

REPORT N° 151-63724-00

AMBIENT AIR QUALITY MONTHLY REPORT

JANUARY 2017

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JANUARY 2017

Lafarge Canada Inc.

Project no: 151-63724-00
Date: January 2017

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Project Number: 151-63724-00

February 23, 2017

Janet Brygger
Lafarge Canada Inc.
Highway 1A
Exshaw, AB T0L 2C0

Dear Ms. Brygger,

Subject: Ambient Air Quality Monthly Report – January 2017

The operational uptime for all analyzers and meteorological systems at the Lagoon station was 100% in January. There were no contraventions of the 24-hour TSP and PM_{2.5} Alberta Ambient Air Quality Objectives (AAAQOs) in January at the Lagoon monitoring location.

Data collected at all of the GRIMM monitors are considered Industrial Ambient Monitors and are meant for assessing the performance of Lafarge Exshaw's Fugitive Dust Control Best Management Practices – Program. All four GRIMM monitors had operational uptime of 100%. The Entrance GRIMM monitor exceeded the TSP AAAQO for 21 days while the West GRIMM monitor had no AAAQO exceedances during the month of January. The Berm GRIMM had 15 exceedances of the TSP objective.

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements.

Sincerely,

Tyler Abel, M.Sc.
Group Manager, Air Quality
Environment

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APPENDIX A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon monitoring location and the GRIMM monitors in Exshaw, AB. The station is operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and is a requirement of Lafarge's Approval 1702-02-04. This report contains data collected between January 1, 2016 and January 31, 2017.

January's monthly report was prepared by Byeong Kim, an Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Tyler Abel, Manager of Air Quality and Air Quality Specialist at WSP.

2 JANUARY 2017 REPORT SUMMARY

This summary section provides the pertinent details on data collected and maintenance/calibration activities at each of the monitoring locations. The monitoring results for the stations are described in further detail in their corresponding sections. Maximum hourly concentrations are shown for all particulate matter size fractions, but there are no Alberta Ambient Air Quality Objectives (AAAQO) for 1-hour PM concentrations.

2.1 LAGOON STATION

Table 2-1 Lagoon station data summary

| Parameter | Data Completeness (%) | 1-Hour Average | | 24-hour Average | |
|--|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|
| | | Maximum Concentration | Exceedances of AAAQO or AAAQG | Maximum Concentration | Exceedances of AAAQO |
| NO ₂ (ppb) | 100.0 | 38.3 | 0 | 23.7 | - |
| SO ₂ (ppb) | 100.0 | 4.9 | 0 | 1.1 | 0 |
| PM _{2.5} (µg/m ³) | 100.0 | 25.7 | - | 12.9 | 0 |
| PM ₁₀ (µg/m ³) | 100.0 | 167.3 | - | 53.1 | - |
| TSP (µg/m ³) | 100.0 | 272.4 | - | 84.2 | 0 |
| Temperature (°C) | 100.0 | 10.6 | - | 8.1 | - |
| Wind Speed (km/hr) /Direction | 100.0 | 50.5/W | - | 38.3/WSW | - |
| Precipitation (mm) | 100.0 | 0.3 | - | 0.3 | - |

Data Quality Notes:

→ There were no exceedances of any AAAQOs.

Calibration/Maintenance Notes:

→ The monitors had 100% uptime for the month.

2.2 WEST GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their Fugitive Dust Control Best Management Practices – Program (FDCBMP-P). The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P.

Table 2-2 West station data summary

| Parameter | Data Completeness (%) | 1-Hour Average | | 24-hour Average | |
|--|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------|
| | | Maximum Concentration | Exceedances of Guidelines | Maximum Concentration | Exceedances of Guidelines |
| PM _{2.5} (µg/m ³) | 100.0 | 34.7 | - | 13.3 | 0 |
| PM ₁₀ (µg/m ³) | 100.0 | 157.2 | - | 24.4 | - |
| TSP (µg/m ³) | 100.0 | 420.8 | - | 51.6 | 0 |

Data Quality Notes:

→ There were no exceedances of Guidelines.

Calibration/Maintenance Notes:

→ The monitor had 100% uptime for the month.

2.3 BERM GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their FDCBMP-P. The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P.

Table 2-3 Berm station data summary

| Parameter | Data Completeness (%) | 1-Hour Average | | 24-hour Average | |
|--|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------|
| | | Maximum Concentration | Exceedances of Guidelines | Maximum Concentration | Exceedances of Guidelines |
| PM _{2.5} (µg/m ³) | 100.0 | 114.2 | - | 22.5 | 0 |
| PM ₁₀ (µg/m ³) | 100.0 | 1207.2 | - | 210.6 | - |
| TSP (µg/m ³) | 100.0 | 3449.8 | - | 791.5 | 15 |

Data Quality Notes:

→ There were 15 exceedances of the 24-hour TSP Guideline.

Calibration/Maintenance Notes:

→ The monitor had 100% uptime for the month.

2.4**ENTRANCE GRIMM**

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their FDCBMP-P. The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P.

Table 2-4 Entrance station data summary

| Parameter | Data Completeness (%) | 1-Hour Average | | 24-hour Average | |
|--|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------|
| | | Maximum Concentration | Exceedances of Guidelines | Maximum Concentration | Exceedances of Guidelines |
| PM _{2.5} (µg/m ³) | 100.0 | 103.1 | - | 17.2 | 0 |
| PM ₁₀ (µg/m ³) | 100.0 | 506.1 | - | 156.1 | - |
| TSP (µg/m ³) | 100.0 | 2156.5 | - | 637.2 | 21 |

Data Quality Notes:

→ There were 21 exceedances of the 24-hour TSP Guideline.

Calibration/Maintenance Notes:

→ The monitor had 100% uptime for the month.

3**LAGOON STATION**

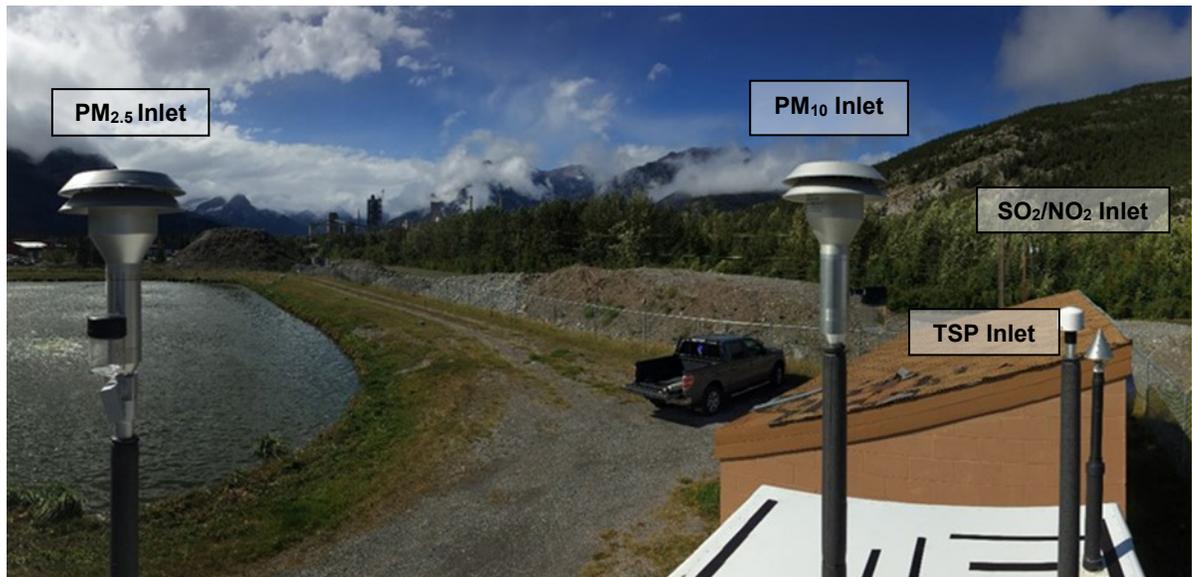
The Lagoon trailer contains NO_x, SO₂, TSP, PM₁₀, and PM_{2.5} analyzers as well as meteorological sensors, and is shown in Figure 3-1. An ambient air quality station has been at this location since 2002, providing a long-term data record for air quality in the Exshaw area.

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), site visit notes, a wind rose (Figure 3-3) and tables and graphs illustrating the monitoring results for January 2017.

All of the monitors comply with Alberta Environment and Parks Air Monitoring Directive (2016).

Table 3-1 Instrumentation List at the Lagoon Station

| Equipment Description | Parameter Measured |
|--|----------------------------------|
| MetOne BAM-1020 FRM Continuous Particulate Monitor | PM _{2.5} Concentrations |
| MetOne BAM-1020 Continuous Particulate Monitor | PM ₁₀ Concentrations |
| MetOne BAM-1020 Continuous Particulate Monitor | TSP Concentrations |
| TEI 42C | Oxides of Nitrogen |
| Teledyne API 102A | Sulphur Dioxide |
| MetOne 130 Rain/Snow Gauge | Precipitation |
| MetOne Wind Sensor | Wind Speed |
| | Wind Direction |
| MetOne Ambient Temperature Sensor | Ambient Temperature |

**Figure 3-1 Inlets on the top of WSP's Lagoon monitor**

3.1 SITE VISIT NOTES

A summary of site visit notes for each of the monitors is provided in this section.

3.1.1 NO_x MONITORING

The NO_x monitor underwent monthly calibration on January 20th, 2017 and had 100% uptime.

3.1.2 SO₂ MONITORING

The SO₂ monitor underwent monthly calibration January 20th, 2017 and had 100% uptime.

3.1.3 PM MONITORING

BAMs monthly calibration was conducted on January 31st, 2017. The BAM monitors had 100% uptime for the month.

3.1.4 METEOROLOGICAL MONITORING

All of the meteorological instruments (wind speed, wind direction, relative humidity, pressure, and precipitation) had an uptime of 100% for the month of January.

3.2 MONITORING RESULTS AND TRENDS

The following wind rose (Figure 3-3) illustrates the frequency of wind speed by wind direction for the month of January 2017. Table 3-2 summarizes the hourly and daily concentrations recorded in January 2017. Figure 3-4 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-5 shows daily average concentrations recorded during January 2017 for the pollutants listed in Table 3-2.

Since flooding in 2013, the Municipal District has built up stockpiles of dirt on the far western edge of the wastewater treatment facility. During the summer of 2016, the Municipal District has planted grass seed on these stockpiles in an effort to reduce the amount of fugitive dust generated. Figure 3-2 shows the extent of the grass planted by the MD.



Figure 3-2 Grass planted on the stockpiles near the Lagoon monitor. Photo taken July 12, 2016.

The wind rose (Figure 3-3) indicates that the winds predominantly came from the west. The wind rose for January 2017 follows the general orientation of the valley. When the winds were blowing from the west, they tended to be higher while the winds from the east tended to be lighter (less than 20 km/hr).

Table 3-2 Summary of January 2017 data at Lagoon

| Parameter | Objectives | | Station | Exceedances | | Monthly Average | 1-hour | | | | | 24-hour | | Operational Time (Percent) |
|--|------------|-------|---------|-------------|-------|-----------------|---|-----|------|--------------------|--------------------------|---|-----|----------------------------|
| | 1-hr | 24-hr | | 1-hr | 24-hr | | Maximum Concentration/ Meteorological Variable | Day | Hour | Wind Speed (km/hr) | Wind Direction (degrees) | Maximum Concentration/ Meteorological Variable | Day | |
| NO ₂ (ppb) | 159 | - | Lagoon | 0 | - | 7.8 | 38.3 | 2 | 18 | 1.5 | 286.1 | 23.7 | 2 | 100.0 |
| SO ₂ (ppb) | 172 | 48 | Lagoon | 0 | 0 | 0.1 | 4.9 | 9 | 2 | 24.7 | 79.8 | 1.1 | 17 | 100.0 |
| PM _{2.5} (µg/m ³) | - | 30 | Lagoon | - | 0 | 3.3 | 25.7 | 3 | 14 | 10.3 | 226.0 | 12.9 | 9 | 100.0 |
| PM ₁₀ (µg/m ³) | - | - | Lagoon | - | - | 22.5 | 167.3 | 29 | 8 | 46.4 | 260.2 | 53.1 | 29 | 100.0 |
| TSP (µg/m ³) | - | 100 | Lagoon | - | 0 | 29.4 | 272.4 | 26 | 23 | 28.3 | 280.6 | 84.2 | 26 | 100.0 |
| Temperature (°C) | - | - | Lagoon | - | - | -7.9 | 10.6 | 17 | 13 | 41.1 | 251.0 | 8.1 | 29 | 100.0 |
| Wind Speed/Direction | - | - | Lagoon | - | - | 20.3 | 50.5/W | 18 | 7 | 50.5 | 253.3 | 38.3/WSW | 17 | 100.0 |
| Precipitation (mm) | - | - | Lagoon | - | - | 0.0 | 0.3 | | | | | 0.3 | 1 | 100.0 |

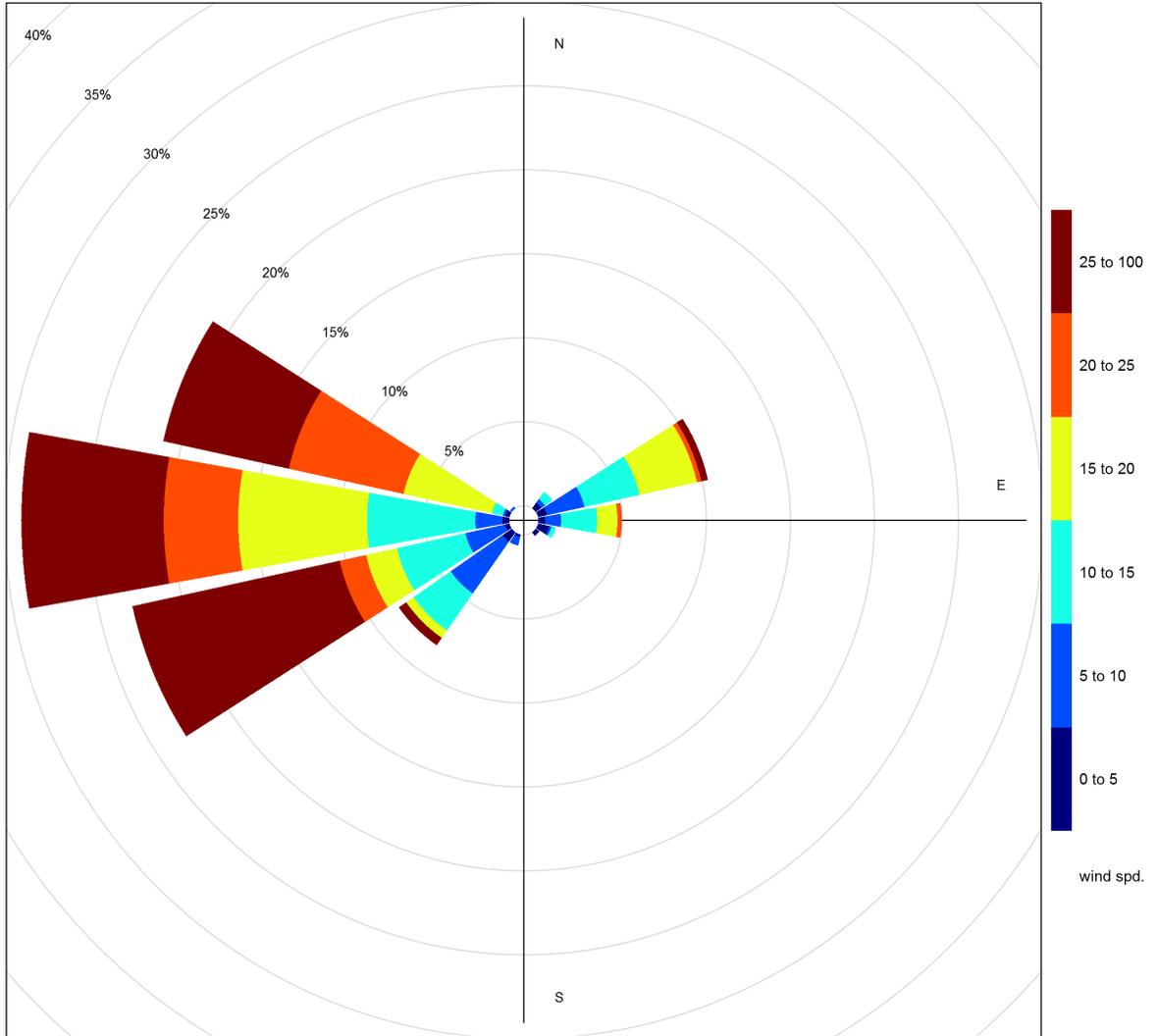


Figure 3-3 January 2017 wind rose from the Lagoon Station

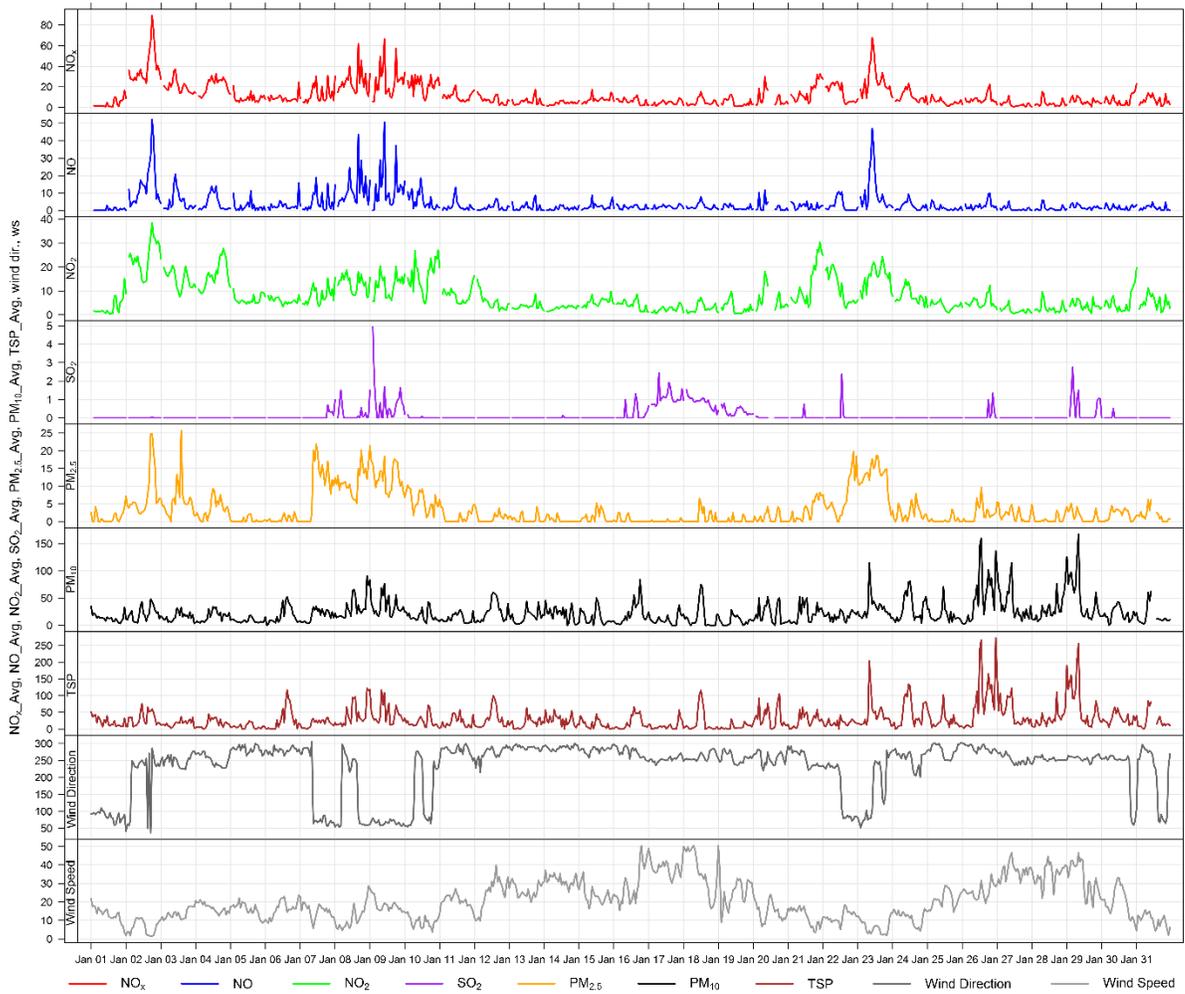


Figure 3-4 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon monitor

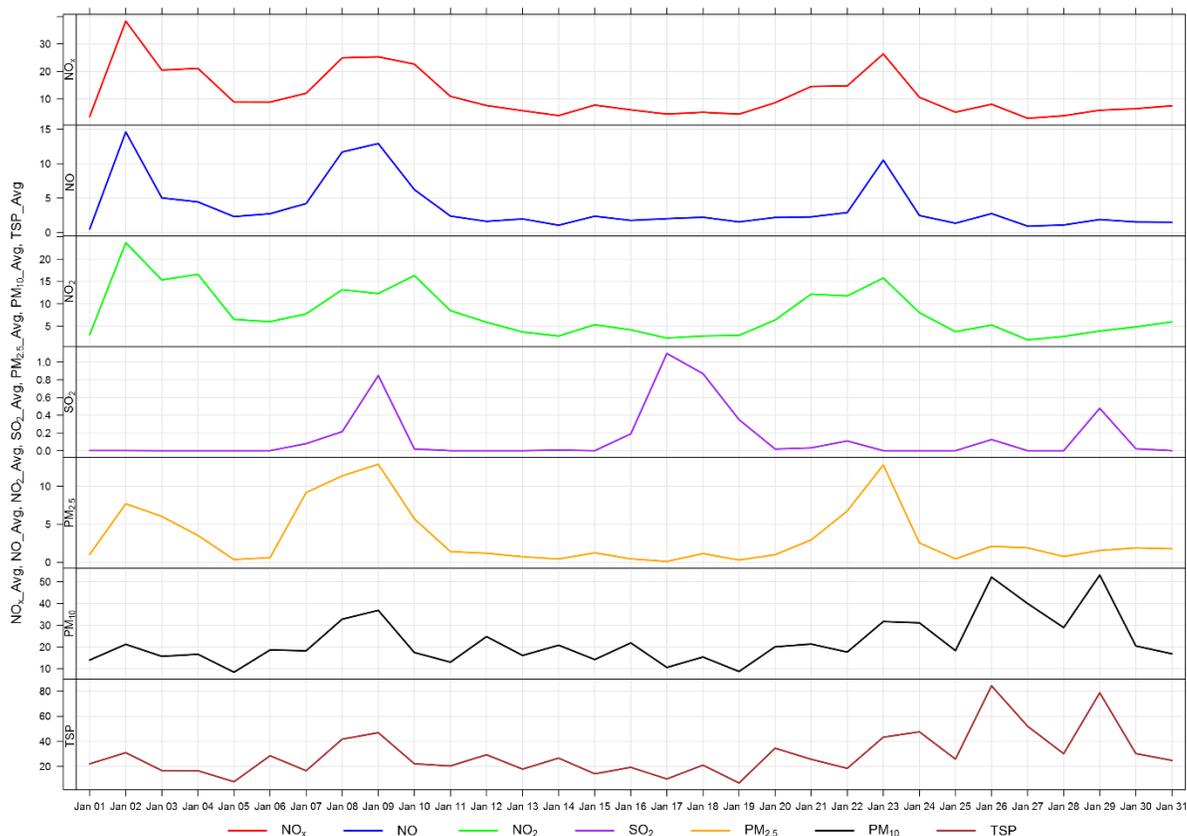


Figure 3-5 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

Figure 3-6 through Figure 3-8 show the variation in concentrations over various time averaging periods for PM, SO₂ and NO_x. The particulate matter plot in Figure 3-6 shows that PM₁₀ and TSP concentrations tended to rise through the morning before peaking around noon and decreasing during the afternoon and evening. PM₁₀ and TSP are generally associated with dust from fugitive sources.

Figure 3-7 shows the variation of SO₂ over various time periods. SO₂ concentrations were extremely low in January. Figure 3-8 shows the variation of NO_x, NO and NO₂, with the peak of all three pollutants occurring in the morning between 6 am and noon and a secondary peak occurring in the evening. This may be indicative of peaks in traffic.

