> Response | Analyzer Stability | Acceptance Criteria         | Final Response |
|-----------------------|----------------------------------|--------------------------|--------------------|-----------------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.153</i>             | <i>0.070</i>       | Zero Drift $\leq \pm 5$ ppb | <i>0.040</i>   |
| 80 ppb                | <i>80</i>                        | <i>80.851</i>            | <i>0.167</i>       | Span Drift $\leq \pm 10$ %  | <i>80.006</i>  |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.040</i>            | <i>0.131</i>          | $\pm 2$ ppb         | <i>No</i>            |
| 80 ppb                | <i>80.006</i>           | <i>80.070</i>         | $\pm 2$ ppb         | <i>No</i>            |

**Analyzer Parameters**

|                             |               |                                       |              |                                   |              |
|-----------------------------|---------------|---------------------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (550 $\pm$ 10%) | <i>629</i>    | Sample Press. (Ambient $\pm$ 2 in-Hg) | <i>25.1</i>  | Span Gas Tank Pressure (psi)      | <i>1400</i>  |
| UV Lamp (1000 - 4800 mV)    | <i>4403.9</i> | Lamp Ratio (30 - 120%)                | <i>116.4</i> | Span Gas Regulator Pressure (psi) | <i>21</i>    |
| Slope (1 $\pm$ 0.3)         | <i>0.903</i>  | BOX Temp. (Ambient $\pm$ 5°C)         | <i>30.4</i>  | Zero Air Generator Pressure (psi) | <i>30</i>    |
| Offset (< 250 mV)           | <i>33.0</i>   | HVPS (400 - 900 V)                    | <i>587</i>   | * Dilution Calibrator Flow (lpm)  | <i>3.989</i> |

\* Document value during span activities.

**Operator Comments:**

Operator Signature: *[Signature]*

*\* Shelter Temp - low!*  
*\* Sample Flow - high!*

*66*



**East Plant**  
O<sub>3</sub> Level 1 Zero and Span Check  
Resolution Copper Mining



|                                |                                                                                |                                                    |
|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br><i>P. Madueno</i> | Teledyne API T400 O <sub>3</sub><br>Analyzer S/N<br><i>224</i>                 | Calibration Start Time<br><i>11:25</i>             |
| Date:<br><i>06/27/17</i>       | Teledyne API T700<br>Primary Standard Dilution<br>Calibrator S/N<br><i>191</i> | Calibration Stop Time<br><i>12:00</i>              |
|                                |                                                                                | T400 Analyzer Range<br><i>500</i>                  |
|                                |                                                                                | Shelter Temperature<br>(20 - 30°C)<br><i>17.76</i> |

*12:25*  
*13:00*

**Biweekly Manual Level 1 Zero and Span Check**

| Target Dilution (ppb) | Actual Target Dilution Generated | O <sub>3</sub> Response | Analyzer Stability | Acceptance Criteria  | Final Response |
|-----------------------|----------------------------------|-------------------------|--------------------|----------------------|----------------|
| Zero Air              | <i>0</i>                         | <i>0.1</i>              | <i>0.4</i>         | Zero Drift ≤ ± 5 ppb | <i>0.5</i>     |
| 80 ppb                | <i>80</i>                        | <i>78.4</i>             | <i>0.5</i>         | Span Drift ≤ ± 7 %   | <i>80.3</i>    |

**Real-Time Analyzer vs. Logger Data Comparison**

| Target Dilution (ppb) | Analyzer Response (ppb) | Logger Response (ppb) | Acceptance Criteria | Adjustment Required? |
|-----------------------|-------------------------|-----------------------|---------------------|----------------------|
| Zero Air              | <i>0.5</i>              | <i>0.432</i>          | ± 2 ppb             | <i>No</i>            |
| 80 ppb                | <i>80.3</i>             | <i>80.021</i>         | ± 2 ppb             | <i>No</i>            |

**Analyzer Parameters**

|                               |              |                                           |               |                                 |              |
|-------------------------------|--------------|-------------------------------------------|---------------|---------------------------------|--------------|
| Sample Flow (800 ± 80 cc/min) | <i>773</i>   | Sample Temp. (10 - 50°C)                  | <i>37.0</i>   | Zero Air Generator (psi)        | <i>30</i>    |
| Photo Lamp (58 ± 1°C)         | <i>58.0</i>  | BOX Temp. (10 to 50°C)                    | <i>26.1</i>   | *Dilution Calibrator Flow (lpm) | <i>3.987</i> |
| Slope (1 ± 0.15)              | <i>1.015</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3463.2</i> |                                 |              |
| Offset (0.0 ± 5 ppb)          | <i>3.7</i>   | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3465.4</i> |                                 |              |

\* Document actual value during span activities.

Operator Comments:

Operator Signature: *[Signature]*

*\* Shelter Temp. - Low!*

## **Appendix E – West Plant Site Check Forms**

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**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**

Date: 4/5/17 Time: 0956 Operator: R. Arreola

YES NO

- | 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)            | 10                                | 8.5        | 10.8 +        |
| Direction* 10m (deg)       | EAST                              | 71.2       | 67.1 +        |
| Ambient Temperature (°C)   | 20                                | 19.1       | 18.7 +        |
| Relative Humidity (%)      | 12                                | 11.3       | 11.5 +        |
| Aspirated Temperature 2m   | 20                                | 18.8       | 18.3 +        |
| Aspirated Temperature 10m  | 20                                | 17.6       | 17.1 +        |
| Delta Temperature (°C)     | N/A                               | -1.3       | -1.19 +       |
| Solar Radiation (w/m²)     | Sunny <u>Partly cloudy</u> Cloudy | 646.7      | 593 +         |
| Barometric Pressure (mmHg) | N/A                               | 687.7      | 688 +         |
| Battery Voltage (V)        | N/A                               | 12.9       | 12.9 +        |
| Time (MST)                 | N/A                               | 0901       | 09:00 - L.T.H |
| Date                       | N/A                               | 2017-04-05 | 04/05/17 +    |

\* 0.028" of precip invalidated for 09:00 hrs!

\*Direction wind is from

Comments/Unusual Occurrences or Weather: TRIGGERED RAIN GAGE @ 8:58\* (INSTALLED) USB → SERIAL to  
Reagan Connectivity between logger and PC — RPA ✓

Site Operator Signature: 

# West Plant

## BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM

### Resolution Copper Mining

Date: 4-5-17 Time: 0916 Operator: ATTN: JG

#### I. BAM SAMPLER - Weekly Checks.

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|   |   |
|---|---|
|   | X |
| X |   |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences).
2. Complete calibration of flow system (\*Work performed by Air Sciences).

#### IV. BAM SAMPLER - Routine Maintenance (annual). Check YES if maintenance was performed during this visit. See BAM manual.

YES NO

|   |   |
|---|---|
|   | X |
| X |   |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences).
2. Inlet system cleaned (\*Work performed by Air Sciences).

Comments/Unusual Occurrences: PM 2.5 conc. + flow invalidated for 10:00  
through 12:00 hrs. ASI on site for quarterly flow  
and #1 calibration!

Signature: 



# West Plant

## BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM

### Resolution Copper Mining

Date: 4-5-17 Time: 0915 Operator: ATTN: JGE

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|   |  |
|---|--|
| X |  |
| X |  |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences).
2. Complete calibration of flow system (\*Work performed by Air Sciences).

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

YES NO

|   |   |
|---|---|
|   | X |
| X |   |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences).
2. Inlet system cleaned (\*Work performed by Air Sciences).

Comments/Unusual Occurrences:

PM10 conc. + flow invalidated for 10:00  
through 12:00 hrs ASI on site for quarterly flow  
audit/calibration

Signature: 

**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/11/17

Time: 1:15

Operator: P. Maducos

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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     | 2.58 +       |
| Direction* 10m (deg)       | E                          | 232.146  | 216 +        |
| Ambient Temperature (°C)   | 29°                        | 29.82    | 29.2 +       |
| Relative Humidity (%)      | 4%                         | 4.19     | 4.17 +       |
| Aspirated Temperature 2m   | 29°                        | 29.06    | 28 +         |
| Aspirated Temperature 10m  | 28°                        | 26.71    | 26.3 +       |
| Delta Temperature (°C)     | N/A                        | -2.37    | -1.34 +      |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 730.469  | 748 +        |
| Barometric Pressure (mmHg) | N/A                        | 684.066  | 684 +        |
| Battery Voltage (V)        | N/A                        | 12.66    | 12.8 +       |
| Time (MST)                 | N/A                        | 1:20     | 13:15-1.7. + |
| Date                       | N/A                        | 04/11/17 | 04/11/17 +   |

\*Direction wind is from

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

*66*

Comments/Unusual Occurrences or Weather: \_\_\_\_\_

Site Operator Signature: \_\_\_\_\_

*Paul Maducos*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/11/17 Time: 1:27 Operator: P. MADWELL

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

1. The sampler is intact and the inlet head is unobstructed.
2. The vacuum pump is running and sounds normal.
3. The temperature shield is intact, and the sensor is inside of it.
4. The BAM is reading the correct time and day.
5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
6. Error log was checked (F3), and errors followed up on (see manual). BAM CAL MEMBRANE 5%
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Madwell



**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/11/17 Time: 1:22 Operator: P. Maduano

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/11 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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**



Date: 04/18/17

Time: 08:24

Operator: P. Maducano

YES NO

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

| Parameter                  | Estimated                         | Logger   | Audit      |
|----------------------------|-----------------------------------|----------|------------|
| Speed 10m (m/s)            | 1 m/s                             | 0.30     | 0.69 +     |
| Direction* 10m (deg)       | E                                 | 78.82    | 132 +      |
| Ambient Temperature (°C)   | 26°                               | 25.35    | 24.5 +     |
| Relative Humidity (%)      | 15%                               | 15.56    | 17 +       |
| Aspirated Temperature 2m   | 26°                               | 23.31    | 23 +       |
| Aspirated Temperature 10m  | 25°                               | 21.73    | 21.8 +     |
| Delta Temperature (°C)     | N/A                               | -1.42    | -1.12 +    |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 553.013  | 526 +      |
| Barometric Pressure (mmHg) | N/A                               | 686.269  | 686 +      |
| Battery Voltage (V)        | N/A                               | 12.79    | 12.8 +     |
| Time (MST)                 | N/A                               | 08:30    | 08:30 LIT  |
| Date                       | N/A                               | 04/18/17 | 04/18/17 + |

158 - 8:00  
155 - 8:15  
216 - 8:45  
150 - 9:00

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Recycled router, Triggered precip gauge, Filled evap pan.

0.028" of precip. recorded @ 08:45 hrs!  
\* no indication of evap. being filled!?

Site Operator Signature:

*[Signature]*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/18/17 Time: 08:37 Operator: P. Maduero

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. The sampler is intact and the inlet head is unobstructed.
2. The vacuum pump is running and sounds normal.
3. The temperature shield is intact, and the sensor is inside of it.
4. The BAM is reading the correct time and day.
5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
6. Error log was checked (F3), and errors followed up on (see manual). BAM CAL MEMBRANE 5%
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced.
2. Ran the Self-Test function.

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Maduero

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/18/17 Time: 08:33 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. The sampler is intact and the inlet head is unobstructed.
2. The vacuum pump is running and sounds normal.
3. The temperature shield is intact, and the sensor is inside of it.
4. The BAM is reading the correct time and day.
5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
6. Error log was checked (F3), and errors followed up on (see manual). BAM CAL Membrane 5%
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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**



Date: 04/24/2017 Time: 08:04 Operator: P. Maduna

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit         |
|----------------------------|----------------------------|----------|---------------|
| Speed 10m (m/s)            | 2m/s                       | 1.94     | 3.7 +         |
| Direction* 10m (deg)       | W                          | 184.706  | 177 +         |
| Ambient Temperature (°C)   | 26°                        | 25.69    | 25.5 +        |
| Relative Humidity (%)      | 12%                        | 12.15    | 11.8 +        |
| Aspirated Temperature 2m   | 26°                        | 24.87    | 24.7 +        |
| Aspirated Temperature 10m  | 25°                        | 23.51    | 23.4 +        |
| Delta Temperature (°C)     | N/A                        | -0.35    | -1.34 +       |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 494.010  | 502 +         |
| Barometric Pressure (mmHg) | N/A                        | 681.310  | 681 +         |
| Battery Voltage (V)        | N/A                        | 12.82    | 12.8 +        |
| Time (MST)                 | N/A                        | 08:12    | 08:15 - L.T.T |
| Date                       | N/A                        | 04/24/17 | 04/24/17 +    |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

*\* 0.063" of precip. invalidated @ 10:30 hrs!  
 \* 1/5 indication of evap pan being filled? 0.6  
 Triggered precip gauge, filled evap pan.*

Site Operator Signature:

*[Signature]*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/24/17 Time: 08:21 Operator: P. Maduano

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/24 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences).
2. Inlet system cleaned (\*Work performed by Air Sciences).

Comments/Unusual Occurrences: Cleaned Inside BAM,  
Monthly Flow 04/27/17

Signature: Phil West



## Monthly Flow Verification PM<sub>2.5</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>2.5</sub>: S/N: M0192  
Firmware: Delta Cal S/N: 1034  
Calibrator:

Date of Flow Audit: 04/27/17  
Time of Flow Audit: 12:15

Ambient Temperature (AT) °C  
Barometric Pressure (BP) mmHg

| BAM  | STD  |
|------|------|
| 27.1 | 27.5 |
| 677  | 677  |

|                                            | Set Point (lpm) | BAM                     | % Diff (1)   | STD Flow Meter           | % Diff (2)    |
|--------------------------------------------|-----------------|-------------------------|--------------|--------------------------|---------------|
| (1) Actual Flow<br>Acceptable Differential | 15              | 15.0<br>14.700 - 15.300 | OK<br>+/- 2% | 15.03<br>14.250 - 15.750 | 0.2<br>+/- 5% |
| (2) Actual Flow<br>Acceptable Differential | 18.4            | 18.4<br>18.032 - 18.768 | OK<br>+/- 2% | 18.62<br>17.480 - 19.320 | 1.2<br>+/- 5% |
| (3) Actual Flow<br>Acceptable Differential | 16.7            | 16.7<br>16.336 - 17.034 | OK<br>+/- 2% | 16.77<br>15.865 - 17.535 | 0.4<br>+/- 5% |

### Calculations:

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

(2) Leak Test BAM 0.4. Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed.

PM<sub>2.5</sub> cal + flow invalidated for 09:00 through 11:00 hrs!

Signature:



**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/24/17 Time: 08:15 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/24 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences).
2. Inlet system cleaned (\*Work performed by Air Sciences).

Comments/Unusual Occurrences: Cleaned inside of BAM,  
Monthly Flow 04/27/17

Signature: P. Madueno



## Monthly Flow Verification PM<sub>10</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>10</sub>:

S/N: M8712

Firmware:

Calibrator:

Delta Cal

S/N: L034

Date of Flow Audit:

04/27/17

Time of Flow Audit:

12:04

Ambient Temperature (AT) °C

BAM STD

27.2 28.2

Barometric Pressure (BP) mmHg

677 677

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | OV         | 15.13           | 0.9        |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | OV         | 18.56           | 0.9        |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | OV         | 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%)

(2) Leak Test ☒ 0.3 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed

\* PM10 conc. + flow included for 09:00 through 11:00 hrs!

Signature:

*Paul M...*

66



**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/02/17 Time: 11:50 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)            | 1m/s                       | 0.51     | 2.34 +      |
| Direction* 10m (deg)       | S                          | 145.682  | 277 *       |
| Ambient Temperature (°C)   | 27°                        | 27.53    | 27.1 +      |
| Relative Humidity (%)      | 7%                         | 7.31     | 7.58 +      |
| Aspirated Temperature 2m   | 27°                        | 26.44    | 26.2 +      |
| Aspirated Temperature 10m  | 26°                        | 25.03    | 25 +        |
| Delta Temperature (°C)     | N/A                        | -1.37    | -1.18 +     |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 485.101  | 1035 *      |
| Barometric Pressure (mmHg) | N/A                        | 692.423  | 685 +       |
| Battery Voltage (V)        | N/A                        | 12.79    | 12.8 +      |
| Time (MST)                 | N/A                        | 11:56    | 12:00 - 6.7 |
| Date                       | N/A                        | 05/02/17 | 05/01/17 +  |

229 - 11:30  
279 - 11:45  
257 - 12:15  
263 - 12:30

1009 - 11:30  
1035 - 11:45  
1040 - 12:15  
1042 - 12:30

\*Direction wind is from

0.024" of precip. included @ 12:00 hrs!

Comments/Unusual Occurrences or Weather:

Recycled modem, Triggered precip gauge.

Site Operator Signature:

Paul Madueno

## West Plant

### BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM

#### Resolution Copper Mining

Date: 05/02/17 Time: 12:03 Operator: P. Madhuni

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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). 04/27 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced.
2. Ran the Self-Test function.

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Madhuni

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/02/17 Time: 11:58 Operator: P. Machado

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/01 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Mach



**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/11/17

Time: 12:40

Operator: P. Maduena

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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                       | 2.56     | 5.13 +       |
| Direction* 10m (deg)       | W                          | 278.053  | 276 +        |
| Ambient Temperature (°C)   | 26°                        | 26.43    | 26.6 +       |
| Relative Humidity (%)      | 28%                        | 28.61    | 28.2 +       |
| Aspirated Temperature 2m   | 26°                        | 25.50    | 25.9 +       |
| Aspirated Temperature 10m  | 25°                        | 24.45    | 24.6 +       |
| Delta Temperature (°C)     | N/A                        | -1.00    | -1.23 +      |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 1027.35  | 1032 +       |
| Barometric Pressure (mmHg) | N/A                        | 686.469  | 687 +        |
| Battery Voltage (V)        | N/A                        | 12.80    | 12.8 +       |
| Time (MST)                 | N/A                        | 12:46    | 12:45 L.T. + |
| Date                       | N/A                        | 05/11/17 | 05/11/17 +   |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Triggered precip gauge.