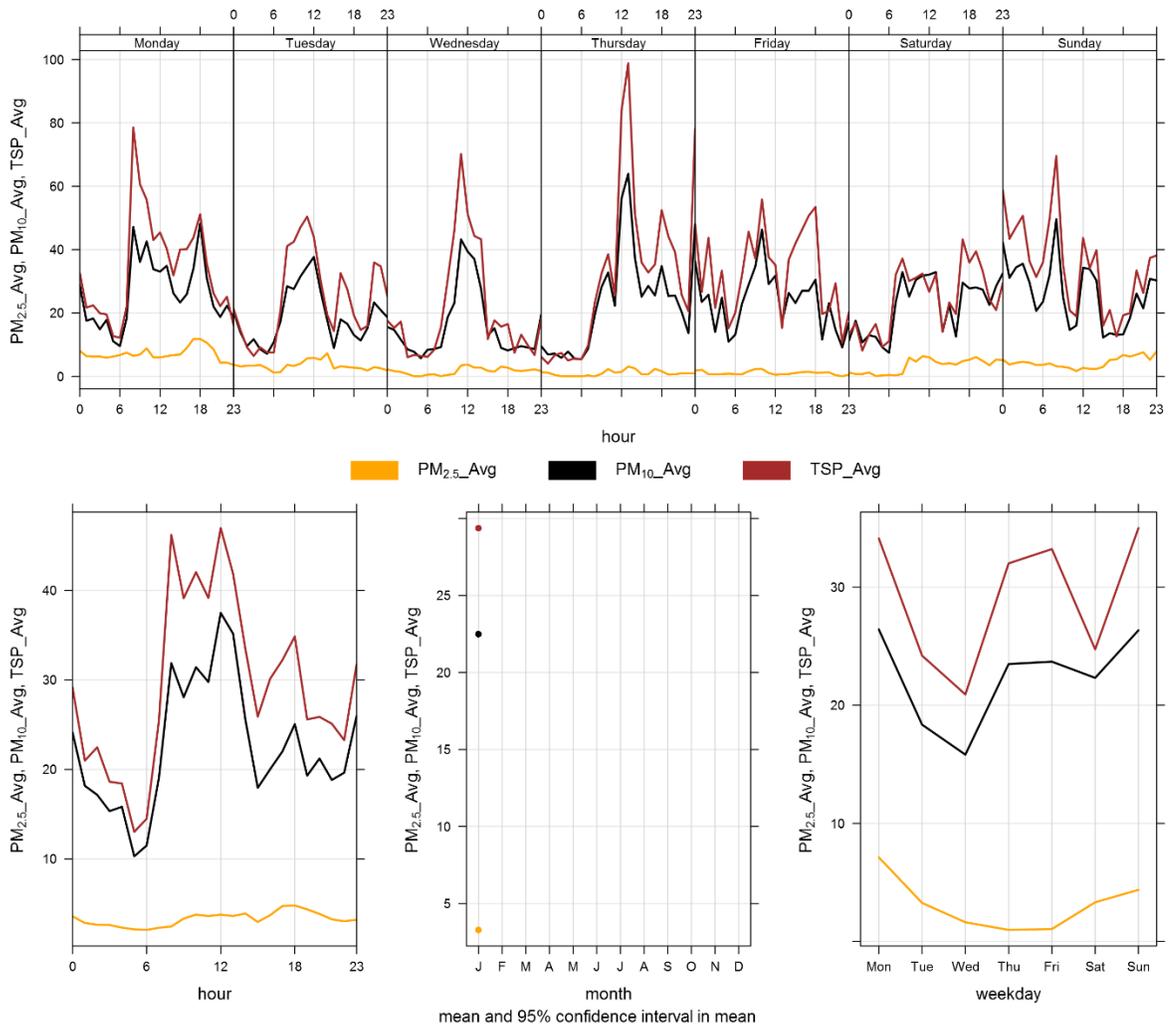


Figure 3-6 Lagoon Monitor particulate matter time variation

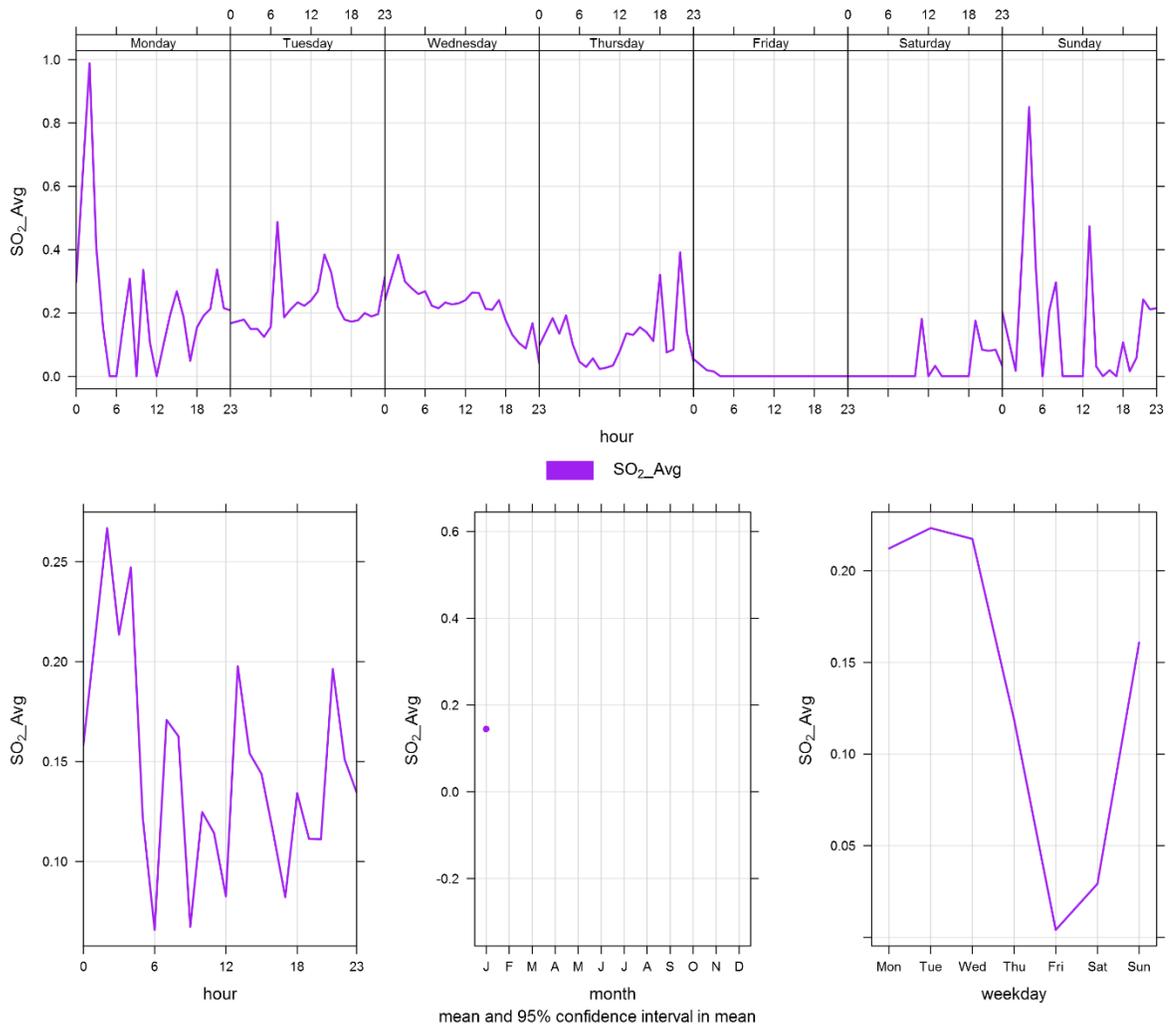


Figure 3-7 Lagoon Monitor SO₂ time variation

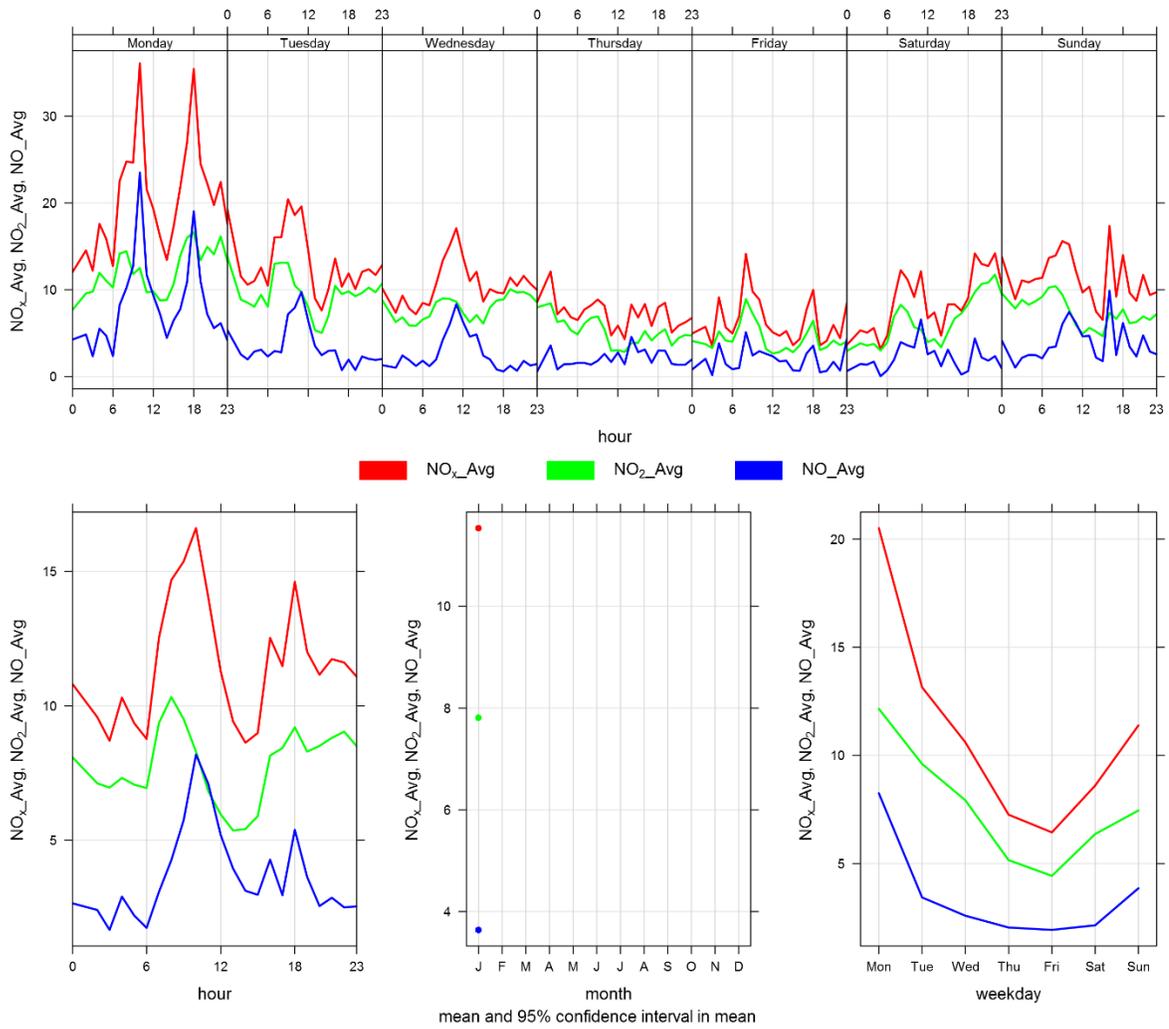


Figure 3-8 Lagoon Monitor NO_x time variation

4 WEST GRIMM

4.1 SITE VISIT NOTES

Table 4-1 indicates the equipment that is installed at the West monitoring location. During the month of January, the West GRIMM had 100% uptime.

Table 4-1 Equipment at the West monitoring location

| Equipment Description | Parameter Measured |
|--|---|
| GRIMM 365 Continuous Particulate Monitor | PM _{2.5} , PM ₁₀ , TSP Concentrations |

4.2 MONITORING RESULTS AND TRENDS

The West GRIMM was installed in its current location in order to monitor “background” PM concentrations since the predominant wind pattern is from west to east in the valley. As indicated in Figure 3-3, the majority of winds came from the west during January. Table 4-2 summarizes the maximum 1-hour and 24-hour concentrations recorded over the course of the month.

Figure 4-1 and Figure 4-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. There were no recorded exceedances of the 24-hour PM_{2.5} (30 µg/m³) or 24-hour TSP Guidelines (100 µg/m³).

Table 4-2 Summary of January 2017 data at the West GRIMM

| Parameter | Guideline | | Station | Exceedances | | Monthly Average | Maximum 1-hour | | | | | Maximum 24-hour | | Operational Time (Percent) |
|--|-----------|-------|---------|-------------|-------|-----------------|-----------------------|-----|------|--------------------|--------------------------|-----------------------|-----|----------------------------|
| | 1-hr | 24-hr | | 1-hr | 24-hr | | Maximum Concentration | Day | Hour | Wind Speed (km/hr) | Wind Direction (degrees) | Maximum Concentration | Day | |
| PM _{2.5} (µg/m ³) | - | 30 | West | - | 0 | 4.2 | 34.7 | 7 | 12 | 16.1 | 67.5 | 13.3 | 23 | 100.0 |
| PM ₁₀ (µg/m ³) | - | - | West | - | - | 8.8 | 157.2 | 30 | 10 | 30.2 | 252.6 | 24.4 | 30 | 100.0 |
| TSP (µg/m ³) | - | 100 | West | - | 0 | 15.9 | 420.8 | 16 | 13 | 22.9 | 287.7 | 51.6 | 16 | 100.0 |

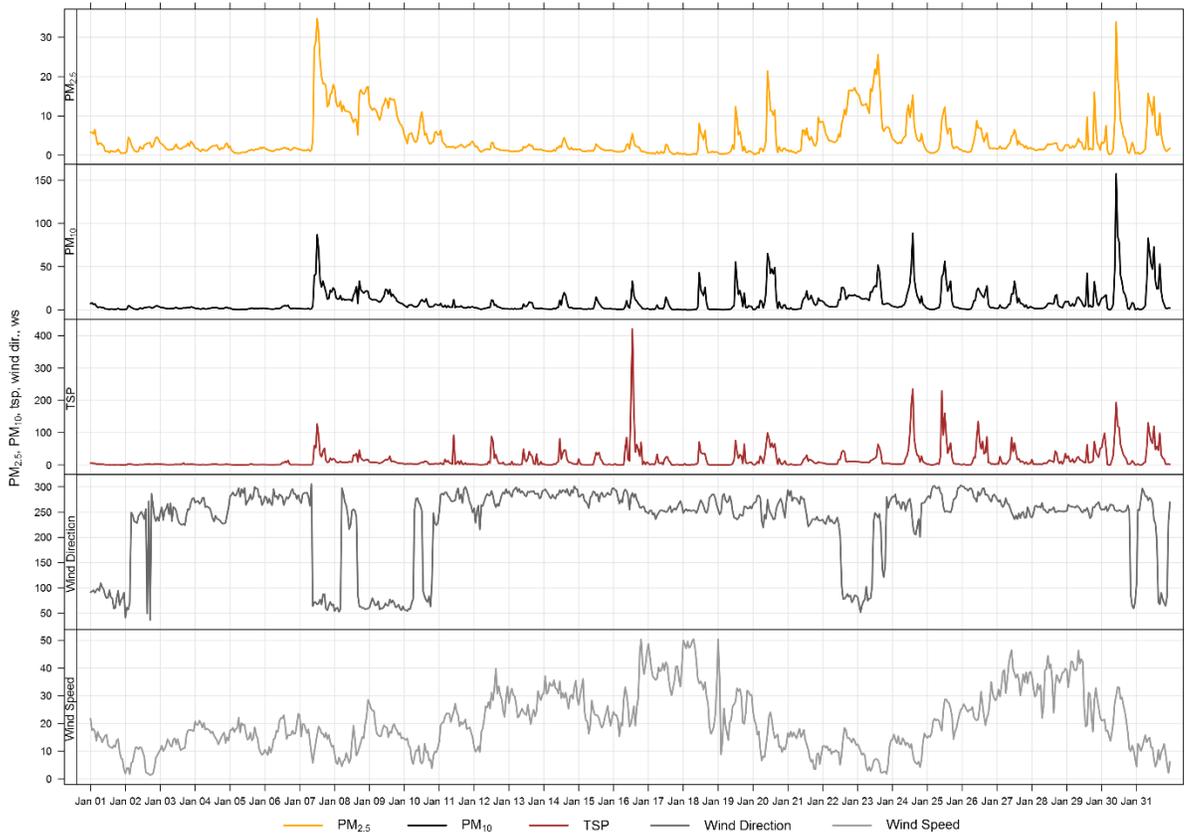


Figure 4-1 1-hour particulate matter concentrations at the West monitor

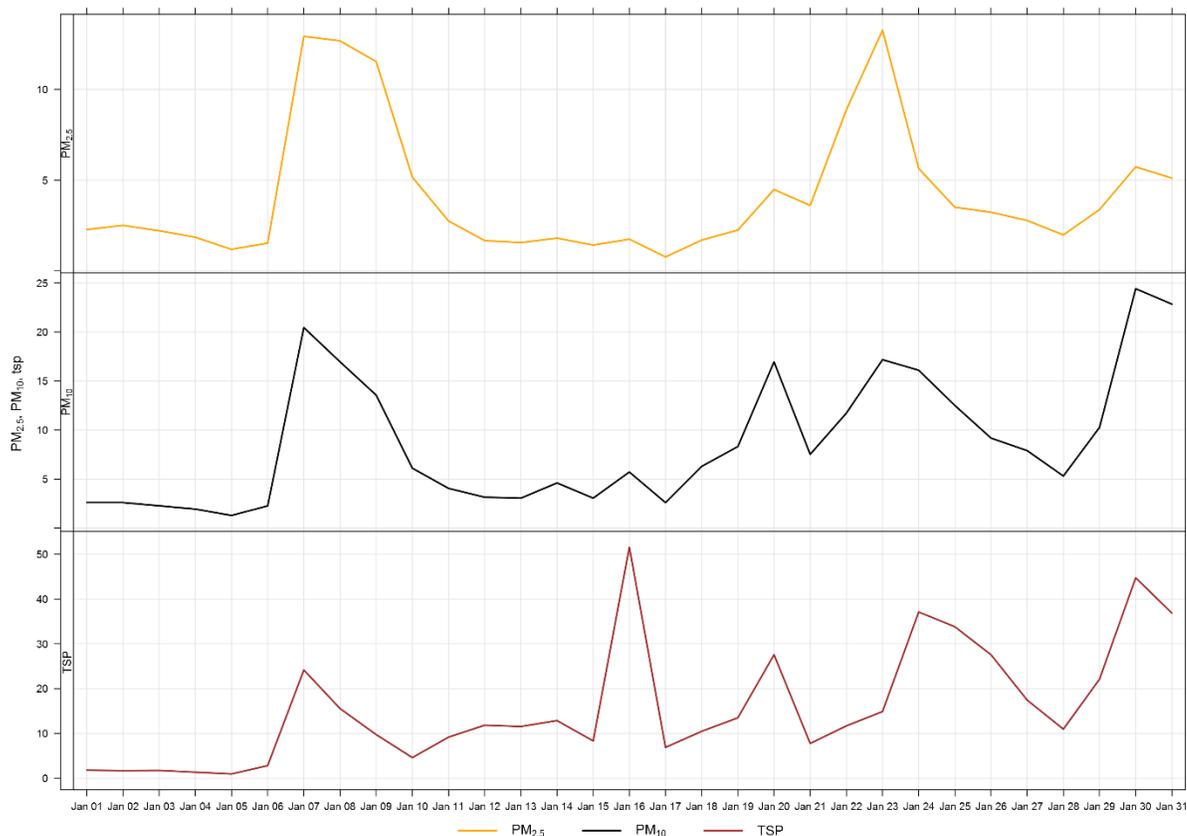


Figure 4-2 24-hour particulate matter concentrations at the West monitor

Figure 4-3 illustrates the hourly PM concentrations recorded at the West monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 4-3 is based on data collected during January 2017 and indicates a strong relationship between TSP and hours which Lafarge is typically operational. Due to the proximity of the West monitor to the highway, the daily variations in PM may also be a result of higher traffic volume during daylight hours.

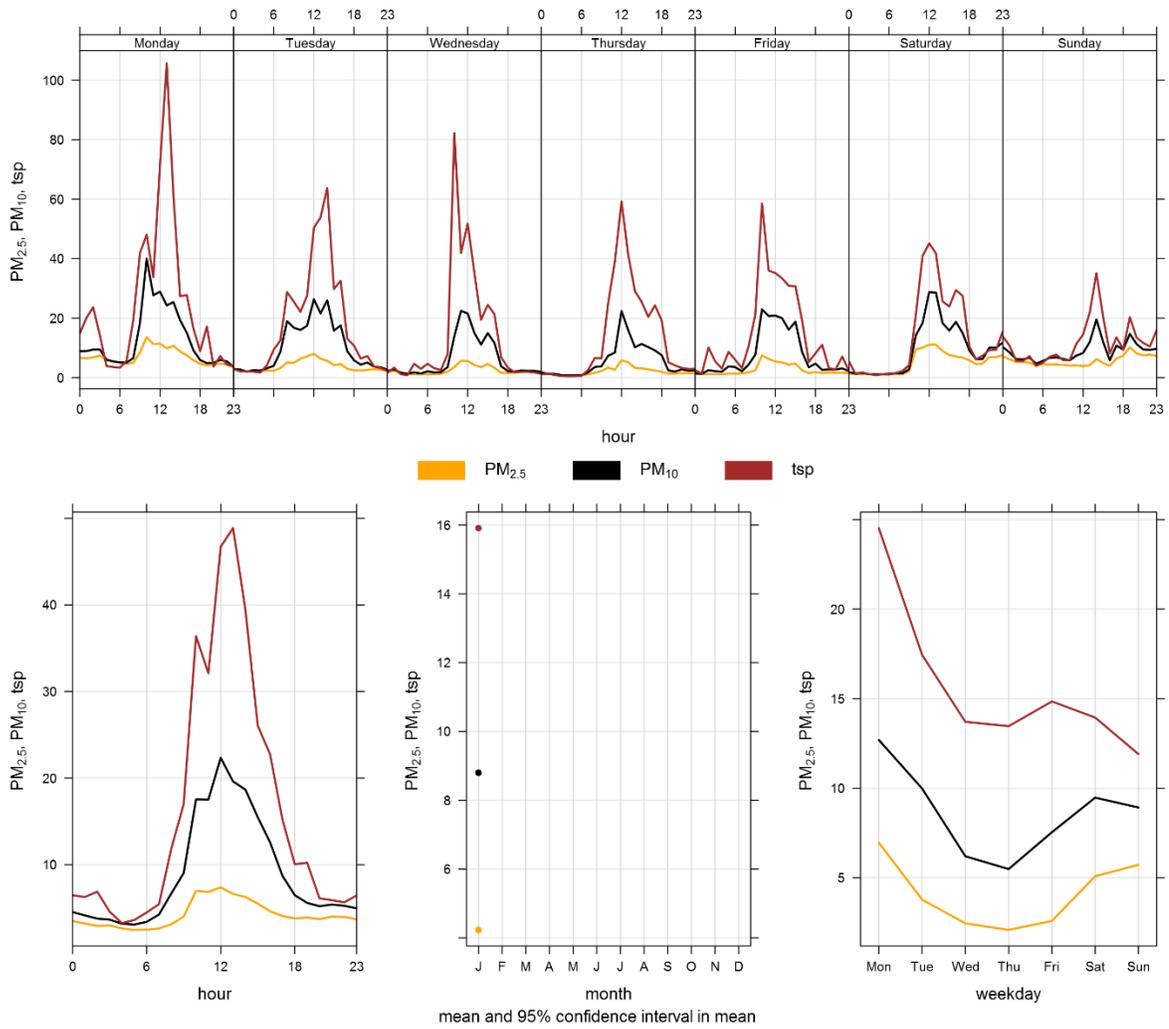


Figure 4-3 West particulate matter time variation

5 BERM GRIMM

5.1 SITE VISIT NOTES

This station was found to be in good operating condition and no repairs were required during the month. During the month of January, the Berm GRIMM had 100% uptime.

Table 5-1 Equipment at the Berm monitoring location

| Equipment Description | Parameter Measured |
|--|---|
| GRIMM 365 Continuous Particulate Monitor | PM _{2.5} , PM ₁₀ , TSP Concentrations |

5.2 MONITORING RESULTS AND TRENDS

The Berm monitor was placed at its current location as a result of the dispersion modelling conducted in 2009. Table 5-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month. The monitor had 100% uptime during the month of January.

Figure 5-1 and Figure 5-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 5-3 summarizes the recorded exceedances.

During January, there were 15 exceedances of the 24-hour TSP Guideline (100 µg/m³). Historically, the Berm monitor records an average of 20 and 1 exceedances of the 24-hour TSP and PM_{2.5} Guidelines respectively, during the month of January. The largest number of TSP exceedances recorded during January occurred in 2013, which had 26 days that exceeded the Guideline. The fewest number of TSP exceedances recorded during January occurred in 2016, which had 13 days that exceeded the Guideline.

It should also be noted that the GRIMM monitors become more conservative in the reported PM concentrations as the size fraction increases. The PM_{2.5} size fraction has been shown to match other regulatory approved PM_{2.5} monitors, but the TSP concentrations recorded by the GRIMM tend to be higher than regulatory approved monitors (Levelton, 2015).

The Berm monitor is located along a ridge at the edge of the Lafarge property and is in an area where on-site trucks drive through site, which can create fugitive dust. Quarry blasting also has the potential to impact short term PM immediately following a blast. As described above, January has historically recorded many exceedances of the TSP Guideline. The highest concentrations in the month correspond to the very high wind events recorded in January. The highest concentrations also were recorded during warmer (above zero degree) temperature after extended periods of below freezing temperatures. During the thawing period of a freeze / thaw cycle, previously frozen fugitive dust can be released, and combined with high winds can exacerbate the fugitive dust issues. The fugitive dust generated in these meteorological conditions is also impacted by cold weather conditions that prevent the use of water controls onsite, as well as the additional contribution to fugitive dust in the airshed by increased road salting and sanding in the winter months.

Table 5-2 Summary of January 2017 data at the Berm GRIMM

| Parameter | Guideline | | Station | Exceedances | | Monthly Average | Maximum 1-hour | | | | | Maximum 24-hour | | Operational Time (Percent) |
|--|-----------|-------|---------|-------------|-------|-----------------|-----------------------|-----|------|--------------------|--------------------------|-----------------------|-----|----------------------------|
| | 1-hr | 24-hr | | 1-hr | 24-hr | | Maximum Concentration | Day | Hour | Wind Speed (km/hr) | Wind Direction (degrees) | Maximum Concentration | Day | |
| PM _{2.5} (µg/m ³) | - | 30 | Berm | - | 0 | 7.7 | 114.2 | 27 | 10 | 46.5 | 248.7 | 22.5 | 27 | 100.0 |
| PM ₁₀ (µg/m ³) | - | - | Berm | - | - | 48.9 | 1207.2 | 27 | 10 | 46.5 | 248.7 | 210.6 | 27 | 100.0 |
| TSP (µg/m ³) | - | 100 | Berm | - | 15 | 176.9 | 3449.8 | 27 | 10 | 46.5 | 248.7 | 791.5 | 27 | 100.0 |

Table 5-3 Days exceeding the Guideline for TSP at the Berm Monitor

| Date | TSP (ug/m ³) | PM _{2.5} (ug/m ³) | Average Wind Direction | Average Wind Speed | Average RH | Root Cause (Provided by Lafarge) |
|---|--------------------------|--|------------------------|--------------------|------------|----------------------------------|
| Berm | | | | | | |
| 1/6/2017 | 163.8 | - | 279.7 | 16.1 | 65.2 | |
| 1/11/2017 | 113.2 | - | 280.0 | 20.7 | 64.5 | high wind event |
| 1/12/2017 | 243.1 | - | 274.5 | 24.2 | 59.6 | high wind event |
| 1/14/2017 | 240.6 | - | 288.2 | 31.6 | 57.9 | high wind event |
| 1/16/2017 | 211.1 | - | 272.2 | 28.8 | 58.1 | high wind event |
| 1/17/2017 | 119.2 | - | 253.2 | 38.3 | 50.2 | high wind event |
| 1/18/2017 | 102.7 | - | 258.1 | 36.4 | 57.0 | high wind event |
| 1/20/2017 | 176.9 | - | 258.5 | 14.9 | 50.1 | |
| 1/24/2017 | 193.4 | - | 263.1 | 11.5 | 65.2 | |
| 1/25/2017 | 286.9 | - | 277.5 | 21.2 | 56.3 | high wind event |
| 1/26/2017 | 391.2 | - | 286.9 | 25.5 | 57.7 | high wind event |
| 1/27/2017 | 791.5 | - | 253.4 | 36.5 | 49.5 | high wind event |
| 1/28/2017 | 704.5 | - | 253.4 | 34.9 | 35.1 | high wind event |
| 1/29/2017 | 664.5 | - | 257.2 | 32.9 | 25.5 | high wind event |
| 1/30/2017 | 395.2 | - | 255.3 | 20.2 | 36.2 | high wind event |
| Total # of Exceedances | 15 | 0 | | | | |
| Maximum # of Exceedances (January) | 26 (2013) | 3 (2015) | | | | |
| Average # of Exceedances (January) | 20 | 1 | | | | |
| Minimum # of Exceedances (January) | 13 (2016) | 0 (2011, 2014, 2016) | | | | |



Figure 5-1 1-hour particulate matter concentrations recorded at the Berm monitor

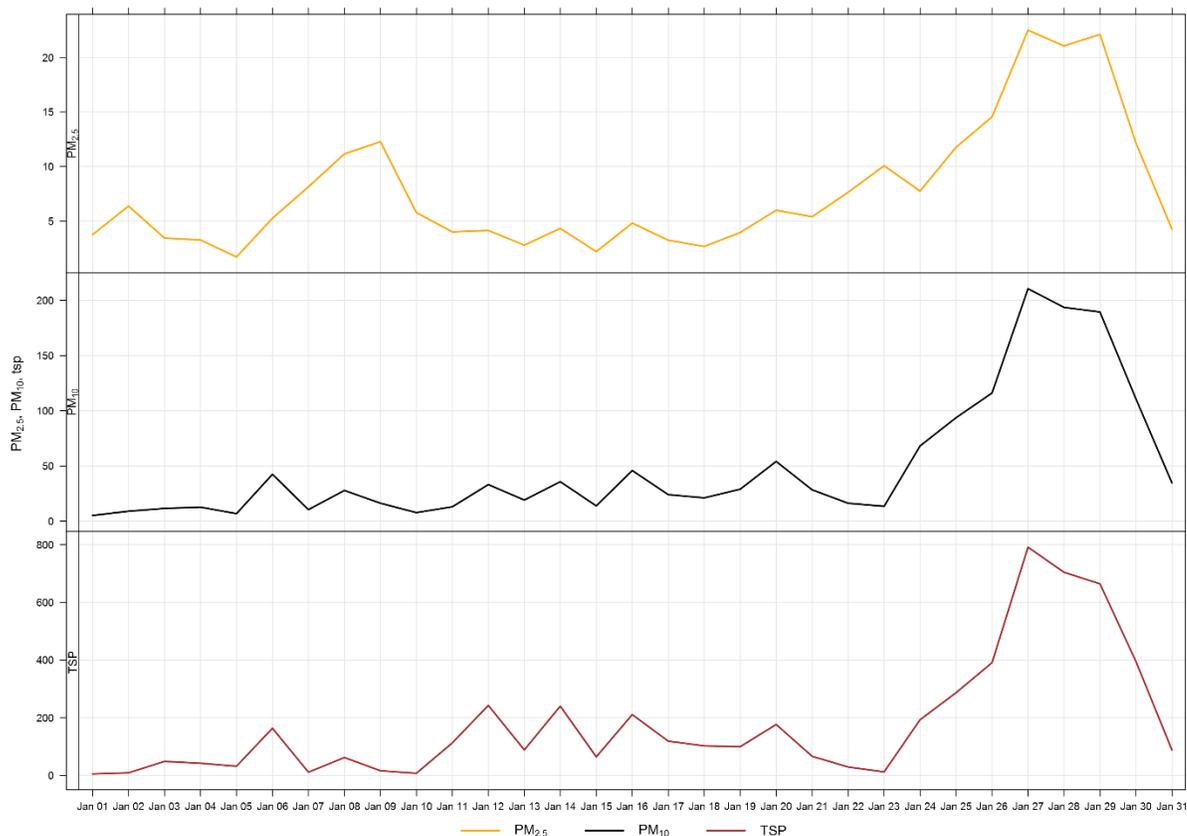


Figure 5-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 5-3 shows the wind rose for the 15 days which recorded a TSP exceedance. This wind rose shows that the winds predominantly come from the west and over 25 km/hr.

Figure 5-4 shows the variation of PM recorded at the Berm monitor over various time averaging periods. Similar to the Entrance monitor, the Berm, on average, records elevated PM concentrations during standard operating hours of Lafarge.