Site Operator Signature:

P. Maduena

*\* 0.047" of precip. invalidated @ 13:00hrs! 66.*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/11/17 Time: 12:57 Operator: F. Maduano

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/27 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: *F. Maduano*

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 03/11/17 Time: 12:53 Operator: P. Madano

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/11 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Madano



**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/16/17

Time: 12:00

Operator: P. MADUENO

YES NO

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

| Parameter                  | Estimated                         | Logger   | Audit         |
|----------------------------|-----------------------------------|----------|---------------|
| Speed 10m (m/s)            | 3m/s                              | 2.46     | 4.45 +        |
| Direction* 10m (deg)       | SW                                | 268.833  | 251 +         |
| Ambient Temperature (°C)   | 19°                               | 18.55    | 18 +          |
| Relative Humidity (%)      | 31%                               | 31.70    | 31.4 +        |
| Aspirated Temperature 2m   | 19°                               | 17.51    | 18.3 +        |
| Aspirated Temperature 10m  | 18°                               | 16.45    | 16.5 +        |
| Delta Temperature (°C)     | N/A                               | -0.99    | -1.72 +       |
| Solar Radiation (w/m²)     | Sunny <u>Partly cloudy</u> Cloudy | 1259.46  | 1163 +        |
| Barometric Pressure (mmHg) | N/A                               | 1283.982 | 683 +         |
| Battery Voltage (V)        | N/A                               | 12.93    | 12.9 +        |
| Time (MST)                 | N/A                               | 12:05    | 12:00 - LT. + |
| Date                       | N/A                               | 05/16/17 | 05/16/17 +    |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Recycled motor

Triggered precip gauge, Filled evap pan

Site Operator Signature:

[Signature]

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/16/17 Time: 12:15 Operator: P. MADUENIG

**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). 04/27 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<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. 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: \_\_\_\_\_

*[Handwritten Signature]*



**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/16/17 Time: 12:08 Operator: P. MADUENO

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/16 BAM CAL Membrane 50%
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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced.
2. Ran the Self-Test function.

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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**



Date: 05/23/17 Time: 09:35 Operator: P. Madueno

YES NO

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input type="checkbox"/>            | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit          |
|----------------------------|-----------------------------------|----------|----------------|
| Speed 10m (m/s)            | 2m/s                              | 1.84     | 2.7 +          |
| Direction* 10m (deg)       | N                                 | 337.639  | 343 +          |
| Ambient Temperature (°C)   | 32°                               | 32.81    | 32.9 +         |
| Relative Humidity (%)      | 10%                               | 9.83     | 7.91 +         |
| Aspirated Temperature 2m   | 32°                               | 31.11    | 31.5 +         |
| Aspirated Temperature 10m  | 31°                               | 30.43    | 30.5 +         |
| Delta Temperature (°C)     | N/A                               | -0.78    | -0.933 +       |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 856.710  | 852 +          |
| Barometric Pressure (mmHg) | N/A                               | 684.826  | 685 +          |
| Battery Voltage (V)        | N/A                               | 12.70    | 12.7 +         |
| Time (MST)                 | N/A                               | 09:42    | 09:45 - L.T. + |
| Date                       | N/A                               | 05/23/17 | 05/25/17 +     |

\*Direction wind is from

*\* No indication of precip. gauge being tipped!?*

Comments/Unusual Occurrences or Weather:

Triggered precip gauge, filled w/pan. Recycled material. *66*

Site Operator Signature:

*[Signature]*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/23/17 Time: 09:51 Operator: P. Maduene

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/25 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced.
2. Ran the Self-Test function.

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

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Maduene*



**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/23/17 Time: 09:45 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/23
6. Error log was checked (F3), and errors followed up on (see manual). BAM CAL Membrane 50%
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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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**



Date: 05/31/17

Time: 10:30

Operator: P. Madueno

YES NO

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

| Parameter                  | Estimated                  | Logger   | Audit      |
|----------------------------|----------------------------|----------|------------|
| Speed 10m (m/s)            | 2m/s                       | 2.04     | 4.94 +     |
| Direction* 10m (deg)       | W                          | 81.25    | 146 *      |
| Ambient Temperature (°C)   | 31°                        | 31.17    | 31.6 +     |
| Relative Humidity (%)      | 19%                        | 19.11    | 18.9 +     |
| Aspirated Temperature 2m   | 31°                        | 30.02    | 31 +       |
| Aspirated Temperature 10m  | 30°                        | 28.62    | 28 +       |
| Delta Temperature (°C)     | N/A                        | -1.63    | -2.07 +    |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 949.424  | 920 +      |
| Barometric Pressure (mmHg) | N/A                        | 682.780  | 683 +      |
| Battery Voltage (V)        | N/A                        | 12.63    | 12.7 +     |
| Time (MST)                 | N/A                        | 10:36    | 10:30 LT + |
| Date                       | N/A                        | 05/31/17 | 05/31/17 + |

78.9 - p:00  
 80.1 - 10:15  
 132. - 10:45  
 170 - 11:00

\*Direction wind is from

*\*0.024" of precip. indicated @ 11:15 hrs!*

Comments/Unusual Occurrences or Weather:

*Triggered precip gauge, Filled evap pan, Recycled modem.*

Site Operator Signature:

*[Signature]*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/31/17 Time: 10:46 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/27 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                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                                 | NO                                  |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: [Signature]



# Monthly Flow Verification PM<sub>2.5</sub>

West Plant  
PARTICULATE MONITORING PROJECT



Met One BAM 1020 PM<sub>2.5</sub>: S/N: M8192  
Firmware: Delta Cal S/N: 1034  
Calibrator: Delta Cal

Date of Flow Audit: 05/31/17  
Time of Flow Audit: 11:20

|                               | BAM  | STD   |
|-------------------------------|------|-------|
| Ambient Temperature (AT) °C   | 32.9 | 33.0  |
| Barometric Pressure (BP) mmHg | 681  | 681.5 |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0.0 ✓      | 14.95           | 0.3 ✓      |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.45           | 0.3 ✓      | 18.45           | 0.0 ✓      |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0 ✓      | 16.72           | 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%)

(2) Leak Test 0.5 Should be < 1.0 LPM

## Comments/Abnormalities:

Self Test Passed ✓  
\* PM 2.5 conc. + flow invalidated for 11:00 through 13:00 hrs!  
EE

Signature: Paul Mel



**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/31/17 Time: 10:40 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/31 BAM CAL Membrane 5%
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: [Signature]



## Monthly Flow Verification PM<sub>10</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>10</sub>:

S/N: M8712 ✓

Firmware:

Calibrator:

Delta Cal

S/N: 1034 ✓

Date of Flow Audit:

05/31/17 ✓

Time of Flow Audit:

10:53 ✓

Ambient Temperature (AT) °C

BAM

STD

32.0

32.5 ✓

Barometric Pressure (BP) mmHg

681

681 ✓

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0 ✓        | 15.12           | 0.8 ✓      |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0 ✓        | 18.49           | 0.5 ✓      |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0 ✓        | 16.73           | 0.2 ✓      |
| 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%)

(2) Leak Test ✓ 0.4 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed ✓

PM10 cone + flow multiplier for 11:00 hrs! ✓

Signature:

*Paul M...*

**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/08/17 Time: 08:26 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                      | 1.22     | 1.72 +     |
| Direction* 10m (deg)       | S                          | 202.152  | 173 +      |
| Ambient Temperature (°C)   | 33°                        | 33.73    | 33.5 +     |
| Relative Humidity (%)      | 18%                        | 18.23    | 17.9 +     |
| Aspirated Temperature 2m   | 33°                        | 32.72    | 31.9 +     |
| Aspirated Temperature 10m  | 32°                        | 30.76    | 30.6 +     |
| Delta Temperature (°C)     | N/A                        | -2.13    | -1.36 +    |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 677.490  | 642 +      |
| Barometric Pressure (mmHg) | N/A                        | 681.441  | 685 +      |
| Battery Voltage (V)        | N/A                        | 12.71    | 12.7 +     |
| Time (MST)                 | N/A                        | 08:32    | 08:30 L.T. |
| Date                       | N/A                        | 06/08/17 | 06/08/17 + |

108 - 8:00  
 180 - 8:15  
 166 - 8:45  
 173 - 9:00

\*Direction wind is from

8000' of precip initiated @ 11:45 hrs! 66.

Comments/Unusual Occurrences or Weather: Filled evap pan, Triggered precip gauge,  
Recycled medium.

Site Operator Signature:



**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/08/17 Time: 08:40 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/31 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences).
2. Inlet system cleaned (\*Work performed by Air Sciences).

Comments/Unusual Occurrences:

Replaced guide block assembly,  
Flow Verification, Self Test Passed, replaced filter  
tape.

Signature: [Signature]



## Monthly Flow Verification PM<sub>2.5</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>2.5</sub>: S/N: M0192  
Firmware: Delta Cal S/N: 1034  
Calibrator:

Date of Flow Audit: 06/08/17  
Time of Flow Audit: 11:20

BAM STD  
Ambient Temperature (AT) °C 35.0 35.5  
Barometric Pressure (BP) mmHg 683 683.5

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0%         | 15.06           | 0.4%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0%         | 18.57           | 0.8%       |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0%         | 16.79           | 0.5%       |
| 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%)

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

Comments/Abnormalities: Self Test Passed.

\* PM<sub>2.5</sub> and flow indicated for 10:00 through 13:00 hrs!

Signature: [Signature]

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/08/17 Time: 08:35 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). 06/08 Reference Withdraw
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<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. 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.

**IV. 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: Replaced guide block assembly,  
Flow Verification, Self Test Passed. Replaced Filter  
Tape.

Signature: [Signature]



## Monthly Flow Verification PM<sub>10</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>10</sub>:

S/N: M8712

Firmware:

Calibrator:

Delta T

S/N: 1034

Date of Flow Audit:

06/08/17

Time of Flow Audit:

10:15

Ambient Temperature (AT) °C

BAM

STD

35.0

35.5

Barometric Pressure (BP) mmHg

683

683.5

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | OK         | 15.06           | 0.4        |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | OK         | 18.55           | 0.8        |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | OK         | 16.88           | 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%)

(2) Leak Test 0.3 Should be < 1.0 LPM

Comments/Abnormalities: Self test Passed.

\* PM10 conc + flow invalidated for 08:00 through 13:00 hrs!

Signature: Paul M.



**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/13/17 Time: 12:40 Operator: P. Madueno

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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)            | 5 m/s                             | 5.22     | 4.33    |
| Direction* 10m (deg)       | W                                 | 241.672  | 259     |
| Ambient Temperature (°C)   | 32°                               | 32.35    | 35.6    |
| Relative Humidity (%)      | 3%                                | 3.74     | 5.82    |
| Aspirated Temperature 2m   | 32°                               | 31.11    | 34.9    |
| Aspirated Temperature 10m  | 31°                               | 28.98    | 33.4    |
| Delta Temperature (°C)     | N/A                               | -1.82    | -1.49   |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 1091.42  | 1017    |
| Barometric Pressure (mmHg) | N/A                               | 683.251  | 685     |
| Battery Voltage (V)        | N/A                               | 12.74    | 12.7    |
| Time (MST)                 | N/A                               | 12.47    | 1245    |
| Date                       | N/A                               | 06/13/17 | 6-13-17 |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Recycled medium, Triggered precip gauge, Filled evap pan. EVAPORATED 0.048" precip. ~~had~~

Site Operator Signature: [Signature]

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/13/17 Time: 12:53 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). 06/08 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<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. 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**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/13/17 Time: 12:48 Operator: P. Madueño

**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). 06/08 Reference Withdraw
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<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. 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**



Date: 06/29/17

Time: ~ 12:15

Operator: P. Madrone

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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)            | 6 m/s                                 | 5.63     |       |
| Direction* 10m (deg)       | W                                     | 223.149  |       |
| Ambient Temperature (°C)   | 36°                                   | 36.12    |       |
| Relative Humidity (%)      | 70%                                   | 8.53     |       |
| Aspirated Temperature 2m   | 36°                                   | 35.74    |       |
| Aspirated Temperature 10m  | 35°                                   | 33.38    |       |
| Delta Temperature (°C)     | N/A                                   | -2.44    |       |
| Solar Radiation (w/m²)     | <del>Sunny</del> Partly cloudy Cloudy | 1036.43  |       |
| Barometric Pressure (mmHg) | N/A                                   | 683.857  |       |
| Battery Voltage (V)        | N/A                                   | 12.69    |       |
| Time (MST)                 | N/A                                   | 12:22    |       |
| Date                       | N/A                                   | 06/29/17 |       |

\*Direction wind is from

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

Site Operator Signature: \_\_\_\_\_

*[Handwritten Signature]*

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/29/17 Time: 12:30 Operator: P. Maduene

**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). 06/08 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<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. 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 ✓  
66

Signature: [Signature]



## Monthly Flow Verification PM<sub>2.5</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>2.5</sub>: S/N:  
Firmware: Delta Cal S/N: 1034  
Calibrator: Delta Cal

Date of Flow Audit: 06/29/17  
Time of Flow Audit: 1:30

|                               | BAM  | STD  |
|-------------------------------|------|------|
| Ambient Temperature (AT) °C   | 36.1 | 36.2 |
| Barometric Pressure (BP) mmHg | 682  | 682  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0%         | 15.06           | 0.4%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0%         | 18.54           | 0.8%       |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0%         | 16.71           | 0.3%       |
| 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%)

(2) Leak Test 0.3 Should be < 1.0 LPM

### Comments/Abnormalities:

\* PM<sub>2.5</sub> conc. & flow interrupted @ 13:00 and 14:00 hrs!

Signature: [Signature]



**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/29/17 Time: 02:26 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 06/15 Tape Tension
7. Climate control appears operational. (If it's cold out, the shelter should feel warm; if it's hot out, the shelter should feel cool.)

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

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                                 | NO                                  |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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]





## Monthly Flow Verification PM<sub>10</sub>

West Plant  
PARTICULATE MONITORING PROJECT

Met One BAM 1020  
Firmware:  
Calibrator:

PM<sub>10</sub>:

S/N:

Delta Cal S/N: 1034

Date of Flow Audit:  
Time of Flow Audit:

06/29/17

1:15

Ambient Temperature (AT) °C  
Barometric Pressure (BP) mmHg

| BAM  | STD  |
|------|------|
| 35.7 | 36.9 |
| 483  | 683  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0%         | 15.14           | 0.9%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0%         | 18.59           | 0.8%       |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0%         | 16.83           | 0.8%       |
| 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%)

(2) Leak Test 0.3 Should be < 1.0 LPM

Comments/Abnormalities:

Self test Passed

\* PM10 conc + flow invalidated for 13:00 and 14:00 hrs!

Signature:

**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 07/07/17

Time: 10:45

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)                     | 4m/s                              | 4.72     |       |
| Direction* 10m (deg)                | W                                 | 192.640  |       |
| Ambient Temperature (°C)            | 38°                               | 38.867   |       |
| Relative Humidity (%)               | 12%                               | 12.643   |       |
| Aspirated Temperature 2m            | 38°                               | 37.652   |       |
| Aspirated Temperature 10m           | 37°                               | 36.892   |       |
| Delta Temperature (°C)              | N/A                               | -2.62    |       |
| Solar Radiation (w/m <sup>2</sup> ) | <u>Sunny</u> Partly cloudy Cloudy | 1043.62  |       |
| Barometric Pressure (mmHg)          | N/A                               | 693.649  |       |
| Battery Voltage (V)                 | N/A                               | 12.56    |       |
| Time (MST)                          | N/A                               | 10:50    |       |
| Date                                | N/A                               | 07/07/17 |       |

\*Direction wind is from

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

Site Operator Signature: P. Madueno

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



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

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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 (E3), 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Maducio

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 07/07/17

Time: 11:20

Operator: F. Madueño

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_

*[Handwritten Signature]*



**West Plant**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 7-10-17

Time: 0744

Operator: ATTREDOE

YES NO

|                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger     | Audit         |
|----------------------------|-----------------------------------|------------|---------------|
| Speed 10m (m/s)            | 0.5                               | 44 0.7     | 0.437 +       |
| Direction* 10m (deg)       | SE                                | 144.7      | 145 +         |
| Ambient Temperature (°C)   | 30                                | 30.5       | 30.3 +        |
| Relative Humidity (%)      | 30                                | 36.4       | 37.1 +        |
| Aspirated Temperature 2m   | 30                                | 29.5       | 29.2 +        |
| Aspirated Temperature 10m  | 30                                | 28.6       | 28.4 +        |
| Delta Temperature (°C)     | N/A                               | -0.8       | -0.826 +      |
| Solar Radiation (w/m²)     | Sunny <u>Partly cloudy</u> Cloudy | 425.7      | 300 +         |
| Barometric Pressure (mmHg) | N/A                               | 685.6      | 686 +         |
| Battery Voltage (V)        | N/A                               | 12.5       | 12.5 +        |
| Time (MST)                 | N/A                               | 0748       | 07:45 - 6.7 + |
| Date                       | N/A                               | 2017-07-10 | 07/10/17P     |

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

\*Direction wind is from

Comments/Unusual Occurrences or Weather: \_\_\_\_\_

Site Operator Signature: \_\_\_\_\_

## West Plant

### BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM

#### Resolution Copper Mining

Date: 7-10-17 Time: 0920 Operator: ATTRIDGE

#### I. BAM SAMPLER - Weekly Checks.

YES NO

|   |  |
|---|--|
| ✓ |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|   |  |
|---|--|
| X |  |
| X |  |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences).
2. Complete calibration of flow system (\*Work performed by Air Sciences).

#### IV. BAM SAMPLER - Routine Maintenance (annual). Check YES if maintenance was performed during this visit. See BAM manual.

YES NO

|   |  |
|---|--|
| X |  |
| X |  |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences).
2. Inlet system cleaned (\*Work performed by Air Sciences).

Comments/Unusual Occurrences: 07-07-17 11:09 Cant fill

Signature: 

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**

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

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> 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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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.**

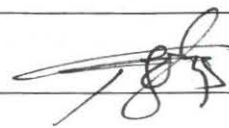
YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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**



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

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  | 774 +       |
| 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  
847 - 13:30  
\* milibar

\*Direction wind is from

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

Site Operator Signature: [Signature]

**West Plant**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 07/19/2017

Time: 1:21

Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_

P. Madueno

**West Plant**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 07/19/2017 Time: 1:17 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet flow check performed.
2. Visual inspection and dust removal.
3. Leak check performed.
4. PM<sub>10</sub> particle trap cleaned.
5. Inlet nozzle and nozzle are cleaned.

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: P. Madueno

## **Appendix F - Hewitt Station Site Check Forms**

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# Hewitt Station

## MET SITE CHECK FORM

### Resolution Copper Company



Date: 4-5-17 Time: 1540 Operator: Ammae

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

- The tower is intact and upright.
- The anemometer propellers and the wind direction vanes are turning freely.
- All temperature shields are intact, and the probes are inside their shields.
- The aspirator fans are operating.
- The solar radiation sensor is level and has been cleaned.
- The solar panel is facing south and is clean.
- The datalogger is reading the correct time and day.
- The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
- Estimate and document the parameters below.

| Parameter                  | Estimated                         | Logger     | Audit         |
|----------------------------|-----------------------------------|------------|---------------|
| Speed 10m (m/s)            | 2                                 | 1.5        | 1.11 +        |
| Direction* 10m (deg)       | SE                                | 123.2      | 115 +         |
| Speed 20m (m/s)            | 2                                 | 1.7        | 1.4 +         |
| Direction* 20m (deg)       | SE                                | 129.3      | 91.5 +        |
| Ambient Temperature (°C)   | 25                                | 27.8       | 28 +          |
| Relative Humidity (%)      | 10                                | 11.2       | 9.78 +        |
| Aspirated Temperature 2m   | 25                                | 27.3       | 27 +          |
| Aspirated Temperature 10m  | 25                                | 26.4       | 26.2 +        |
| Delta Temperature (°C)     | N/A                               | -0.8       | -0.768 +      |
| Solar Radiation (w/m²)     | Sunny <u>Partly cloudy</u> Cloudy | 609.3      | 638 +         |
| Barometric Pressure (mmHg) | N/A                               | 202.8      | 703 +         |
| Battery Voltage (V)        | N/A                               | 12.8       | 12.8 +        |
| Time <del>(MST)</del>      | N/A                               | 1543       | 15:45 - LT. + |
| Date                       | N/A                               | 2017-04-05 | 04/05/17 +    |

64.8 - 15:15  
138 - 15:30  
- 16:00  
- 16:15

\*Direction wind is from

Comments/Unusual Occurrences or Weather: \* 0.04" of precip. invalidated @ 15:45 hrs! 66.  
TIPPER RAIN GAUGE \* Downloaded data ✓

Site Operator Signature: [Signature]

# Hewitt Station

## SoDAR SITE CHECK FORM

### Resolution Copper Company

Date: 7-5-17 Time: 1540 Operator: R. ATTRIDGE

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

| SoDAR System Status          | 4000WE                 |
|------------------------------|------------------------|
| Battery Voltage (V)          | 13.15                  |
| Ambient Temp °C              | 30.0                   |
| 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 1/4 1/2 3/4 Full |
| Date                         | 4-5-17                 |
| Time                         | 1553                   |

Comments/Unusual Occurrences:

\* GENERATOR WILL NOT START - SEE CUS AWIT  
CORRECTED TIME SCRIPT  
Downloaded data

Operator Signature: \_\_\_\_\_



**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/12/17

Time: 10:37

Operator: P. Madueno

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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)            | 2m/s                              | 2.25     | 1.32 +        |
| Direction* 10m (deg)       | W                                 | 289.975  | 314 +         |
| Speed 20m (m/s)            | 2m/s                              | 1.63     | 1.44 +        |
| Direction* 20m (deg)       | W                                 | 277.013  | 310 +         |
| Ambient Temperature (°C)   | 28°                               | 28.11    | 27.9 +        |
| Relative Humidity (%)      | 10%                               | 10.42    | 10.7 +        |
| Aspirated Temperature 2m   | 28°                               | 27.00    | 26.9 +        |
| Aspirated Temperature 10m  | 27°                               | 26.07    | 26.1 +        |
| Delta Temperature (°C)     | N/A                               | -0.92    | -0.777 +      |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 860.450  | 847 +         |
| Barometric Pressure (mmHg) | N/A                               | 702.925  | 703 +         |
| Battery Voltage (V)        | N/A                               | 12.83    | 12.8 +        |
| Time (MSI)                 | N/A                               | 10:42    | 10:45 - LT. + |
| Date                       | N/A                               | 04/11/17 | 04/11/17 +    |

68.8 - 10:15  
 177 - 10:50  
 339 - 11:00  
 239 - 11:15  
 62.3 - 10:15  
 166 - 10:30  
 326 - 11:00  
 230 - 11:15

\*Direction wind is from

\* 0.05" of precip indicated @ 11:15 hrs!

Comments/Unusual Occurrences or Weather:

Data Download 04/05 - 04/12  
Triggered precip gauge

Site Operator Signature:

Paul Madueno



**Hewitt Station**  
SoDAR SITE CHECK FORM  
Resolution Copper Company



Date: 04/12/17

Time: 10:45

Operator: P. Maduino

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| SoDAR System Status          | 4000WE                                                                                              |
| Battery Voltage (V)          | 13.20                                                                                               |
| Ambient Temp °C              | 28.20                                                                                               |
| 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 <input checked="" type="radio"/> 1/4 <input type="radio"/> 1/2 <input type="radio"/> 3/4 Full |
| Date                         | 04/11/17                                                                                            |
| Time                         | 10:52                                                                                               |

Comments/Unusual Occurrences:

Data Download 04/05 - 04/12

Operator Signature:

Paul Mark

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/20/17

Time: 1:42

Operator: P. Madunio

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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)            | 3m/s                       | 30.7     | 3.22 +      |
| Direction* 10m (deg)       | W                          | 227.510  | 272 *       |
| Speed 20m (m/s)            | 3m/s                       | 3.17     | 3.69 +      |
| Direction* 20m (deg)       | W                          | 214.368  | 247 *       |
| Ambient Temperature (°C)   | 29°                        | 29.60    | 30.1 +      |
| Relative Humidity (%)      | 70%                        | 4.72     | 10.1 +      |
| Aspirated Temperature 2m   | 29°                        | 29.12    | 29.3 +      |
| Aspirated Temperature 10m  | 28°                        | 27.52    | 27.8 +      |
| Delta Temperature (°C)     | N/A                        | -2.00    | -1.58 +     |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 748.916  | 958 +       |
| Barometric Pressure (mmHg) | N/A                        | 702.323  | 702 +       |
| Battery Voltage (V)        | N/A                        | 12.80    | 12.8 +      |
| Time (MST)                 | N/A                        | 1:49     | 13:45 LT. + |
| Date                       | N/A                        | 04/20/17 | 04/20/17 +  |

278 - 13:15  
304 - 13:30  
251 - 14:00  
254 - 14:15  
257 - 13:15  
285 - 13:30  
233 - 14:00  
233 - 14:15

\*Direction wind is from

*\* no indication of triggered gauge?!*

Comments/Unusual Occurrences or Weather:

Data Download 04/12-04/20

Triggered precip gauge \*

Site Operator Signature:

*[Signature]*

# Hewitt Station

## SoDAR SITE CHECK FORM

### Resolution Copper Company

Date: 04/20/17

Time: 1:53

Operator: P. Maduane

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                        |
|------------------------------|------------------------|
| SoDAR System Status          | 4000WE                 |
| Battery Voltage (V)          | 13.17                  |
| Ambient Temp °C              | 30.60                  |
| 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                         | 04/20/17               |
| Time                         |                        |

Comments/Unusual Occurrences:

Data Download 04/12 - 04/20

Operator Signature:

[Signature]



**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/25/17

Time: 3:40

Operator: P. Maduene

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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)            | 5m/s                       | 4.71     | 5.64 +      |
| Direction* 10m (deg)       | W                          | 256.073  | 755 +       |
| Speed 20m (m/s)            | 6m/s                       | 6.56     | 6.55 +      |
| Direction* 20m (deg)       | W                          | 221.073  | 210 +       |
| Ambient Temperature (°C)   | 26°                        | 26.50    | 26.5 +      |
| Relative Humidity (%)      | 23%                        | 23.12    | 22.4 +      |
| Aspirated Temperature 2m   | 26°                        | 26.01    | 26.1 +      |
| Aspirated Temperature 10m  | 25°                        | 24.45    | 24.5 +      |
| Delta Temperature (°C)     | N/A                        | -1.51    | -1.58 +     |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 621.620  | 665 +       |
| Barometric Pressure (mmHg) | N/A                        | 1095.469 | 685 +       |
| Battery Voltage (V)        | N/A                        | 12.83    | 12.8 +      |
| Time (MST)                 | N/A                        | 3:40     | 15:45-L.T.+ |
| Date                       | N/A                        | 03:40    | 15:45-L.T.+ |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 04/20 - 04/25

Site Operator Signature: [Signature]

# Hewitt Station

## SoDAR SITE CHECK FORM

### Resolution Copper Company



Date: 04/25/17

Time: 03:51

Operator: P. Maduano

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| SoDAR System Status          | 4000WE                                               |
| Battery Voltage (V)          | 13.19                                                |
| Ambient Temp °C              | 26.10                                                |
| 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               | Good                                                 |
| Speaker Array                | Okay                                                 |
| Fuel Level                   | Empty $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Full |
| Date                         | 04/25/17                                             |
| Time                         | 3:58                                                 |

Comments/Unusual Occurrences:

Data Downloaded 04/20 - 04/25 ✓

66

Operator Signature: Paul Maduano

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/02/17

Time: 1:43

Operator: P. Madueno

YES NO

|                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propellers and the wind direction vanes are turning freely.                |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Estimate and document the parameters below.                                               |

| Parameter                  | Estimated                         | Logger       | Audit          |
|----------------------------|-----------------------------------|--------------|----------------|
| Speed 10m (m/s)            | 3m/s                              | 2.25         | 4.05 +         |
| Direction* 10m (deg)       | W                                 | 259.555      | 269 +          |
| Speed 20m (m/s)            | 3m/s                              | 2.96         | 4.64 +         |
| Direction* 20m (deg)       | W                                 | 263.445      | 228 +          |
| Ambient Temperature (°C)   | 32°                               | 32.23        | 32.2 +         |
| Relative Humidity (%)      | 9%                                | 8.95         | 8.42 +         |
| Aspirated Temperature 2m   | 32°                               | 31.34        | 31.6 +         |
| Aspirated Temperature 10m  | 31°                               | 29.26        | 30 +           |
| Delta Temperature (°C)     | N/A                               | -1.59        | -1.6 +         |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 948.970      | 863 +          |
| Barometric Pressure (mmHg) | N/A                               | (mb) 933.736 | 700 mmHg +     |
| Battery Voltage (V)        | N/A                               | 12.77        | 12.8 +         |
| Time (MST)                 | N/A                               | 1:48         | 13:45 - L.T. + |
| Date                       | N/A                               | 05/02/17     | 05/02/17 +     |

245 - 13:15  
 237 - 13:30  
 223 - 14:00  
 209 - 14:15

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Data Download 04/25 - 05/02

Site Operator Signature:

Paul Madueno





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**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**

Date: 05/02/17

Time: 1:50

Operator: P. Madhuni

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| SoDAR System Status          | 4000WE                                                                                              |
| Battery Voltage (V)          | 13.15                                                                                               |
| Ambient Temp °C              | 32.40                                                                                               |
| 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 <input checked="" type="radio"/> 1/4 <input type="radio"/> 1/2 <input type="radio"/> 3/4 Full |
| Date                         | 05/02/17                                                                                            |
| Time                         | 1:50                                                                                                |

Comments/Unusual Occurrences:

Data Download 04/25 - 05/02

Operator Signature: Paul Marshall



**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/11/17

Time: 1:30

Operator: P. Madaniso

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)            | 2m/s                       | 2.25     | 4.06          |
| Direction* 10m (deg)       | SW                         | 304, 302 | 777 *         |
| Speed 20m (m/s)            | 3m/s                       | 4.19     | 4.6           |
| Direction* 20m (deg)       | SW                         | 308, 048 | 765 *         |
| Ambient Temperature (°C)   | 29°                        | 29.05    | 28 +          |
| Relative Humidity (%)      | 26%                        | 26.14    | 25.6 +        |
| Aspirated Temperature 2m   | 29°                        | 28.87    | 28.6 P        |
| Aspirated Temperature 10m  | 28°                        | 26.92    | 26.5 +        |
| Delta Temperature (°C)     | N/A                        | -1.82    | -2.03 P       |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 748.897  | 855 +         |
| Barometric Pressure (mmHg) | N/A                        | 703.911  | 704 +         |
| Battery Voltage (V)        | N/A                        | 12.80    | 12.8 +        |
| Time (MST)                 | N/A                        | 1:38     | 13:45 - LT. + |
| Date                       | N/A                        | 05/11/17 | 05/11/17 +    |

285 - 13:15  
 256 - 13:30  
 283 - 14:00  
 284 - 14:15  
 745 - 13:15  
 748 - 13:30  
 777 - 14:00  
 771 - 14:15

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Data Downloaded 05/02 - 05/11

Site Operator Signature:

P. Madaniso

**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/11/17

Time: 11:40

Operator: P. Madonna

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| SoDAR System Status          | 4000WE                                               |
| Battery Voltage (V)          | 13.16                                                |
| Ambient Temp °C              | 29.00                                                |
| 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 $\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ Full |
| Date                         | 05/11/17                                             |
| Time                         | 11:45                                                |

Comments/Unusual Occurrences:

Data Downloaded 05/02 - 05/11 ✓  
66

Operator Signature: *[Signature]*

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/17/17 Time: 10:03 Operator: P. MADUENO

YES NO

- |                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propellers and the wind direction vanes are turning freely.                |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Estimate and document the parameters below.                                               |

| Parameter                  | Estimated                  | Logger   | Audit        |
|----------------------------|----------------------------|----------|--------------|
| Speed 10m (m/s)            | 1 m/s                      | 1.74     | 1.64 +       |
| Direction* 10m (deg)       | N                          | 256.558  | 228 +        |
| Speed 20m (m/s)            | 2 m/s                      | 1.84     | 1.93 +       |
| Direction* 20m (deg)       | E                          | 232.589  | 183 +        |
| Ambient Temperature (°C)   | 22°                        | 22.53    | 22.3 +       |
| Relative Humidity (%)      | 23%                        | 22.77    | 23.2 +       |
| Aspirated Temperature 2m   | 22°                        | 21.67    | 21.3 +       |
| Aspirated Temperature 10m  | 21°                        | 20.11    | 19.7 +       |
| Delta Temperature (°C)     | N/A                        | -1.67    | -1.58 +      |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 874.875  | 857 +        |
| Barometric Pressure (mmHg) | N/A                        | 700.071  | 700 +        |
| Battery Voltage (V)        | N/A                        | 12.80    | 12.8 +       |
| Time (MST)                 | N/A                        | 10:10    | 10:15 L.T. + |
| Date                       | N/A                        | 05/17/17 | 05/17/17 +   |

\* 154 - 9:45  
152 - 10:00  
157 - 10:30  
242 - 10:45  
\* 161 - 8:45  
2 147 - 10:00  
145 - 10:50  
205 - 10:45

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Data Download 05/11 - 05/17

Site Operator Signature: [Signature]





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**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**

Date: 05/17/17 Time: 10:13 Operator: P. M. Moreno

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| SoDAR System Status          | 4000WE                                                                                              |
| Battery Voltage (V)          | 14.37                                                                                               |
| Ambient Temp °C              | 22.90                                                                                               |
| 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 <input checked="" type="radio"/> 1/4 <input type="radio"/> 1/2 <input type="radio"/> 3/4 Full |
| Date                         | 05/17/17                                                                                            |
| Time                         | 10:20                                                                                               |

Comments/Unusual Occurrences:

Data Download 05/11 - 05/17

Operator Signature:

*[Signature]*

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/24/17 Time: 12:13 Operator: P. Madonna

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propellers and the wind direction vanes are turning freely.                |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 9. Estimate and document the parameters below.                                               |

| Parameter                  | Estimated                         | Logger   | Audit          |
|----------------------------|-----------------------------------|----------|----------------|
| Speed 10m (m/s)            | 3m/s                              | 3.27     | 2.97 +         |
| Direction* 10m (deg)       | W                                 | 273.097  | 317 *          |
| Speed 20m (m/s)            | 3m/s                              | 3.07     | 3.53 +         |
| Direction* 20m (deg)       | W                                 | 275.963  | 303 *          |
| Ambient Temperature (°C)   | 37°                               | 37.07    | 37.7 +         |
| Relative Humidity (%)      | 8%                                | 8.43     | 7.3 +          |
| Aspirated Temperature 2m   | 37°                               | 36.60    | 37.1 +         |
| Aspirated Temperature 10m  | 36°                               | 34.97    | 35.2 +         |
| Delta Temperature (°C)     | N/A                               | -1.09    | -1.81 +        |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 1019.17  | 1018 +         |
| Barometric Pressure (mmHg) | N/A                               | 698.298  | 698 +          |
| Battery Voltage (V)        | N/A                               | 12.71    | 12.7 +         |
| Time (MST)                 | N/A                               | 12:17    | 12:15 - L.T. + |
| Date                       | N/A                               | 05/24/17 | 05/24/17 +     |

262 - 11:45  
 287 - 12:00  
 278 - 12:30  
 272 - 12:45

247 - 11:45  
 271 - 12:00  
 264 - 12:30  
 258 - 12:45

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 05/17 - 05/24 ✓ EE

Site Operator Signature: [Signature]

**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/24/17

Time: 12:22

Operator: P. Madueno

YES NO

|                                     |                                                                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| SoDAR System Status          | 4000WE                                               |
| Battery Voltage (V)          | 13.13                                                |
| Ambient Temp °C              | 37.50                                                |
| 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 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Full |
| Date                         | 05/24/17                                             |
| Time                         | 12:30                                                |

Comments/Unusual Occurrences:

Data Download 05/17 - 05/24.