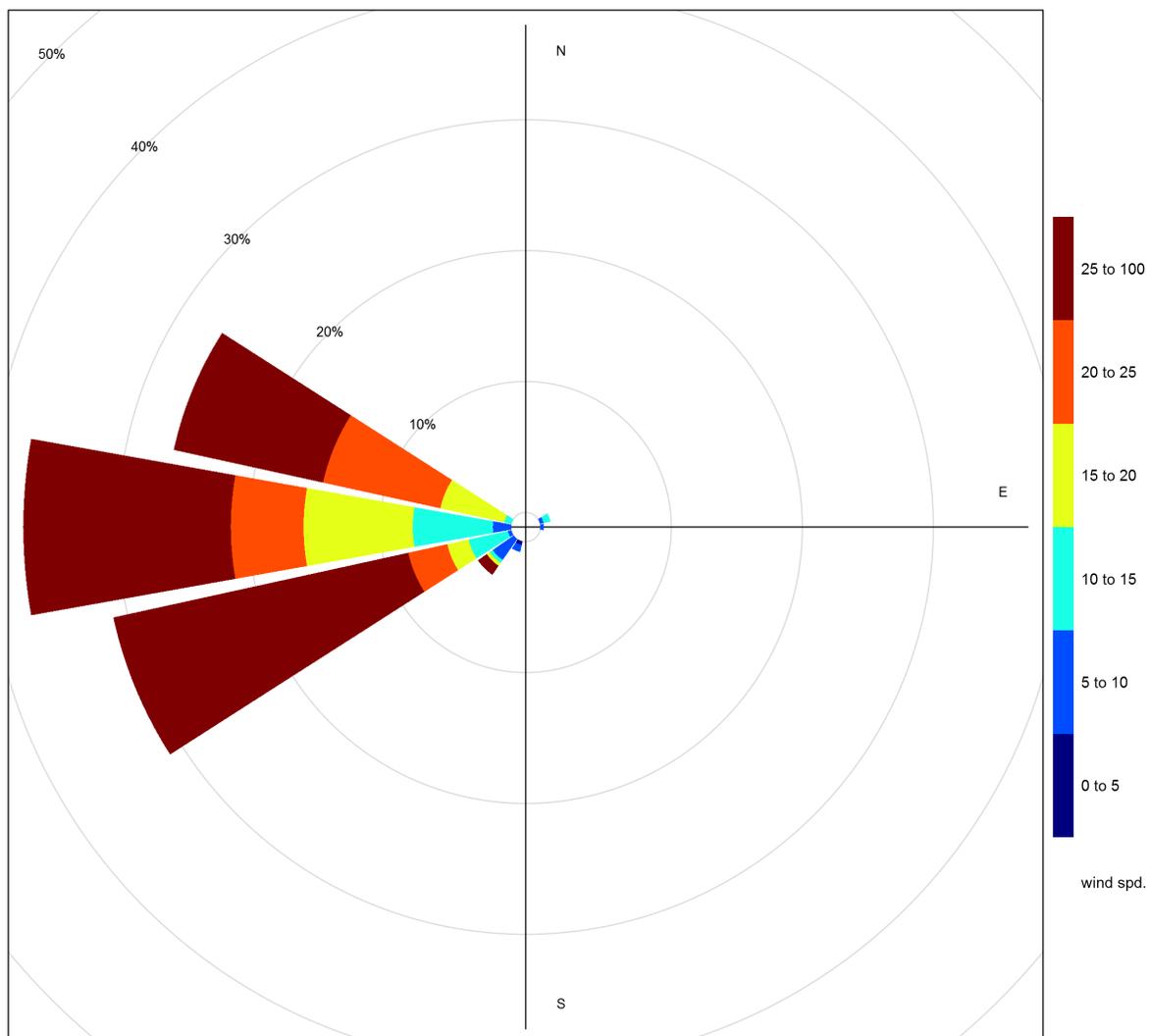


Figure 5-3 Wind rose for TSP exceedance days recorded at the Berm GRIMM

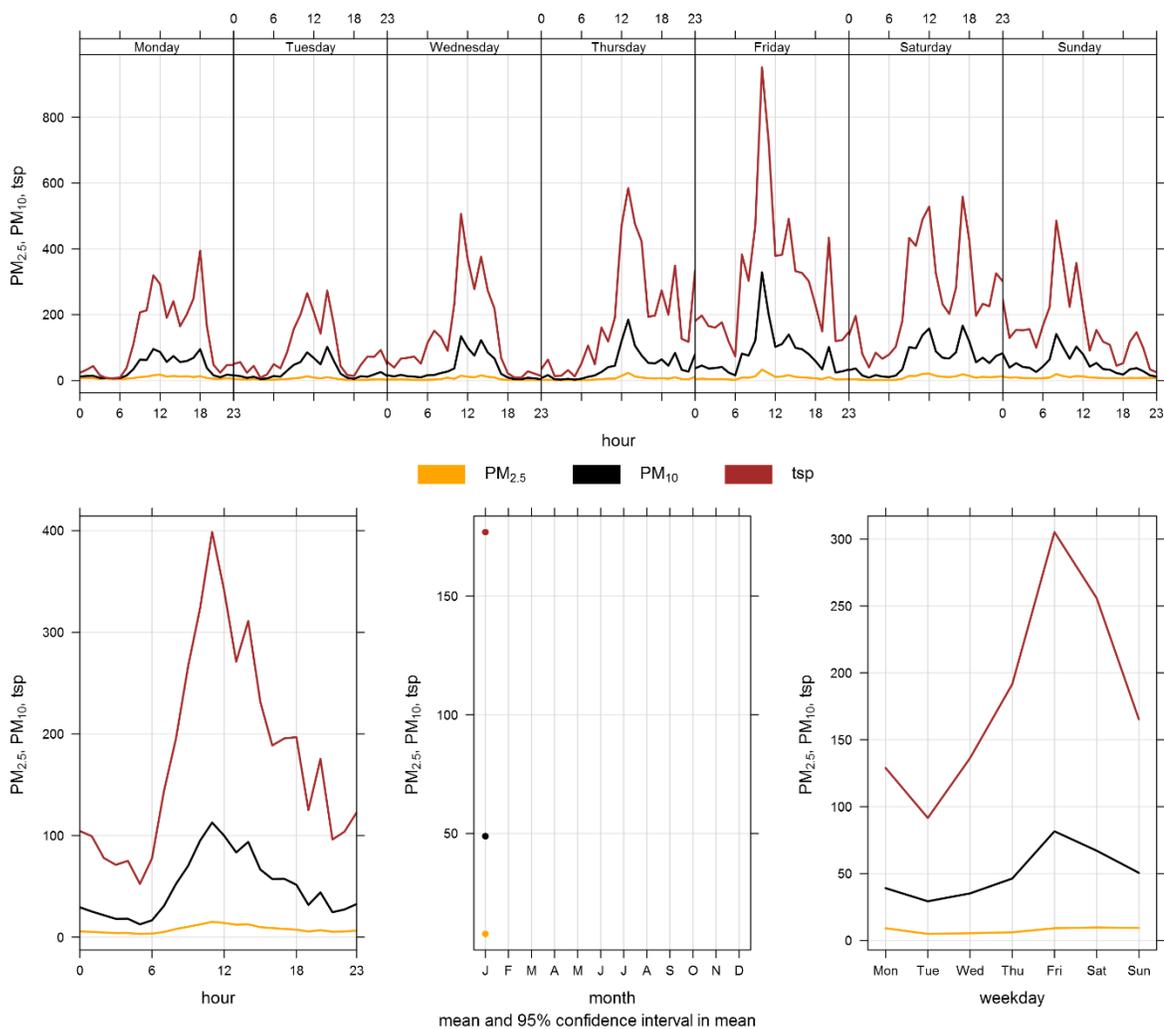


Figure 5-4 Berm particulate matter time variation

6 ENTRANCE GRIMM

6.1 SITE VISIT NOTES

This station was found to be in good operating condition and no repairs were required during the month.

During the month of January, the Entrance GRIMM had 100% uptime.

Table 6-1 Equipment at the Entrance monitoring location

| Equipment Description | Parameter Measured |
|--|---|
| GRIMM 365 Continuous Particulate Monitor | PM _{2.5} , PM ₁₀ , TSP Concentrations |

6.2 MONITORING RESULTS AND TRENDS

The Entrance monitor was placed at its current location as a result of dispersion modelling conducted in 2009. This area was indicated as being the area where the maximum PM concentrations were expected. Table 6-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month. The monitor had 100% uptime during the month of January.

Figure 6-1 and Figure 6-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 6-3 summarizes the recorded exceedances.

During January, there were 21 exceedances of the 24-hour TSP Guideline (100 µg/m³). Historically, the Entrance monitor records an average of 20 and 1 exceedances of the 24-hour TSP and PM_{2.5} Guidelines respectively, during the month of January. The largest number of TSP exceedances recorded during January occurred in 2014, which had 29 days that exceeded the Guideline. The previous fewest number of TSP exceedances recorded during January occurred in 2011, which had 11 days that exceeded the Guideline.

It should also be noted that the GRIMM monitors become more conservative in the reported PM concentrations as the size fraction increases. The PM_{2.5} size fraction has been shown to match other regulatory approved PM_{2.5} monitors, but the TSP concentrations recorded by the GRIMM tend to be higher than regulatory approved monitors (Levelton, 2015).

The Entrance monitor is impacted by fugitive dust from plant activities, and the high wind events and freeze / thaw effects described under the Berm monitor section. Trucks also queue nearby the Entrance monitor while waiting to be loaded with material. Additionally, the monitor is closely located to Highway 1A. Traffic, particularly large trucks, can create dust while crossing over the railway tracks. This can all lead to the monitor recording high TSP concentrations, which are typically associated with fugitive dust sources.

Figure 6-3 shows the wind rose for the days which exceeded the TSP Guideline at the Entrance GRIMM. During these 21 days, winds were predominantly from the west and above 25 km/hr.

Table 6-2 Summary of January 2017 data at the Entrance GRIMM

| Parameter | Guideline | | Station | Exceedances | | Monthly Average | Maximum 1-hour | | | | | Maximum 24-hour | | Operational Time (Percent) |
|--|-----------|-------|----------|-------------|-------|-----------------|-----------------------|-----|------|--------------------|--------------------------|-----------------------|-----|----------------------------|
| | 1-hr | 24-hr | | 1-hr | 24-hr | | Maximum Concentration | Day | Hour | Wind Speed (km/hr) | Wind Direction (degrees) | Maximum Concentration | Day | |
| PM _{2.5} (µg/m ³) | - | 30 | Entrance | - | 0 | 10.4 | 103.1 | 3 | 8 | 11.7 | 231.9 | 17.2 | 14 | 100.0 |
| PM ₁₀ (µg/m ³) | - | - | Entrance | - | - | 56.1 | 506.1 | 14 | 11 | 35.2 | 293.0 | 156.1 | 14 | 100.0 |
| TSP (µg/m ³) | - | 100 | Entrance | - | 21 | 201.9 | 2156.5 | 14 | 11 | 35.2 | 293.0 | 637.2 | 14 | 100.0 |

Table 6-3 Days exceeding the Guideline for TSP at the Entrance Monitor

| Date | TSP (ug/m ³) | PM _{2.5} (ug/m ³) | Average Wind Direction | Average Wind Speed | Average RH | Root Cause (Provided by Lafarge) |
|---|-----------------------------|---|---------------------------|--------------------------|---------------|--|
| Entrance | | | | | | |
| 1/3/2017 | 156.1 | - | 251.0 | 13.4 | 70.8 | |
| 1/4/2017 | 192.7 | - | 253.0 | 16.8 | 71.4 | |
| 1/5/2017 | 169.3 | - | 284.8 | 15.9 | 68.2 | |
| 1/6/2017 | 186.5 | - | 279.7 | 16.1 | 65.2 | |
| 1/8/2017 | 140.8 | - | 43.8 | 11.3 | 74.2 | |
| 1/9/2017 | 135.1 | - | 66.9 | 18.5 | 74.6 | |
| 1/11/2017 | 335.8 | - | 280.0 | 20.7 | 64.5 | high wind event |
| 1/12/2017 | 556.4 | - | 274.5 | 24.2 | 59.6 | high wind event |
| 1/13/2017 | 317.5 | - | 288.0 | 26.1 | 57.8 | high wind event |
| 1/14/2017 | 637.2 | - | 288.2 | 31.6 | 57.9 | high wind event |
| 1/15/2017 | 166.7 | - | 281.6 | 23.6 | 58.0 | high wind event |
| 1/16/2017 | 380.7 | - | 272.2 | 28.8 | 58.1 | high wind event |
| 1/20/2017 | 168.7 | - | 258.5 | 14.9 | 50.1 | |
| 1/21/2017 | 116.5 | - | 265.0 | 12.1 | 69.2 | |
| 1/24/2017 | 192.3 | - | 263.1 | 11.5 | 65.2 | |
| 1/25/2017 | 356.5 | - | 277.5 | 21.2 | 56.3 | high wind event |
| 1/26/2017 | 573.8 | - | 286.9 | 25.5 | 57.7 | high wind event |
| 1/27/2017 | 513.1 | - | 253.4 | 36.5 | 49.5 | high wind event |
| 1/28/2017 | 198.2 | - | 253.4 | 34.9 | 35.1 | high wind event |
| 1/29/2017 | 223.2 | - | 257.2 | 32.9 | 25.5 | high wind event |
| 1/30/2017 | 115.2 | - | 255.3 | 20.2 | 36.2 | high wind event |
| Total # of Exceedances | 21 | 0 | | | | |
| Maximum # of Exceedances (January) | 29 (2014) | 5 (2013) | | | | |
| Average # of Exceedances (January) | 20 | 1 | | | | |
| Minimum # of Exceedances (January) | 11 (2011) | 0 (2011, 2012, 2015, 2016) | | | | |

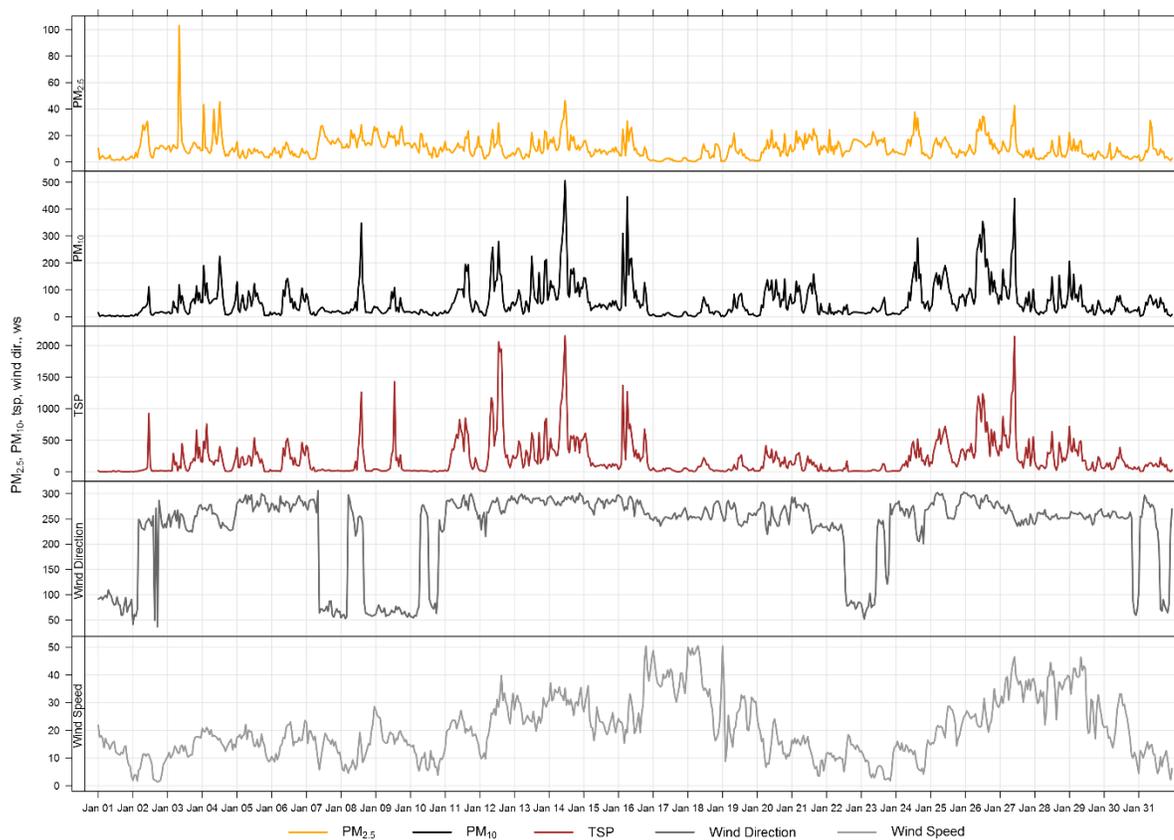


Figure 6-1 1-hour particulate matter concentrations recorded at the Entrance monitor

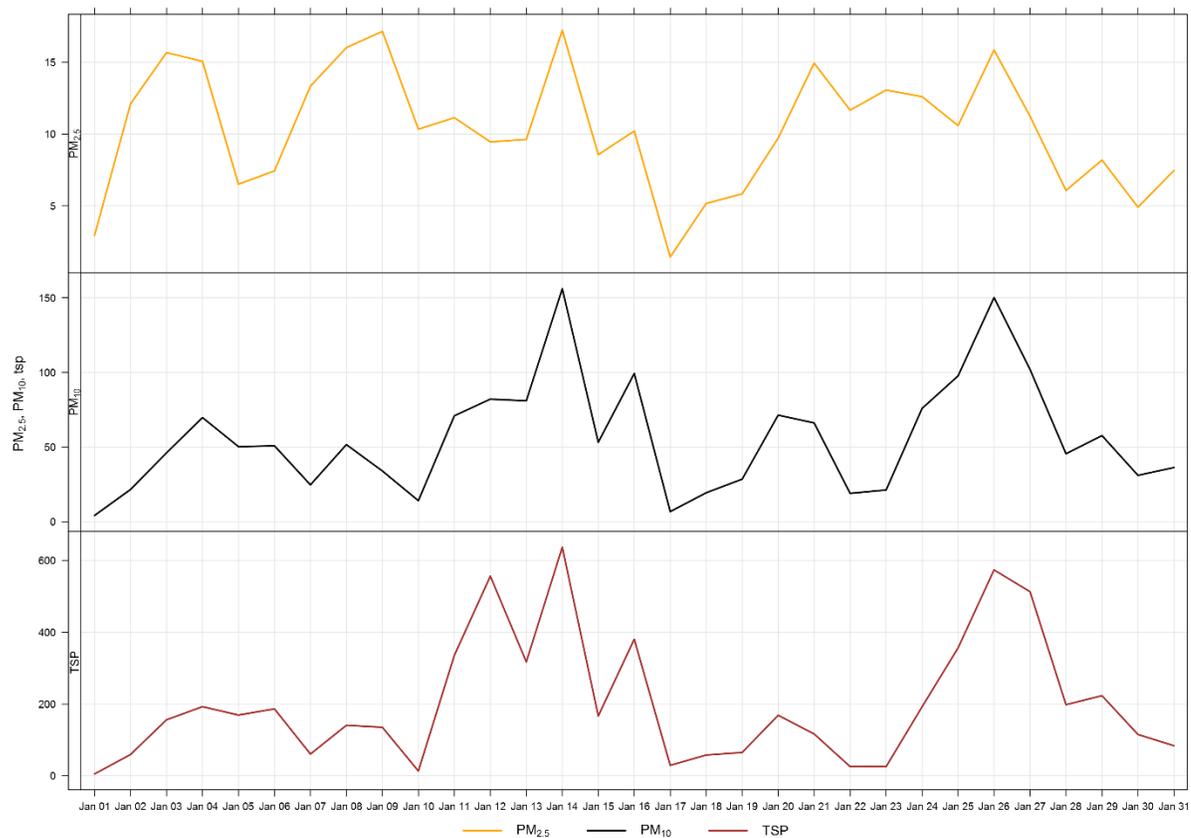


Figure 6-2 24-hour particulate matter concentrations at the Entrance monitor

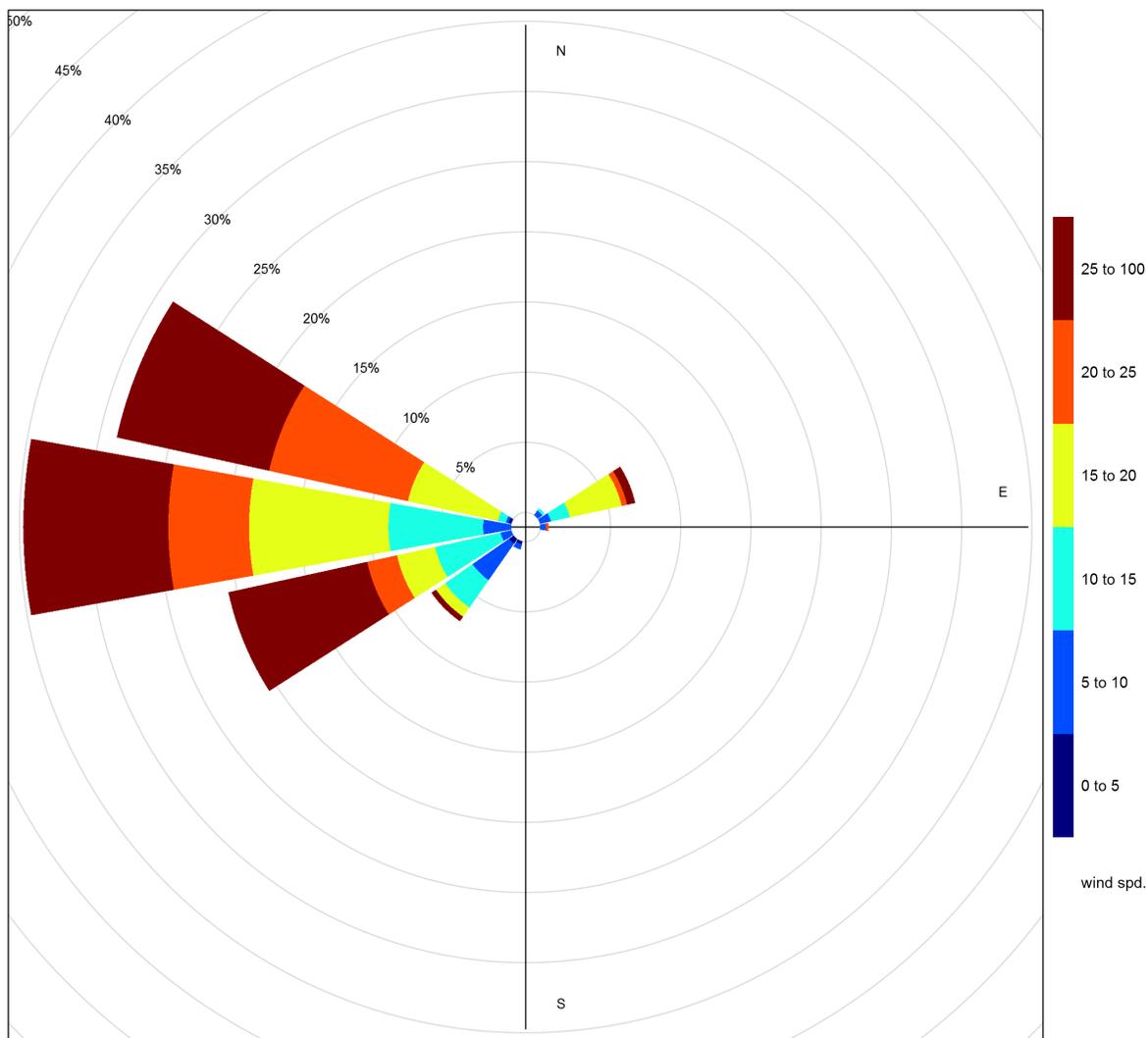


Figure 6-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

Figure 6-4 illustrates the hourly PM concentrations recorded at the Entrance monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 6-4 is based on data collected during January 2017 and indicates a strong diurnal pattern that is typical at this station.

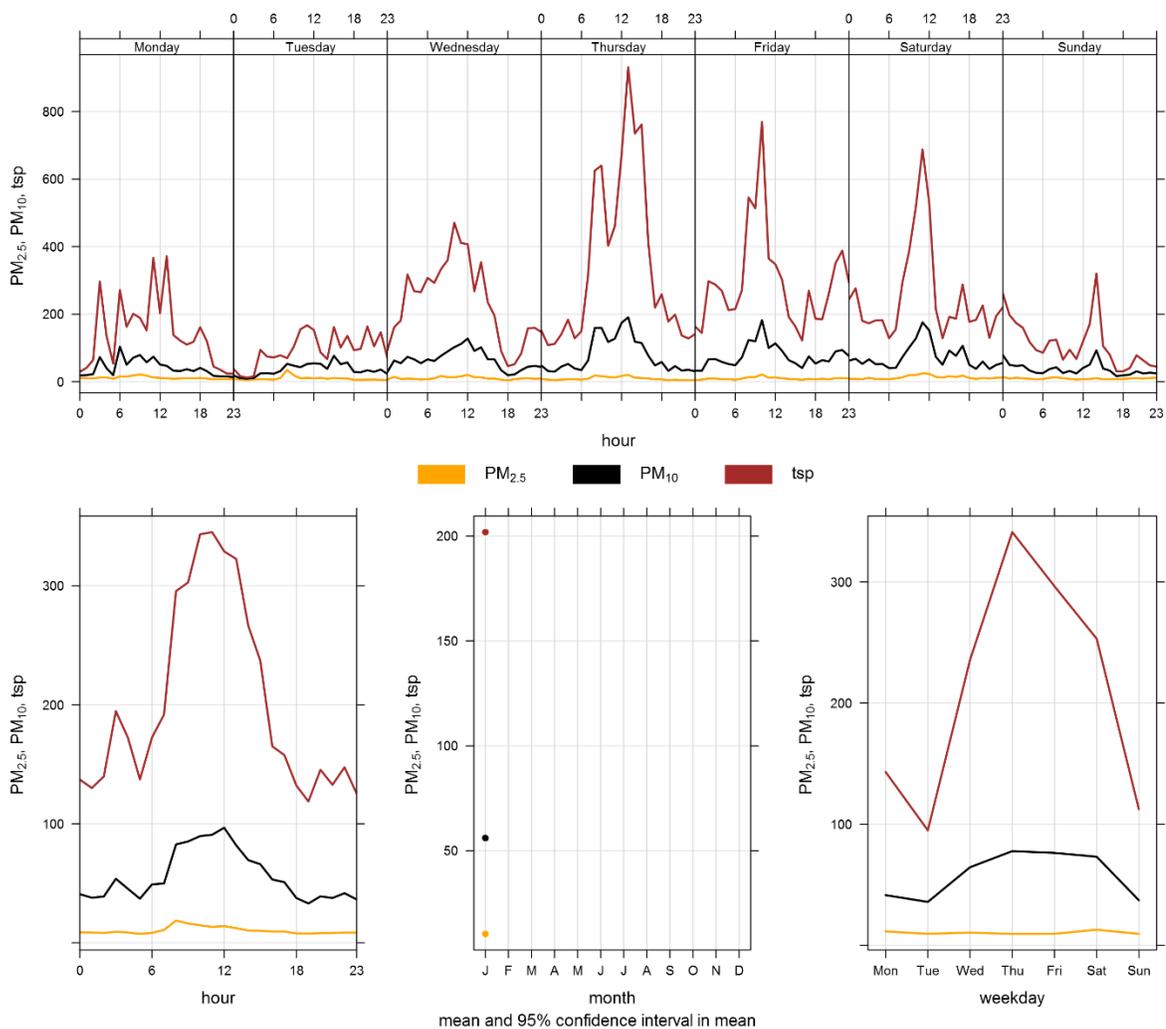


Figure 6-4 Entrance particulate matter time variation

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- Levelton Consultants Ltd. (2015, June 15). Comparison of GRIMM and E-BAM Data. Alberta, Canada.

Appendix A

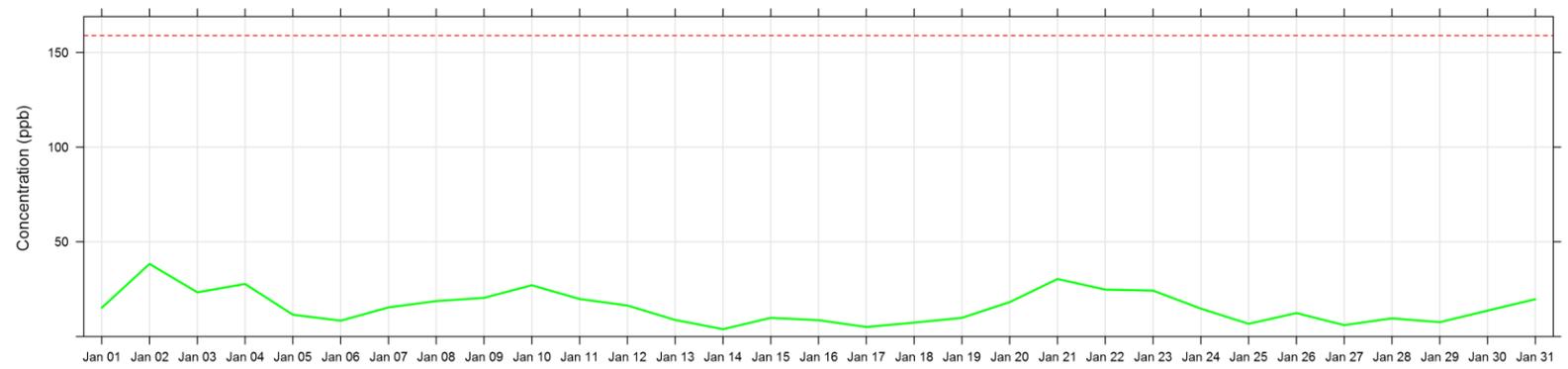
DATA & CALIBRATION REPORTS

Lagoon NO₂ (ppb) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 2.0 | S | 1.7 | 1.4 | 1.4 | 1.3 | 1.4 | 1.5 | 1.7 | 1.1 | 0.7 | 1.8 | 0.8 | 0.3 | 0.7 | 0.7 | 7.8 | 8.1 | 2.6 | 1.0 | 5.2 | 5.7 | 7.0 | 15.2 | 15.2 | 3.1 |
| 2 | 9.0 | S | 24.1 | 25.6 | 23.5 | 20.9 | 23.7 | 22.1 | 24.5 | 20.6 | 19.6 | 14.6 | 13.4 | 13.8 | 14.0 | 21.4 | 27.8 | 32.7 | 38.3 | 32.8 | 31.8 | 29.7 | 30.7 | 29.3 | 38.3 | 23.7 |
| 3 | 23.3 | S | 19.8 | 18.2 | 16.6 | 16.1 | 17.7 | 18.2 | 20.6 | 19.7 | 16.1 | 11.5 | 9.9 | 7.6 | 8.9 | 12.5 | 16.3 | 20.3 | 17.5 | 14.7 | 11.8 | 11.4 | 11.7 | 12.8 | 23.3 | 15.4 |
| 4 | 11.5 | S | 10.7 | 9.6 | 8.8 | 9.3 | 10.8 | 12.8 | 16.7 | 17.6 | 15.7 | 16.7 | 14.6 | 13.4 | 18.4 | 16.9 | 21.6 | 25.2 | 25.0 | 27.7 | 25.8 | 23.3 | 17.2 | 12.6 | 27.7 | 16.6 |
| 5 | 11.5 | S | 10.9 | 6.6 | 5.8 | 5.5 | 4.8 | 5.8 | 6.0 | 5.5 | 5.3 | 4.4 | 5.5 | 4.8 | 5.6 | 5.4 | 8.5 | 4.8 | 4.9 | 4.9 | 5.6 | 9.3 | 9.4 | 9.0 | 11.5 | 6.5 |
| 6 | 7.6 | S | 7.9 | 6.0 | 8.0 | 6.5 | 5.7 | 6.8 | 7.3 | 7.4 | 6.3 | 5.3 | 3.4 | 4.6 | 5.5 | 4.5 | 5.3 | 4.8 | 5.1 | 5.7 | 6.2 | 5.5 | 4.8 | 8.4 | 8.4 | 6.0 |
| 7 | 6.0 | S | 4.6 | 4.3 | 5.8 | 4.1 | 6.2 | 7.9 | 10.9 | 13.3 | 9.9 | 11.1 | 4.7 | 3.5 | 4.8 | 10.2 | 6.4 | 6.5 | 7.6 | 15.3 | 10.1 | 8.1 | 10.9 | 6.1 | 15.3 | 7.8 |
| 8 | 15.6 | S | 12.4 | 14.3 | 14.3 | 17.4 | 14.7 | 16.7 | 18.7 | 14.5 | 15.4 | 10.3 | 8.5 | 8.1 | 8.3 | 10.6 | 17.9 | 13.4 | 16.9 | 14.1 | 12.2 | 13.6 | 7.2 | 7.6 | 18.7 | 13.2 |
| 9 | 15.5 | S | 5.7 | 5.5 | 14.3 | 11.5 | 11.5 | 20.4 | 16.5 | 14.4 | 15.8 | 7.1 | 7.1 | 8.4 | 6.9 | 6.1 | 11.0 | 13.5 | 20.3 | 14.0 | 15.0 | 13.4 | 15.9 | 12.9 | 20.4 | 12.3 |
| 10 | 17.0 | S | 15.4 | 12.9 | 11.8 | 18.7 | 9.7 | 26.8 | 19.9 | 19.0 | 13.2 | 12.0 | 10.2 | 5.6 | 4.7 | 6.8 | 18.3 | 18.9 | 23.7 | 18.7 | 17.4 | 24.2 | 23.3 | 27.1 | 27.1 | 16.3 |
| 11 | 19.8 | S | 8.7 | 10.8 | 9.3 | 8.3 | 9.5 | 8.2 | 11.1 | 9.3 | 9.2 | 8.4 | 5.0 | 4.7 | 4.6 | 4.5 | 6.1 | 4.8 | 5.1 | 6.1 | 6.4 | 8.4 | 11.7 | 14.9 | 19.8 | 8.5 |
| 12 | 16.3 | S | 14.8 | 12.1 | 11.5 | 7.4 | 5.4 | 6.7 | 6.0 | 5.9 | 4.3 | 3.0 | 2.9 | 3.0 | 5.5 | 5.7 | 6.4 | 1.6 | 2.7 | 3.2 | 2.4 | 2.3 | 1.9 | 4.5 | 16.3 | 5.9 |
| 13 | 4.5 | S | 2.8 | 2.8 | 2.3 | 2.3 | 2.7 | 3.2 | 4.3 | 4.1 | 3.8 | 3.6 | 3.9 | 2.9 | 3.6 | 3.5 | 3.7 | 5.2 | 8.7 | 2.8 | 2.8 | 5.7 | 3.6 | 2.3 | 8.7 | 3.7 |
| 14 | 1.7 | S | 1.5 | 1.5 | 1.6 | 1.9 | 2.1 | 2.3 | 2.9 | 3.3 | 2.5 | 3.0 | 3.6 | 3.8 | 3.3 | 2.7 | 3.3 | 3.8 | 3.6 | 3.8 | 3.3 | 3.0 | 2.6 | 3.8 | 3.8 | 2.8 |
| 15 | 3.6 | S | 3.0 | 3.4 | 4.1 | 2.9 | 5.5 | 5.2 | 6.0 | 8.5 | 4.6 | 4.6 | 4.1 | 3.6 | 4.6 | 5.9 | 7.0 | 6.5 | 6.4 | 6.6 | 5.3 | 5.5 | 9.9 | 5.6 | 9.9 | 5.3 |
| 16 | 4.6 | S | 4.5 | 5.1 | 4.5 | 4.5 | 4.6 | 6.5 | 6.1 | 3.9 | 3.5 | 3.5 | 4.4 | 3.5 | 6.1 | 6.4 | 8.6 | 5.0 | 1.6 | 1.2 | 1.3 | 1.4 | 4.1 | 1.2 | 8.6 | 4.2 |
| 17 | 1.2 | S | 1.1 | 0.8 | 1.9 | 0.5 | 1.0 | 1.9 | 2.2 | 3.1 | 3.5 | 2.4 | 1.3 | 1.9 | 2.9 | 3.3 | 3.2 | 1.9 | 2.0 | 1.5 | 3.0 | 5.0 | 4.9 | 3.5 | 5.0 | 2.4 |
| 18 | 0.9 | S | 2.0 | 0.7 | 0.9 | 1.5 | 1.5 | 1.3 | 1.0 | 2.5 | 6.1 | 5.6 | 7.3 | 5.5 | 4.3 | 1.9 | 2.1 | 2.5 | 2.1 | 2.5 | 2.8 | 3.8 | 4.9 | 1.5 | 7.3 | 2.8 |
| 19 | 0.9 | S | 3.0 | 1.9 | 4.3 | 4.8 | 4.4 | 6.1 | 7.9 | 9.9 | 5.7 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 | 0.6 | 1.0 | 2.6 | 1.3 | 2.6 | 1.4 | 4.5 | 1.9 | 9.9 | 2.9 |
| 20 | 2.1 | S | 1.6 | 2.8 | 8.3 | 5.2 | 4.2 | 9.6 | 18.1 | 15.9 | 12.2 | C | C | C | C | 2.0 | 3.8 | 8.1 | 9.6 | 2.8 | 3.7 | 3.0 | 4.0 | 4.5 | 18.1 | 6.4 |
| 21 | 3.4 | S | 7.3 | 6.1 | 5.5 | 4.9 | 5.5 | 7.8 | 11.5 | 9.8 | 8.3 | 6.2 | 4.7 | 8.0 | 3.1 | 4.4 | 16.3 | 17.2 | 20.7 | 18.8 | 27.1 | 26.3 | 30.3 | 26.7 | 30.3 | 12.2 |
| 22 | 24.8 | S | 18.8 | 19.9 | 14.8 | 17.7 | 20.7 | 21.1 | 19.1 | 17.3 | 14.7 | 11.1 | 7.6 | 13.2 | 7.1 | 3.5 | 2.6 | 4.6 | 5.3 | 5.1 | 5.5 | 6.1 | 5.0 | 5.1 | 24.8 | 11.8 |
| 23 | 6.3 | S | 10.0 | 6.6 | 12.4 | 15.4 | 8.3 | 15.2 | 17.0 | 16.2 | 20.5 | 22.0 | 20.6 | 16.6 | 15.7 | 17.3 | 20.7 | 24.2 | 21.1 | 17.1 | 17.1 | 15.1 | 17.6 | 9.5 | 24.2 | 15.8 |
| 24 | 7.7 | S | 5.7 | 6.5 | 6.0 | 6.2 | 7.9 | 10.6 | 11.7 | 14.7 | 12.2 | 13.7 | 11.4 | 6.9 | 6.8 | 6.8 | 6.9 | 5.4 | 4.5 | 8.1 | 7.5 | 6.5 | 3.1 | 7.6 | 14.7 | 8.0 |
| 25 | 3.0 | S | 3.8 | 6.3 | 4.6 | 4.4 | 4.6 | 5.4 | 5.5 | 6.7 | 4.8 | 3.8 | 2.4 | 1.4 | 1.0 | 1.0 | 2.1 | 2.5 | 3.4 | 3.9 | 3.7 | 3.5 | 3.8 | 5.2 | 6.7 | 3.8 |
| 26 | 3.2 | S | 5.1 | 4.6 | 4.3 | 3.6 | 4.9 | 5.7 | 7.2 | 6.5 | 6.5 | 3.9 | 3.0 | 3.0 | 3.8 | 3.8 | 5.5 | 9.3 | 9.4 | 12.4 | 3.7 | 4.8 | 3.5 | 3.5 | 12.4 | 5.3 |
| 27 | 2.2 | S | 2.7 | 1.5 | 2.3 | 2.6 | 3.5 | 3.8 | 6.0 | 1.7 | 1.0 | 0.6 | 0.7 | 0.9 | 0.8 | 1.3 | 1.6 | 1.7 | 2.3 | 0.9 | 0.7 | 2.5 | 2.1 | 1.1 | 6.0 | 1.9 |
| 28 | 0.7 | S | 2.0 | 2.4 | 2.2 | 1.2 | 2.0 | 9.6 | 7.7 | 3.5 | 2.0 | 1.4 | 2.9 | 1.9 | 2.4 | 3.0 | 0.8 | 1.5 | 1.4 | 1.0 | 2.3 | 6.0 | 3.2 | 1.3 | 9.6 | 2.7 |
| 29 | 2.0 | S | 3.4 | 5.2 | 6.8 | 4.0 | 3.6 | 6.8 | 6.7 | 5.8 | 3.1 | 1.9 | 3.6 | 2.8 | 5.2 | 2.4 | 1.4 | 0.7 | 7.6 | 4.0 | 3.4 | 3.8 | 3.6 | 2.5 | 7.6 | 3.9 |
| 30 | 3.1 | S | 3.6 | 6.1 | 5.1 | 2.9 | 3.2 | 6.6 | 8.1 | 3.9 | 3.1 | 1.3 | 3.5 | 1.6 | 1.5 | 1.9 | 1.6 | 4.4 | 1.9 | 1.8 | 9.5 | 10.7 | 12.4 | 13.7 | 13.7 | 4.9 |
| 31 | 19.7 | S | 2.4 | 4.2 | 4.0 | 5.6 | 4.0 | 7.5 | 11.1 | 9.0 | 7.5 | 8.9 | 7.2 | 4.7 | 2.0 | 5.4 | 7.5 | 1.0 | 1.4 | 3.3 | 8.5 | 4.1 | 5.6 | 2.7 | 19.7 | 6.0 |
| Hourly Max | 24.8 | - | 24.1 | 25.6 | 23.5 | 20.9 | 23.7 | 26.8 | 24.5 | 20.6 | 20.5 | 22.0 | 20.6 | 16.6 | 18.4 | 21.4 | 27.8 | 32.7 | 38.3 | 32.8 | 31.8 | 29.7 | 30.7 | 29.3 | | |
| Hourly Average | 8.1 | - | 7.1 | 7.0 | 7.3 | 7.1 | 6.9 | 9.4 | 10.3 | 9.5 | 8.3 | 6.8 | 6.0 | 5.4 | 5.4 | 5.9 | 8.2 | 8.4 | 9.2 | 8.3 | 8.5 | 8.8 | 9.0 | 8.5 | | |

S = SPAN C = CALIBRATION

Daily 1-hour NO₂ Maximums (ppb) at Trailer



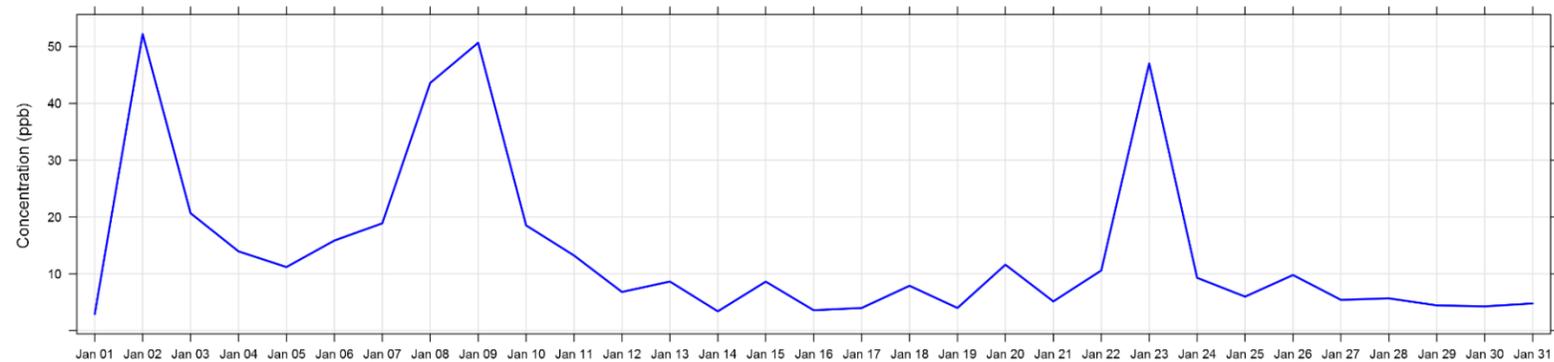
| | | | | |
|-----------------------------|------|-----------|--------------------|---------|
| Number of 1HR Exceedances | 0 | Objective | 159 | PPB |
| Number of Non-Zero Readings | 709 | | | |
| Maximum 1-HR Average | 38.3 | PPB | | |
| Maximum 24-HR Average | 23.7 | PPB | | |
| IZS Calibration Time | 31 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 4 | HRS | Operational Uptime | 100 % |
| Standard Deviation | 6.6 | | Monthly Average | 7.8 PPB |

Lagoon NO (ppb) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|---|------|-----|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 1.0 | 0.0 | 0.0 | 1.6 | 1.7 | 0.2 | 0.0 | 1.1 | 0.5 | 0.8 | 1.2 | 2.9 | 0.5 |
| 2 | 0.0 | S | 12.0 | 2.1 | 3.7 | 5.1 | 5.2 | 4.2 | 8.8 | 10.3 | 17.4 | 15.4 | 14.3 | 14.0 | 9.4 | 20.9 | 25.4 | 31.4 | 52.2 | 41.0 | 21.2 | 6.6 | 9.3 | 5.7 | 52.2 | 14.6 |
| 3 | 4.1 | S | 1.1 | 1.1 | 1.1 | 0.5 | 6.2 | 1.8 | 2.9 | 15.3 | 20.7 | 13.5 | 11.3 | 6.1 | 5.1 | 6.7 | 6.6 | 1.1 | 0.9 | 0.8 | 2.8 | 2.5 | 1.2 | 1.9 | 20.7 | 5.0 |
| 4 | 2.7 | S | 0.4 | 1.2 | 0.4 | 1.4 | 2.5 | 1.6 | 5.1 | 9.1 | 10.0 | 13.9 | 11.3 | 10.0 | 13.9 | 6.9 | 4.4 | 1.4 | 0.9 | 1.3 | 0.7 | 0.5 | 0.8 | 1.4 | 13.9 | 4.4 |
| 5 | 1.2 | S | 9.9 | 1.7 | 0.0 | 0.8 | 0.0 | 3.0 | 0.2 | 1.0 | 1.9 | 3.0 | 4.7 | 2.0 | 11.2 | 0.9 | 3.5 | 0.2 | 1.4 | 0.0 | 1.9 | 1.9 | 0.2 | 2.2 | 11.2 | 2.3 |
| 6 | 0.1 | S | 1.8 | 0.0 | 3.6 | 1.6 | 2.2 | 1.7 | 1.7 | 2.2 | 5.5 | 4.5 | 2.1 | 3.5 | 3.7 | 1.0 | 1.3 | 1.0 | 1.9 | 2.0 | 1.6 | 2.5 | 1.0 | 15.8 | 15.8 | 2.7 |
| 7 | 2.5 | S | 0.6 | 0.4 | 1.9 | 0.0 | 2.1 | 0.9 | 4.1 | 10.1 | 9.1 | 18.9 | 4.4 | 2.4 | 2.0 | 10.1 | 0.7 | 0.0 | 0.8 | 15.4 | 3.3 | 1.0 | 4.9 | 0.6 | 18.9 | 4.2 |
| 8 | 14.5 | S | 2.4 | 5.7 | 5.9 | 7.2 | 5.2 | 7.3 | 9.6 | 11.6 | 24.5 | 12.7 | 10.5 | 9.0 | 5.0 | 4.3 | 43.6 | 9.9 | 28.7 | 13.6 | 7.4 | 19.5 | 7.5 | 3.2 | 43.6 | 11.7 |
| 9 | 17.2 | S | 0.0 | 0.4 | 15.2 | 5.2 | 5.5 | 28.9 | 13.4 | 20.6 | 50.7 | 5.8 | 8.3 | 10.0 | 3.5 | 3.0 | 4.2 | 9.9 | 37.0 | 10.6 | 10.5 | 14.6 | 13.3 | 9.1 | 50.7 | 12.9 |
| 10 | 16.8 | S | 10.6 | 6.0 | 9.3 | 12.4 | 1.1 | 4.8 | 2.4 | 11.0 | 9.1 | 18.5 | 11.0 | 3.8 | 1.8 | 3.2 | 3.8 | 1.4 | 7.9 | 1.5 | 0.8 | 0.8 | 3.2 | 2.0 | 18.5 | 6.2 |
| 11 | 1.5 | S | 0.0 | 1.6 | 1.1 | 0.1 | 2.5 | 0.9 | 1.5 | 2.5 | 8.6 | 13.2 | 4.9 | 3.3 | 1.8 | 1.2 | 1.3 | 0.4 | 0.7 | 1.6 | 0.0 | 3.4 | 1.8 | 0.9 | 13.2 | 2.4 |
| 12 | 0.5 | S | 0.2 | 0.2 | 0.2 | 0.5 | 0.6 | 1.5 | 0.5 | 1.5 | 3.2 | 1.6 | 2.0 | 1.9 | 4.7 | 6.8 | 5.9 | 0.3 | 0.6 | 1.7 | 0.0 | 0.0 | 0.0 | 2.5 | 6.8 | 1.6 |
| 13 | 2.0 | S | 5.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.2 | 1.7 | 2.8 | 1.4 | 3.2 | 4.9 | 1.4 | 1.6 | 0.7 | 0.4 | 6.6 | 8.6 | 0.0 | 0.6 | 3.0 | 0.1 | 0.1 | 8.6 | 2.0 |
| 14 | 0.0 | S | 0.1 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 2.2 | 1.0 | 0.7 | 3.4 | 2.6 | 3.0 | 1.1 | 0.8 | 1.6 | 0.1 | 0.9 | 1.5 | 0.6 | 2.1 | 0.9 | 0.4 | 3.4 | 1.0 |
| 15 | 2.9 | S | 0.3 | 0.8 | 1.4 | 0.9 | 1.1 | 2.0 | 1.9 | 8.6 | 1.2 | 3.8 | 2.5 | 2.1 | 2.3 | 2.5 | 2.7 | 0.9 | 0.4 | 1.2 | 1.6 | 1.1 | 4.6 | 7.5 | 8.6 | 2.4 |
| 16 | 1.3 | S | 3.6 | 2.8 | 0.6 | 1.0 | 0.3 | 3.3 | 2.1 | 1.6 | 0.8 | 1.7 | 2.4 | 1.5 | 2.9 | 3.1 | 3.2 | 1.5 | 0.5 | 0.5 | 0.5 | 0.6 | 3.4 | 0.9 | 3.6 | 1.7 |
| 17 | 1.1 | S | 0.9 | 0.8 | 3.1 | 0.8 | 1.1 | 2.0 | 1.9 | 2.1 | 3.5 | 2.6 | 1.7 | 2.4 | 2.7 | 2.4 | 1.7 | 1.0 | 0.9 | 1.1 | 2.1 | 4.0 | 3.3 | 2.8 | 4.0 | 2.0 |
| 18 | 1.1 | S | 2.4 | 0.9 | 1.2 | 1.5 | 1.6 | 1.3 | 1.0 | 2.0 | 4.1 | 4.7 | 7.9 | 4.5 | 3.5 | 1.5 | 1.6 | 1.1 | 0.7 | 0.7 | 1.3 | 3.4 | 1.5 | 1.2 | 7.9 | 2.2 |
| 19 | 0.7 | S | 0.6 | 0.6 | 3.8 | 3.5 | 2.6 | 1.6 | 4.0 | 2.3 | 2.8 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 0.8 | 0.7 | 0.5 | 0.5 | 1.7 | 0.8 | 3.6 | 0.8 | 4.0 | 1.5 |
| 20 | 0.9 | S | 0.4 | 0.5 | 10.0 | 0.7 | 0.1 | 0.3 | 11.6 | 3.4 | 4.6 | C | C | C | C | 0.6 | 0.7 | 2.7 | 2.9 | 0.0 | 0.5 | 0.0 | 0.2 | 1.4 | 11.6 | 2.2 |
| 21 | 0.0 | S | 4.9 | 4.4 | 3.6 | 0.1 | 0.5 | 1.1 | 3.9 | 2.2 | 3.2 | 3.8 | 2.3 | 5.1 | 0.7 | 0.7 | 3.8 | 0.6 | 0.6 | 0.4 | 4.5 | 1.1 | 2.0 | 2.6 | 5.1 | 2.3 |
| 22 | 2.7 | S | 1.0 | 0.7 | 0.8 | 2.7 | 2.4 | 2.9 | 2.3 | 7.1 | 10.0 | 10.6 | 9.0 | 10.5 | 2.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 10.6 | 2.9 |
| 23 | 1.8 | S | 7.7 | 2.1 | 5.4 | 11.8 | 0.6 | 3.6 | 22.9 | 29.7 | 47.0 | 35.4 | 18.8 | 9.9 | 6.0 | 4.7 | 5.7 | 9.1 | 5.5 | 3.2 | 1.7 | 2.9 | 3.0 | 2.8 | 47.0 | 10.5 |
| 24 | 1.6 | S | 0.2 | 0.8 | 0.6 | 0.2 | 2.2 | 3.5 | 4.1 | 5.0 | 4.7 | 9.3 | 6.2 | 3.8 | 2.4 | 1.7 | 1.1 | 0.1 | 0.0 | 0.2 | 1.3 | 2.8 | 1.4 | 3.4 | 9.3 | 2.5 |
| 25 | 0.0 | S | 1.2 | 6.0 | 5.0 | 1.8 | 0.8 | 1.0 | 0.3 | 3.3 | 1.2 | 1.6 | 1.1 | 0.7 | 0.1 | 0.1 | 0.6 | 0.4 | 0.1 | 1.5 | 0.7 | 0.0 | 1.0 | 2.3 | 6.0 | 1.3 |
| 26 | 0.0 | S | 3.6 | 0.9 | 1.7 | 0.9 | 3.2 | 0.2 | 0.8 | 2.6 | 2.6 | 1.6 | 3.8 | 1.1 | 1.6 | 2.6 | 2.2 | 5.2 | 9.4 | 9.8 | 2.3 | 2.8 | 1.6 | 2.4 | 9.8 | 2.7 |
| 27 | 0.3 | S | 1.0 | 0.2 | 1.7 | 2.6 | 1.1 | 1.8 | 5.4 | 1.3 | 0.3 | 0.1 | 0.0 | 0.4 | 0.2 | 0.5 | 0.3 | 0.2 | 0.9 | 0.0 | 0.0 | 1.3 | 1.5 | 0.0 | 5.4 | 0.9 |
| 28 | 0.0 | S | 0.1 | 0.7 | 0.6 | 0.0 | 0.3 | 5.7 | 5.6 | 1.2 | 0.4 | 0.3 | 0.9 | 1.2 | 0.9 | 0.8 | 0.0 | 0.3 | 0.2 | 0.2 | 0.4 | 3.2 | 1.6 | 0.2 | 5.7 | 1.1 |
| 29 | 0.7 | S | 1.5 | 3.6 | 4.4 | 1.6 | 1.8 | 4.4 | 3.4 | 2.9 | 1.5 | 1.0 | 1.2 | 0.9 | 0.7 | 1.4 | 1.6 | 0.0 | 1.5 | 2.3 | 1.5 | 2.5 | 1.4 | 1.0 | 4.4 | 1.9 |
| 30 | 1.0 | S | 1.0 | 4.3 | 2.7 | 0.4 | 0.2 | 1.3 | 3.8 | 1.4 | 1.6 | 0.5 | 3.0 | 0.6 | 0.5 | 0.6 | 0.4 | 2.3 | 0.0 | 0.0 | 2.0 | 3.2 | 1.8 | 2.3 | 4.3 | 1.5 |
| 31 | 3.1 | S | 0.0 | 1.1 | 0.3 | 1.7 | 1.0 | 2.6 | 2.7 | 2.5 | 1.8 | 4.8 | 2.1 | 1.5 | 0.4 | 0.9 | 1.9 | 0.1 | 0.1 | 0.2 | 4.6 | 0.1 | 0.5 | 0.0 | 4.8 | 1.5 |
| Hourly Max | 17.2 | - | 12.0 | 6.0 | 15.2 | 12.4 | 6.2 | 28.9 | 22.9 | 29.7 | 50.7 | 35.4 | 18.8 | 14.0 | 13.9 | 20.9 | 43.6 | 31.4 | 52.2 | 41.0 | 21.2 | 19.5 | 13.3 | 15.8 | | |
| Hourly Average | 2.7 | - | 2.4 | 1.7 | 2.9 | 2.2 | 1.7 | 3.1 | 4.3 | 5.7 | 8.2 | 7.1 | 5.2 | 3.9 | 3.1 | 3.0 | 4.3 | 3.0 | 5.4 | 3.6 | 2.6 | 2.9 | 2.5 | 2.5 | | |

S = SPAN C = CALIBRATION

Daily 1-hour NO Maximums (ppb) at Trailer



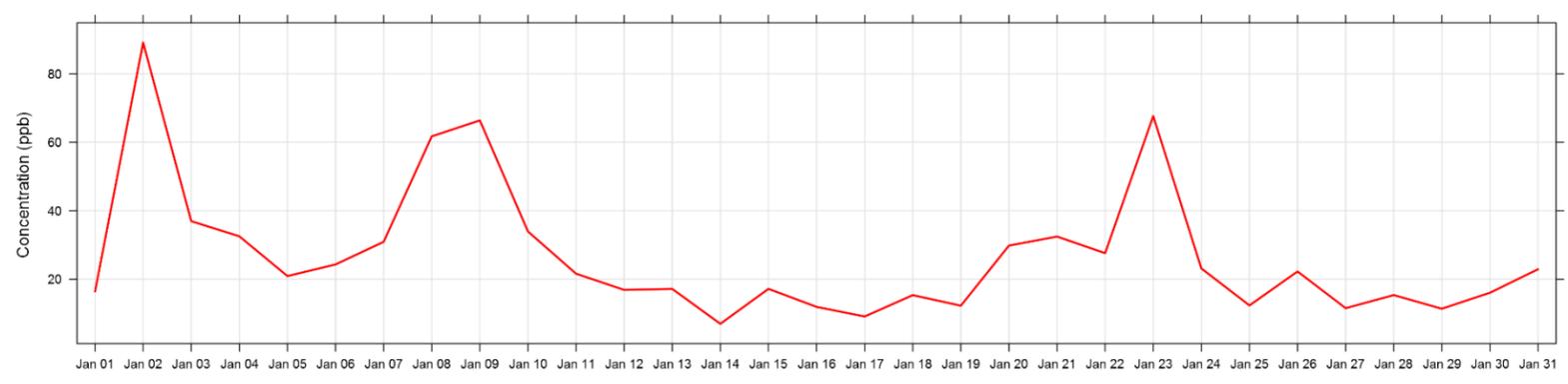
| | | | | |
|-----------------------------|------|-----------|--------------------|---------|
| Number of 1HR Exceedances | n/a | Objective | n/a | PPB |
| Number of Non-Zero Readings | 676 | | | |
| Maximum 1-HR Average | 52.2 | PPB | | |
| Maximum 24-HR Average | 14.6 | PPB | | |
| IZS Calibration Time | 31 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 4 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 6.0 | | Monthly Average | 3.6 PPB |