Operator Signature: *Paul Madueno*



**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/31/17 Time: 09:40 Operator: P. Maduano

- | YES                                 | NO                       |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propellers and the wind direction vanes are turning freely.                |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Estimate and document the parameters below.                                               |

| Parameter                  | Estimated                         | Logger   | Audit        |
|----------------------------|-----------------------------------|----------|--------------|
| Speed 10m (m/s)            | 2m/s                              | 2.35     | 5.85 +       |
| Direction* 10m (deg)       | S                                 | 113.970  | 127 +        |
| Speed 20m (m/s)            | 4m/s                              | 3.99     | 5.08 +       |
| Direction* 20m (deg)       | S                                 | 114.329  | 126 +        |
| Ambient Temperature (°C)   | 33°                               | 33.36    | 32.7 +       |
| Relative Humidity (%)      | 10%                               | 10.21    | 18.1 +       |
| Aspirated Temperature 2m   | 33°                               | 32.70    | 32.1 +       |
| Aspirated Temperature 10m  | 32°                               | 30.92    | 30.6 +       |
| Delta Temperature (°C)     | N/A                               | -1.50    | -1.5 +       |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 788.850  | 769 +        |
| Barometric Pressure (mmHg) | N/A                               | 700.054  | 700 +        |
| Battery Voltage (V)        | N/A                               | 14.31    | 12.8 +       |
| Time (MST)                 | N/A                               | 09:50    | 08:45 - (LT) |
| Date                       | N/A                               | 05/31/17 | 05/31/17 +   |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 05/23 - 05/31 ✓ 06

Site Operator Signature: [Signature]



**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/31/17

Time: 09:54

Operator: J. Maduano

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

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| SoDAR System Status          | 4000WE                                               |
| Battery Voltage (V)          | 14.31                                                |
| Ambient Temp °C              | 32.80                                                |
| 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 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Full |
| Date                         | 05/31/17                                             |
| Time                         |                                                      |

✓  
✓  
✓  
✓  
✓  
✓  
✓  
✓  
✓  
✓

Comments/Unusual Occurrences:

Data Download 05/23 - 05/31

Operator Signature: 

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/09/17 ✓ Time: 3:44 ✓ Operator: P. Madueno

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- The tower is intact and upright.
- The anemometer propellers and the wind direction vanes are turning freely.
- All temperature shields are intact, and the probes are inside their shields.
- The aspirator fans are operating.
- The solar radiation sensor is level and has been cleaned.
- The solar panel is facing south and is clean.
- The datalogger is reading the correct time and day.
- The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
- Estimate and document the parameters below.

| Parameter                  | Estimated                         | Logger   | Audit         |
|----------------------------|-----------------------------------|----------|---------------|
| Speed 10m (m/s)            | 2m/s                              | 2.25     | 3.41          |
| Direction* 10m (deg)       | W                                 | 235.507  | 257 ✗         |
| Speed 20m (m/s)            | 3m/s                              | 2.25     | 3.84 +        |
| Direction* 20m (deg)       | W                                 | 242.610  | 258 +         |
| Ambient Temperature (°C)   | 38°                               | 38.56    | 38.4 +        |
| Relative Humidity (%)      | 9%                                | 9.35     | 9.57 +        |
| Aspirated Temperature 2m   | 38°                               | 38.00    | 37.8 +        |
| Aspirated Temperature 10m  | 37°                               | 35.80    | 36.2 +        |
| Delta Temperature (°C)     | N/A                               | -1.94    | -1.61 +       |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 692.033  | 713 +         |
| Barometric Pressure (mmHg) | N/A                               | 698.084  | 698 +         |
| Battery Voltage (V)        | N/A                               | 12.69    | 12.7 +        |
| Time (MST)                 | N/A                               | 3:52     | 15:45 - 6.7 + |
| Date                       | N/A                               | 06/09/17 | 06/08/17 +    |

244 - 15:15  
 266 - 15:30  
 272 - 16:00  
 263 - 16:15

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 05/30 - 05/09 ✓ 6.6

Site Operator Signature: P. Madueno

**Hewitt Station**  
SoDAR SITE CHECK FORM  
Resolution Copper Company



Date: 06/08/17 Time: 3:55 Operator: P. Madueno

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

| SoDAR System Status          | 4000WE                                               |
|------------------------------|------------------------------------------------------|
| Battery Voltage (V)          | 13.12                                                |
| Ambient Temp °C              | 39.20                                                |
| 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 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Full |
| Date                         | 06/09/17                                             |
| Time                         | 4:00                                                 |

Comments/Unusual Occurrences:

Data Download 05/30 - 06/09

Operator Signature: \_\_\_\_\_

*[Handwritten Signature]*

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/13/17

Time: 2130

Operator: P. Madhuni

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)            | 3m/s                       | 3.09     | 2.99    |
| Direction* 10m (deg)       | SW                         | 243.520  | 258     |
| Speed 20m (m/s)            | 5m/s                       | 4.40     | 3.31    |
| Direction* 20m (deg)       | SW                         | 250.120  | 241     |
| Ambient Temperature (°C)   | 34°                        | 34.40    | 34.5    |
| Relative Humidity (%)      | 6%                         | 5.51     | 5.08    |
| Aspirated Temperature 2m   | 34°                        | 34.10    | 33.6    |
| Aspirated Temperature 10m  | 33°                        | 31.54    | 31.7    |
| Delta Temperature (°C)     | N/A                        | -2.32    | -1.86   |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 904.146  | 903     |
| Barometric Pressure (mmHg) | N/A                        | 699.044  | 700     |
| Battery Voltage (V)        | N/A                        | 12.73    | 12.7    |
| Time (MST)                 | N/A                        | 2136     | 1445    |
| Date                       | N/A                        | 06/13/17 | 6-13-17 |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 06/09 - 06/13  
Triggered precip gauge INVALUATION 0.12" OF PRECIP - RPA

Site Operator Signature: [Signature]

**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/13/17 Time: 2:39 Operator: P. Maduna

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Document the parameters below.                                                                                                     |

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| SoDAR System Status          | 4000WE                                               |
| Battery Voltage (V)          | 13.16                                                |
| Ambient Temp °C              | 33.80                                                |
| 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 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Full |
| Date                         | 06/13/17                                             |
| Time                         | 2:46                                                 |

Comments/Unusual Occurrences:

Data Download 06/09 - 06/13

Operator Signature: 



**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/29/17

Time: 09:55

Operator: P. Madugno

YES NO

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
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|  |  |
|  |  |

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)            | 2m/s                         | 1.43     | 1.6 +         |
| Direction* 10m (deg)       | N                            | 176.033  | 152 +         |
| Speed 20m (m/s)            | 2m/s                         | 1.43     | 1.7 +         |
| Direction* 20m (deg)       | N                            | 215.305  | 155 +         |
| Ambient Temperature (°C)   | 34°                          | 34.64    | 34.6 +        |
| Relative Humidity (%)      | 16%                          | 16.50    | 16.3 +        |
| Aspirated Temperature 2m   | 34°                          | 32.50    | 33.4 +        |
| Aspirated Temperature 10m  | 33°                          | 32.62    | 32.4 +        |
| Delta Temperature (°C)     | N/A                          | -1.02    | -0.998 +      |
| Solar Radiation (w/m²)     | Sunny, Partly cloudy, Cloudy | 803.333  | 782 +         |
| Barometric Pressure (mmHg) | N/A                          | 701.445  | 701 +         |
| Battery Voltage (V)        | N/A                          | 12.71    | 12.7 +        |
| Time (MST)                 | N/A                          | 10:05    | 10:00 - 6.7 + |
| Date                       | N/A                          | 06/24/17 | 06/28/17 +    |

180 - 8:30  
 220 - 8:45  
 210 - 10:15  
 252 - 10:30  
 188 - 8:30  
 221 - 8:45  
 212 - 10:15  
 255 - 10:30

\*Direction wind is from

*No indication of precip. being tipped? 66*

Comments/Unusual Occurrences or Weather:

Triggered precip gauge +  
Data Download 06/20 - 06/29

Site Operator Signature:

*[Signature]*





AIR SCIENCES INC.  
HAWAIIAN PORT & AIRCRAFT SERVICES

**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**

Date: 06/29/17

Time: 10:20

Operator: P. Maduenes

YES NO

|                                     |  |                                                                                                                                    |
|-------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> |  | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> |  | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> |  | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> |  | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> |  | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> |  | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> |  | Document the parameters below.                                                                                                     |

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| SoDAR System Status          | 4000WE                                                                                              |
| Battery Voltage (V)          | 14.28                                                                                               |
| Ambient Temp °C              | 33.60                                                                                               |
| 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 <input checked="" type="radio"/> 1/4 <input type="radio"/> 1/2 <input type="radio"/> 3/4 Full |
| Date                         | 06/29/17                                                                                            |
| Time                         | 10:30                                                                                               |

Comments/Unusual Occurrences:

Data Download 06/20 - 06/29

Operator Signature: 

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 07/07/17

Time: 10:00

Operator: P. Madueno

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propellers and the wind direction vanes are turning freely.                |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | 7. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 8. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 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                                  | 3.97     | 5.58 +        |
| Direction* 20m (deg)       | W                                     | 89.38    | 132 *         |
| Ambient Temperature (°C)   | 40°                                   | 40.01    | 41 +          |
| Relative Humidity (%)      | 11%                                   | 11.74    | 11.3 +        |
| Aspirated Temperature 2m   | 40°                                   | 39.67    | 40.5 +        |
| Aspirated Temperature 10m  | 39°                                   | 38.58    | 39 +          |
| Delta Temperature (°C)     | N/A                                   | -1.12    | -1.38 +       |
| Solar Radiation (w/m²)     | <del>Sunny</del> Partly cloudy Cloudy | 797.790  | 777 +         |
| Barometric Pressure (mmHg) | N/A                                   | 702.760  | 703 +         |
| Battery Voltage (V)        | N/A                                   | 12.64    | 12.7 +        |
| Time (MST)                 | N/A                                   | 10:00    | 10:15 - 6.7 + |
| 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  
 108 - 10:30  
 112 - 10:45

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Triggered precip gauge, Data Download  
06/29 - 07/07

Site Operator Signature: \_\_\_\_\_

66



AIR SCIENCES INC.

RESOLUTION COPPER COMPANY

# Hewitt Station

## SoDAR SITE CHECK FORM

### Resolution Copper Company

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

YES NO

|                                     |                          |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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 <input checked="" type="radio"/> 1/4 <input type="radio"/> 1/2 <input type="radio"/> 3/4 Full |
| Date                         | 07/07/17                                                                                            |
| Time                         | 10:17                                                                                               |

Comments/Unusual Occurrences:

Data Download 06/29 - 07/07 ✓

66

Operator Signature: Paul M. [Signature]

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06:11 ↔ Time: 07/11/17 Operator: G. GYLPS

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. *5 min. 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     | 0.948 +      |
| 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                        | 06:28    | 06:30 - LT + |
| Date                       | N/A                        | 07/11/17 | 07/11/17 +   |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: \_\_\_\_\_

Site Operator Signature: \_\_\_\_\_





Operator Signature: \_\_\_\_\_

**Hewitt Station**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 07/19/2017

Time: 10:52

Operator: P. Maduena

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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 +         |
| Direction* 20m (deg)       | E                            | 231.662    | 263 +          |
| Ambient Temperature (°C)   | 33°                          | 33.44      | 33.5 +         |
| Relative Humidity (%)      | 47%                          | 47.45      | 46.8 +         |
| 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 +     |

+  
+  
281 - 10:30  
263 - 10:45  
259 - 11:15  
- 11:30

66

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Triggered precip gauge, Data Download  
07/13 - 07/19

Site Operator Signature: Paul Maduena



**Hewitt Station**  
**SoDAR SITE CHECK FORM**  
**Resolution Copper Company**



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

| YES                                 | NO                       |                                                                                                                                    |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is level.                                                                                                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and drain holes are free of debris.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit is running and the signal pulses are audible.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The enclosure and system cables have been inspected.                                                                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The unit LCD is reading the correct time and day.                                                                                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site has been inspected for physical overhead obstructions, and unusual ambient noise (nearby running equipment, sirens, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Full |
| Date                         | 07/19/17                                             |
| Time                         | 11:08                                                |

Comments/Unusual Occurrences:

Data Download 07/13 - 07/17

Operator Signature: P. Maducno

## **Appendix G – Far West Station Site Check Forms**

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## Monthly Flow Verification PM<sub>10</sub>

Far West

PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>10</sub>: S/N: T19137  
Firmware: Delta Cal S/N: 1034  
Calibrator: \_\_\_\_\_

Date of Flow Audit: 04/03/17  
Time of Flow Audit: 09:18

|                               | BAM  | STD  |
|-------------------------------|------|------|
| Ambient Temperature (AT) °C   | 22.8 | 22.2 |
| Barometric Pressure (BP) mmHg | 711  | 711  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.1            | 0.7        | 15.10           | 0          |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0          | 18.46           | 0.3        |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0          | 16.74           | 0.2        |
| 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%)

(2) Leak Test 0.5 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed.

PM10 cond. + flow invalidated for 10.00 hrs. 66

Signature: Paul M...

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

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 4-5-17 Time: 1730 Operator: ATTITUDE

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
|   |  |
| X |  |
| X |  |
| X |  |

- The tower is intact and upright.
- The anemometer propeller and the wind direction vane are turning freely.
- All temperature shields are intact, and the probes are inside their shields.
- The aspirator fans are operating.
- The solar radiation sensor is level and has been cleaned.
- The solar panel is facing south and is clean.
- ~~The precipitation gauge is clean and free of bugs and dust.~~
- The datalogger is reading the correct time and day.
- The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.).
- Estimate and document the parameters below.

| Parameter                           | Estimated                         | Logger     | Audit        |
|-------------------------------------|-----------------------------------|------------|--------------|
| Speed 10m (m/s)                     | 3                                 | 2.4        | 2.58 +       |
| Direction* 10m (deg)                | NW                                | 312.9      | 323 +        |
| Ambient Temperature (°C)            | 30                                | 28.2       | 28.5 +       |
| Relative Humidity (%)               | 10                                | 8.1        | 8.2 +        |
| Aspirated Temp 2m                   | 30                                | 28.1       | 28.4 +       |
| Aspirated Temp 10m                  | 30                                | 27.6       | 27.8 +       |
| Delta Temperature (°C)              | N/A                               | -0.5       | -0.552 +     |
| Solar Radiation (w/m <sup>2</sup> ) | Sunny <u>Partly cloudy</u> Cloudy | 250.0      | 297 +        |
| Barometric Pressure (mmHg)          | N/A                               | 714.7      | 715 +        |
| Battery Voltage (V)                 | N/A                               | 13.0       | 13.1 +       |
| Time (MST)                          | N/A                               | 1733       | 17:30 - LT + |
| Date                                | N/A                               | 2017-04-05 | 04/05/17 +   |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: \_\_\_\_\_

Site Operator Signature: \_\_\_\_\_

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 4-5-17 Time: 1650 Operator: ATTRIDGE

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> 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

|   |   |
|---|---|
|   | X |
| X |   |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Complete calibration of flow system (\*Work performed by Air Sciences)

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

YES NO

|   |   |
|---|---|
|   | X |
| X |   |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: PM<sub>2.5</sub> cond. & flow invalidated for 17:00 and 18:00 hrs. ASI on site for quarterly flow and T/ calibration!

Signature: [Signature]



**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 4-5-7 Time: 1657 Operator: ARRIDGE

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

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

|   |  |
|---|--|
| X |  |
| X |  |
| X |  |
| X |  |
| X |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> 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

|   |   |
|---|---|
|   | X |
| X |   |

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

|   |   |
|---|---|
|   | X |
| X |   |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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 |
| X |   |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: PM10 conc. + flow invalidated for 17:00 and 18:00 hrs. ASI on site for quarterly flow audit/calibration

Signature: \_\_\_\_\_

*[Signature]*



**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/12/17

Time: 09:10

Operator: P. Madhine

YES NO

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

| Parameter                  | Estimated                  | Logger   | Audit      |
|----------------------------|----------------------------|----------|------------|
| Speed 10m (m/s)            | 3m/s                       | 3.07     | 2.36 +     |
| Direction* 10m (deg)       | W                          | 170.688  | 147 +      |
| Ambient Temperature (°C)   | 25°                        | 24.93    | 24.8 +     |
| Relative Humidity (%)      | 10%                        | 10.26    | 10.4 +     |
| Aspirated Temp 2m          | 25°                        | 24.37    | 24.5 +     |
| Aspirated Temp 10m         | 24°                        | 23.45    | 23.5 +     |
| Delta Temperature (°C)     | N/A                        | -0.95    | -1.01 +    |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 714.234  | 693 +      |
| Barometric Pressure (mmHg) | N/A                        | 715.313  | 715 +      |
| Battery Voltage (V)        | N/A                        | 13.22    | 13.3 +     |
| Time (MST)                 | N/A                        | 09:15    | 09:15 LT + |
| Date                       | N/A                        | 04/12/17 | 04/12/17 + |

167-8:45  
148-9:00  
162-9:30  
180-9:45

\*Direction wind is from

66

Comments/Unusual Occurrences or Weather: \_\_\_\_\_

Site Operator Signature: \_\_\_\_\_

*Paul Madhine*

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/12/17 Time: 09:24 Operator: P. Madlums

**I. BAM SAMPLER – Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Madlums

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/12/17 Time: 09:16 Operator: P. Madrone

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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). 04/05 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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Madrone



**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/20/17 Time: 12:33 Operator: P. Madueno

YES NO

- |                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input type="checkbox"/>            | <input type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit       |
|----------------------------|----------------------------|----------|-------------|
| Speed 10m (m/s)            | 5m/s                       | 4.91     | 2.68 +      |
| Direction* 10m (deg)       | N                          | 302.956  | 301 +       |
| Ambient Temperature (°C)   | 29°                        | 28.96    | 29 +        |
| Relative Humidity (%)      | 10%                        | 9.96     | 10.1 +      |
| Aspirated Temp 2m          | 29°                        | 29.84    | 29.3 +      |
| Aspirated Temp 10m         | 28°                        | 27.51    | 28 +        |
| Delta Temperature (°C)     | N/A                        | -1.66    | -1.25 +     |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 1114.16  | 1115 +      |
| Barometric Pressure (mmHg) | N/A                        | 715.050  | 715 +       |
| Battery Voltage (V)        | N/A                        | 12.96    | 13 +        |
| Time (MST)                 | N/A                        | 12:45    | 12:45 - 6.5 |
| Date                       | N/A                        | 04/20/17 | 04/20/17    |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 04/12 - 04/20

Site Operator Signature: P. Madueno

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/20/17 Time: 12:56 Operator: P. Maduna

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Complete calibration of flow system (\*Work performed by Air Sciences)

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

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Maduna

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/20/17 Time: 12:32 Operator: P. Madrone

**I. BAM SAMPLER – Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/05 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER – Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Madrone*



**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 04/25/17

Time: 2:14

Operator: P. Maduero

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input type="checkbox"/>            | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit        |
|----------------------------|----------------------------|----------|--------------|
| Speed 10m (m/s)            | 5m/s                       | 7.27     | 6.66 +       |
| Direction* 10m (deg)       | W                          | 264.180  | 261 +        |
| Ambient Temperature (°C)   | 26°                        | 26.03    | 26.5 +       |
| Relative Humidity (%)      | 23%                        | 22.48    | 21.9 +       |
| Aspirated Temp 2m          | 26°                        | 26.23    | 26.8 +       |
| Aspirated Temp 10m         | 25°                        | 25.03    | 25.3 +       |
| Delta Temperature (°C)     | N/A                        | -1.43    | -1.48 +      |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 784.333  | 967 +        |
| Barometric Pressure (mmHg) | N/A                        | 708.715  | 709 +        |
| Battery Voltage (V)        | N/A                        | 13.09    | 13.1 +       |
| Time (MST)                 | N/A                        | 2:21     | 14:15 L.T. + |
| Date                       | N/A                        | 04/25/17 | 04/25/17 +   |

1019-13:45  
963-14:00  
829-14:30  
893-14:45

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Data Download 04/12 - 04/25

Site Operator Signature:

*[Signature]*

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/25/17 Time: 2:36 Operator: P. Madhuni

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

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). *Flow OUT of regulation*
6. Error log was checked (F3), and errors followed up on (see manual). ~~04/05 maintenance~~ 04/22
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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_

*[Handwritten Signature]*



## Monthly Flow Verification PM<sub>2.5</sub>

Far West  
PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>2.5</sub>:

S/N: T19136

Firmware:

Calibrator:

Deltacal

S/N: 1034

Date of Flow Audit:

4/25/17

Time of Flow Audit:

2:51

Ambient Temperature (AT) °C

Barometric Pressure (BP) mmHg

| BAM  | STD  |
|------|------|
| 26.4 | 27.8 |
| 707  | 707  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0.0 ✓      | 15.08           | 0.5 ✓      |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0.0 ✓      | 18.39           | 0.1 ✓      |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0.0 ✓      | 16.71           | 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%)

(2) Leak Test 0.5 Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed

Signature:

*[Signature]*

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

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 04/25/17 Time: 2:30 Operator: P. Maduna

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

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). 04/01 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.**

YES NO

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> |  |
| <input checked="" type="checkbox"/> |  |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: \_\_\_\_\_





## Monthly Flow Verification PM<sub>10</sub>

Far West

PARTICULATE MONITORING PROJECT

Met One BAM 1020

PM<sub>10</sub>:

S/N: T19137

Firmware:

Calibrator:

Delta Cal

S/N: 1034

Date of Flow Audit:

04/25/17

Time of Flow Audit:

2:38

Ambient Temperature (AT) °C

Barometric Pressure (BP) mmHg

| BAM  | STD  |
|------|------|
| 26.5 | 27.6 |
| 707  | 707  |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0%         | 15.05           | 0.3%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0%         | 18.36           | 0.2%       |
| 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%)

(2) Leak Test

BAM

0.4

Should be < 1.0 LPM

Comments/Abnormalities:

Self Test Passed.

Signature:

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

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/02/17

Time: 09:59

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)            | 2m/s                       | 1.74     | 2.01 +    |
| Direction* 10m (deg)       | W                          | 171.569  | 155 +     |
| Ambient Temperature (°C)   | 27°                        | 26.99    | 26.7 +    |
| Relative Humidity (%)      | 7%                         | 7.56     | 7.51 +    |
| Aspirated Temp 2m          | 27°                        | 27.39    | 26.4 +    |
| Aspirated Temp 10m         | 26°                        | 26.15    | 25.4 +    |
| Delta Temperature (°C)     | N/A                        | -1.49    | -0.874 +  |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 948.413  | 919 +     |
| Barometric Pressure (mmHg) | N/A                        | 715.930  | 715 +     |
| Battery Voltage (V)        | N/A                        | 13.08    | 13.1 +    |
| Time (MST)                 | N/A                        | 10:06    | 10:00 LT+ |
| Date                       | N/A                        | 05/02/17 | 05/01/17+ |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 04/25 - 05/02

Site Operator Signature: Paul Marshall

66



**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/02/17 Time: 10:20 Operator: P. Madune

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/25 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Madune

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/02/17 Time: 10:16 Operator: P. Madhuni

**I. BAM SAMPLER – Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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 (E3), and errors followed up on (see manual). 04/25 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER – Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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 Madhuni

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/09/17 Time: 09:40 Operator: P. Madueno

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input type="checkbox"/>            | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit      |
|----------------------------|-----------------------------------|----------|------------|
| Speed 10m (m/s)            | 2m/s                              | 1.94     | 2.75 +     |
| Direction* 10m (deg)       | SW                                | 208.346  | 187 +      |
| Ambient Temperature (°C)   | 16°                               | 16.18    | 16.2 +     |
| Relative Humidity (%)      | 58%                               | 58.64    | 60.4 +     |
| Aspirated Temp 2m          | 16°                               | 15.82    | 15.9 +     |
| Aspirated Temp 10m         | 15°                               | 15.11    | 15.3 +     |
| Delta Temperature (°C)     | N/A                               | -0.61    | -0.693 +   |
| Solar Radiation (w/m²)     | Sunny Partly cloudy <u>Cloudy</u> | 603.506  | 552 +      |
| Barometric Pressure (mmHg) | N/A                               | 714.803  | 715 +      |
| Battery Voltage (V)        | N/A                               | 13.41    | 13.4 +     |
| Time (MST)                 | N/A                               | 09:47    | 09:45-47 + |
| Date                       | N/A                               | 05/09/17 | 05/08/17 + |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Raining, Data Download 05/01 - 05/09 ✓

Site Operator Signature: Paul Madueno



**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/09/17 Time: 09:53 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

| YES                                 | NO                       |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- The sampler is intact and the inlet head is unobstructed.
- The vacuum pump is running and sounds normal.
- The temperature shield is intact, and the sensor is inside of it.
- The BAM is reading the correct time and day.
- The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).
- Error log was checked (F3), and errors followed up on (see manual). 04/25 Maintenance
- 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Inlet Flow check performed
- Visual inspection and dust removal
- Leak check performed
- PM<sub>10</sub> particle trap cleaned
- Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

| YES                      | NO                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Filter tape replaced
- 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Replaced muffler on the pump (\*Work performed by Air Sciences)
- 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                                  |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
- Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: Paul Madueno

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/09/17 Time: 09:47 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/25 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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]

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/17/17

Time: 08:46

Operator: P. MADUENC

YES NO

|                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit        |
|----------------------------|-----------------------------------|----------|--------------|
| Speed 10m (m/s)            | 3m/s                              | 3.17     | 3.52 +       |
| Direction* 10m (deg)       | N                                 | 162.575  | 178 +        |
| Ambient Temperature (°C)   | 20°                               | 20.15    | 19.6 +       |
| Relative Humidity (%)      | 25%                               | 25.63    | 25.9 +       |
| Aspirated Temp 2m          | 20°                               | 19.53    | 19.5 +       |
| Aspirated Temp 10m         | 19°                               | 18.75    | 18.6 +       |
| Delta Temperature (°C)     | N/A                               | -0.94    | -0.876 +     |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 733.409  | 685 +        |
| Barometric Pressure (mmHg) | N/A                               | 713.140  | 713 +        |
| Battery Voltage (V)        | N/A                               | 13.00    | 13.1 +       |
| Time (MST)                 | N/A                               | 08:53    | 08:45 L.T. + |
| Date                       | N/A                               | 05/17/17 | 05/17/17 +   |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Data Download 05/09 - 05/17 ✓ 66

Site Operator Signature:

*[Signature]*



**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/17/17 Time: 09:00 Operator: P. MADUENO

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/25 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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:

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/05/17 Time: 09:02 Operator: P. MADUENO

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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 (E3), and errors followed up on (see manual). 04/25 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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]*

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/23/17 ✓ Time: 08:15 ✓ Operator: P. Madonna ✓

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     | 3.24 +        |
| Direction* 10m (deg)       | S                          | 167.157  | 168 +         |
| Ambient Temperature (°C)   | 31°                        | 31.12    | 31.5 +        |
| Relative Humidity (%)      | 9%                         | 9.83     | 9.57 +        |
| Aspirated Temp 2m          | 31°                        | 31.55    | 31.5 +        |
| Aspirated Temp 10m         | 30°                        | 30.54    | 30.6 +        |
| Delta Temperature (°C)     | N/A                        | -0.94    | -0.871 +      |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 684.330  | 643 +         |
| Barometric Pressure (mmHg) | N/A                        | 714.167  | 714 +         |
| Battery Voltage (V)        | N/A                        | 12.74    | 12.8 +        |
| Time (MST)                 | N/A                        | 08:25    | 08:30 - L.T.P |
| Date                       | N/A                        | 05/23/17 | 05/23/17 +    |

\*Direction wind is from

Comments/Unusual Occurrences or Weather:

Data Download 05/17 - 05/23 ✓ 66

Site Operator Signature:

P. Madonna



**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/23/17 Time: 08:50 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/21 Flow 5% Out-of-Regulation
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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: Replaced Filter Tape

Signature: [Signature]

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/23/17 Time: 08:34 Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 04/25 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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences: Replaced filter tape. ✓

Signature: Paul Madueno

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 05/30/17 Time: 10:30 Operator: P. Madhwa

YES NO

- |                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input type="checkbox"/>            | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                         | Logger   | Audit       |
|----------------------------|-----------------------------------|----------|-------------|
| Speed 10m (m/s)            | 4m/s                              | 3.89     | 2.99 +      |
| Direction* 10m (deg)       | SW                                | 206.654  | 241 *       |
| Ambient Temperature (°C)   | 36°                               | 36.98    | 32.6 +      |
| Relative Humidity (%)      | 10%                               | 10.49    | 11.5 +      |
| Aspirated Temp 2m          | 36°                               | 33.23    | 32.8 +      |
| Aspirated Temp 10m         | 35°                               | 32.21    | 31.7 +      |
| Delta Temperature (°C)     | N/A                               | -1.37    | -1.07 +     |
| Solar Radiation (w/m²)     | <u>Sunny</u> Partly cloudy Cloudy | 870.111  | 856 +       |
| Barometric Pressure (mmHg) | N/A                               | 713.260  | 713 +       |
| Battery Voltage (V)        | N/A                               | 12.88    | 12.8 +      |
| Time (MST)                 | N/A                               | 10:36    | 10:30 - LT+ |
| Date                       | N/A                               | 05/30/17 | 05/30/17+   |

209 - 10:00  
223 - 10:15  
218 - 10:45  
232 - 11:00

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 05/23 - 05/30 ✓ 66

Site Operator Signature: P. Madhwa



**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/30/17

Time: 10:50

Operator: P. Madueno

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 05/23 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

1. Filter tape replaced
2. Ran the Self-Test function

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

YES NO

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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: [Signature]



## Monthly Flow Verification PM<sub>2.5</sub>

Far West  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>2.5</sub>: S/N: 779136  
Firmware: 1.034  
Calibrator: Joe H. Cal S/N: 1034

Date of Flow Audit: 05/30/17  
Time of Flow Audit: 12:00

|                               | BAM         | STD          |
|-------------------------------|-------------|--------------|
| Ambient Temperature (AT) °C   | <u>35.4</u> | <u>36.0</u>  |
| Barometric Pressure (BP) mmHg | <u>711</u>  | <u>711.5</u> |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0%         | 15.06           | 0.4%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0%         | 18.43           | 0.2%       |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0%         | 16.70           | 0%         |
| Acceptable Differential |                 | 16.336 - 17.034 | +/- 2%     | 15.865 - 17.535 | +/- 5%     |

### Calculations:

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

(2) Leak Test 0.6 Should be < 1.0 LPM

Comments/Abnormalities: Self Test Passed

\* PM<sub>2.5</sub> conc + flow included for 11:00 through 13:00 hrs!

Signature: [Signature]

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

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 05/30/17 Time: 10:46 Operator: P. Maduene

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). as/23 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

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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]



## Monthly Flow Verification PM<sub>10</sub>

Far West  
PARTICULATE MONITORING PROJECT

Met One BAM 1020 PM<sub>10</sub>: S/N: T19137  
Firmware: Delta Cal S/N: 1034  
Calibrator:

Date of Flow Audit: 05/30/17  
Time of Flow Audit: 11:30

|                               | BAM  | STD   |
|-------------------------------|------|-------|
| Ambient Temperature (AT) °C   | 36.3 | 36.2  |
| Barometric Pressure (BP) mmHg | 711  | 711.5 |

|                         | Set Point (lpm) | BAM             | % Diff (1) | STD Flow Meter  | % Diff (2) |
|-------------------------|-----------------|-----------------|------------|-----------------|------------|
| (1) Actual Flow         | 15              | 15.0            | 0%         | 15.10           | 0.7%       |
| Acceptable Differential |                 | 14.700 - 15.300 | +/- 2%     | 14.250 - 15.750 | +/- 5%     |
| (2) Actual Flow         | 18.4            | 18.4            | 0%         | 18.40           | 0%         |
| Acceptable Differential |                 | 18.032 - 18.768 | +/- 2%     | 17.480 - 19.320 | +/- 5%     |
| (3) Actual Flow         | 16.7            | 16.7            | 0%         | 16.94           | 1.4%       |
| 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%)

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

Comments/Abnormalities:

Self Test Passed

Signature:

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



**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/09/17

Time: 2:31

Operator: P. Madano

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)            | 6 m/s                      | 6.04     | 3.44 +     |
| Direction* 10m (deg)       | S                          | 253.742  | 245 +      |
| Ambient Temperature (°C)   | 38°                        | 37.91    | 38.3 +     |
| Relative Humidity (%)      | 6%                         | 6.63     | 7.68 +     |
| Aspirated Temp 2m          | 38°                        | 38.42    | 38.4 +     |
| Aspirated Temp 10m         | 37°                        | 36.65    | 36.9 +     |
| Delta Temperature (°C)     | N/A                        | -1.58    | -1.44 +    |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 1006.81  | 877 +      |
| Barometric Pressure (mmHg) | N/A                        | 712.798  | 711 +      |
| Battery Voltage (V)        | N/A                        | 12.73    | 12.7 +     |
| Time (MSI)                 | N/A                        | 2:46     | 16:45-CT + |
| Date                       | N/A                        | 06/09/17 | 06/09/17 + |

\*Direction wind is from

Comments/ Unusual Occurrences or Weather:

Data Download 05/31-06/09 ✓

Site Operator Signature:

*[Handwritten Signature]*

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/09/17 Time: 2:59 Operator: P. Machene

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 06/08 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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

YES NO

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences:

Power failure!

Signature: [Signature]



**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 06/09/17 Time: 2:53 Operator: P. Maden

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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). 06/08 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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> 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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Replaced muffler on the pump (\*Work performed by Air Sciences)
2. Completed 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

|                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

1. Carbon vanes in pump checked/replaced (\*Work performed by Air Sciences)
2. Inlet system cleaned (\*Work performed by Air Sciences)

Comments/Unusual Occurrences:

Powered off station ✓

66

Signature: [Signature]

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/15/17

Time: 11:02

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                       | 2.45     | 2.46    |
| Direction* 10m (deg)       | S                          | 247.680  | 254     |
| Ambient Temperature (°C)   | 35°                        | 35.40    | 35.5    |
| Relative Humidity (%)      | 4%                         | 3.54     | 3.63    |
| Aspirated Temp 2m          | 35°                        | 35.50    | 36.0    |
| Aspirated Temp 10m         | 34°                        | 34.47    | 34.6    |
| Delta Temperature (°C)     | N/A                        | -1.61    | -1.34   |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 1116.687 | 1.121   |
| Barometric Pressure (mmHg) | N/A                        | 715.182  | 714     |
| Battery Voltage (V)        | N/A                        | 12.72    | 12.8    |
| Time (MST)                 | N/A                        | 11:10    | 11:15   |
| Date                       | N/A                        | 06/15/17 | 6-15-17 |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 06/09 - 06/15

Site Operator Signature: \_\_\_\_\_

*[Handwritten Signature]*

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 06/29/17 Time: 08:40 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                       | 4.81    | 5.19 +         |
| Direction* 10m (deg)       | SW                         | 200.907 | 182 +          |
| Ambient Temperature (°C)   | 32°                        | 32.19   | 32.3 +         |
| Relative Humidity (%)      | 21%                        | 21.74   | 70.6 +         |
| Aspirated Temp 2m          | 32°                        | 32.14   | 32.1 +         |
| Aspirated Temp 10m         | 31°                        | 31.34   | 31.3 +         |
| Delta Temperature (°C)     | N/A                        | -0.77   | -0.839 +       |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 710.140 | 680 +          |
| Barometric Pressure (mmHg) | N/A                        | 713.581 | 714 +          |
| Battery Voltage (V)        | N/A                        | 12.85   | 12.9 +         |
| Time (MST)                 | N/A                        | 08:52   | 08:45 - L.T. + |
| Date                       | N/A                        | ?       | 06/29/17 +     |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Data Download 06/13 - 06/29 ✓ 66

Site Operator Signature: [Signature]

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 07/07/17

Time: 08:55

Operator: P. Madhuni

YES NO

|                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input type="checkbox"/>            | <input type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit      |
|----------------------------|----------------------------|----------|------------|
| Speed 10m (m/s)            | 3m/s                       | 3.62     | 586 +      |
| Direction* 10m (deg)       | W                          | 203.701  | 110 →      |
| Ambient Temperature (°C)   | 36°                        | 36.12    | 38.1 +     |
| Relative Humidity (%)      | 12%                        | 12.63    | 13 +       |
| Aspirated Temp 2m          | 36°                        | 36.86    | 38.2 +     |
| Aspirated Temp 10m         | 35°                        | 36.08    | 38.4 +     |
| Delta Temperature (°C)     | N/A                        | -1.62    | -0.832 +   |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 730.434  | 680 +      |
| Barometric Pressure (mmHg) | N/A                        | 730.626  | 715 +      |
| Battery Voltage (V)        | N/A                        | 12.92    | 12.8 +     |
| Time (MST)                 | N/A                        | 09:04    | 08:00 LT + |
| Date                       | N/A                        | 07/07/17 | 07/07/17   |

114 - 8:30  
 114 - 8:45  
 - 9:15  
 - 8:30

\*Direction wind is from

*BP seems suspect and is probably SR value!*

Comments/Unusual Occurrences or Weather:

Data Download 06/29 - 07/07 ✓ 66

Site Operator Signature:

*[Signature]*



**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 07/13/17 Time: 10:30 Operator: G. GYLYS

YES NO

- |                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. The precipitation gauge is clean and free of bugs and dust.                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit         |
|----------------------------|----------------------------|----------|---------------|
| Speed 10m (m/s)            | 2                          | 2.56     | 2.23 +        |
| Direction* 10m (deg)       | 210                        | 229      | 251 +         |
| Ambient Temperature (°C)   | 35                         | 39.6     | 34.8 +        |
| Relative Humidity (%)      | 30                         | 25.5     | 32.7 +        |
| Aspirated Temp 2m          | 33                         | 35.1     | 36.1 +        |
| Aspirated Temp 10m         | 32                         | 33.5     | 34.6 +        |
| Delta Temperature (°C)     | N/A                        | -1.57    | -1.48 +       |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 973      | 805 +         |
| Barometric Pressure (mmHg) | N/A                        | 716      | 716 +         |
| Battery Voltage (V)        | N/A                        | 12.8     | 12.8 +        |
| Time (MST)                 | N/A                        | 10:35    | 10:30 - L.T.P |
| Date                       | N/A                        | 07/13/17 | 07/13/17 +    |

232 - 10:00  
765 - 10:15  
755 - 10:45  
770 - 11:00

\*Direction wind is from

Comments/Unusual Occurrences or Weather: \_\_\_\_\_

Site Operator Signature: \_\_\_\_\_

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**

Date: 07/13/17 ✓ Time: 10:30 ✓ Operator: 6.64245 ✓

**I. BAM SAMPLER - Weekly Checks.**

YES NO

|                                     |                          |                                                                                                                                          |
|-------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The sampler is intact and the inlet head is unobstructed.                                                                             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The vacuum pump is running and sounds normal.                                                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. The temperature shield is intact, and the sensor is inside of it.                                                                     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The BAM is reading the correct time and day.                                                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The tape is in the proper position and does not need to be changed (tape should be changed every 2 months).                           |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Error log was checked (F3), and errors followed up on (see manual).                                                                   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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

|                                     |                          |                                           |
|-------------------------------------|--------------------------|-------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Inlet Flow check performed             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Visual inspection and dust removal     |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Leak check performed                   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. PM <sub>10</sub> particle trap cleaned |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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

|                                     |                                     |                               |
|-------------------------------------|-------------------------------------|-------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1. Filter tape replaced       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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

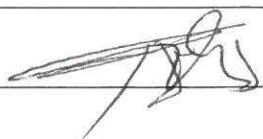
|                                     |                                     |                                                                           |
|-------------------------------------|-------------------------------------|---------------------------------------------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1. Replaced muffler on the pump (*Work performed by Air Sciences)         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 2. Completed 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

|                                     |                                     |                                                                            |
|-------------------------------------|-------------------------------------|----------------------------------------------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1. Carbon vanes in pump checked/replaced (*Work performed by Air Sciences) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 2. Inlet system cleaned (*Work performed by Air Sciences)                  |

Comments/Unusual Occurrences: Power off upon arrival! ✓

Signature: 



**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**

Date: 07/13/17 Time: 10:30 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<sub>10</sub> 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. Completed calibration of flow system (\*Work performed by Air Sciences)

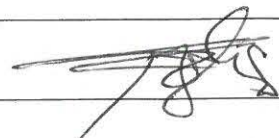
**IV. BAM SAMPLER - Routine Maintenance (annual). Check YES if maintenance was performed during this visit. See BAM manual.**

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: Power off on arrival!