Lagoon NO_x (ppb) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 2.0 | S | 1.7 | 1.4 | 1.4 | 1.2 | 1.4 | 1.5 | 1.6 | 1.2 | 0.7 | 4.7 | 0.9 | 1.0 | 0.8 | 0.8 | 9.5 | 9.9 | 2.8 | 0.9 | 6.3 | 6.3 | 7.9 | 16.4 | 16.4 | 3.6 |
| 2 | 9.0 | S | 36.2 | 27.8 | 27.3 | 26.1 | 29.0 | 26.5 | 33.5 | 31.1 | 37.2 | 30.2 | 27.8 | 27.9 | 23.6 | 42.5 | 53.3 | 64.3 | 89.1 | 73.9 | 53.2 | 36.4 | 40.1 | 35.2 | 89.1 | 38.3 |
| 3 | 27.6 | S | 21.0 | 19.4 | 17.7 | 16.6 | 24.0 | 20.1 | 23.7 | 35.2 | 37.0 | 25.2 | 21.4 | 13.9 | 14.1 | 19.3 | 23.1 | 21.6 | 18.6 | 15.6 | 14.7 | 14.0 | 12.9 | 14.8 | 37.0 | 20.5 |
| 4 | 14.3 | S | 11.1 | 10.8 | 9.2 | 10.8 | 13.3 | 14.5 | 22.0 | 26.9 | 25.8 | 30.8 | 26.1 | 23.5 | 32.5 | 24.0 | 26.2 | 26.7 | 26.0 | 29.2 | 26.7 | 23.8 | 18.0 | 14.0 | 32.5 | 21.1 |
| 5 | 12.8 | S | 20.9 | 8.4 | 5.9 | 6.5 | 4.9 | 8.9 | 6.3 | 6.6 | 7.4 | 7.5 | 10.4 | 7.0 | 16.1 | 6.4 | 12.1 | 5.1 | 6.4 | 5.0 | 7.5 | 11.3 | 9.7 | 11.4 | 20.9 | 8.9 |
| 6 | 7.8 | S | 9.8 | 6.1 | 11.7 | 8.2 | 8.0 | 8.6 | 9.1 | 9.7 | 11.9 | 10.0 | 5.7 | 8.3 | 9.3 | 5.7 | 6.7 | 5.9 | 7.1 | 7.7 | 7.9 | 8.1 | 5.9 | 24.3 | 24.3 | 8.9 |
| 7 | 8.6 | S | 5.2 | 4.8 | 7.7 | 4.2 | 8.4 | 8.8 | 15.2 | 23.5 | 19.2 | 30.1 | 9.4 | 6.2 | 7.0 | 20.4 | 7.2 | 6.6 | 8.5 | 30.9 | 13.6 | 9.2 | 15.9 | 6.7 | 30.9 | 12.1 |
| 8 | 30.3 | S | 14.8 | 20.1 | 20.3 | 24.8 | 20.0 | 24.1 | 28.4 | 26.3 | 40.1 | 23.1 | 19.2 | 17.2 | 13.5 | 15.0 | 61.7 | 23.4 | 45.8 | 27.8 | 19.8 | 33.1 | 14.4 | 10.9 | 61.7 | 24.9 |
| 9 | 32.9 | S | 5.8 | 5.9 | 29.6 | 16.8 | 17.2 | 49.4 | 30.0 | 35.1 | 66.4 | 13.0 | 15.6 | 18.5 | 10.6 | 9.3 | 15.3 | 23.6 | 57.5 | 24.7 | 25.7 | 28.1 | 29.4 | 22.1 | 66.4 | 25.3 |
| 10 | 34.0 | S | 26.2 | 19.0 | 21.2 | 31.2 | 10.8 | 31.7 | 22.4 | 30.1 | 22.5 | 30.7 | 21.3 | 9.6 | 6.6 | 10.1 | 22.3 | 20.4 | 31.7 | 20.2 | 18.2 | 25.1 | 26.6 | 29.2 | 34.0 | 22.7 |
| 11 | 21.3 | S | 8.8 | 12.5 | 10.5 | 8.5 | 12.0 | 9.2 | 12.7 | 11.9 | 18.0 | 21.6 | 10.0 | 8.2 | 6.5 | 5.8 | 7.5 | 5.3 | 6.0 | 7.7 | 6.6 | 11.9 | 13.5 | 15.7 | 21.6 | 10.9 |
| 12 | 16.9 | S | 15.1 | 12.4 | 11.8 | 8.0 | 6.1 | 8.3 | 6.5 | 7.5 | 7.6 | 4.8 | 5.1 | 5.1 | 10.4 | 12.6 | 12.5 | 1.9 | 3.4 | 4.9 | 2.6 | 2.4 | 2.0 | 7.1 | 16.9 | 7.6 |
| 13 | 6.6 | S | 7.4 | 2.8 | 2.3 | 3.2 | 2.8 | 3.5 | 6.0 | 6.9 | 5.3 | 7.1 | 8.8 | 4.5 | 5.4 | 4.3 | 4.2 | 11.9 | 17.2 | 2.9 | 3.5 | 8.8 | 3.8 | 2.4 | 17.2 | 5.7 |
| 14 | 1.8 | S | 1.6 | 1.6 | 2.6 | 2.0 | 2.1 | 2.5 | 4.9 | 4.3 | 3.3 | 6.5 | 6.4 | 7.0 | 4.5 | 3.7 | 5.0 | 4.0 | 4.6 | 5.5 | 4.0 | 5.2 | 3.5 | 4.2 | 7.0 | 3.9 |
| 15 | 6.5 | S | 3.4 | 4.3 | 5.6 | 3.9 | 6.7 | 7.2 | 8.0 | 17.2 | 6.0 | 8.4 | 6.8 | 5.9 | 7.1 | 8.6 | 9.7 | 7.5 | 6.8 | 7.9 | 7.0 | 6.7 | 14.5 | 12.7 | 17.2 | 7.8 |
| 16 | 5.9 | S | 8.1 | 8.0 | 5.2 | 5.6 | 5.0 | 9.9 | 8.3 | 5.6 | 4.5 | 5.3 | 6.9 | 5.2 | 9.2 | 9.7 | 11.9 | 6.6 | 2.0 | 1.7 | 2.0 | 2.2 | 7.6 | 2.2 | 11.9 | 6.0 |
| 17 | 2.4 | S | 2.1 | 1.8 | 5.2 | 1.4 | 2.1 | 4.0 | 4.3 | 5.3 | 7.1 | 5.1 | 3.0 | 4.4 | 5.7 | 5.9 | 5.0 | 3.2 | 3.1 | 2.8 | 5.3 | 9.1 | 8.4 | 6.4 | 9.1 | 4.5 |
| 18 | 2.1 | S | 4.4 | 1.6 | 2.1 | 3.2 | 3.2 | 2.7 | 2.2 | 4.6 | 10.3 | 10.5 | 15.3 | 10.2 | 8.0 | 3.6 | 3.8 | 3.8 | 2.9 | 3.3 | 4.1 | 7.2 | 6.5 | 2.7 | 15.3 | 5.1 |
| 19 | 1.5 | S | 3.7 | 2.5 | 8.2 | 8.2 | 7.0 | 7.7 | 12.0 | 12.3 | 8.5 | 1.0 | 1.2 | 1.0 | 1.2 | 1.6 | 1.2 | 1.6 | 3.2 | 1.8 | 4.2 | 2.1 | 8.1 | 2.7 | 12.3 | 4.5 |
| 20 | 2.9 | S | 1.9 | 3.3 | 18.4 | 6.0 | 4.3 | 10.0 | 29.8 | 19.4 | 16.9 | C | C | C | C | 2.7 | 4.6 | 10.9 | 12.5 | 2.8 | 4.3 | 3.1 | 4.3 | 6.0 | 29.8 | 8.6 |
| 21 | 3.5 | S | 12.3 | 10.6 | 9.2 | 5.1 | 6.1 | 9.0 | 15.6 | 12.1 | 11.6 | 10.1 | 7.2 | 13.3 | 3.9 | 5.2 | 20.3 | 17.8 | 21.3 | 19.2 | 31.7 | 27.4 | 32.5 | 29.4 | 32.5 | 14.5 |
| 22 | 27.6 | S | 19.8 | 20.7 | 15.6 | 20.4 | 23.2 | 24.2 | 21.5 | 24.5 | 24.8 | 21.9 | 16.7 | 23.9 | 10.1 | 4.3 | 2.7 | 4.6 | 5.4 | 5.2 | 5.6 | 6.2 | 5.0 | 5.2 | 27.6 | 14.7 |
| 23 | 8.2 | S | 17.8 | 8.8 | 18.0 | 27.4 | 9.0 | 19.0 | 40.1 | 46.0 | 67.7 | 57.5 | 39.6 | 26.6 | 21.8 | 22.2 | 26.6 | 33.5 | 26.7 | 20.4 | 19.0 | 18.1 | 20.7 | 12.5 | 67.7 | 26.4 |
| 24 | 9.4 | S | 6.0 | 7.4 | 6.6 | 6.4 | 10.3 | 14.2 | 16.0 | 19.9 | 17.1 | 23.2 | 17.7 | 10.9 | 9.3 | 8.6 | 8.1 | 5.6 | 4.6 | 8.3 | 8.9 | 9.4 | 4.5 | 11.1 | 23.2 | 10.6 |
| 25 | 3.0 | S | 5.1 | 12.3 | 9.5 | 6.3 | 5.4 | 6.5 | 5.8 | 10.1 | 6.2 | 5.5 | 3.6 | 2.1 | 1.2 | 1.2 | 2.8 | 3.0 | 3.5 | 5.5 | 4.5 | 3.6 | 4.8 | 7.5 | 12.3 | 5.2 |
| 26 | 3.2 | S | 8.7 | 5.5 | 6.0 | 4.6 | 8.0 | 6.0 | 8.1 | 9.2 | 9.2 | 5.7 | 6.9 | 4.2 | 5.5 | 6.5 | 7.7 | 14.6 | 19.0 | 22.3 | 6.0 | 7.7 | 5.2 | 5.8 | 22.3 | 8.1 |
| 27 | 2.6 | S | 3.8 | 1.7 | 4.1 | 5.3 | 4.8 | 5.7 | 11.5 | 3.1 | 1.4 | 0.8 | 0.8 | 1.3 | 1.1 | 1.8 | 1.9 | 2.0 | 3.2 | 0.9 | 0.8 | 3.9 | 3.8 | 1.2 | 11.5 | 2.9 |
| 28 | 0.7 | S | 2.2 | 3.2 | 2.9 | 1.4 | 2.4 | 15.4 | 13.5 | 4.7 | 2.5 | 1.8 | 3.9 | 3.2 | 3.4 | 3.9 | 0.9 | 1.9 | 1.7 | 1.2 | 2.7 | 9.2 | 4.9 | 1.7 | 15.4 | 3.9 |
| 29 | 2.8 | S | 5.0 | 8.9 | 11.4 | 5.8 | 5.5 | 11.4 | 10.2 | 8.9 | 4.6 | 3.0 | 4.9 | 3.8 | 6.0 | 3.9 | 3.1 | 0.8 | 9.2 | 6.4 | 5.0 | 6.4 | 5.1 | 3.5 | 11.4 | 5.9 |
| 30 | 4.2 | S | 4.7 | 10.5 | 7.9 | 3.4 | 3.5 | 8.0 | 12.0 | 5.4 | 4.8 | 1.9 | 6.6 | 2.4 | 2.0 | 2.5 | 2.0 | 6.8 | 1.9 | 1.8 | 11.6 | 14.0 | 14.3 | 16.0 | 16.0 | 6.5 |
| 31 | 22.9 | S | 2.4 | 5.3 | 4.3 | 7.3 | 5.1 | 10.1 | 13.9 | 11.6 | 9.5 | 13.8 | 9.4 | 6.4 | 2.4 | 6.4 | 9.5 | 1.0 | 1.5 | 3.5 | 13.2 | 4.3 | 6.1 | 2.7 | 22.9 | 7.5 |
| Hourly Max | 34.0 | - | 36.2 | 27.8 | 29.6 | 31.2 | 29.0 | 49.4 | 40.1 | 46.0 | 67.7 | 57.5 | 39.6 | 27.9 | 32.5 | 42.5 | 61.7 | 64.3 | 89.1 | 73.9 | 53.2 | 36.4 | 40.1 | 35.2 | | |
| Hourly Average | 10.8 | - | 9.6 | 8.7 | 10.3 | 9.3 | 8.8 | 12.5 | 14.7 | 15.4 | 16.6 | 14.0 | 11.3 | 9.4 | 8.6 | 9.0 | 12.5 | 11.5 | 14.6 | 12.0 | 11.2 | 11.7 | 11.6 | 11.1 | | |

S = SPAN C = CALIBRATION

Daily 1-hour NO_x Maximums (ppb) at Trailer



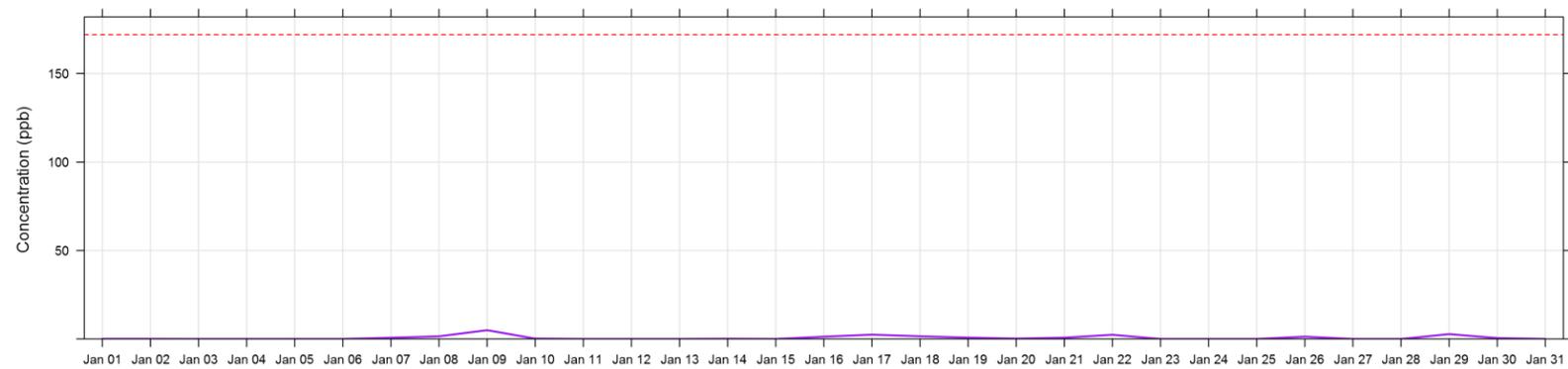
| | | | | |
|-----------------------------|------|-----------|--------------------|----------|
| Number of 1HR Exceedances | n/a | Objective | n/a | PPB |
| Number of Non-Zero Readings | 709 | | | |
| Maximum 1-HR Average | 89.1 | PPB | | |
| Maximum 24-HR Average | 38.3 | PPB | | |
| IZS Calibration Time | 31 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 4 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 11.1 | | Monthly Average | 11.5 PPB |

Lagoon SO₂ (ppb) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|
| 1 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 1.0 | S | 0.0 | 0.8 | 1.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.5 | 0.1 | 0.1 | 0.3 | 0.0 | 0.0 | 1.5 | 0.2 |
| 9 | 1.5 | S | 4.9 | 2.0 | 0.8 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 1.7 | 0.5 | 0.0 | 0.5 | 0.4 | 0.0 | 0.1 | 0.2 | 0.7 | 1.0 | 1.1 | 1.6 | 0.8 | 0.7 | 4.9 | 0.8 |
| 10 | 0.2 | S | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 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 |
| 11 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| 15 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.4 | 1.3 | 0.2 |
| 17 | 0.6 | S | 0.7 | 0.7 | 0.7 | 0.6 | 0.8 | 2.4 | 0.9 | 1.1 | 1.2 | 1.1 | 1.1 | 1.3 | 1.9 | 1.6 | 1.1 | 0.9 | 0.9 | 0.9 | 1.0 | 0.9 | 1.0 | 1.6 | 2.4 | 1.1 |
| 18 | 1.0 | S | 1.5 | 1.2 | 1.1 | 1.0 | 1.1 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 1.1 | 0.9 | 0.8 | 1.0 | 0.7 | 0.5 | 0.4 | 0.4 | 0.7 | 0.2 | 1.5 | 0.9 |
| 19 | 0.4 | S | 0.7 | 0.5 | 0.8 | 0.4 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.3 | 0.5 | 0.5 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.8 | 0.4 |
| 20 | 0.2 | S | 0.1 | 0.1 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 |
| 21 | 0.0 | S | 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 | 0.7 | 0.0 |
| 22 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.1 |
| 23 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.2 | 1.3 | 0.4 | 0.0 | 1.3 | 0.1 |
| 27 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 | 0.0 | S | 0.1 | 1.3 | 2.7 | 1.1 | 0.0 | 1.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 1.1 | 1.0 | 2.7 | 0.5 |
| 30 | 0.0 | S | 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 | 0.0 | 0.0 | 0.5 | 0.0 |
| 31 | 0.0 | S | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hourly Max | 1.5 | - | 4.9 | 2.0 | 2.7 | 1.1 | 1.1 | 2.4 | 1.5 | 1.1 | 1.7 | 1.1 | 1.1 | 2.4 | 1.9 | 1.6 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.6 | 1.1 | 1.6 | | |
| Hourly Average | 0.2 | - | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | | |

S = SPAN C = CALIBRATION

Daily 1-hour SO₂ Maximums (ppb) at Trailer



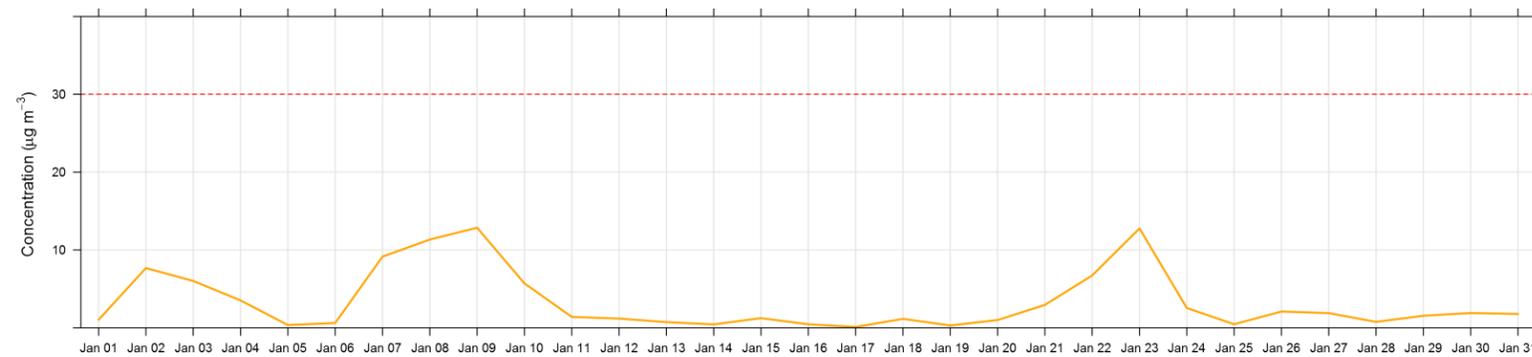
| | | | | |
|-----------------------------|-----|-----------|--------------------|---------|
| Number of 1HR Exceedances | 0 | Objective | 172 | PPB |
| Number of 24HR Exceedances | 0 | Objective | 48 | PPB |
| Number of Non-Zero Readings | 137 | | | |
| Maximum 1-HR Average | 4.9 | PPB | | |
| Maximum 24-HR Average | 1.1 | PPB | | |
| IZS Calibration Time | 31 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 4 | HRS | Operational Uptime | 100 % |
| Standard Deviation | 0.4 | | Monthly Average | 0.1 PPB |

Lagoon PM_{2.5} (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average | |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|-----|
| 1 | 2.5 | 0.0 | 0.0 | 4.1 | 2.5 | 0.0 | 0.0 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.1 | 2.4 | 0.4 | 0.0 | 0.8 | 1.8 | 2.5 | 4.2 | 4.2 | 1.0 | |
| 2 | 7.2 | 4.5 | 3.8 | 4.8 | 4.8 | 5.5 | 5.5 | 4.8 | 3.5 | 2.5 | 2.1 | 2.8 | 2.8 | 3.5 | 4.8 | 7.9 | 11.3 | 24.8 | 24.8 | 19.7 | 15.6 | 5.2 | 5.5 | 6.5 | 24.8 | 7.7 | |
| 3 | 6.5 | 4.5 | 4.5 | 3.5 | 2.1 | 1.8 | 1.1 | 0.0 | 6.2 | 6.5 | 4.8 | 13.3 | 10.6 | 6.9 | 25.7 | 7.5 | 5.5 | 4.8 | 4.8 | 5.2 | 6.9 | 6.2 | 3.8 | 1.8 | 25.7 | 6.0 | |
| 4 | 1.8 | 2.5 | 1.3 | 0.4 | 0.0 | 0.0 | 2.1 | 2.5 | 0.2 | 1.8 | 2.8 | 7.2 | 9.2 | 8.6 | 4.2 | 5.8 | 4.8 | 7.5 | 5.5 | 3.4 | 2.8 | 3.8 | 4.1 | 2.1 | 9.2 | 3.5 | |
| 5 | 0.4 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.1 | 1.8 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.1 | 0.4 | |
| 6 | 0.4 | 0.1 | 0.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 1.4 | 2.5 | 0.8 | 0.1 | 1.8 | 1.4 | 0.0 | 0.4 | 2.8 | 1.4 | 0.0 | 0.0 | 2.8 | 0.6 | |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 20.1 | 17.0 | 21.8 | 19.7 | 14.3 | 12.6 | 16.0 | 14.0 | 10.3 | 13.0 | 17.0 | 11.6 | 7.9 | 11.9 | 10.3 | 21.8 | 9.1 | |
| 8 | 12.3 | 10.6 | 13.0 | 8.9 | 10.9 | 10.6 | 10.9 | 11.3 | 9.6 | 9.6 | 10.6 | 8.2 | 6.5 | 6.2 | 6.2 | 5.2 | 15.0 | 13.0 | 20.1 | 16.4 | 13.6 | 15.0 | 12.0 | 16.7 | 20.1 | 11.3 | |
| 9 | 21.3 | 17.0 | 16.4 | 12.6 | 9.6 | 11.6 | 11.6 | 14.3 | 14.3 | 11.4 | 18.4 | 7.9 | 7.9 | 6.9 | 8.6 | 8.9 | 16.7 | 17.7 | 17.0 | 16.7 | 12.3 | 9.9 | 11.3 | 8.6 | 21.3 | 12.9 | |
| 10 | 6.9 | 8.6 | 10.3 | 9.6 | 9.2 | 5.5 | 1.8 | 4.2 | 4.8 | 4.8 | 8.9 | 8.2 | 9.2 | 7.2 | 4.1 | 1.1 | 1.8 | 3.1 | 4.8 | 4.8 | 1.1 | 7.5 | 5.2 | 4.2 | 10.3 | 5.7 | |
| 11 | 6.2 | 4.1 | 3.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 1.1 | 0.0 | 0.8 | 0.1 | 0.8 | 3.1 | 2.8 | 2.1 | 4.5 | 6.2 | 1.4 | |
| 12 | 4.8 | 3.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.6 | 2.4 | 1.4 | 1.5 | 3.8 | 1.8 | 1.1 | 0.8 | 2.1 | 1.7 | 0.8 | 4.8 | 1.2 |
| 13 | 1.4 | 1.4 | 0.4 | 1.1 | 0.8 | 0.0 | 0.0 | 0.0 | 2.5 | 2.9 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 4.1 | 2.3 | 0.0 | 0.0 | 0.0 | 4.1 | 0.7 | |
| 14 | 0.0 | 0.6 | 2.1 | 1.9 | 0.4 | 1.0 | 0.8 | 0.0 | 0.0 | 2.4 | 1.1 | 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 | 2.4 | 0.4 | |
| 15 | 0.0 | 0.0 | 0.8 | 1.1 | 1.1 | 2.1 | 0.1 | 0.0 | 0.0 | 1.8 | 1.4 | 0.0 | 5.2 | 3.8 | 1.4 | 4.5 | 3.6 | 2.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 1.2 | |
| 16 | 0.4 | 0.1 | 0.0 | 2.5 | 2.5 | 0.1 | 0.0 | 0.0 | 0.1 | 1.8 | 2.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.4 | |
| 17 | 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 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.4 | 1.1 | 0.1 | |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 5.2 | 2.5 | 4.2 | 0.0 | 0.0 | 0.4 | 2.8 | 3.1 | 0.4 | 0.0 | 2.5 | 0.0 | 6.5 | 1.1 | |
| 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 2.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.3 | |
| 20 | 0.0 | 1.4 | 0.4 | 0.0 | 0.6 | 1.5 | 0.0 | 0.1 | 2.1 | 2.5 | 4.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 4.1 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 1.0 | |
| 21 | 0.0 | 0.1 | 0.8 | 2.9 | 0.0 | 0.0 | 1.1 | 0.8 | 0.8 | 0.4 | 0.0 | 3.4 | 4.5 | 3.8 | 2.8 | 0.4 | 0.8 | 5.8 | 5.5 | 7.2 | 7.9 | 6.0 | 8.2 | 7.3 | 8.2 | 2.9 | |
| 22 | 7.5 | 5.2 | 4.1 | 3.5 | 4.1 | 4.5 | 5.5 | 4.1 | 3.1 | 1.8 | 0.0 | 0.0 | 1.8 | 1.7 | 4.0 | 4.8 | 5.2 | 8.9 | 12.6 | 13.3 | 16.0 | 19.7 | 11.6 | 18.4 | 19.7 | 6.7 | |
| 23 | 11.3 | 10.3 | 10.9 | 10.9 | 12.3 | 13.3 | 13.6 | 13.7 | 11.6 | 16.0 | 17.7 | 15.0 | 16.0 | 18.7 | 18.4 | 14.4 | 12.9 | 13.3 | 14.0 | 14.7 | 14.7 | 6.5 | 4.5 | 1.8 | 18.7 | 12.8 | |
| 24 | 3.1 | 0.8 | 0.0 | 1.1 | 5.2 | 4.0 | 2.1 | 0.1 | 1.0 | 1.8 | 0.0 | 1.1 | 3.5 | 6.2 | 4.1 | 1.4 | 7.9 | 5.2 | 3.8 | 2.8 | 1.1 | 0.8 | 1.9 | 2.1 | 7.9 | 2.5 | |
| 25 | 0.8 | 0.0 | 0.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 1.1 | 3.5 | 2.5 | 0.1 | 0.4 | 1.1 | 0.0 | 0.0 | 3.5 | 0.5 | |
| 26 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 6.6 | 4.5 | 3.8 | 9.6 | 5.5 | 1.2 | 1.1 | 3.5 | 2.8 | 1.1 | 1.8 | 1.7 | 2.1 | 2.5 | 9.6 | 2.1 | |
| 27 | 5.5 | 5.2 | 1.5 | 0.5 | 1.4 | 1.8 | 2.8 | 2.5 | 1.9 | 3.8 | 4.8 | 2.5 | 0.4 | 0.1 | 2.1 | 4.1 | 1.8 | 0.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 5.5 | 1.9 | |
| 28 | 4.8 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.1 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 3.1 | 2.5 | 0.1 | 0.0 | 0.0 | 1.1 | 2.8 | 4.8 | 0.8 | |
| 29 | 4.1 | 2.8 | 3.5 | 5.2 | 3.0 | 0.6 | 1.5 | 4.1 | 2.8 | 1.8 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.4 | 3.8 | 1.4 | 0.0 | 0.0 | 0.0 | 5.2 | 1.5 | |
| 30 | 0.0 | 0.0 | 0.0 | 0.4 | 0.3 | 0.8 | 2.8 | 4.5 | 2.8 | 2.8 | 3.5 | 3.5 | 3.1 | 2.8 | 1.8 | 3.1 | 3.8 | 3.1 | 3.1 | 1.8 | 0.0 | 0.0 | 0.4 | 1.1 | 4.5 | 1.9 | |
| 31 | 1.8 | 1.8 | 1.4 | 2.8 | 1.2 | 1.4 | 0.8 | 2.5 | 6.2 | 3.1 | 6.2 | C | C | C | 2.5 | 2.1 | 0.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 6.2 | 1.8 | |
| Hourly Max | 21.3 | 17.0 | 16.4 | 12.6 | 12.3 | 13.3 | 13.6 | 14.3 | 14.3 | 20.1 | 18.4 | 21.8 | 19.7 | 18.7 | 25.7 | 16.0 | 16.7 | 24.8 | 24.8 | 19.7 | 16.0 | 19.7 | 12.0 | 18.4 | | | |
| Hourly Average | 3.6 | 2.8 | 2.6 | 2.6 | 2.3 | 2.1 | 2.1 | 2.3 | 2.4 | 3.3 | 3.8 | 3.6 | 3.8 | 3.6 | 3.9 | 3.0 | 3.7 | 4.7 | 4.8 | 4.4 | 3.9 | 3.3 | 3.0 | 3.2 | | | |

C = CALIBRATION

24-hour PM_{2.5} (µg m⁻³) at Trailer



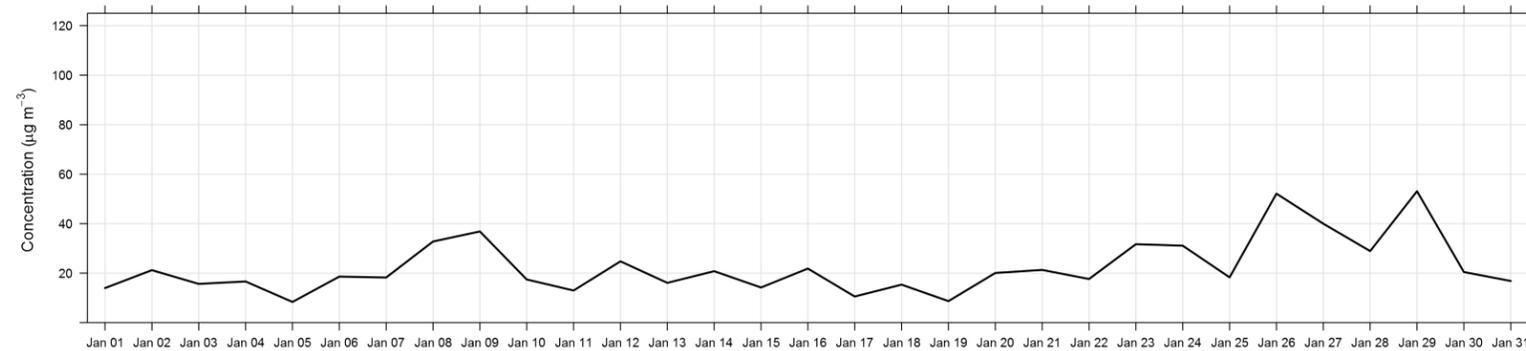
| | | | | |
|-----------------------------|------|-----------|--------------------|-----------|
| Number of 1HR Exceedances | 0 | Guideline | 80 | UG/M3 |
| Number of 24HR Exceedances | 0 | Objective | 30 | UG/M3 |
| Number of Non-Zero Readings | 494 | | | |
| Maximum 1-HR Average | 25.7 | UG/M3 | | |
| Maximum 24-HR Average | 12.9 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 3 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 4.8 | | Monthly Average | 3.3 UG/M3 |