Signature: 

**Far West**  
**MET SITE CHECK FORM**  
**Resolution Copper Company**



Date: 07/19/2017

Time: 9:50

Operator: P. Madueno

YES NO

|                                     |                          |                                                                                              |
|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. The tower is intact and upright.                                                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. The anemometer propeller and the wind direction vane are turning freely.                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. All temperature shields are intact, and the probes are inside their shields.              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. The aspirator fans are operating.                                                         |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. The solar radiation sensor is level and has been cleaned.                                 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. The solar panel is facing south and is clean.                                             |
| <input type="checkbox"/>            | <input type="checkbox"/> |                                                                                              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. The datalogger is reading the correct time and day.                                       |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. The site has been visually inspected for unusual wildlife occurrences (dead birds, etc.). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Estimate and document the parameters below.                                              |

| Parameter                  | Estimated                  | Logger   | Audit |
|----------------------------|----------------------------|----------|-------|
| Speed 10m (m/s)            | 4 m/s                      | 3.58     |       |
| Direction* 10m (deg)       | E                          | 168.879  |       |
| Ambient Temperature (°C)   | 32°                        | 32.26    |       |
| Relative Humidity (%)      | 45%                        | 45.31    |       |
| Aspirated Temp 2m          | 32°                        | 31.82    |       |
| Aspirated Temp 10m         | 31°                        | 30.58    |       |
| Delta Temperature (°C)     | N/A                        | -1.32    |       |
| Solar Radiation (w/m²)     | Sunny Partly cloudy Cloudy | 936.070  |       |
| Barometric Pressure (mmHg) | N/A                        | 216.420  |       |
| Battery Voltage (V)        | N/A                        | 12.91    |       |
| Time (MST)                 | N/A                        | 9:57     |       |
| Date                       | N/A                        | 07/19/17 |       |

\*Direction wind is from

Comments/Unusual Occurrences or Weather: Loading Center is operating properly

Site Operator Signature: P. Madueno

**Far West**  
**BAM PM<sub>2.5</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 07/19/17 Time: 9:59 Operator: P. Maduceno

**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). 07/19 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.**

|  |   |
|--|---|
|  | ✓ |
|  | ✓ |
|  | ✓ |
|  | ✓ |
|  | ✓ |

1. Inlet Flow check performed
2. Visual inspection and dust removal
3. Leak check performed
4. PM<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. BAM SAMPLER - Routine Maintenance (every 2 months). Check YES if maintenance was performed during this visit. See BAM manual.**

|  |   |
|--|---|
|  | ✓ |
|  | ✓ |

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.**

|  |   |
|--|---|
|  | ✓ |
|  | ✓ |

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.**

|  |   |
|--|---|
|  | ✓ |
|  | ✓ |

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: \_\_\_\_\_

*[Handwritten Signature]*

**Far West**  
**BAM PM<sub>10</sub> WEEKLY SITE CHECK FORM**  
**Resolution Copper Mining**



Date: 07/19/17 Time: 10:03 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). 07/19 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<sub>10</sub> particle trap cleaned
5. Inlet nozzle and nozzle are cleaned

**III. 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. Completed 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: P. Madueno

## **Appendix H – First 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. 262-20  
APRIL 2017



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# 1.0 INTRODUCTION

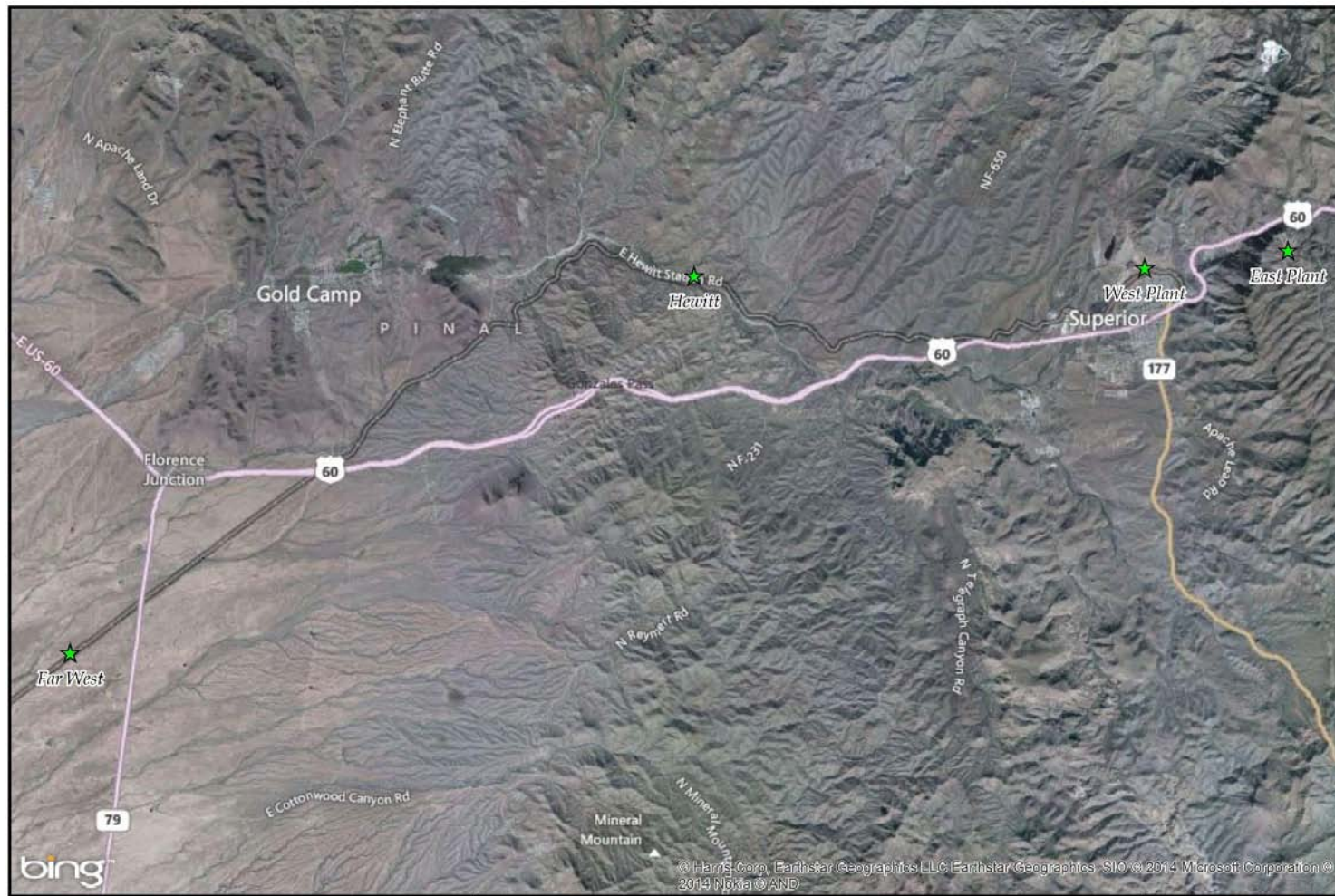
---

From April 5, 2017 to April 6, 2017, the 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 <sub>10</sub> and PM <sub>2.5</sub> )                                                                                                                                               |
| Gaseous Data            | Nitrogen dioxide (NO <sub>2</sub> ), sulfur dioxide (SO <sub>2</sub> ), and ozone (O <sub>3</sub> )                                                                                                                                                 |

#### 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 <sub>10</sub> and PM <sub>2.5</sub> )                                                                                                                                               |

#### 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 <sub>10</sub> and PM <sub>2.5</sub>                                                                                                                                                                                               |

#### 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 ( $\Delta T$ , Delta T, °C)   | ✓          | ✓          | ✓              | ✓      |
|                                  | Relative humidity (percent [%])                               | ✓          | ✓          | ✓              | ✓      |
|                                  | Solar radiation (watts per square meter [W/m <sup>2</sup> ])  | ✓          | ✓          | ✓              | ✓      |
|                                  | Barometric pressure (millimeters of mercury [mmHg])           | ✓          | ✓          | ✓              | ✓      |
|                                  | Precipitation (inches [in])                                   | ✓          | ✓          |                |        |
| Ambient Air Data<br>(PM and Gas) | Particulate matter less than 10 microns (PM <sub>10</sub> )   | ✓          | ✓          | ✓              |        |
|                                  | Particulate matter less than 2.5 microns (PM <sub>2.5</sub> ) | ✓          | ✓          | ✓              |        |
|                                  | Sulfur dioxide (SO <sub>2</sub> )                             | ✓          |            |                |        |
|                                  | Ozone (O <sub>3</sub> )                                       | ✓          |            |                |        |
|                                  | Nitrogen dioxide (NO <sub>2</sub> )                           | ✓          |            |                |        |
| Upper-Air<br>(SoDAR)<br>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)              |            |            |                | ✓      |

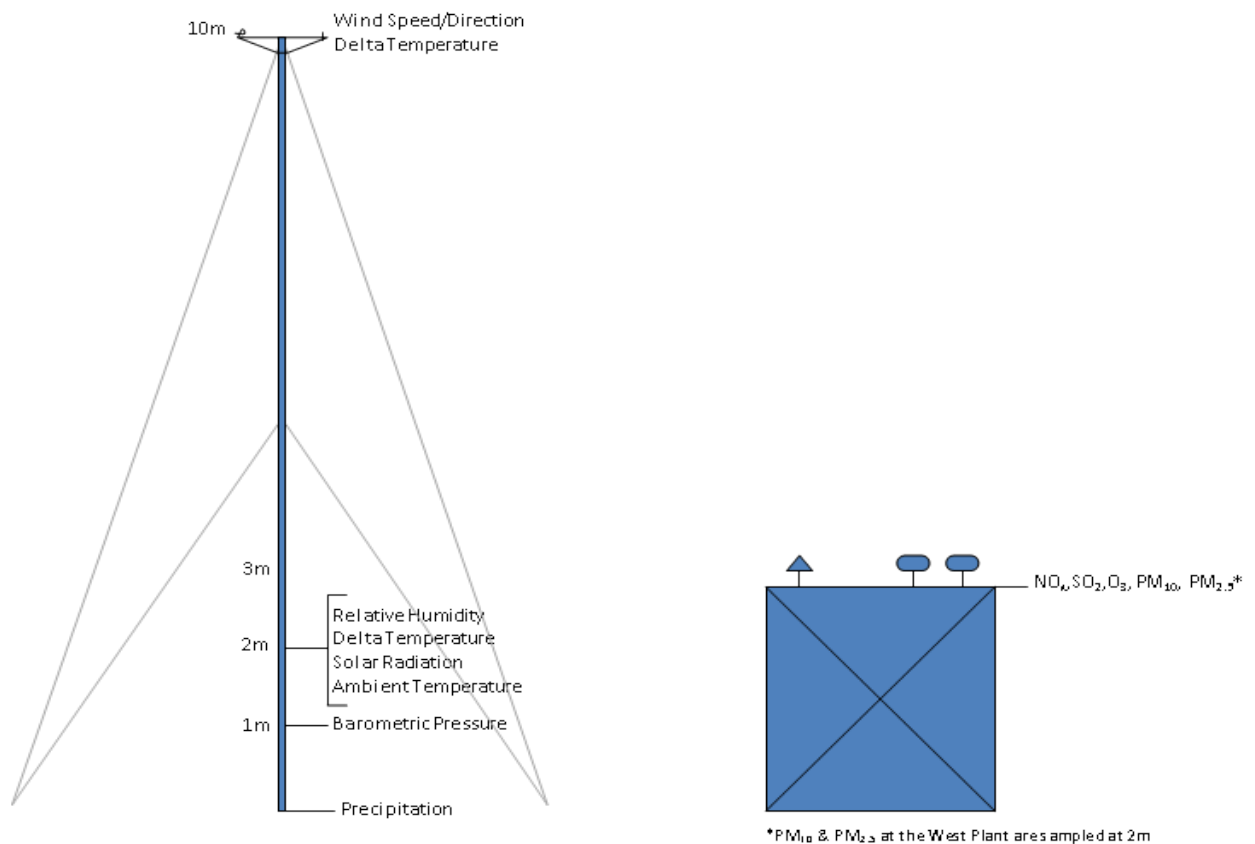
## 2.2 Monitoring System Sensors

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)**

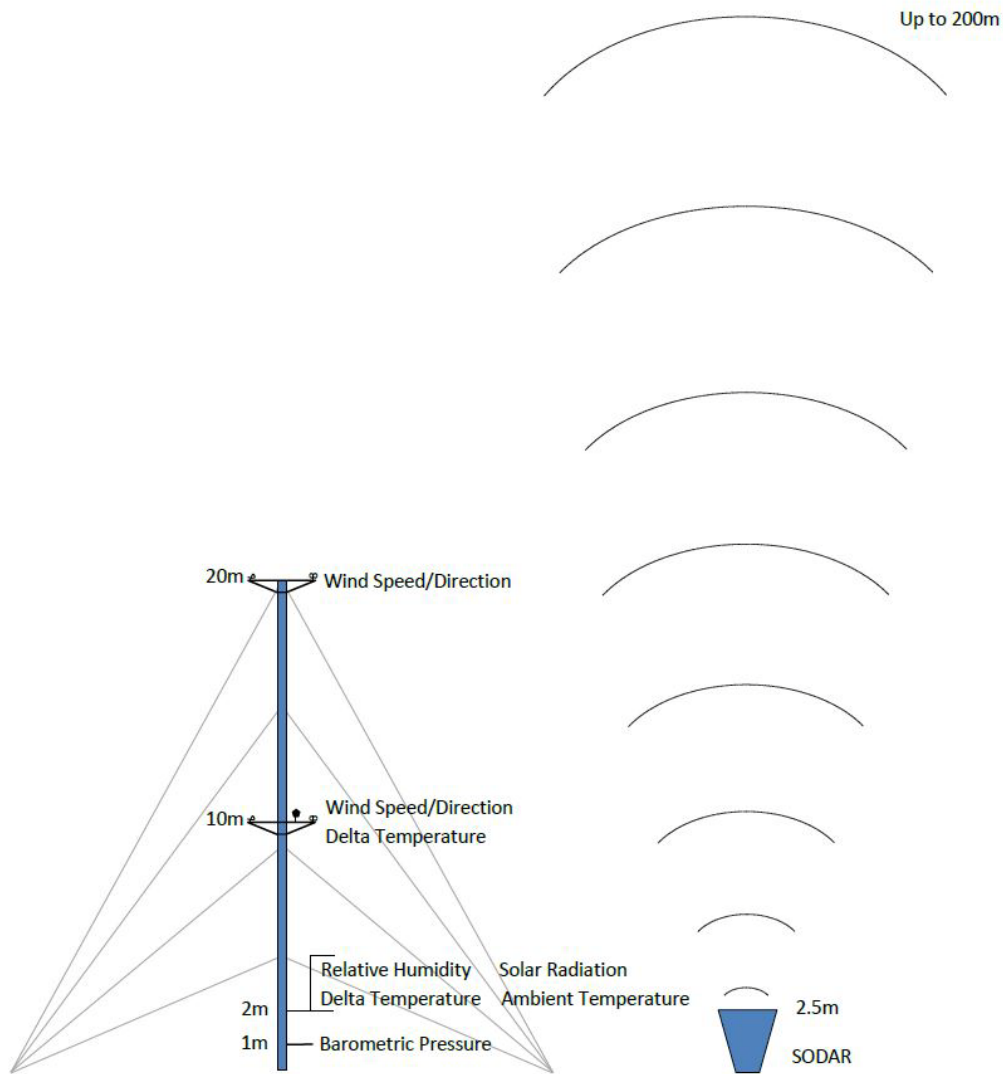
| Parameter           | Approximate Height (meters) |
|---------------------|-----------------------------|
| Wind Speed          | 10, 20                      |
| Wind Direction      | 10, 20                      |
| Ambient Temperature | 2                           |
| Delta Temperature   | 2, 10                       |
| Solar Radiation     | 2                           |
| Relative Humidity   | 2                           |
| Barometric Pressure | 1.5                         |
| Precipitation       | Ground                      |
| PM <sub>10</sub>    | 2, 3                        |
| PM <sub>2.5</sub>   | 2, 3                        |
| NO <sub>2</sub>     | 3                           |
| SO <sub>2</sub>     | 3                           |
| O <sub>3</sub>      | 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<sub>10</sub> and PM<sub>2.5</sub> 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

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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, and Appendix E.

### 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.<sup>1</sup> 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<sup>2</sup> 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.

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<sup>1</sup> 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.

<sup>2</sup> 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<sub>10</sub> and PM<sub>2.5</sub> 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<sub>2</sub> and T200 NO<sub>x</sub> 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<sub>2</sub> and T200 NO<sub>x</sub> 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<sub>2</sub> or NO<sub>x</sub>.

Audits and calibrations of the Teledyne T400 O<sub>3</sub> 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<sub>3</sub> 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<sub>3</sub>.

### **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 BPMP 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

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During the audit activities from April 5, 2017 to April 6, 2017, all instruments, sensors, and operating systems were found to be clean, serviceable, and within their recommended tolerance parameters with the exception of the Far West monitoring station solar power system and Hewitt Station SoDAR backup generator.

The Far West solar power system is intermittently shutting down for unknown reasons that are affecting the data recovery objectives. The client contracted electricians are scheduled inspect the power system to identify if the problem is a power inefficacy or hardware problem.

The Hewitt Station SoDAR backup generator failed to start during the quarterly checks and services. Close inspection of the generator revealed an infestation of mice nesting inside the generator cowling and chewed wiring. It's recommended that the generator be repaired and serviced by a qualified person.

Auditing of the projects meteorological sensors was not completed during this visit.

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**

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# West Plant BAM-1020 PM<sub>10</sub> Audit Sheet



Model: **BAM-1020**

Serial Number: **M 8712**

Audit Date: **4-5-17**

Audited By: **R. ATTENGE**

Audit Time: **0916-1003**

Firmware: **3236-06 V3.6.3**

| Flow Audits                        |                         |                         |                                  |
|------------------------------------|-------------------------|-------------------------|----------------------------------|
| Flow Reference Standard Used:      | Model: <b>Delta Cal</b> | Serial No.: <b>1103</b> | Calibration Date: <b>3-16-17</b> |
| Temperature Standard Used:         | Model: <b>11</b>        | Serial No.: <b>11</b>   | Calibration Date: <b>11</b>      |
| Barometric Pressure Standard Used: | Model: <b>11</b>        | Serial No.: <b>11</b>   | Calibration Date: <b>11</b>      |

Leak Check Value:

As found: **0.2**

Should Be: **<1.0**

As left: **0.2**

Should Be: **<1.0**

Ambient Temperature (°C):

As found: **21.0**

Ref. Std. **19.0**

As left: **19.7**

Ref. Std. **19.7**

Adjusted **X**

Barometric Pressure (mmHg):

As found: **686**

Ref. Std. **686.5**

As left: **686**

Ref. Std. **686.5**

Adjusted

Flow Rate (15.0 LPM):

As found: **15.0**

Ref. Std. **14.95**

As left: **15.0**

Ref. Std. **15.00**

Adjusted

Flow Rate (18.4 LPM):

As found: **18.4**

Ref. Std. **18.29**

As left: **18.4**

Ref. Std. **18.37**

Adjusted

Flow Rate (16.7 LPM):

As found: **16.7**

Ref. Std. **16.62**

As left: **16.7**

Ref. Std. **16.66**

Adjusted

Audit Notes: **Multiple Facility Power fails resulting in BAM POWER FAIL ERRORS. (UNABLE) SAMPLE TAKE**

## Mechanical Audits

Pump muffler unclogged:

As found: **X**

As left:

PM<sub>10</sub> particle trap clean:

As found:

As left: **X**

N/A

Sample nozzle clean:

As found: **X**

As left:

PM<sub>10</sub> drip jar empty:

As found:

As left: **X**

N/A

Tape support vane clean:

As found:

As left: **X**

PM<sub>10</sub> bug screen clear:

As found: **X**

As left:

N/A

Capstan shaft clean:

As found:

As left: **X**

PM<sub>2.5</sub> particle trap clean:

As found:

As left:

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:

*[Signature]*

# West Plant BAM-1020 PM<sub>2.5</sub> Audit Sheet

Model: **BAM-1020**

Serial Number: **M 8193**

Audit Date: **4-5-17**

Audited By: **R. ATTRELOE**

Audit Time: **0915-1000**

Firmware: **3236-06 V3.6.3**

| Flow Audits                        |                        |                         |                                  |
|------------------------------------|------------------------|-------------------------|----------------------------------|
| Flow Reference Standard Used:      | Model: <b>DeltaCal</b> | Serial No.: <b>1103</b> | Calibration Date: <b>3-16-17</b> |
| Temperature Standard Used:         | Model: <b>"</b>        | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |
| Barometric Pressure Standard Used: | Model: <b>"</b>        | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |

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

Ambient Temperature (°C):

As found: **18.7** **18.8**

As left: **19.7** **19.8**

Adjusted ☐

Barometric Pressure (mmHg):

As found: **687** **686.5**

As left: **687** **686.5**

Adjusted ☐

Flow Rate (15.0 LPM):

As found: **15.1** **15.17**

As left: **15.0** **15.00**

Adjusted ☒

Flow Rate (18.4 LPM):

As found: **18.4** **18.71**

As left: **18.4** **18.49**

Adjusted ☐

Flow Rate (16.7 LPM):

As found: **16.7** **16.93**

As left: **16.7** **16.77**

Adjusted ☒

Audit Notes: **Multiple Site Power Outages resulting in numerous power errors.**

## Mechanical Audits

|                                |                                               |                                              |                                        |                                               |                                              |     |                          |
|--------------------------------|-----------------------------------------------|----------------------------------------------|----------------------------------------|-----------------------------------------------|----------------------------------------------|-----|--------------------------|
| Pump muffler unclogged:        | As found: <input checked="" type="checkbox"/> | As left: <input type="checkbox"/>            | PM <sub>10</sub> particle trap clean:  | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| Sample nozzle clean:           | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | PM <sub>10</sub> drip jar empty:       | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| Tape support vane clean:       | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | PM <sub>10</sub> bug screen clear:     | As found: <input checked="" type="checkbox"/> | As left: <input type="checkbox"/>            | N/A | <input type="checkbox"/> |
| Capstan shaft clean:           | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | PM <sub>2.5</sub> particle trap clean: | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| Rubber pinch rollers clean:    | As found: <input type="checkbox"/>            | As left: <input checked="" type="checkbox"/> | Inlet tube water-tight seal OK:        | As found: <input checked="" type="checkbox"/> | As left: <input type="checkbox"/>            |     | <input type="checkbox"/> |
| Chassis ground wire installed: | As found: <input checked="" type="checkbox"/> | As left: <input type="checkbox"/>            | Inlet tube perpendicular to BAM:       | As found: <input checked="" type="checkbox"/> | As left: <input type="checkbox"/>            |     | <input type="checkbox"/> |

Signature: 

## **Appendix B – East Plant Audit Forms**

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# East Plant BAM-1020 PM<sub>10</sub> Audit Sheet



Model: **BAM-1020**

Serial Number: **M 8714**

Audit Date: **4-5-17**

Audited By: **R. ATTRENGE**

Audit Time: **1320**

Firmware: **3236-06 V3.6.3**

| Flow Audits                        |                         |                         |                                  |
|------------------------------------|-------------------------|-------------------------|----------------------------------|
| Flow Reference Standard Used:      | Model: <b>Delta Cal</b> | Serial No.: <b>1103</b> | Calibration Date: <b>3-16-17</b> |
| Temperature Standard Used:         | Model: <b>11</b>        | Serial No.: <b>11</b>   | Calibration Date: <b>11</b>      |
| Barometric Pressure Standard Used: | Model: <b>11</b>        | Serial No.: <b>11</b>   | Calibration Date: <b>11</b>      |

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

|                             | BAM                   | Ref. Std.    |          | BAM         | Ref. Std.    |                   |
|-----------------------------|-----------------------|--------------|----------|-------------|--------------|-------------------|
| Ambient Temperature (°C):   | as found: <b>19.5</b> | <b>22.0</b>  | as left: | <b>22.4</b> | <b>22.2</b>  | Adjusted <b>X</b> |
| Barometric Pressure (mmHg): | as found: <b>661</b>  | <b>655.0</b> | as left: | <b>655</b>  | <b>654.5</b> | Adjusted <b>X</b> |
| Flow Rate (15.0 LPM):       | as found: <b>15.1</b> | <b>15.30</b> | as left: | <b>15.0</b> | <b>15.19</b> | Adjusted <b>X</b> |
| Flow Rate (18.4 LPM):       | as found: <b>18.3</b> | <b>18.67</b> | as left: | <b>18.4</b> | <b>18.60</b> | Adjusted <b>X</b> |
| Flow Rate (16.7 LPM):       | as found: <b>16.7</b> | <b>17.00</b> | as left: | <b>16.7</b> | <b>16.66</b> | Adjusted <b>X</b> |

Audit Notes: **Multiple power errors reported**

## Mechanical Audits

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

Signature: **[Signature]**

# East Plant BAM-1020 PM<sub>2.5</sub> Audit Sheet

Model: **BAM-1020**

Serial Number: **M6466**

Audit Date: **4-5-17**

Audited By: **R. ATtridge**

Audit Time: **1328**

Firmware: **3236-06 V3.6.3**

| Flow Audits                        |                         |                         |                                  |
|------------------------------------|-------------------------|-------------------------|----------------------------------|
| Flow Reference Standard Used:      | Model: <b>Delta Cal</b> | Serial No.: <b>1103</b> | Calibration Date: <b>3-16-17</b> |
| Temperature Standard Used:         | Model: <b>"</b>         | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |
| Barometric Pressure Standard Used: | Model: <b>"</b>         | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |

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

Ambient Temperature (°C):

as found: **20.8** **19.9**

as left: **21.0** **21.0** Adjusted **X**

Barometric Pressure (mmHg):

as found: **654** **655.0**

as left: **655** **654.5** Adjusted

Flow Rate (15.0 LPM):

as found: **15.1** **15.12**

as left: **15.0** **15.22** Adjusted

Flow Rate (18.4 LPM):

as found: **18.4** **18.41**

as left: **18.4** **18.39** Adjusted **X**

Flow Rate (16.7 LPM):

as found: **16.7** **16.71**

as left: **16.7** **16.68** Adjusted **X**

Audit Notes: **Multiple power fail errors.**

## Mechanical Audits

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

Signature: **[Signature]**



**East Plant**  
O<sub>3</sub> Multipoint Audit  
Resolution Copper Mining



|                                 |                                                             |            |                               |             |
|---------------------------------|-------------------------------------------------------------|------------|-------------------------------|-------------|
| Operator:<br><i>R. ATTRIDGE</i> | Teledyne API T400 O <sub>3</sub> Analyzer S/N               | <i>224</i> | Multipoint Start Time         | <i>1525</i> |
|                                 | Teledyne API T700 Transfer Standard Dilution Calibrator S/N | <i>816</i> | Multipoint Stop Time          | <i>1620</i> |
| Date:<br><i>4-6-17</i>          |                                                             |            | T400 Analyzer Range           | <i>500</i>  |
|                                 |                                                             |            | Shelter Temperature (20-30°C) | <i>20.5</i> |

**Multipoint Audit (Quarterly, or as needed):**

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

Shelter Temperature Standard Measurement (°C): *21.3* ( $\pm 2^\circ\text{C}$  of the STD)

Temp. STD Model: *Delta Cal* S/N: *1103* Cal Date: *3-16-17*

Sample Flow Standard Measurement (cc/min): *755* ( $800 \pm 80$  cc/min)

Flow STD Model: *Bios 520* S/N: *115242* Cal Date: *8-22-16*

*Transfer Standard:*

| Target (ppb) | Actual Generated O <sub>3</sub> (ppb) | O <sub>3</sub> Response (ppb) | Best Fit Line (ppb) | Acceptable Criteria ( $\pm 2\%$ from BFL) |
|--------------|---------------------------------------|-------------------------------|---------------------|-------------------------------------------|
| Zero Air     | <i>20.20</i>                          | <i>0.6</i>                    | <i>0.1</i>          | <i>PASS, &lt; 2% FS</i>                   |
| 30           | <i>30</i>                             | <i>30.5</i>                   | <i>30.0</i>         | <i>PASS, 1.8%</i>                         |
| 60           | <i>60</i>                             | <i>59.0</i>                   | <i>59.8</i>         | <i>PASS, 1.3%</i>                         |
| 80           | <i>80</i>                             | <i>79.9</i>                   | <i>79.7</i>         | <i>PASS, 0.3%</i>                         |
| 100          | <i>100</i>                            | <i>99.8</i>                   | <i>99.6</i>         | <i>PASS, 0.2%</i>                         |
| 120          | <i>120</i>                            | <i>119.2</i>                  | <i>119.5</i>        | <i>PASS, 0.3%</i>                         |

Best Fit Line (BFL)

$$Y = 0.995x + 0.1$$

$$R^2 = 0.99998$$

**Analyzer Parameters**

|                                         |              |                                           |               |                                   |              |
|-----------------------------------------|--------------|-------------------------------------------|---------------|-----------------------------------|--------------|
| Sample Flow ( $800 \pm 80$ cc/min)      | <i>759</i>   | Sample Temp. (10 - 50°C)                  | <i>37.6</i>   | Zero Air Generator Pressure (psi) | <i>29.3</i>  |
| Photo Lamp ( $58 \pm 1^\circ\text{C}$ ) | <i>58</i>    | BOX Temp. (10 to 50°C)                    | <i>26.1</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.982</i> |
| Slope ( $1 \pm 0.15$ )                  | <i>1.017</i> | O <sub>3</sub> Measure (2500 - 4800 mV)   | <i>3523.9</i> |                                   |              |
| Offset ( $0.0 \pm 5$ ppb)               | <i>-3.8</i>  | O <sub>3</sub> Reference (2500 - 4800 mV) | <i>3525.4</i> |                                   |              |

\* Document actual value during span activities.

**Operator Comments:**

- ADJUSTED TIME DRIFT
- Calibrated FLOW TO THE FLOW STD  
AS FOUND = 759 cc/min, AS LEFT = 755

Operator Signature:

**East Plant**  
SO<sub>2</sub> Multipoint Audit  
Resolution Copper Mining



|                                 |                                                             |                 |                               |             |
|---------------------------------|-------------------------------------------------------------|-----------------|-------------------------------|-------------|
| Operator:<br><i>R. ATTRIDGE</i> | Teledyne API T100 SO <sub>2</sub> Analyzer S/N              | <i>193</i>      | Multipoint Start Time         | <i>1748</i> |
|                                 | Teledyne API T700 Transfer Standard Dilution Calibrator S/N | <i>816</i>      | Multipoint Stop Time          | <i>2110</i> |
| Date:<br><i>4.6.17</i>          | NIST-Traceable Gas Conc.                                    | <i>39.4 ppm</i> | T100 Analyzer Range           | <i>500</i>  |
|                                 |                                                             |                 | Shelter Temperature (20-30°C) | <i>23.1</i> |

**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): *22.4* (± 2 °C of the Standard)

Temp. STD Model: *DeltaCal* S/N: *1103* Cal Date: *3-16-17*

Analyzer Sample Flow Standard Measurement (cc/min): *619* (550 ± 10% cc/min)

Flow STD Model: *Bios 520* S/N: *115242* Cal Date: *8-22-16*

**Transfer Standard:**

| Target (ppb) | Actual Generated SO <sub>2</sub> (ppb) | SO <sub>2</sub> Response (ppb) | Best Fit Line (ppb) | Acceptable Criteria (± 2% from BFL) |
|--------------|----------------------------------------|--------------------------------|---------------------|-------------------------------------|
| Zero Air     | <i>2620</i>                            | <i>0.1</i>                     | <i>0.1</i>          | <i>PASS, &lt; 2% FS</i>             |
| 20           | <i>21</i>                              | <i>19.8</i>                    | <i>19.7</i>         | <i>PASS, 0.7%</i>                   |
| 40           | <i>41</i>                              | <i>40.1</i>                    | <i>40.2</i>         | <i>PASS, 0.2%</i>                   |
| 60           | <i>61</i>                              | <i>59.6</i>                    | <i>59.7</i>         | <i>PASS, 0.2%</i>                   |
| 80           | <i>81</i>                              | <i>79.8</i>                    | <i>79.2</i>         | <i>PASS, 0.7%</i>                   |
| 100          | <i>101</i>                             | <i>98.4</i>                    | <i>98.8</i>         | <i>PASS, 0.4%</i>                   |

Best Fit Line (BFL)

$$Y = 0.9767x + 0.1357$$

$$R^2 = 0.9991$$

**Analyzer Parameters**

|                          |               |                                   |             |                                   |              |
|--------------------------|---------------|-----------------------------------|-------------|-----------------------------------|--------------|
| Sample Flow (550 ± 10%)  | <i>619</i>    | Sample Press. (Ambient ± 2 in-Hg) | <i>25.8</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| UV Lamp (1000 - 4800 mV) | <i>4346.9</i> | Lamp Ratio (30 - 120%)            | <i>115%</i> | Span Gas Regulator Flow (psi)     | <i>20</i>    |
| Slope (1 ± 0.3)          | <i>1.423</i>  | BOX Temp. (Ambient ± 5°C)         | <i>28.0</i> | Zero Air Generator Pressure (psi) | <i>28.8</i>  |
| Offset (< 250 mV)        | <i>33.6</i>   | HVPS (400 - 900 V)                | <i>587</i>  | *Dilution Calibrator Flow (lpm)   | <i>3.999</i> |

\* Document actual value during span activities.

Operator Comments:

*Adjusted clock due to time drift -*

Operator Signature:



**East Plant**  
NO<sub>x</sub> Multipoint Audit  
Resolution Copper Mining



|                                 |                                                             |                 |                               |             |
|---------------------------------|-------------------------------------------------------------|-----------------|-------------------------------|-------------|
| Operator:<br><i>R. Artridge</i> | Teledyne API T200 NO <sub>x</sub> Analyzer S/N              | <i>197</i>      | Multipoint Start Time         | <i>1620</i> |
|                                 | Teledyne API T700 Transfer Standard Dilution Calibrator S/N | <i>816</i>      | Multipoint Stop Time          | <i>1748</i> |
| Date:<br><i>4-6-17</i>          | NIST-Traceable Audit Gas Conc.                              | <i>39.9 ppm</i> | T200 Analyzer Range           | <i>500</i>  |
|                                 |                                                             |                 | Shelter Temperature (20-30°C) | <i>19.4</i> |

**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): *20.8* (± 2 °C of the Standard)

Temp. STD Model: *Delta Cal* S/N: *1103* Cal Date: *3-16-17*

Analyzer Sample Flow Standard Measurement (cc/min): *466.6* (500 ± 50 cc/min)

Flow STD Model: *Bios 520* S/N: *115242* Cal Date: *8-22-16*

**Transfer Standard:**

| Target (PPB) | Actual Generated T200 (PPB) | NO Response | NO <sub>2</sub> Response | NO <sub>x</sub> Response | Best Fit Line | Acceptable Criteria (± 2% from BFL) |
|--------------|-----------------------------|-------------|--------------------------|--------------------------|---------------|-------------------------------------|
| Zero Air     | <i>ZERO</i>                 | <i>-0.1</i> | <i>-0.6</i>              | <i>-0.3</i>              | <i>-0.5</i>   | <i>PASS, 0 ± 5</i>                  |
| 20           | <i>21</i>                   | <i>21.3</i> | <i>-0.6</i>              | <i>20.9</i>              | <i>20.7</i>   | <i>PASS, 0.8%</i>                   |
| 40           | <i>41</i>                   | <i>41.3</i> | <i>-0.2</i>              | <i>41.6</i>              | <i>40.9</i>   | <i>PASS, 1.6%</i>                   |
| 60           | <i>61</i>                   | <i>59.8</i> | <i>-0.8</i>              | <i>59.9</i>              | <i>61.1</i>   | <i>PASS, 2%</i>                     |
| 80           | <i>81</i>                   | <i>79.8</i> | <i>0.3</i>               | <i>80.3</i>              | <i>81.3</i>   | <i>PASS, 1.2%</i>                   |
| 100          | <i>101</i>                  | <i>98.2</i> | <i>4.5</i>               | <i>102.7</i>             | <i>101.5</i>  | <i>PASS, 1.2%</i>                   |

Best Fit  
Line (BFL)

$$Y = 1.0092x - 0.4509$$

$$R^2 = 0.99939$$

**Analyzer Parameters**

|                                     |              |                        |              |                                   |              |
|-------------------------------------|--------------|------------------------|--------------|-----------------------------------|--------------|
| Sample Flow (500 ± 50 cc/min)       | <i>467</i>   | Moly Temp. (315 ± 5°C) | <i>315.3</i> | Span Gas Tank Pressure (psi)      | <i>1900</i>  |
| Ozone Flow (80 ± 15 cc/min)         | <i>80</i>    | HVPS (400 - 900 V)     | <i>744</i>   | Span Gas Regulator Flow (psi)     | <i>20.0</i>  |
| NO <sub>x</sub> Slope (1 ± 0.3)     | <i>1.268</i> | NO Slope (1 ± 0.3)     | <i>1.279</i> | Zero Air Generator Pressure (psi) | <i>28.9</i>  |
| NO <sub>x</sub> Offset (-20 to 150) | <i>2.4</i>   | NO Offset (-20 to 150) | <i>0.6</i>   | *Dilution Calibrator Flow (lpm)   | <i>3.999</i> |

\* Document actual value during span activities.