Lagoon PM₁₀ (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|------|------|------|------|------|------|-------|-------|------|-------|------|-------|-------|------|------|------|------|-------|------|------|------|------|-------|-----------|-----------------|
| 1 | 34.5 | 18.2 | 22.3 | 19.6 | 13.5 | 16.2 | 13.5 | 14.1 | 13.5 | 12.1 | 8.0 | 14.8 | 12.7 | 12.8 | 13.5 | 7.4 | 7.4 | 12.1 | 8.0 | 4.7 | 3.3 | 8.0 | 12.1 | 33.1 | 34.5 | 14.0 |
| 2 | 12.1 | 10.1 | 17.6 | 21.6 | 26.3 | 7.4 | 6.0 | 5.3 | 4.7 | 17.5 | 36.5 | 43.3 | 20.9 | 18.2 | 7.4 | 17.5 | 20.9 | 48.0 | 43.3 | 37.3 | 27.7 | 23.0 | 24.3 | 12.1 | 48.0 | 21.2 |
| 3 | 16.9 | 14.8 | 10.1 | 10.1 | 15.5 | 6.0 | 7.4 | 5.8 | 7.4 | 12.1 | 14.1 | 31.8 | 28.4 | 18.5 | 32.4 | 15.6 | 20.2 | 17.2 | 18.2 | 13.5 | 24.3 | 12.8 | 19.6 | 3.3 | 32.4 | 15.7 |
| 4 | 5.3 | 7.3 | 5.3 | 4.7 | 8.0 | 7.4 | 5.3 | 8.7 | 12.1 | 30.4 | 14.8 | 22.3 | 33.8 | 31.8 | 33.1 | 21.6 | 18.9 | 23.6 | 7.4 | 20.2 | 21.1 | 16.9 | 16.2 | 23.0 | 33.8 | 16.6 |
| 5 | 9.4 | 11.4 | 10.8 | 8.7 | 7.4 | 5.3 | 6.0 | 4.7 | 6.0 | 8.7 | 9.4 | 6.0 | 7.4 | 17.5 | 18.2 | 14.1 | 9.4 | 5.3 | 6.0 | 4.7 | 5.3 | 6.7 | 5.3 | 6.7 | 18.2 | 8.4 |
| 6 | 15.5 | 0.0 | 2.0 | 9.4 | 9.4 | 8.0 | 6.7 | 4.7 | 16.2 | 6.0 | 8.7 | 26.3 | 45.3 | 16.2 | 46.0 | 52.1 | 42.6 | 37.2 | 33.8 | 20.2 | 16.9 | 10.8 | 6.0 | 6.7 | 52.1 | 18.6 |
| 7 | 8.0 | 5.3 | 6.0 | 7.4 | 5.3 | 3.3 | 4.0 | 6.7 | 20.2 | 33.8 | 28.4 | 34.5 | 26.3 | 30.4 | 18.9 | 30.3 | 23.0 | 16.9 | 27.7 | 27.7 | 22.3 | 12.8 | 24.3 | 14.1 | 34.5 | 18.2 |
| 8 | 22.1 | 14.1 | 15.5 | 16.8 | 17.5 | 15.5 | 14.1 | 13.5 | 41.3 | 29.7 | 24.6 | 16.8 | 63.6 | 65.7 | 56.8 | 21.6 | 37.2 | 26.3 | 22.2 | 27.0 | 30.4 | 29.7 | 90.7 | 73.8 | 90.7 | 32.8 |
| 9 | 83.3 | 39.9 | 32.7 | 21.6 | 27.0 | 19.6 | 16.9 | 27.0 | 68.8 | 55.5 | 76.5 | 25.0 | 44.0 | 54.8 | 16.2 | 14.8 | 23.0 | 33.1 | 56.2 | 31.8 | 27.7 | 26.3 | 29.1 | 33.8 | 83.3 | 36.8 |
| 10 | 24.3 | 24.3 | 17.5 | 22.3 | 11.7 | 12.8 | 13.5 | 12.1 | 9.4 | 10.8 | 21.1 | 21.6 | 33.1 | 10.8 | 6.7 | 3.2 | 42.6 | 41.3 | 22.3 | 12.8 | 10.1 | 14.8 | 10.1 | 9.4 | 42.6 | 17.4 |
| 11 | 7.2 | 10.1 | 10.1 | 6.7 | 7.5 | 7.4 | 15.5 | 10.1 | 8.7 | 19.8 | 19.6 | 23.6 | 18.9 | 22.3 | 28.7 | 25.0 | 16.9 | 4.7 | 4.2 | 3.3 | 4.0 | 6.0 | 5.3 | 26.3 | 28.7 | 13.0 |
| 12 | 6.1 | 4.8 | 8.9 | 7.3 | 5.3 | 10.1 | 7.5 | 17.1 | 22.3 | 26.8 | 27.0 | 30.4 | 56.2 | 60.2 | 58.2 | 55.5 | 47.4 | 28.4 | 29.7 | 17.1 | 7.4 | 10.1 | 10.8 | 39.9 | 60.2 | 24.8 |
| 13 | 18.9 | 12.1 | 20.9 | 7.4 | 4.0 | 1.9 | 1.9 | 2.6 | 4.1 | 6.0 | 9.4 | 21.6 | 44.0 | 24.3 | 24.3 | 21.6 | 18.9 | 16.9 | 13.5 | 10.1 | 42.6 | 26.4 | 13.0 | 19.6 | 44.0 | 16.1 |
| 14 | 18.2 | 45.3 | 23.4 | 20.9 | 31.1 | 18.9 | 11.7 | 33.1 | 35.2 | 20.2 | 25.7 | 27.0 | 18.9 | 32.9 | 12.8 | 29.1 | 0.0 | 4.0 | 24.5 | 40.6 | 20.2 | 1.9 | 0.9 | 2.6 | 45.3 | 20.8 |
| 15 | 5.3 | 31.1 | 25.7 | 25.0 | 18.2 | 4.7 | 4.1 | 4.7 | 6.7 | 18.9 | 0.0 | 17.5 | 50.1 | 43.3 | 30.4 | 12.8 | 5.3 | 0.0 | 2.1 | 6.0 | 7.4 | 8.0 | 6.2 | 7.3 | 50.1 | 14.2 |
| 16 | 7.4 | 4.0 | 2.6 | 3.3 | 1.3 | 2.6 | 8.1 | 9.4 | 16.9 | 9.4 | 25.7 | 13.5 | 19.9 | 36.5 | 55.5 | 32.8 | 37.9 | 40.6 | 83.6 | 55.2 | 19.5 | 11.4 | 10.7 | 16.7 | 83.6 | 21.8 |
| 17 | 24.3 | 11.4 | 8.0 | 6.0 | 4.0 | 4.6 | 9.4 | 15.5 | 9.4 | 7.4 | 6.7 | 6.0 | 8.0 | 18.9 | 9.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 24.2 | 37.2 | 20.9 | 17.5 | 37.2 | 10.6 |
| 18 | 20.0 | 11.4 | 15.2 | 11.4 | 3.9 | 0.0 | 4.0 | 4.0 | 4.0 | 9.4 | 29.7 | 56.3 | 75.1 | 69.0 | 33.8 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.2 | 75.1 | 15.4 |
| 19 | 18.9 | 8.7 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.7 | 28.4 | 20.9 | 17.6 | 15.5 | 18.2 | 14.8 | 11.4 | 6.0 | 0.0 | 1.3 | 5.9 | 2.6 | 9.4 | 10.7 | 8.7 | 28.4 | 8.7 |
| 20 | 8.0 | 12.1 | 19.9 | 12.8 | 50.1 | 8.7 | 8.0 | 22.6 | 36.5 | 35.2 | 52.1 | 37.5 | 23.6 | 6.0 | 3.3 | 0.0 | 28.4 | 46.7 | 50.1 | 2.6 | 3.3 | 4.0 | 5.3 | 5.0 | 52.1 | 20.1 |
| 21 | 7.4 | 8.7 | 3.3 | 4.7 | 6.7 | 4.0 | 1.9 | 17.5 | 52.8 | 20.2 | 50.7 | 32.4 | 44.6 | 50.1 | 7.4 | 5.3 | 6.3 | 20.9 | 19.6 | 19.0 | 41.9 | 24.7 | 30.4 | 31.1 | 52.8 | 21.3 |
| 22 | 23.6 | 16.2 | 17.2 | 18.9 | 23.6 | 7.4 | 15.5 | 5.3 | 19.6 | 10.1 | 15.5 | 13.5 | 29.4 | 26.3 | 20.8 | 6.7 | 4.7 | 16.9 | 13.5 | 23.0 | 28.7 | 24.3 | 22.5 | 20.2 | 29.4 | 17.6 |
| 23 | 25.3 | 16.9 | 16.2 | 12.8 | 18.9 | 25.7 | 14.1 | 25.7 | 114.4 | 64.3 | 38.5 | 44.0 | 38.5 | 31.8 | 27.7 | 39.2 | 37.4 | 29.7 | 34.5 | 25.0 | 25.7 | 20.2 | 21.6 | 12.8 | 114.4 | 31.7 |
| 24 | 13.5 | 10.1 | 5.3 | 14.8 | 7.4 | 10.1 | 16.9 | 28.4 | 55.5 | 62.9 | 53.5 | 79.2 | 81.2 | 59.6 | 28.2 | 9.4 | 16.3 | 14.8 | 15.5 | 18.9 | 4.0 | 43.1 | 45.3 | 52.8 | 81.2 | 31.1 |
| 25 | 29.7 | 29.7 | 15.7 | 11.4 | 11.4 | 8.0 | 8.7 | 11.8 | 12.1 | 14.9 | 28.4 | 70.6 | 29.7 | 25.0 | 14.8 | 4.7 | 25.0 | 6.3 | 21.1 | 12.1 | 13.0 | 13.5 | 12.8 | 8.7 | 70.6 | 18.3 |
| 26 | 3.5 | 2.6 | 3.3 | 7.4 | 18.5 | 6.7 | 8.0 | 11.7 | 46.7 | 48.7 | 73.8 | 35.2 | 145.6 | 159.9 | 58.2 | 19.6 | 51.4 | 68.4 | 102.2 | 73.8 | 86.7 | 54.8 | 27.7 | 136.8 | 159.9 | 52.1 |
| 27 | 102.9 | 69.7 | 60.1 | 26.3 | 35.8 | 25.0 | 35.8 | 61.6 | 58.9 | 91.4 | 115.1 | 31.1 | 14.1 | 22.3 | 31.7 | 18.9 | 18.2 | 7.4 | 24.7 | 13.5 | 29.4 | 17.5 | 12.1 | 35.8 | 115.1 | 40.0 |
| 28 | 11.4 | 10.8 | 10.1 | 19.0 | 6.7 | 10.4 | 12.1 | 36.5 | 23.6 | 26.3 | 16.9 | 33.1 | 38.5 | 18.2 | 17.5 | 25.0 | 20.9 | 76.5 | 39.2 | 25.0 | 25.0 | 50.7 | 58.2 | 82.2 | 82.2 | 28.9 |
| 29 | 126.0 | 75.8 | 91.4 | 97.5 | 75.1 | 59.6 | 70.4 | 122.6 | 167.3 | 54.8 | 25.0 | 17.5 | 15.5 | 21.2 | 29.7 | 12.7 | 13.5 | 10.1 | 20.2 | 31.1 | 60.9 | 37.2 | 22.3 | 16.9 | 167.3 | 53.1 |
| 30 | 16.2 | 16.9 | 22.2 | 14.8 | 15.5 | 0.0 | 2.6 | 23.6 | 31.1 | 33.8 | 35.8 | 43.3 | 41.9 | 33.1 | 24.3 | 12.1 | 10.5 | 18.9 | 23.6 | 5.3 | 9.4 | 12.8 | 25.7 | 17.5 | 43.3 | 20.5 |
| 31 | 23.0 | 9.4 | 6.7 | 5.3 | 4.0 | 1.9 | 6.7 | 24.3 | 60.5 | 44.6 | 62.4 | C | C | C | 11.8 | 11.8 | 10.8 | 9.5 | 9.0 | 11.4 | 13.0 | 8.7 | 8.6 | 10.1 | 62.4 | 16.8 |
| Hourly Max | 126.0 | 75.8 | 91.4 | 97.5 | 75.1 | 59.6 | 70.4 | 122.6 | 167.3 | 91.4 | 115.1 | 79.2 | 145.6 | 159.9 | 58.2 | 55.5 | 51.4 | 76.5 | 102.2 | 73.8 | 86.7 | 54.8 | 90.7 | 136.8 | | |
| Hourly Average | 24.1 | 18.2 | 17.2 | 15.3 | 15.8 | 10.3 | 11.5 | 19.1 | 31.9 | 28.1 | 31.4 | 29.8 | 37.5 | 35.2 | 25.6 | 17.9 | 20.0 | 22.0 | 25.1 | 19.3 | 21.2 | 18.8 | 19.6 | 26.0 | | |

C = CALIBRATION

24-hour PM₁₀ (µg m⁻³) at Trailer



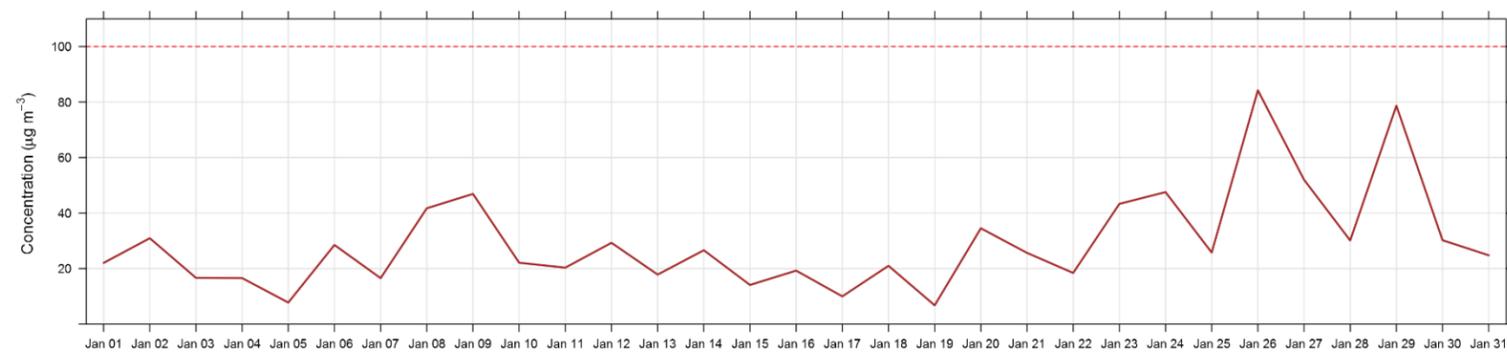
| | | | | |
|-----------------------------|-------|-----------|--------------------|------------|
| Number of 1HR Exceedances | n/a | Objective | n/a | UG/M3 |
| Number of Non-Zero Readings | 718 | | | |
| Maximum 1-HR Average | 167.3 | UG/M3 | | |
| Maximum 24-HR Average | 53.1 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 3 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 21.7 | | Monthly Average | 22.5 UG/M3 |

Lagoon TSP ($\mu\text{g}/\text{m}^3$) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|-------|-----------|-----------------|
| 1 | 51.4 | 36.5 | 40.9 | 41.9 | 18.9 | 37.9 | 29.7 | 17.5 | 6.7 | 27.0 | 18.9 | 39.2 | 13.5 | 9.4 | 13.5 | 13.5 | 24.3 | 8.0 | 9.9 | 12.1 | 9.4 | 8.0 | 8.0 | 32.4 | 51.4 | 22.0 |
| 2 | 8.0 | 6.7 | 35.2 | 33.6 | 35.2 | 6.7 | 9.4 | 10.8 | 16.2 | 21.6 | 52.8 | 75.8 | 36.5 | 18.9 | 14.8 | 64.9 | 51.4 | 54.1 | 59.6 | 49.5 | 32.4 | 12.1 | 18.9 | 17.5 | 75.8 | 30.9 |
| 3 | 12.1 | 12.1 | 13.5 | 9.4 | 17.5 | 9.4 | 8.0 | 2.7 | 5.3 | 10.8 | 18.9 | 20.2 | 18.9 | 18.9 | 36.6 | 17.5 | 20.2 | 24.3 | 16.2 | 23.0 | 29.7 | 17.5 | 34.3 | 2.6 | 36.6 | 16.7 |
| 4 | 4.0 | 6.7 | 5.3 | 5.3 | 6.7 | 1.3 | 0.6 | 4.0 | 14.8 | 44.6 | 24.3 | 33.8 | 29.4 | 33.8 | 35.2 | 21.6 | 10.8 | 29.1 | 12.1 | 5.5 | 18.9 | 20.2 | 14.8 | 14.8 | 44.6 | 16.6 |
| 5 | 5.3 | 5.3 | 8.0 | 8.0 | 4.0 | 5.3 | 8.0 | 14.8 | 0.0 | 1.3 | 1.3 | 13.5 | 16.2 | 24.3 | 20.2 | 20.2 | 4.0 | 0.0 | 0.0 | 4.9 | 4.0 | 1.3 | 6.7 | 9.3 | 24.3 | 7.7 |
| 6 | 2.6 | 0.0 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 27.0 | 5.3 | 16.2 | 32.4 | 60.9 | 18.9 | 79.9 | 116.5 | 90.7 | 83.9 | 54.1 | 31.1 | 13.5 | 28.4 | 1.3 | 17.5 | 116.5 | 28.5 |
| 7 | 13.5 | 4.0 | 2.6 | 2.6 | 1.3 | 0.9 | 4.0 | 6.7 | 25.7 | 31.1 | 20.2 | 25.7 | 19.0 | 26.5 | 18.9 | 25.7 | 25.7 | 14.8 | 31.5 | 34.7 | 21.6 | 17.5 | 13.5 | 9.4 | 34.7 | 16.5 |
| 8 | 18.9 | 12.1 | 13.5 | 14.8 | 17.8 | 8.0 | 17.5 | 10.8 | 66.3 | 39.2 | 28.4 | 16.2 | 93.4 | 92.1 | 96.1 | 23.0 | 51.4 | 32.4 | 28.4 | 23.0 | 28.4 | 32.4 | 122.1 | 115.1 | 122.1 | 41.7 |
| 9 | 117.8 | 50.3 | 35.2 | 27.0 | 29.7 | 23.0 | 18.0 | 35.2 | 116.5 | 71.8 | 108.3 | 21.6 | 48.7 | 77.2 | 12.0 | 13.5 | 14.8 | 39.2 | 70.4 | 54.9 | 41.9 | 43.3 | 32.4 | 23.0 | 117.8 | 46.9 |
| 10 | 32.4 | 18.9 | 24.3 | 12.1 | 13.5 | 14.8 | 9.4 | 10.8 | 12.1 | 21.6 | 31.1 | 37.9 | 27.0 | 21.6 | 5.3 | 5.3 | 71.8 | 66.3 | 37.8 | 13.5 | 9.3 | 14.8 | 13.5 | 5.3 | 71.8 | 22.1 |
| 11 | 2.6 | 5.3 | 21.6 | 8.0 | 5.6 | 16.3 | 12.0 | 10.8 | 21.6 | 46.0 | 48.7 | 40.6 | 23.0 | 29.7 | 56.8 | 20.0 | 29.0 | 13.5 | 5.3 | 5.3 | 13.5 | 5.3 | 4.0 | 43.3 | 56.8 | 20.3 |
| 12 | 12.6 | 8.0 | 6.7 | 6.7 | 5.3 | 6.6 | 8.0 | 16.2 | 29.1 | 33.6 | 25.7 | 40.6 | 78.5 | 100.2 | 89.4 | 74.8 | 35.2 | 21.6 | 21.6 | 35.2 | 8.0 | 8.0 | 6.7 | 24.3 | 100.2 | 29.3 |
| 13 | 11.0 | 20.2 | 24.3 | 0.0 | 0.0 | 1.3 | 3.1 | 0.0 | 1.3 | 5.3 | 9.4 | 21.6 | 63.6 | 27.3 | 43.2 | 25.7 | 24.3 | 17.5 | 20.2 | 7.2 | 29.7 | 35.2 | 13.5 | 23.0 | 63.6 | 17.8 |
| 14 | 17.5 | 56.8 | 23.2 | 18.9 | 39.2 | 21.6 | 23.0 | 58.2 | 39.2 | 36.5 | 31.1 | 39.2 | 6.7 | 29.7 | 0.0 | 31.1 | 12.6 | 18.9 | 29.7 | 54.1 | 25.7 | 8.0 | 4.0 | 13.5 | 58.2 | 26.6 |
| 15 | 12.1 | 39.2 | 32.4 | 17.8 | 21.6 | 8.0 | 5.3 | 2.6 | 0.0 | 21.6 | 1.3 | 14.8 | 44.6 | 28.4 | 30.0 | 14.8 | 8.0 | 7.7 | 6.7 | 2.6 | 15.7 | 0.0 | 0.0 | 2.6 | 44.6 | 14.1 |
| 16 | 1.3 | 5.3 | 5.3 | 2.6 | 0.0 | 0.0 | 1.3 | 1.3 | 5.5 | 18.9 | 12.1 | 6.7 | 41.9 | 40.6 | 66.3 | 46.0 | 47.8 | 46.0 | 52.7 | 28.4 | 9.4 | 9.4 | 8.0 | 5.3 | 66.3 | 19.3 |
| 17 | 13.5 | 13.5 | 0.0 | 0.0 | 2.2 | 4.0 | 2.6 | 6.5 | 9.4 | 5.3 | 8.0 | 9.4 | 1.2 | 4.0 | 10.7 | 13.5 | 2.3 | 0.0 | 0.0 | 0.3 | 17.5 | 56.8 | 32.4 | 26.2 | 56.8 | 10.0 |
| 18 | 2.7 | 5.3 | 9.7 | 6.7 | 0.0 | 0.0 | 2.6 | 4.0 | 6.7 | 9.6 | 66.3 | 104.2 | 116.2 | 87.9 | 58.2 | 0.0 | 1.3 | 5.3 | 5.3 | 2.6 | 1.3 | 0.0 | 1.4 | 6.7 | 116.2 | 21.0 |
| 19 | 0.0 | 0.0 | 5.3 | 2.6 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 29.7 | 14.8 | 2.6 | 3.6 | 4.0 | 4.2 | 4.0 | 4.0 | 5.3 | 22.6 | 16.2 | 12.1 | 10.7 | 10.7 | 6.7 | 29.7 | 6.7 |
| 20 | 17.5 | 30.9 | 41.0 | 29.7 | 92.8 | 13.5 | 16.2 | 28.4 | 58.2 | 43.3 | 75.8 | 48.7 | 1.3 | 0.0 | 2.6 | 6.7 | 56.8 | 86.7 | 105.6 | 20.2 | 9.4 | 20.2 | 11.9 | 10.8 | 105.6 | 34.5 |
| 21 | 13.6 | 0.0 | 0.0 | 4.0 | 8.0 | 4.0 | 2.6 | 14.8 | 58.2 | 29.7 | 65.0 | 35.2 | 46.0 | 50.1 | 18.9 | 8.0 | 16.2 | 28.4 | 40.5 | 32.4 | 58.2 | 29.1 | 23.0 | 29.8 | 65.0 | 25.6 |
| 22 | 22.1 | 9.4 | 8.0 | 17.5 | 31.1 | 12.1 | 10.8 | 13.5 | 18.9 | 9.4 | 25.7 | 0.0 | 41.4 | 25.7 | 20.2 | 20.2 | 12.9 | 9.4 | 18.9 | 21.6 | 29.7 | 25.7 | 20.2 | 17.7 | 41.4 | 18.4 |
| 23 | 16.2 | 16.4 | 12.1 | 14.8 | 14.8 | 28.4 | 12.1 | 31.5 | 203.2 | 126.0 | 59.6 | 48.7 | 52.6 | 28.4 | 37.9 | 54.2 | 66.3 | 54.1 | 28.4 | 33.8 | 31.1 | 32.4 | 27.0 | 9.3 | 203.2 | 43.3 |
| 24 | 9.4 | 20.0 | 0.0 | 2.6 | 9.4 | 9.4 | 10.8 | 48.7 | 94.8 | 105.6 | 96.1 | 134.1 | 128.7 | 77.2 | 29.7 | 6.7 | 30.6 | 27.0 | 32.4 | 20.2 | 12.1 | 75.8 | 78.5 | 81.2 | 134.1 | 47.5 |
| 25 | 60.9 | 43.8 | 32.4 | 4.0 | 14.8 | 8.0 | 9.4 | 14.8 | 18.9 | 21.6 | 44.6 | 102.3 | 36.2 | 25.7 | 23.0 | 5.3 | 29.7 | 14.8 | 43.3 | 16.2 | 18.9 | 13.5 | 6.7 | 9.4 | 102.3 | 25.8 |
| 26 | 6.7 | 2.6 | 6.5 | 12.1 | 10.8 | 8.0 | 5.6 | 8.0 | 63.6 | 65.0 | 112.4 | 46.0 | 237.3 | 266.9 | 91.3 | 44.6 | 88.0 | 114.4 | 165.6 | 120.5 | 132.7 | 82.6 | 58.2 | 272.4 | 272.4 | 84.2 |
| 27 | 161.2 | 55.5 | 107.0 | 55.5 | 40.6 | 46.0 | 60.9 | 98.9 | 96.1 | 94.8 | 121.9 | 47.7 | 14.8 | 14.8 | 21.6 | 18.9 | 13.5 | 14.8 | 33.8 | 20.2 | 30.0 | 33.8 | 16.2 | 29.7 | 161.2 | 52.0 |
| 28 | 8.0 | 6.7 | 6.7 | 27.0 | 17.5 | 10.8 | 14.8 | 48.7 | 25.7 | 23.0 | 8.0 | 29.7 | 35.2 | 23.0 | 18.3 | 28.4 | 24.3 | 110.8 | 41.9 | 36.5 | 27.3 | 42.3 | 43.3 | 65.0 | 110.8 | 30.1 |
| 29 | 189.7 | 119.8 | 140.9 | 161.2 | 92.1 | 90.7 | 116.5 | 204.6 | 256.1 | 79.9 | 29.8 | 24.3 | 25.7 | 14.8 | 39.3 | 8.2 | 8.0 | 5.3 | 32.4 | 40.6 | 83.9 | 65.5 | 36.4 | 23.0 | 256.1 | 78.7 |
| 30 | 20.2 | 29.7 | 24.3 | 21.6 | 17.9 | 5.3 | 20.2 | 31.1 | 51.4 | 65.0 | 46.0 | 62.3 | 47.4 | 36.5 | 28.4 | 21.6 | 20.5 | 25.7 | 44.6 | 10.8 | 16.2 | 13.5 | 39.2 | 25.7 | 65.0 | 30.2 |
| 31 | 39.2 | 9.4 | 8.0 | 8.0 | 2.9 | 0.0 | 6.7 | 34.3 | 83.9 | 69.1 | 81.2 | C | C | C | 14.8 | 28.4 | 37.9 | 19.7 | 9.4 | 16.3 | 10.8 | 14.8 | 14.8 | 10.8 | 83.9 | 24.8 |
| Hourly Max | 189.7 | 119.8 | 140.9 | 161.2 | 92.8 | 90.7 | 116.5 | 204.6 | 256.1 | 126.0 | 121.9 | 134.1 | 237.3 | 266.9 | 96.1 | 116.5 | 90.7 | 114.4 | 165.6 | 120.5 | 132.7 | 82.6 | 122.1 | 272.4 | | |
| Hourly Average | 29.2 | 21.0 | 22.5 | 18.6 | 18.4 | 13.0 | 14.5 | 25.5 | 46.2 | 39.1 | 42.1 | 39.2 | 47.0 | 41.9 | 33.5 | 25.9 | 30.1 | 32.2 | 34.9 | 25.6 | 25.9 | 25.1 | 23.3 | 31.7 | | |