**Operator Comments:**

Operator Signature:

- *Adjusted time drift*
- *NOX SLOPE & NO SLOPE ARE AT THE UPPER LIMIT*

*R Artridge*

## **Appendix C – Far West Plant Audit Forms**

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# Far West BAM-1020 PM<sub>10</sub> Audit Sheet



Model: **BAM-1020**

Serial Number: **T 19137**

Audit Date: **4-5-17**

Audited By: **R. ATTRIDGE**

Audit Time: **1657-1721**

Firmware:

| Flow Audits                        |                         |                         |                                  |
|------------------------------------|-------------------------|-------------------------|----------------------------------|
| Flow Reference Standard Used:      | Model: <b>Delta Cal</b> | Serial No.: <b>1103</b> | Calibration Date: <b>3-16-17</b> |
| Temperature Standard Used:         | Model: <b>"</b>         | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |
| Barometric Pressure Standard Used: | Model: <b>"</b>         | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |

Leak Check Value: as found: **0.5** Should Be: **<1.0** as left: **0.4** Should Be: **<1.0**

Ambient Temperature (°C):

as found: **29.8** **29.5** as left: **28.7** **28.7** Adjusted **X**

Barometric Pressure (mmHg):

as found: **714** **712.5** as left: **713** **713.0** Adjusted **X**

Flow Rate (15.0 LPM):

as found: **15.0** **15.12** as left: **15.0** **15.13** Adjusted

Flow Rate (18.4 LPM):

as found: **18.4** **18.48** as left: **18.4** **18.55** Adjusted

Flow Rate (16.7 LPM):

as found: **16.7** **16.85** as left: **16.7** **16.73** Adjusted **X**

Audit Notes: **NONE**

## Mechanical Audits

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

Signature:

**R. Attridge**



# Far West BAM-1020 PM<sub>2.5</sub> Audit Sheet



Model: **BAM-1020**

Serial Number: **T19136**

Audit Date: **4-5-17**

Audited By: **R. ATTREDAE**

Audit Time: **1656-1730**

Firmware:

| Flow Audits                        |                         |                         |                                  |
|------------------------------------|-------------------------|-------------------------|----------------------------------|
| Flow Reference Standard Used:      | Model: <b>Delta Cal</b> | Serial No.: <b>1103</b> | Calibration Date: <b>3-16-17</b> |
| Temperature Standard Used:         | Model: <b>"</b>         | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |
| Barometric Pressure Standard Used: | Model: <b>"</b>         | Serial No.: <b>"</b>    | Calibration Date: <b>"</b>       |

Leak Check Value: as found: **0.6** Should Be: **<1.0** as left: **0.5** Should Be: **<1.0**

Ambient Temperature (°C):

as found: **31.0** **28.7** as left: **28.4** **28.7** Adjusted **X**

Barometric Pressure (mmHg):

as found: **712** **713.0** as left: **713** **713.0** Adjusted **X**

Flow Rate (15.0 LPM):

as found: **15.0** **15.06** as left: **15.0** **15.19** Adjusted

Flow Rate (18.4 LPM):

as found: **18.4** **18.32** as left: **18.4** **18.42** Adjusted

Flow Rate (16.7 LPM):

as found: **16.7** **16.68** as left: **16.7** **16.72** Adjusted

Audit Notes: **NONE**

## Mechanical Audits

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

Signature:

**Attredae**



## **Appendix D – Hewitt Station Audit Forms**

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**Hewitt Station**  
SoDAR System Audit  
Resolution Copper Company

Date: 4-5-17 Time: 1540 Auditor: ATTREIDGE

**SoDAR System**

|                          |                            |
|--------------------------|----------------------------|
| Instrument               | ASC SoDAR                  |
| Instrument Model         | WE 4000                    |
| Instrument Serial Number | 3002                       |
| Rotation Angle Measured  | 105°                       |
| Declination              | 10° EAST                   |
| Latitude/Longitude (Deg) | Lat 33.2978/Long -111.2114 |
| Elevation (ft)           | 2,236                      |

**SoDAR System Status**

| SoDAR System                 | System Status As Found   | System Status As Left    |
|------------------------------|--------------------------|--------------------------|
| Battery Voltage (V)          | 13.15                    | 13.18                    |
| Ambient Temp °C              | 20.0                     | 29.7                     |
| Heater ON or OFF as Found    | OFF                      | OFF                      |
| Generator ON or OFF as Found | OFF                      | OFF                      |
| Rain Detection YES or NO     | NO                       | NO                       |
| Snow Detection YES or NO     | NO                       | NO                       |
| Antenna Status               | OK                       | OK                       |
| Speaker Array                | OK                       | OK                       |
| Rotation Angle               | 105°                     | 105°                     |
| System Level (< 0.5°)        | P=0.2 R=0.1              | P=0.1 R=0.1              |
| Fuel Level                   | Empty   1/4 1/2 3/4 Full | Empty   1/4 1/2 3/4 Full |
| Date / Time                  | 4-5-17 / 1540            | 4-5-17 / 1600            |

## 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                              |

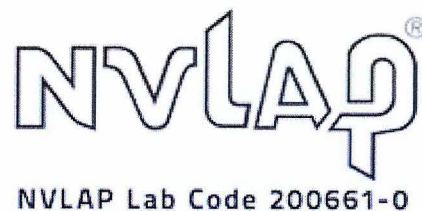
Comments/Unusual Occurrences: *SoDAR GENERATOR IS OUT OF SERVICE due to Rodent damage.*

Auditor Signature: \_\_\_\_\_



## **Appendix E – Standards and Certifications**

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## Calibration Certificate

**CertificateNo.** 112196  
**Product** 200-520M Defender 520 Medium Flow  
**Serial No.** 115242  
**Cal. Date** 22-Aug-2016

**Sold To:** Air Sciences, Inc.  
17301 W Colfax Ave  
Golden, CO 80401  
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

**Technician** Sonia Otero  
**Lab. Pressure** mmHg  
**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 |
|-----------------------|------------------------|------------------|----------------------|
| Precision Thermometer |                        |                  |                      |
| Precision Barometer   |                        |                  |                      |

## As Shipped Calibration Data

|                       |             |                         |          |
|-----------------------|-------------|-------------------------|----------|
| <b>Certificate No</b> | 112196      | <b>Lab. Pressure</b>    | 753 mmHg |
| <b>Technician</b>     | Sonia Otero | <b>Lab. Temperature</b> | 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          |
| Precision 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 °C.

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





## CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number: **1103**

DATE: 15-Mar-2017

Calibration Operator: P.Pitty

**Critical Venturi Flow Meter:** Max Uncertainty = 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: 23.5 °C

Brand: Telatemp Serial Number: 300907

Std Cal Date 18-May-16 Std Cal Due Date 18-May-17

deltaCal:

Ambient Temperature (set): 23.5 °C

Aux (filter) Temperature (set): 23.5 °C

### Barometric Pressure and Absolute Pressure

Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%

Serial Number: H0850001

Std Cal Date 28-Mar-16 Std Cal Due Date 28-Mar-17

deltaCal:

Barometric pressure (set): 740.5 mm of Hg

### Results of Venturi Calibration

Flow Rate (Q) vs. Pressure Drop ( $\Delta P$ ).

Where: Q=Lpm,  $\Delta P$ = Cm of H<sub>2</sub>O

Q= 4.01148  $\Delta P$  ^ 0.51440

Overall Uncertainty: 0.35%

Q= 3.91723  $\Delta P$  ^ 0.52103

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)

**To Check a deltaCal****1.5-19.5****VER 4.00P****15-Mar-17 P.Pitty**BP= **740.5** mm of Hg

Maximum allowable error at any flow rate is .75%.

**Serial No. 1103**

|           | Reading     |       | CV     |           |         |
|-----------|-------------|-------|--------|-----------|---------|
|           | Abs. P      |       | Qa     | Qa        |         |
|           | Crit. Vent. | Room  | Flow   | deltaCal  |         |
|           | mm of Hg    | Temp  | Lpm    | Indicated | % Error |
| # 2       | 134.27      | 23.50 | 1.535  | 1.537     | 0.15    |
|           | 221.28      | 23.50 | 2.561  | 2.563     | 0.08    |
|           | 300.64      | 23.50 | 3.497  | 3.495     | -0.06   |
|           | 510.43      | 23.60 | 5.974  | 5.968     | -0.10   |
|           | 565.09      | 23.60 | 6.619  | 6.626     | 0.11    |
| #1        | 182.70      | 24.00 | 7.383  | 7.410     | 0.36    |
|           | 253.48      | 24.00 | 10.304 | 10.315    | 0.11    |
|           | 332.03      | 24.00 | 13.545 | 13.549    | 0.03    |
|           | 405.30      | 24.00 | 16.568 | 16.572    | 0.02    |
|           | 476.52      | 24.00 | 19.507 | 19.547    | 0.21    |
| Average % |             |       |        |           | 0.09    |

DocNumber: 000104735

Praxair  
5700 South Alameda Street  
Los Angeles, CA 90058  
Tel: (323) 585-2154 Fax: (714) 542-6689  
PGVPID: F22017

# CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

## Customer & Order Information:

PRAXAIR PKG PHOENIX AZ HS  
3918 W LINCOLN ST  
PHOENIX AZ 85009

Praxair Order Number: 70193533  
Customer P. O. Number:  
Customer Reference Number:

Fill Date: 2/18/2017  
Part Number: EV NINOSDE250AS  
Lot Number: 109704902  
Cylinder Style & Outlet: AS CGA 660  
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

## Certified Concentration:

|                  |                |                         |
|------------------|----------------|-------------------------|
| Expiration Date: | 3/2/2020       | NIST Traceable          |
| Cylinder Number: | CC362426       | Analytical Uncertainty: |
| 39.9 ppm         | NITRIC OXIDE   | ± 0.7 %                 |
| 39.4 ppm         | SULFUR DIOXIDE | ± 1 %                   |
| Balance          | NITROGEN       |                         |

NOx = 40.0 ppm

NOx for Reference Only

Certification Information: Certification Date: 3/2/2017 Term: 36 Months Expiration Date: 3/2/2020

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

## Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

### 1. Component: NITRIC OXIDE

Requested Concentration: 40 ppm  
Certified Concentration: 39.9 ppm  
Instrument Used: Thermo Electron 42i-LS S/N 1030645077  
Analytical Method: Chemiluminescence  
Last Multipoint Calibration: 2/16/2017

|                                   |                  |           |
|-----------------------------------|------------------|-----------|
| First Analysis Data:              | Date:            | 2/23/2017 |
| Z: 0 R: 50.8 C: 39.7 Conc: 39.677 |                  |           |
| R: 50.8 Z: 0 C: 39.7 Conc: 39.677 |                  |           |
| Z: 0 C: 39.8 R: 50.8 Conc: 39.776 |                  |           |
| UOM: ppm                          | Mean Test Assay: | 39.71 ppm |

Reference Standard Type: GMIS  
Ref. Std. Cylinder #: CC30828  
Ref. Std. Conc: 50.77 ppm  
Ref. Std. Traceable to SRM #: vs. 1683b  
SRM Sample #: 45-V-42  
SRM Cylinder #: CAL017897

|                                   |                  |            |
|-----------------------------------|------------------|------------|
| Second Analysis Data:             | Date:            | 3/2/2017   |
| Z: 0 R: 50.8 C: 40.2 Conc: 40.176 |                  |            |
| R: 50.8 Z: 0 C: 40 Conc: 39.976   |                  |            |
| Z: 0 C: 40 R: 50.8 Conc: 39.976   |                  |            |
| UOM: ppm                          | Mean Test Assay: | 40.043 ppm |

### 2. Component: SULFUR DIOXIDE

Requested Concentration: 40 ppm  
Certified Concentration: 39.4 ppm  
Instrument Used: Ametek 921CE S/N AW-921-S321  
Analytical Method: Ultraviolet Absorption  
Last Multipoint Calibration: 2/14/2017

|                                   |                  |            |
|-----------------------------------|------------------|------------|
| First Analysis Data:              | Date:            | 2/23/2017  |
| Z: 0 R: 48.3 C: 39.3 Conc: 39.501 |                  |            |
| R: 48.4 Z: 0 C: 39.3 Conc: 39.501 |                  |            |
| Z: 0 C: 39.2 R: 48.3 Conc: 39.4   |                  |            |
| UOM: ppm                          | Mean Test Assay: | 39.467 ppm |

Reference Standard Type: NTRM  
Ref. Std. Cylinder #: CC72593  
Ref. Std. Conc: 48.58 ppm  
Ref. Std. Traceable to SRM #: n/a  
SRM Sample #: 12070103  
SRM Cylinder #: N/A

|                                   |                  |            |
|-----------------------------------|------------------|------------|
| Second Analysis Data:             | Date:            | 3/2/2017   |
| Z: 0 R: 48.5 C: 39.3 Conc: 39.365 |                  |            |
| R: 48.5 Z: 0 C: 39.3 Conc: 39.365 |                  |            |
| Z: 0 C: 39.3 R: 48.5 Conc: 39.365 |                  |            |
| UOM: ppm                          | Mean Test Assay: | 39.365 ppm |

Analyzed by:

Henry Kung

Certified by:

Jack Furr

Primary STD   
Cal GAS

DocNumber: 000104736

Praxair  
5700 South Alameda Street  
Los Angeles, CA 90058  
Tel: (323) 585-2154 Fax: (714) 542-6689  
PGVPID: F22017

## CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

### Customer & Order Information:

PRAXAIR PKG PHOENIX AZ HS  
3918 W LINCOLN ST  
PHOENIX AZ 85009

Praxair Order Number: 70193533  
Customer P. O. Number:  
Customer Reference Number:

Fill Date: 2/18/2017  
Part Number: EV NINOSDE250AS  
Lot Number: 109704902  
Cylinder Style & Outlet: AS CGA 660  
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

### Certified Concentration:

|                  |                |                         |
|------------------|----------------|-------------------------|
| Expiration Date: | 3/2/2020       | NIST Traceable          |
| Cylinder Number: | CC3509         | Analytical Uncertainty: |
| 40.3 ppm         | NITRIC OXIDE   | ± 0.7 %                 |
| 39.8 ppm         | SULFUR DIOXIDE | ± 1 %                   |
| Balance          | NITROGEN       |                         |

NOx = 40.4 ppm

NOx for Reference Only

Certification Information: Certification Date: 3/2/2017 Term: 36 Months Expiration Date: 3/2/2020

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

### Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

#### 1. Component: NITRIC OXIDE

Requested Concentration: 40 ppm  
Certified Concentration: 40.3 ppm  
Instrument Used: Thermo Electron 42i-LS S/N 1030645077  
Analytical Method: Chemiluminescence  
Last Multipoint Calibration: 2/16/2017

|                      |      |                  |           |
|----------------------|------|------------------|-----------|
| First Analysis Data: |      | Date:            | 2/23/2017 |
| Z:                   | 0    | R:               | 50.8      |
| R:                   | 50.8 | Z:               | 0         |
| Z:                   | 0    | C:               | 40.2      |
| C:                   | 40.2 | R:               | 50.8      |
| UOM:                 | ppm  | Mean Test Assay: | 40.21 ppm |

Reference Standard Type: GMIS  
Ref. Std. Cylinder #: CC30828  
Ref. Std. Conc: 50.77 ppm  
Ref. Std. Traceable to SRM #: vs. 1683b  
SRM Sample #: 45-V-42  
SRM Cylinder #: CAL017897

|                       |      |                  |            |
|-----------------------|------|------------------|------------|
| Second Analysis Data: |      | Date:            | 3/2/2017   |
| Z:                    | 0    | R:               | 50.8       |
| R:                    | 50.8 | Z:               | 0          |
| Z:                    | 0    | C:               | 40.4       |
| C:                    | 40.4 | R:               | 50.8       |
| UOM:                  | ppm  | Mean Test Assay: | 40.443 ppm |

#### 2. Component: SULFUR DIOXIDE

Requested Concentration: 40 ppm  
Certified Concentration: 39.8 ppm  
Instrument Used: Ametek 921CE S/N AW-921-S321  
Analytical Method: Ultraviolet Absorption  
Last Multipoint Calibration: 2/14/2017

|                      |      |                  |            |
|----------------------|------|------------------|------------|
| First Analysis Data: |      | Date:            | 2/23/2017  |
| Z:                   | 0    | R:               | 48.3       |
| R:                   | 48.4 | Z:               | 0          |
| Z:                   | 0    | C:               | 39.6       |
| C:                   | 39.6 | R:               | 48.3       |
| UOM:                 | ppm  | Mean Test Assay: | 39.836 ppm |

Reference Standard Type: NTRM  
Ref. Std. Cylinder #: CC72593  
Ref. Std. Conc: 48.58 ppm  
Ref. Std. Traceable to SRM #: n/a  
SRM Sample #: 12070103  
SRM Cylinder #: N/A

|                       |      |                  |            |
|-----------------------|------|------------------|------------|
| Second Analysis Data: |      | Date:            | 3/2/2017   |
| Z:                    | 0    | R:               | 48.5       |
| R:                    | 48.5 | Z:               | 0          |
| Z:                    | 0    | C:               | 39.8       |
| C:                    | 39.8 | R:               | 48.5       |
| UOM:                  | ppm  | Mean Test Assay: | 39.832 ppm |

Analyzed by:

Henry Kojing

Certified by:

Jack Fufu



## 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 ( $\leq 1\%$ ) |
|-------|----------|----------------------------|
| 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    |
|------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|---------|
|  | 2-13-17 |  | 2-13-17 |