C = CALIBRATION

24-hour TSP ($\mu\text{g m}^{-3}$) at Trailer

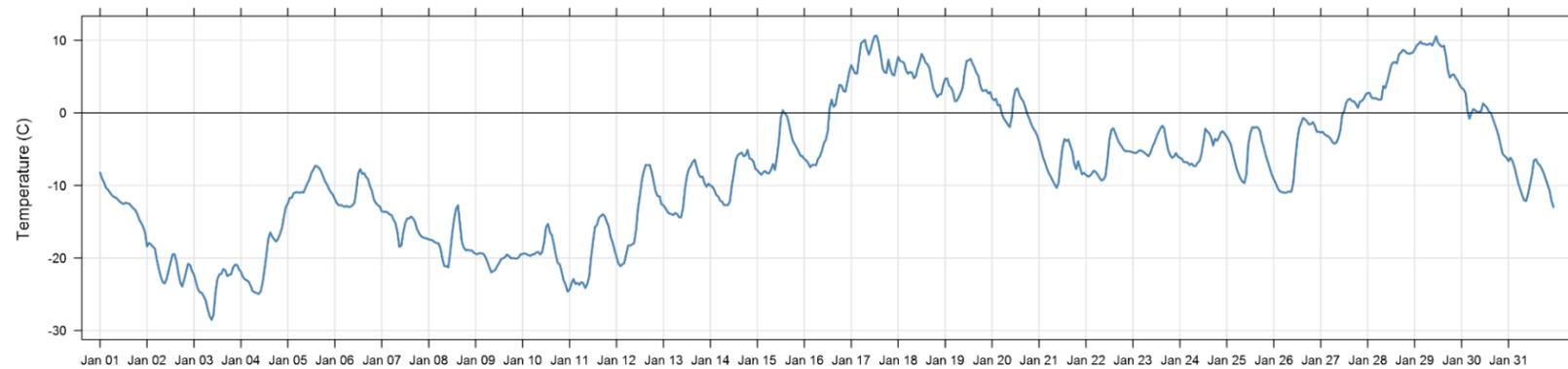


| | | | | |
|-----------------------------|-------|-----------|--------------------|------------|
| Number of 24HR Exceedances | 0 | Objective | 100 | UG/M3 |
| Number of Non-Zero Readings | 704 | | | |
| Maximum 1-HR Average | 272.4 | UG/M3 | | |
| Maximum 24-HR Average | 84.2 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 3 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 34.6 | | Monthly Average | 29.4 UG/M3 |

Lagoon Temperature (°C) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|
| 1 | -8.2 | -9.0 | -9.6 | -10.3 | -10.6 | -11.0 | -11.3 | -11.6 | -11.7 | -11.9 | -12.2 | -12.4 | -12.5 | -12.4 | -12.5 | -12.5 | -12.9 | -13.1 | -13.4 | -13.9 | -14.7 | -15.1 | -15.7 | -16.5 | -8.2 | -12.3 |
| 2 | -18.4 | -17.9 | -18.1 | -18.4 | -18.7 | -20.2 | -21.5 | -22.5 | -23.3 | -23.5 | -22.9 | -21.8 | -20.7 | -19.5 | -19.4 | -20.4 | -22.0 | -23.4 | -23.9 | -23.0 | -21.9 | -20.8 | -21.0 | -21.8 | -17.9 | -21.0 |
| 3 | -22.3 | -23.3 | -24.3 | -24.7 | -24.8 | -25.3 | -25.8 | -27.0 | -28.0 | -28.5 | -27.8 | -24.7 | -22.9 | -22.2 | -22.2 | -21.5 | -21.7 | -22.5 | -22.3 | -22.2 | -21.3 | -20.9 | -20.9 | -21.6 | -20.9 | -23.7 |
| 4 | -21.9 | -22.6 | -22.9 | -23.1 | -23.3 | -23.8 | -24.6 | -24.7 | -24.8 | -25.0 | -24.7 | -23.6 | -21.7 | -19.6 | -17.4 | -16.5 | -17.0 | -17.4 | -17.7 | -17.3 | -16.7 | -15.8 | -14.3 | -13.0 | -13.0 | -20.4 |
| 5 | -12.5 | -11.7 | -11.7 | -11.1 | -10.9 | -10.9 | -11.0 | -10.9 | -11.0 | -10.3 | -9.7 | -9.2 | -8.3 | -7.8 | -7.3 | -7.4 | -7.6 | -8.1 | -8.7 | -9.4 | -9.9 | -10.5 | -10.9 | -11.3 | -7.3 | -9.9 |
| 6 | -11.9 | -12.4 | -12.7 | -12.7 | -12.8 | -12.9 | -12.8 | -13.0 | -12.9 | -12.7 | -12.4 | -10.6 | -8.3 | -7.8 | -8.4 | -8.3 | -8.8 | -9.1 | -10.1 | -10.8 | -12.0 | -12.4 | -12.7 | -12.9 | -7.8 | -11.3 |
| 7 | -13.6 | -13.6 | -13.6 | -13.7 | -14.0 | -14.1 | -14.7 | -15.2 | -16.4 | -18.5 | -18.3 | -16.5 | -15.2 | -14.5 | -14.5 | -14.3 | -14.6 | -15.0 | -16.0 | -16.5 | -16.9 | -17.2 | -17.2 | -17.3 | -13.6 | -15.5 |
| 8 | -17.4 | -17.5 | -17.6 | -17.8 | -17.9 | -18.0 | -18.6 | -20.1 | -21.1 | -21.1 | -21.3 | -19.2 | -16.7 | -14.6 | -13.2 | -12.7 | -15.4 | -17.9 | -18.6 | -18.9 | -18.8 | -19.0 | -18.9 | -19.2 | -12.7 | -18.0 |
| 9 | -19.4 | -19.5 | -19.3 | -19.4 | -19.4 | -19.9 | -20.5 | -21.3 | -22.0 | -21.8 | -21.7 | -21.1 | -20.7 | -20.1 | -20.0 | -19.9 | -19.5 | -19.7 | -20.0 | -20.0 | -20.1 | -20.1 | -19.9 | -19.5 | -19.3 | -20.2 |
| 10 | -19.4 | -19.4 | -19.5 | -19.6 | -19.7 | -19.5 | -19.5 | -19.2 | -19.2 | -19.5 | -19.2 | -17.8 | -15.7 | -15.3 | -16.4 | -16.9 | -18.2 | -19.6 | -20.7 | -20.9 | -21.9 | -23.1 | -23.7 | -24.6 | -15.3 | -19.5 |
| 11 | -24.3 | -23.4 | -22.9 | -23.6 | -23.4 | -23.7 | -23.3 | -23.5 | -24.1 | -23.6 | -22.6 | -19.9 | -17.7 | -15.7 | -15.5 | -14.5 | -14.2 | -14.0 | -14.2 | -15.0 | -15.7 | -17.1 | -17.9 | -18.9 | -14.0 | -19.5 |
| 12 | -19.8 | -20.8 | -21.1 | -20.9 | -20.7 | -19.4 | -18.3 | -18.3 | -18.1 | -17.9 | -16.1 | -13.2 | -11.3 | -9.2 | -8.0 | -7.2 | -7.2 | -7.2 | -8.2 | -9.5 | -10.8 | -11.5 | -11.5 | -12.6 | -7.2 | -14.1 |
| 13 | -12.7 | -13.1 | -13.6 | -13.9 | -13.9 | -14.1 | -13.8 | -14.0 | -14.4 | -14.4 | -13.1 | -10.5 | -8.7 | -7.7 | -7.3 | -6.7 | -6.4 | -7.5 | -8.4 | -8.9 | -8.8 | -9.7 | -10.2 | -9.8 | -6.4 | -10.9 |
| 14 | -10.0 | -10.2 | -10.6 | -11.3 | -11.5 | -12.1 | -12.2 | -12.7 | -12.7 | -12.7 | -12.2 | -9.9 | -8.4 | -6.5 | -5.8 | -5.6 | -5.5 | -6.0 | -5.8 | -5.1 | -6.3 | -6.4 | -6.7 | -7.7 | -5.1 | -8.9 |
| 15 | -7.9 | -8.3 | -8.5 | -8.2 | -8.0 | -8.3 | -8.4 | -7.8 | -7.0 | -7.9 | -6.1 | -3.9 | -0.7 | 0.4 | -0.1 | -0.3 | -1.3 | -2.6 | -3.7 | -4.3 | -4.8 | -5.3 | -5.9 | -6.0 | 0.4 | -5.2 |
| 16 | -6.3 | -6.5 | -6.9 | -7.5 | -7.2 | -7.2 | -7.2 | -6.3 | -6.0 | -5.2 | -4.2 | -3.7 | -2.5 | 0.8 | 1.8 | 0.8 | 1.1 | 2.7 | 3.8 | 3.8 | 3.0 | 2.9 | 4.2 | 5.6 | 5.6 | -1.9 |
| 17 | 6.6 | 6.0 | 5.4 | 5.4 | 7.6 | 9.6 | 9.8 | 10.1 | 8.8 | 8.0 | 8.8 | 9.8 | 10.6 | 10.6 | 9.7 | 8.0 | 6.2 | 5.6 | 5.5 | 7.3 | 6.1 | 5.3 | 5.2 | 6.5 | 10.6 | 7.6 |
| 18 | 7.7 | 7.1 | 7.1 | 6.9 | 5.9 | 5.4 | 5.6 | 5.6 | 4.8 | 5.0 | 6.2 | 7.0 | 8.1 | 7.6 | 6.9 | 6.7 | 6.2 | 4.6 | 3.3 | 2.8 | 2.2 | 2.5 | 2.6 | 3.8 | 8.1 | 5.5 |
| 19 | 4.7 | 4.8 | 3.8 | 3.5 | 2.9 | 1.6 | 1.7 | 2.2 | 2.7 | 3.5 | 5.7 | 7.1 | 7.2 | 7.4 | 6.8 | 6.2 | 5.5 | 5.1 | 3.7 | 3.1 | 3.0 | 3.1 | 2.7 | 2.9 | 7.4 | 4.2 |
| 20 | 2.0 | 1.7 | 1.9 | 1.0 | 1.1 | -0.1 | -0.8 | -1.2 | -1.6 | -2.0 | -0.7 | 2.1 | 3.2 | 3.4 | 2.5 | 1.9 | 1.6 | 0.8 | -0.2 | -0.8 | -1.5 | -2.1 | -2.5 | -3.1 | 3.4 | 0.3 |
| 21 | -3.9 | -5.0 | -6.1 | -6.8 | -7.6 | -8.3 | -8.8 | -9.4 | -9.9 | -10.3 | -9.6 | -7.0 | -4.8 | -3.6 | -3.9 | -3.7 | -4.5 | -5.3 | -7.0 | -7.8 | -6.7 | -7.6 | -8.5 | -8.3 | -3.6 | -6.8 |
| 22 | -8.6 | -8.8 | -8.7 | -8.3 | -8.0 | -8.1 | -8.5 | -9.0 | -9.3 | -9.2 | -8.7 | -6.5 | -3.7 | -2.3 | -2.1 | -2.8 | -3.5 | -4.1 | -4.5 | -5.0 | -5.3 | -5.3 | -5.3 | -5.3 | -2.1 | -6.3 |
| 23 | -5.5 | -5.5 | -5.5 | -5.2 | -5.2 | -5.3 | -5.5 | -5.7 | -6.0 | -5.5 | -4.7 | -4.1 | -3.3 | -2.7 | -2.2 | -1.8 | -2.1 | -3.8 | -5.1 | -5.8 | -6.2 | -6.0 | -5.5 | -6.0 | -1.8 | -4.8 |
| 24 | -6.2 | -6.3 | -6.8 | -6.8 | -6.8 | -7.2 | -7.0 | -7.3 | -7.4 | -6.9 | -6.6 | -5.7 | -4.1 | -2.2 | -2.5 | -2.8 | -3.4 | -4.5 | -3.6 | -3.8 | -3.4 | -2.7 | -2.6 | -2.9 | -2.2 | -5.0 |
| 25 | -3.3 | -3.7 | -4.3 | -5.5 | -6.6 | -7.7 | -8.4 | -9.1 | -9.5 | -9.7 | -8.5 | -4.3 | -2.8 | -2.0 | -2.1 | -2.0 | -2.1 | -2.5 | -3.9 | -4.8 | -5.9 | -6.8 | -7.6 | -8.5 | -2.0 | -5.5 |
| 26 | -9.1 | -9.7 | -10.4 | -10.8 | -10.9 | -10.9 | -11.0 | -10.9 | -10.8 | -10.9 | -9.6 | -6.5 | -3.8 | -2.1 | -1.4 | -0.7 | -0.9 | -1.2 | -1.6 | -1.5 | -1.3 | -1.8 | -2.6 | -2.6 | -0.7 | -6.0 |
| 27 | -2.7 | -2.6 | -3.0 | -3.1 | -3.3 | -3.5 | -4.0 | -4.3 | -4.1 | -3.5 | -2.4 | -0.3 | 0.3 | 1.4 | 1.8 | 1.9 | 1.6 | 1.6 | 1.2 | 0.7 | 1.5 | 1.6 | 2.0 | 2.5 | 2.5 | -0.8 |
| 28 | 2.8 | 2.7 | 2.1 | 2.0 | 2.0 | 1.9 | 1.8 | 1.9 | 3.7 | 3.4 | 4.3 | 5.4 | 6.6 | 7.0 | 7.0 | 6.8 | 8.1 | 8.3 | 8.7 | 8.5 | 8.2 | 8.2 | 8.2 | 8.3 | 8.7 | 5.3 |
| 29 | 8.7 | 9.2 | 9.5 | 9.8 | 9.5 | 9.5 | 9.4 | 9.4 | 9.6 | 9.3 | 9.8 | 10.5 | 9.7 | 9.3 | 9.1 | 9.2 | 7.9 | 5.9 | 4.9 | 5.2 | 5.3 | 4.8 | 4.4 | 3.8 | 10.5 | 8.1 |
| 30 | 3.4 | 3.3 | 2.7 | 0.3 | -0.8 | 0.0 | 0.5 | 0.4 | 0.1 | 0.1 | 0.2 | 1.3 | 1.0 | 0.7 | 0.2 | 0.0 | -0.8 | -1.6 | -2.3 | -3.3 | -4.4 | -5.7 | -5.9 | -6.2 | 3.4 | -0.7 |
| 31 | -6.7 | -6.2 | -6.6 | -7.4 | -8.5 | -9.7 | -10.5 | -11.3 | -12.0 | -12.2 | -11.1 | -9.8 | -8.5 | -6.6 | -6.4 | -7.0 | -7.2 | -7.7 | -8.3 | -9.1 | -9.9 | -10.7 | -12.1 | -13.0 | -6.2 | -9.1 |
| Hourly Max | 8.7 | 9.2 | 9.5 | 9.8 | 9.5 | 9.6 | 9.8 | 10.1 | 9.6 | 9.3 | 9.8 | 10.5 | 10.6 | 10.6 | 9.7 | 9.2 | 8.1 | 8.3 | 8.7 | 8.5 | 8.2 | 8.2 | 8.2 | 8.3 | | |
| Hourly Average | -8.3 | -8.5 | -8.8 | -9.1 | -9.2 | -9.5 | -9.7 | -9.9 | -10.1 | -10.2 | -9.4 | -7.7 | -6.3 | -5.4 | -5.3 | -5.3 | -5.8 | -6.4 | -7.0 | -7.3 | -7.6 | -7.9 | -8.1 | -8.2 | | |

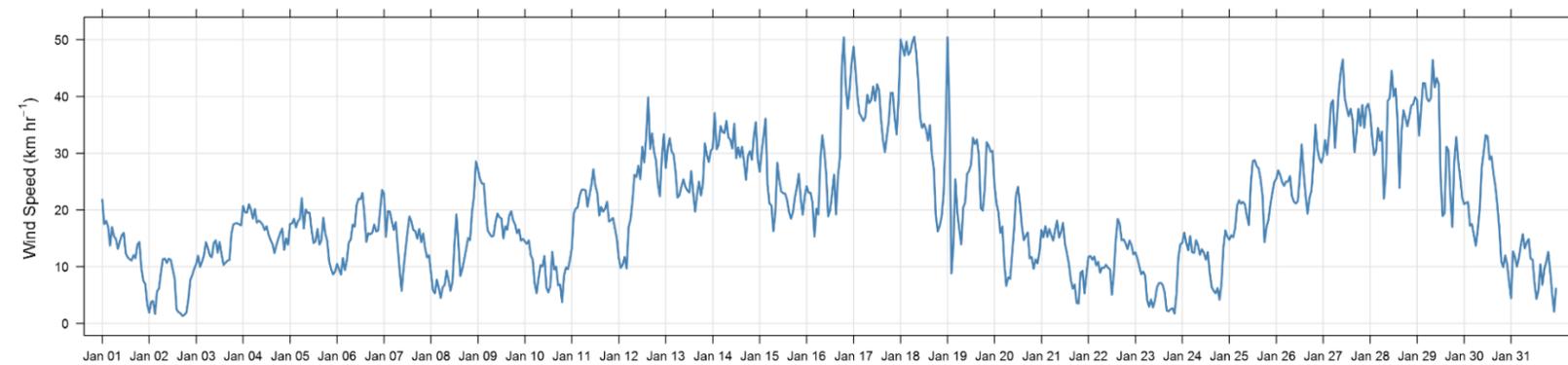
1-hour Temperature (C) at Trailer



Lagoon Wind Speed (km/hr) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 21.8 | 17.5 | 18.1 | 17.0 | 13.7 | 17.0 | 15.4 | 14.9 | 13.1 | 14.4 | 15.6 | 16.0 | 12.4 | 11.6 | 11.3 | 11.1 | 12.0 | 11.5 | 13.9 | 14.3 | 9.7 | 7.5 | 6.9 | 3.3 | 21.8 | 13.3 |
| 2 | 1.9 | 3.8 | 3.9 | 1.7 | 5.6 | 6.2 | 9.0 | 11.3 | 11.4 | 10.7 | 11.4 | 11.2 | 9.6 | 7.9 | 2.5 | 2.0 | 1.8 | 1.3 | 1.5 | 1.9 | 4.2 | 7.7 | 8.5 | 9.6 | 11.4 | 6.1 |
| 3 | 10.5 | 11.9 | 10.0 | 10.8 | 12.0 | 14.3 | 13.3 | 11.9 | 11.7 | 14.2 | 14.6 | 12.5 | 14.3 | 12.2 | 10.3 | 10.7 | 11.1 | 11.2 | 15.8 | 17.4 | 17.6 | 17.7 | 17.4 | 17.3 | 17.7 | 13.4 |
| 4 | 20.7 | 19.6 | 19.6 | 21.0 | 20.1 | 18.5 | 20.2 | 17.8 | 18.1 | 17.8 | 17.4 | 16.5 | 17.1 | 15.7 | 14.7 | 14.0 | 12.4 | 13.8 | 14.9 | 16.0 | 16.7 | 13.0 | 15.0 | 13.9 | 21.0 | 16.8 |
| 5 | 17.5 | 17.6 | 18.4 | 16.9 | 18.0 | 18.4 | 22.1 | 16.7 | 20.1 | 19.5 | 19.5 | 16.4 | 14.2 | 14.5 | 16.6 | 13.9 | 14.7 | 18.6 | 15.8 | 14.5 | 10.9 | 9.5 | 8.6 | 9.1 | 22.1 | 15.9 |
| 6 | 10.5 | 9.5 | 8.6 | 11.5 | 9.4 | 11.1 | 14.2 | 14.8 | 17.4 | 17.0 | 20.8 | 22.0 | 21.9 | 23.0 | 19.2 | 14.4 | 15.9 | 15.7 | 16.0 | 17.4 | 16.2 | 16.4 | 19.9 | 23.5 | 23.5 | 16.1 |
| 7 | 22.9 | 15.3 | 19.8 | 19.7 | 18.0 | 16.5 | 17.9 | 13.5 | 9.3 | 5.8 | 9.6 | 12.9 | 16.1 | 18.9 | 18.0 | 16.5 | 16.3 | 15.0 | 16.6 | 14.3 | 15.9 | 13.3 | 11.6 | 12.0 | 22.9 | 15.2 |
| 8 | 9.0 | 5.9 | 5.3 | 7.7 | 6.2 | 4.5 | 6.4 | 6.8 | 9.3 | 7.7 | 5.8 | 7.4 | 13.8 | 19.2 | 14.3 | 8.4 | 9.5 | 11.3 | 13.1 | 15.1 | 14.7 | 19.7 | 22.4 | 28.5 | 28.5 | 11.3 |
| 9 | 27.2 | 25.5 | 24.7 | 24.6 | 19.9 | 16.4 | 15.8 | 15.3 | 15.5 | 17.9 | 19.4 | 18.7 | 18.5 | 15.0 | 17.1 | 16.5 | 19.0 | 19.8 | 18.2 | 17.4 | 15.9 | 16.6 | 14.6 | 14.9 | 27.2 | 18.5 |
| 10 | 14.4 | 14.0 | 14.6 | 12.0 | 11.3 | 7.1 | 5.3 | 8.0 | 10.3 | 10.0 | 11.9 | 6.3 | 5.5 | 6.6 | 12.6 | 9.5 | 10.0 | 6.7 | 6.9 | 3.8 | 8.4 | 9.9 | 9.5 | 11.2 | 14.6 | 9.4 |
| 11 | 13.3 | 19.4 | 20.2 | 20.5 | 22.5 | 23.5 | 23.6 | 23.5 | 20.6 | 22.5 | 24.4 | 27.2 | 24.3 | 23.0 | 19.0 | 20.5 | 19.7 | 20.3 | 21.4 | 17.9 | 18.2 | 18.6 | 16.8 | 14.9 | 27.2 | 20.7 |
| 12 | 11.5 | 9.8 | 10.4 | 11.7 | 9.7 | 16.9 | 18.4 | 21.7 | 26.2 | 25.8 | 27.8 | 25.4 | 31.1 | 28.4 | 33.0 | 39.8 | 30.8 | 33.5 | 30.3 | 28.7 | 24.6 | 22.4 | 29.2 | 33.3 | 39.8 | 24.2 |
| 13 | 27.4 | 30.8 | 32.6 | 30.3 | 29.8 | 26.7 | 22.2 | 22.6 | 24.1 | 25.4 | 24.1 | 23.4 | 23.1 | 26.8 | 23.0 | 19.7 | 22.7 | 25.0 | 22.5 | 24.6 | 31.7 | 29.7 | 28.4 | 30.4 | 32.6 | 26.1 |
| 14 | 30.9 | 37.1 | 30.7 | 31.4 | 34.8 | 33.8 | 33.5 | 35.7 | 32.8 | 32.4 | 30.8 | 35.2 | 29.1 | 31.0 | 29.3 | 31.1 | 28.6 | 25.3 | 29.5 | 30.3 | 28.9 | 33.0 | 35.5 | 28.9 | 37.1 | 31.6 |
| 15 | 26.7 | 30.2 | 33.0 | 36.1 | 24.5 | 21.1 | 20.8 | 16.3 | 19.6 | 28.3 | 25.4 | 23.3 | 23.0 | 22.9 | 21.8 | 19.6 | 18.5 | 19.6 | 22.2 | 24.0 | 26.4 | 21.9 | 19.1 | 22.3 | 36.1 | 23.6 |
| 16 | 24.2 | 23.1 | 23.0 | 21.2 | 15.3 | 20.2 | 19.2 | 28.7 | 33.1 | 30.4 | 26.3 | 18.9 | 20.0 | 22.9 | 26.2 | 19.2 | 25.9 | 29.2 | 45.5 | 50.4 | 41.9 | 37.8 | 41.4 | 45.9 | 50.4 | 28.8 |
| 17 | 48.8 | 44.5 | 39.9 | 37.0 | 36.4 | 35.7 | 36.4 | 40.3 | 38.8 | 39.4 | 41.7 | 39.2 | 42.1 | 41.1 | 36.0 | 32.3 | 30.2 | 33.0 | 35.7 | 40.6 | 40.6 | 36.3 | 33.3 | 40.0 | 48.8 | 38.3 |
| 18 | 50.0 | 48.7 | 47.2 | 49.7 | 47.3 | 47.9 | 49.5 | 50.5 | 47.7 | 42.8 | 36.3 | 34.4 | 35.2 | 34.2 | 32.2 | 34.9 | 29.7 | 27.3 | 19.0 | 16.2 | 17.2 | 18.9 | 22.9 | 33.5 | 50.5 | 36.4 |
| 19 | 50.4 | 37.1 | 8.8 | 13.7 | 25.4 | 19.6 | 16.6 | 13.9 | 20.4 | 21.3 | 26.3 | 26.9 | 28.0 | 32.7 | 31.6 | 32.4 | 29.6 | 20.3 | 19.9 | 23.8 | 31.9 | 31.3 | 30.3 | 30.4 | 50.4 | 25.9 |
| 20 | 24.4 | 21.2 | 19.6 | 16.0 | 17.1 | 10.7 | 6.6 | 8.1 | 7.9 | 12.2 | 16.5 | 22.6 | 24.1 | 21.0 | 17.2 | 14.7 | 15.4 | 16.0 | 11.5 | 11.7 | 9.6 | 11.3 | 10.6 | 12.6 | 24.4 | 14.9 |
| 21 | 16.5 | 15.2 | 17.1 | 15.2 | 16.7 | 15.5 | 14.6 | 16.5 | 18.1 | 15.1 | 16.0 | 17.7 | 14.1 | 12.4 | 10.5 | 7.7 | 6.1 | 6.9 | 3.6 | 3.5 | 8.9 | 9.3 | 5.3 | 8.8 | 18.1 | 12.1 |
| 22 | 11.7 | 11.9 | 11.2 | 11.8 | 10.2 | 10.9 | 8.9 | 9.8 | 9.8 | 10.3 | 9.8 | 9.6 | 5.1 | 8.8 | 14.8 | 18.4 | 17.5 | 14.7 | 14.8 | 14.1 | 13.1 | 14.6 | 13.8 | 12.2 | 18.4 | 12.0 |
| 23 | 12.5 | 11.5 | 10.1 | 8.7 | 9.1 | 8.4 | 4.1 | 2.9 | 4.2 | 2.8 | 4.0 | 6.3 | 7.1 | 7.1 | 6.8 | 5.4 | 2.3 | 2.1 | 2.5 | 2.7 | 1.7 | 5.2 | 11.7 | 14.0 | 14.0 | 6.4 |
| 24 | 14.2 | 16.0 | 14.2 | 12.9 | 15.4 | 12.6 | 12.4 | 14.7 | 13.8 | 12.1 | 13.1 | 12.5 | 11.2 | 12.6 | 8.9 | 6.4 | 5.7 | 5.3 | 6.2 | 4.2 | 6.9 | 13.3 | 16.4 | 15.3 | 16.4 | 11.5 |
| 25 | 14.8 | 15.5 | 15.2 | 16.8 | 20.8 | 21.7 | 21.1 | 21.4 | 20.9 | 18.9 | 17.3 | 24.7 | 28.6 | 28.8 | 27.7 | 27.3 | 25.4 | 22.5 | 14.3 | 16.9 | 18.2 | 20.9 | 23.0 | 24.9 | 28.8 | 21.2 |
| 26 | 25.5 | 27.0 | 26.1 | 24.9 | 24.2 | 25.0 | 25.0 | 26.0 | 22.5 | 21.5 | 21.1 | 21.5 | 25.6 | 31.5 | 26.6 | 22.6 | 19.3 | 22.1 | 23.4 | 28.3 | 35.0 | 30.8 | 29.1 | 28.3 | 35.0 | 25.5 |
| 27 | 29.5 | 32.3 | 29.7 | 33.6 | 38.7 | 39.3 | 31.0 | 35.9 | 41.2 | 44.5 | 46.5 | 39.8 | 38.0 | 36.5 | 37.8 | 35.9 | 30.2 | 33.5 | 37.8 | 34.8 | 38.5 | 34.5 | 38.1 | 38.7 | 46.5 | 36.5 |
| 28 | 37.0 | 32.9 | 29.7 | 30.4 | 34.4 | 32.2 | 33.8 | 22.0 | 26.4 | 39.2 | 39.7 | 44.5 | 40.0 | 41.4 | 35.5 | 23.9 | 33.7 | 37.6 | 36.3 | 34.7 | 36.3 | 38.4 | 38.6 | 39.8 | 44.5 | 34.9 |
| 29 | 39.3 | 33.1 | 37.7 | 42.4 | 42.3 | 39.6 | 39.1 | 39.7 | 46.4 | 41.6 | 43.2 | 42.2 | 25.8 | 18.9 | 19.4 | 31.1 | 30.5 | 22.5 | 17.0 | 28.6 | 32.8 | 28.6 | 25.7 | 22.2 | 46.4 | 32.9 |
| 30 | 21.0 | 21.2 | 21.4 | 17.2 | 17.5 | 15.6 | 13.7 | 16.5 | 20.3 | 27.4 | 30.2 | 33.2 | 33.0 | 28.9 | 29.4 | 26.4 | 24.2 | 20.8 | 16.7 | 10.9 | 9.9 | 12.0 | 10.4 | 7.3 | 33.2 | 20.2 |
| 31 | 4.4 | 12.7 | 11.7 | 10.0 | 11.5 | 13.8 | 15.7 | 13.2 | 14.3 | 14.9 | 11.4 | 11.2 | 7.1 | 4.3 | 5.8 | 10.4 | 6.8 | 9.6 | 10.9 | 12.6 | 9.2 | 5.2 | 2.1 | 6.1 | 15.7 | 9.8 |
| Hourly Max | 50.4 | 48.7 | 47.2 | 49.7 | 47.3 | 47.9 | 49.5 | 50.5 | 47.7 | 44.5 | 46.5 | 44.5 | 42.1 | 41.4 | 37.8 | 39.8 | 33.7 | 37.6 | 45.5 | 50.4 | 41.9 | 38.4 | 41.4 | 45.9 | | |
| Hourly Average | 22.3 | 21.7 | 20.4 | 20.5 | 20.6 | 20.0 | 19.5 | 19.7 | 20.8 | 21.4 | 21.9 | 21.9 | 21.2 | 21.3 | 20.3 | 19.3 | 18.6 | 18.4 | 18.5 | 19.1 | 19.7 | 19.5 | 19.9 | 21.1 | | |

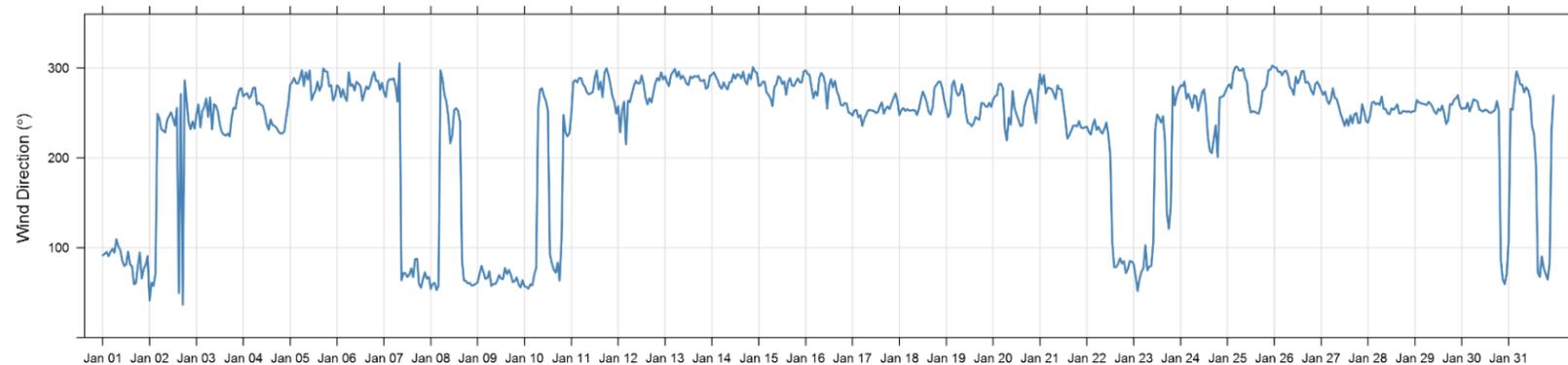
1-hour Wind Speed (km hr⁻¹) at Trailer



Lagoon Wind Direction (°) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|
| 1 | 91.6 | 93.1 | 95.4 | 90.5 | 95.5 | 98.7 | 94.4 | 109.5 | 101.5 | 97.4 | 86.0 | 79.8 | 81.3 | 95.5 | 81.3 | 79.5 | 59.4 | 60.5 | 80.1 | 94.6 | 65.8 | 76.3 | 80.9 | 90.7 | 109.5 | 86.6 |
| 2 | 41.4 | 61.1 | 57.5 | 71.1 | 249.0 | 244.0 | 232.1 | 230.1 | 228.2 | 241.9 | 246.4 | 250.5 | 243.6 | 235.9 | 255.7 | 49.7 | 271.0 | 36.6 | 286.1 | 262.8 | 239.7 | 231.9 | 240.4 | 232.5 | 286.1 | 197.5 |
| 3 | 248.4 | 259.4 | 234.0 | 252.0 | 256.4 | 265.9 | 245.7 | 267.1 | 231.9 | 259.7 | 257.9 | 251.4 | 236.9 | 228.4 | 226.0 | 224.7 | 226.9 | 223.8 | 244.0 | 255.8 | 254.6 | 268.2 | 276.3 | 277.5 | 277.5 | 248.9 |
| 4 | 268.4 | 270.8 | 271.9 | 266.3 | 269.1 | 277.7 | 278.2 | 259.4 | 261.5 | 259.1 | 257.7 | 249.6 | 237.3 | 231.4 | 242.7 | 236.4 | 235.5 | 233.5 | 229.3 | 227.0 | 227.2 | 229.4 | 244.9 | 259.1 | 278.2 | 251.0 |
| 5 | 281.0 | 284.1 | 288.9 | 283.2 | 282.6 | 288.7 | 297.4 | 280.0 | 295.3 | 287.3 | 297.3 | 264.2 | 270.6 | 274.9 | 284.7 | 274.7 | 280.0 | 299.6 | 296.4 | 295.8 | 279.6 | 280.7 | 263.6 | 269.0 | 299.6 | 283.3 |
| 6 | 280.7 | 278.5 | 267.6 | 276.3 | 267.7 | 263.4 | 295.2 | 280.0 | 281.8 | 274.9 | 284.6 | 282.5 | 279.7 | 263.6 | 271.8 | 279.5 | 276.4 | 280.9 | 290.4 | 295.7 | 285.5 | 285.7 | 275.8 | 283.6 | 295.7 | 279.2 |
| 7 | 273.0 | 267.7 | 284.8 | 287.5 | 287.3 | 288.4 | 279.9 | 262.6 | 305.4 | 63.9 | 72.0 | 71.6 | 67.5 | 69.9 | 77.0 | 67.3 | 87.2 | 87.7 | 59.7 | 55.6 | 65.1 | 72.5 | 65.5 | 67.6 | 305.4 | 149.4 |
| 8 | 54.2 | 59.6 | 60.9 | 52.9 | 57.8 | 297.3 | 287.1 | 270.2 | 262.6 | 245.5 | 216.2 | 225.1 | 253.0 | 255.2 | 252.3 | 240.4 | 85.8 | 63.6 | 62.9 | 60.2 | 60.7 | 57.9 | 58.4 | 59.8 | 297.3 | 150.0 |
| 9 | 61.4 | 71.0 | 79.8 | 72.5 | 65.3 | 66.4 | 73.9 | 57.6 | 59.7 | 59.5 | 62.9 | 69.6 | 65.6 | 65.2 | 77.3 | 70.7 | 75.3 | 70.2 | 61.8 | 62.8 | 67.0 | 59.2 | 55.8 | 63.8 | 79.8 | 66.4 |
| 10 | 57.1 | 56.4 | 54.4 | 59.2 | 58.0 | 70.0 | 77.9 | 254.4 | 276.0 | 277.4 | 268.6 | 263.0 | 252.3 | 92.6 | 82.9 | 75.6 | 72.2 | 83.3 | 63.4 | 108.7 | 247.7 | 228.5 | 223.9 | 227.7 | 277.4 | 147.1 |
| 11 | 250.0 | 284.4 | 286.6 | 283.8 | 288.8 | 288.8 | 281.8 | 279.0 | 272.8 | 270.7 | 271.9 | 273.3 | 289.0 | 297.1 | 275.9 | 284.7 | 267.6 | 294.9 | 299.7 | 292.1 | 281.7 | 268.6 | 262.3 | 249.2 | 299.7 | 278.9 |
| 12 | 257.4 | 228.4 | 252.9 | 262.5 | 215.0 | 263.5 | 262.1 | 271.2 | 279.8 | 285.8 | 282.9 | 282.8 | 291.7 | 282.4 | 267.2 | 259.4 | 266.4 | 261.7 | 272.7 | 283.1 | 288.8 | 285.9 | 295.2 | 287.2 | 295.2 | 270.3 |
| 13 | 291.0 | 284.1 | 279.9 | 292.2 | 295.5 | 298.9 | 290.0 | 296.0 | 287.8 | 291.3 | 288.0 | 282.4 | 281.1 | 290.5 | 288.6 | 291.0 | 290.2 | 291.4 | 285.8 | 285.6 | 286.9 | 276.8 | 279.0 | 291.2 | 298.9 | 288.1 |
| 14 | 292.6 | 295.0 | 290.4 | 286.0 | 279.7 | 276.9 | 284.1 | 279.0 | 276.2 | 284.3 | 284.4 | 293.0 | 288.0 | 293.2 | 292.0 | 288.3 | 295.8 | 285.6 | 281.9 | 293.2 | 287.5 | 301.0 | 296.0 | 294.6 | 301.0 | 288.3 |
| 15 | 280.0 | 280.8 | 284.7 | 284.7 | 272.5 | 270.1 | 265.9 | 257.7 | 278.7 | 282.0 | 290.9 | 288.8 | 282.2 | 285.1 | 270.1 | 284.4 | 288.6 | 280.5 | 279.9 | 284.5 | 288.3 | 284.2 | 283.9 | 296.0 | 296.0 | 281.0 |
| 16 | 297.4 | 293.5 | 292.2 | 278.4 | 266.4 | 273.8 | 269.2 | 289.0 | 294.4 | 291.4 | 282.3 | 254.6 | 280.5 | 287.7 | 278.5 | 285.6 | 274.0 | 268.6 | 259.1 | 258.0 | 261.1 | 260.2 | 250.2 | 249.7 | 297.4 | 274.8 |
| 17 | 247.0 | 252.8 | 253.2 | 245.1 | 247.6 | 235.6 | 243.5 | 248.1 | 253.0 | 253.4 | 252.5 | 252.2 | 249.8 | 251.0 | 257.2 | 261.7 | 249.1 | 254.5 | 257.2 | 254.2 | 260.5 | 266.5 | 271.8 | 263.4 | 271.8 | 253.4 |
| 18 | 247.7 | 253.1 | 255.5 | 252.3 | 254.3 | 252.4 | 252.7 | 253.3 | 252.8 | 247.8 | 254.5 | 265.0 | 273.6 | 268.5 | 261.5 | 251.5 | 248.0 | 256.0 | 278.2 | 281.2 | 284.6 | 284.7 | 277.1 | 263.6 | 284.7 | 261.2 |
| 19 | 254.7 | 245.4 | 249.6 | 281.1 | 285.9 | 274.6 | 269.3 | 271.1 | 281.7 | 271.7 | 250.7 | 239.0 | 238.1 | 235.2 | 238.2 | 245.5 | 243.6 | 242.4 | 261.1 | 260.6 | 257.6 | 256.6 | 261.3 | 256.7 | 285.9 | 257.2 |
| 20 | 264.6 | 268.7 | 269.7 | 281.9 | 282.6 | 277.6 | 232.5 | 219.5 | 244.7 | 236.9 | 274.3 | 255.2 | 248.1 | 242.5 | 235.4 | 236.1 | 256.5 | 264.7 | 270.8 | 276.3 | 267.9 | 251.6 | 238.7 | 272.1 | 282.6 | 257.0 |
| 21 | 293.1 | 281.8 | 292.0 | 271.7 | 278.3 | 277.2 | 276.7 | 271.4 | 265.5 | 280.7 | 276.4 | 276.1 | 259.3 | 242.1 | 221.4 | 225.0 | 230.2 | 235.8 | 235.8 | 235.1 | 240.9 | 233.7 | 233.3 | 233.7 | 293.1 | 257.0 |
| 22 | 234.8 | 228.8 | 226.0 | 236.4 | 242.7 | 231.1 | 234.7 | 229.6 | 226.9 | 232.4 | 239.3 | 226.0 | 203.1 | 106.9 | 78.5 | 78.5 | 82.1 | 88.3 | 82.5 | 85.1 | 71.7 | 76.2 | 85.2 | 84.7 | 242.7 | 163.0 |
| 23 | 81.6 | 67.6 | 51.8 | 65.3 | 73.5 | 77.5 | 102.5 | 74.8 | 78.9 | 79.8 | 105.0 | 231.2 | 248.3 | 244.2 | 239.2 | 246.3 | 220.2 | 137.8 | 121.2 | 145.7 | 279.4 | 258.2 | 269.2 | 275.6 | 279.4 | 157.3 |
| 24 | 280.5 | 279.9 | 284.9 | 265.8 | 271.3 | 264.6 | 255.8 | 269.7 | 268.1 | 252.3 | 263.1 | 272.6 | 276.0 | 257.8 | 223.7 | 207.7 | 205.3 | 220.9 | 236.1 | 200.9 | 267.0 | 268.0 | 268.7 | 273.8 | 284.9 | 255.6 |
| 25 | 279.0 | 281.8 | 277.2 | 294.5 | 300.9 | 301.3 | 297.1 | 297.0 | 299.8 | 289.1 | 284.5 | 261.1 | 250.4 | 251.7 | 251.2 | 250.1 | 249.1 | 257.4 | 274.7 | 276.4 | 280.6 | 297.3 | 298.1 | 302.6 | 302.6 | 279.3 |
| 26 | 300.7 | 300.4 | 295.8 | 295.9 | 291.8 | 296.1 | 296.9 | 291.9 | 279.0 | 276.1 | 270.0 | 290.2 | 282.7 | 287.5 | 296.4 | 296.7 | 283.7 | 284.8 | 281.2 | 274.3 | 270.4 | 281.9 | 284.6 | 280.6 | 300.7 | 287.1 |
| 27 | 275.1 | 270.2 | 273.8 | 264.3 | 259.8 | 264.8 | 277.3 | 266.8 | 265.3 | 257.5 | 248.7 | 242.6 | 235.5 | 243.2 | 235.8 | 247.1 | 238.3 | 248.3 | 250.1 | 238.8 | 239.1 | 259.6 | 251.4 | 241.0 | 277.3 | 253.9 |
| 28 | 239.1 | 246.8 | 261.3 | 262.5 | 259.4 | 260.9 | 258.8 | 268.0 | 254.6 | 254.5 | 249.6 | 248.4 | 255.0 | 253.4 | 255.8 | 259.5 | 249.4 | 249.8 | 252.2 | 251.8 | 251.1 | 251.8 | 250.5 | 252.0 | 268.0 | 254.0 |
| 29 | 251.8 | 264.4 | 261.8 | 260.9 | 260.2 | 259.7 | 258.8 | 262.3 | 260.2 | 256.7 | 251.3 | 248.9 | 254.6 | 252.4 | 258.2 | 249.6 | 237.8 | 241.6 | 259.9 | 259.0 | 264.4 | 266.4 | 269.8 | 258.3 | 269.8 | 257.0 |
| 30 | 254.1 | 255.6 | 254.8 | 261.3 | 251.7 | 257.5 | 265.2 | 263.8 | 263.1 | 254.0 | 252.6 | 251.6 | 253.7 | 252.9 | 250.6 | 250.0 | 251.6 | 253.3 | 263.1 | 252.3 | 87.1 | 64.7 | 59.5 | 71.2 | 265.2 | 224.8 |
| 31 | 107.2 | 254.5 | 253.4 | 275.6 | 296.4 | 290.2 | 281.7 | 281.2 | 272.9 | 278.5 | 275.1 | 266.8 | 234.8 | 226.8 | 192.5 | 72.1 | 67.5 | 90.2 | 77.4 | 70.7 | 64.5 | 83.0 | 231.9 | 269.3 | 296.4 | 200.6 |
| Hourly Max | 300.7 | 300.4 | 295.8 | 295.9 | 300.9 | 301.3 | 297.4 | 297.0 | 305.4 | 291.4 | 297.3 | 293.0 | 291.7 | 297.1 | 296.4 | 296.7 | 295.8 | 299.6 | 299.7 | 295.8 | 288.8 | 301.0 | 298.1 | 302.6 | | |
| Hourly Average | 223.8 | 229.7 | 230.4 | 232.7 | 237.5 | 246.9 | 245.8 | 248.8 | 250.3 | 241.7 | 241.9 | 242.2 | 240.8 | 231.1 | 226.4 | 215.1 | 215.0 | 208.0 | 217.9 | 218.6 | 221.8 | 221.5 | 225.9 | 229.0 | | |

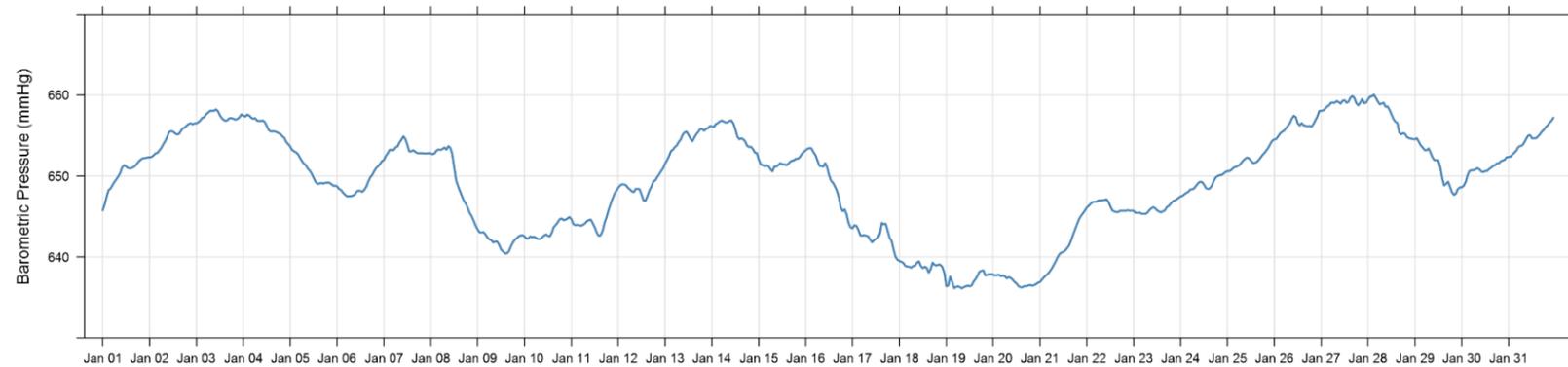
1-hour Wind Direction (°) at Trailer



Lagoon Pressure (mmHg) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|
| 1 | 645.8 | 646.5 | 647.4 | 648.3 | 648.5 | 648.9 | 649.3 | 649.6 | 650.0 | 650.4 | 651.1 | 651.3 | 651.2 | 651.0 | 650.9 | 651.0 | 651.1 | 651.3 | 651.7 | 651.9 | 652.1 | 652.2 | 652.3 | 652.3 | 652.3 | 650.2 |
| 2 | 652.3 | 652.4 | 652.5 | 652.8 | 652.8 | 653.2 | 653.5 | 653.9 | 654.3 | 654.8 | 655.4 | 655.5 | 655.5 | 655.3 | 655.1 | 655.2 | 655.5 | 655.9 | 656.0 | 656.2 | 656.4 | 656.5 | 656.4 | 656.5 | 656.5 | 654.8 |
| 3 | 656.5 | 656.7 | 656.9 | 657.2 | 657.3 | 657.6 | 657.8 | 658.1 | 658.1 | 658.1 | 658.2 | 658.0 | 657.5 | 657.2 | 656.9 | 656.8 | 656.9 | 657.2 | 657.2 | 657.1 | 657.0 | 657.1 | 657.3 | 657.6 | 658.2 | 657.3 |
| 4 | 657.5 | 657.3 | 657.6 | 657.5 | 657.2 | 657.1 | 657.2 | 656.9 | 656.8 | 656.8 | 656.9 | 656.7 | 656.2 | 655.7 | 655.5 | 655.5 | 655.5 | 655.4 | 655.3 | 655.2 | 654.9 | 654.7 | 654.2 | 653.9 | 657.6 | 656.1 |
| 5 | 653.6 | 653.2 | 653.1 | 652.9 | 652.7 | 652.3 | 651.9 | 651.5 | 651.3 | 650.9 | 650.7 | 650.3 | 649.8 | 649.3 | 649.0 | 649.1 | 649.1 | 649.1 | 649.2 | 649.2 | 649.2 | 649.0 | 648.8 | 648.8 | 653.6 | 650.6 |
| 6 | 648.7 | 648.4 | 648.3 | 648.0 | 647.7 | 647.5 | 647.5 | 647.5 | 647.6 | 647.7 | 648.1 | 648.2 | 648.1 | 648.1 | 648.3 | 648.7 | 649.3 | 649.8 | 650.1 | 650.6 | 651.0 | 651.2 | 651.5 | 651.8 | 651.8 | 648.9 |
| 7 | 652.0 | 652.5 | 652.8 | 653.3 | 653.2 | 653.2 | 653.5 | 653.7 | 654.2 | 654.5 | 654.9 | 654.6 | 653.8 | 653.0 | 653.0 | 653.2 | 653.0 | 652.8 | 652.8 | 652.8 | 652.8 | 652.8 | 652.8 | 652.8 | 654.9 | 653.3 |
| 8 | 652.8 | 652.7 | 652.8 | 653.2 | 653.3 | 653.2 | 653.3 | 653.5 | 653.3 | 653.7 | 653.5 | 652.7 | 651.1 | 649.5 | 648.7 | 648.1 | 647.5 | 646.9 | 646.6 | 646.0 | 645.4 | 645.0 | 644.5 | 643.9 | 653.7 | 650.0 |
| 9 | 643.4 | 643.1 | 643.0 | 643.1 | 642.8 | 642.4 | 642.2 | 642.1 | 641.8 | 641.9 | 641.9 | 641.5 | 640.9 | 640.7 | 640.4 | 640.4 | 640.7 | 641.3 | 641.8 | 642.1 | 642.3 | 642.5 | 642.7 | 642.7 | 643.4 | 642.0 |
| 10 | 642.5 | 642.3 | 642.3 | 642.5 | 642.4 | 642.5 | 642.3 | 642.2 | 642.2 | 642.4 | 642.6 | 642.8 | 642.6 | 642.6 | 643.0 | 643.7 | 644.0 | 644.3 | 644.6 | 644.8 | 644.5 | 644.6 | 644.7 | 644.9 | 644.9 | 643.2 |
| 11 | 644.7 | 644.1 | 643.9 | 644.0 | 643.9 | 643.9 | 644.0 | 644.1 | 644.4 | 644.5 | 644.6 | 644.1 | 643.6 | 643.0 | 642.6 | 642.7 | 643.2 | 644.2 | 644.9 | 645.8 | 646.5 | 647.2 | 647.8 | 648.2 | 648.2 | 644.6 |
| 12 | 648.6 | 648.8 | 649.0 | 649.0 | 648.9 | 648.5 | 648.4 | 648.4 | 648.1 | 648.0 | 648.4 | 648.3 | 647.7 | 647.0 | 647.0 | 647.6 | 648.2 | 648.7 | 649.3 | 649.5 | 649.9 | 650.2 | 650.6 | 651.0 | 651.0 | 648.7 |
| 13 | 651.5 | 651.9 | 652.4 | 653.1 | 653.2 | 653.6 | 653.8 | 654.2 | 654.5 | 655.1 | 655.4 | 655.5 | 655.1 | 654.6 | 654.3 | 654.8 | 655.2 | 655.4 | 655.8 | 655.8 | 655.6 | 655.8 | 655.9 | 656.2 | 656.2 | 654.5 |
| 14 | 656.1 | 656.1 | 656.4 | 656.5 | 656.8 | 656.8 | 656.8 | 656.6 | 656.6 | 656.8 | 656.9 | 656.5 | 655.8 | 654.9 | 654.5 | 654.6 | 654.5 | 654.3 | 653.7 | 653.6 | 653.6 | 653.3 | 652.9 | 652.8 | 656.9 | 655.3 |
| 15 | 652.0 | 651.4 | 651.4 | 651.2 | 651.3 | 651.2 | 650.8 | 650.6 | 651.2 | 651.2 | 651.4 | 651.6 | 651.4 | 651.5 | 651.3 | 651.5 | 651.8 | 651.9 | 651.9 | 652.1 | 652.1 | 652.3 | 652.7 | 653.0 | 653.0 | 651.6 |
| 16 | 653.2 | 653.4 | 653.4 | 653.4 | 652.9 | 652.6 | 651.9 | 651.3 | 651.2 | 651.2 | 651.6 | 651.1 | 650.1 | 649.4 | 649.2 | 648.7 | 648.2 | 647.4 | 646.1 | 645.6 | 645.9 | 645.2 | 644.2 | 643.7 | 653.4 | 649.6 |
| 17 | 643.6 | 643.9 | 643.8 | 643.3 | 642.7 | 642.7 | 642.7 | 642.6 | 642.6 | 642.1 | 641.8 | 642.1 | 642.2 | 642.4 | 642.9 | 644.2 | 644.0 | 644.1 | 643.2 | 642.4 | 642.0 | 640.9 | 640.0 | 639.7 | 644.2 | 642.6 |
| 18 | 639.5 | 639.4 | 639.3 | 638.9 | 638.8 | 638.8 | 638.7 | 638.9 | 638.9 | 639.3 | 639.5 | 638.9 | 638.6 | 638.8 | 638.7 | 638.1 | 638.5 | 639.3 | 639.0 | 638.9 | 639.1 | 639.0 | 638.8 | 638.0 | 639.5 | 638.9 |
| 19 | 636.4 | 636.5 | 637.6 | 636.9 | 636.1 | 636.3 | 636.4 | 636.3 | 636.1 | 636.3 | 636.4 | 636.5 | 636.4 | 636.5 | 637.0 | 637.3 | 637.7 | 638.2 | 638.3 | 638.3 | 637.7 | 637.8 | 637.9 | 637.9 | 638.3 | 637.0 |
| 20 | 637.8 | 637.7 | 637.8 | 637.8 | 637.6 | 637.7 | 637.6 | 637.4 | 637.5 | 637.4 | 637.2 | 636.9 | 636.7 | 636.4 | 636.3 | 636.2 | 636.4 | 636.4 | 636.5 | 636.5 | 636.5 | 636.4 | 636.5 | 636.8 | 637.8 | 637.0 |
| 21 | 636.9 | 637.2 | 637.5 | 637.7 | 637.9 | 638.2 | 638.6 | 639.0 | 639.4 | 640.0 | 640.4 | 640.6 | 640.6 | 640.8 | 641.1 | 641.5 | 642.1 | 642.8 | 643.4 | 644.1 | 644.7 | 645.1 | 645.4 | 645.7 | 645.7 | 640.9 |
| 22 | 646.1 | 646.3 | 646.6 | 646.8 | 646.8 | 646.8 | 647.0 | 647.0 | 647.0 | 647.1 | 647.1 | 646.9 | 646.3 | 645.8 | 645.6 | 645.5 | 645.5 | 645.7 | 645.7 | 645.7 | 645.7 | 645.8 | 645.7 | 645.7 | 647.1 | 646.3 |
| 23 | 645.7 | 645.4 | 645.4 | 645.5 | 645.3 | 645.3 | 645.3 | 645.5 | 645.8 | 646.0 | 646.2 | 646.0 | 645.7 | 645.6 | 645.5 | 645.6 | 645.8 | 646.2 | 646.3 | 646.6 | 646.9 | 647.0 | 647.1 | 647.3 | 647.3 | 646.0 |
| 24 | 647.5 | 647.6 | 647.8 | 647.9 | 648.1 | 648.3 | 648.4 | 648.5 | 648.8 | 649.1 | 649.3 | 649.3 | 648.9 | 648.5 | 648.4 | 648.5 | 648.8 | 649.4 | 649.8 | 650.0 | 650.1 | 650.1 | 650.3 | 650.5 | 650.5 | 648.9 |
| 25 | 650.6 | 650.6 | 650.7 | 651.0 | 651.1 | 651.2 | 651.3 | 651.6 | 651.9 | 652.1 | 652.3 | 652.2 | 651.9 | 651.6 | 651.6 | 651.7 | 652.0 | 652.3 | 652.6 | 652.9 | 653.2 | 653.5 | 654.0 | 654.4 | 654.4 | 652.0 |
| 26 | 654.5 | 654.6 | 654.9 | 655.3 | 655.5 | 655.6 | 655.9 | 656.2 | 656.5 | 657.1 | 657.4 | 657.3 | 656.5 | 656.3 | 656.6 | 656.3 | 656.2 | 656.1 | 656.2 | 656.1 | 656.4 | 656.9 | 657.3 | 658.0 | 658.0 | 656.2 |
| 27 | 658.1 | 658.1 | 658.3 | 658.6 | 658.7 | 659.0 | 659.1 | 659.1 | 659.3 | 659.1 | 658.9 | 659.3 | 659.4 | 659.0 | 659.2 | 659.7 | 659.9 | 659.6 | 659.0 | 658.7 | 659.1 | 659.5 | 659.0 | 659.1 | 659.9 | 659.0 |
| 28 | 659.5 | 659.8 | 659.9 | 660.1 | 659.7 | 659.2 | 658.9 | 659.0 | 659.1 | 658.5 | 658.6 | 658.2 | 657.6 | 657.1 | 656.7 | 656.6 | 655.4 | 655.1 | 655.3 | 655.2 | 654.8 | 654.7 | 654.6 | 654.6 | 660.1 | 657.4 |
| 29 | 654.5 | 654.7 | 654.2 | 653.8 | 653.5 | 653.2 | 653.2 | 653.4 | 652.9 | 652.3 | 652.0 | 652.0 | 652.0 | 651.1 | 649.8 | 648.8 | 649.0 | 649.3 | 648.7 | 648.0 | 647.7 | 647.8 | 648.4 | 648.6 | 654.7 | 651.2 |
| 30 | 648.6 | 648.8 | 649.3 | 650.1 | 650.6 | 650.7 | 650.7 | 650.8 | 651.0 | 650.8 | 650.6 | 650.5 | 650.6 | 650.6 | 650.9 | 651.0 | 651.2 | 651.3 | 651.6 | 651.6 | 651.8 | 651.9 | 652.0 | 652.3 | 652.3 | 650.8 |
| 31 | 652.4 | 652.4 | 652.7 | 652.9 | 653.2 | 653.6 | 653.7 | 653.8 | 654.1 | 654.6 | 655.0 | 655.0 | 654.6 | 654.7 | 654.7 | 654.9 | 655.1 | 655.5 | 655.7 | 656.0 | 656.3 | 656.6 | 656.8 | 657.2 | 657.2 | 654.6 |
| Hourly Max | 659.5 | 659.8 | 659.9 | 660.1 | 659.7 | 659.2 | 659.1 | 659.1 | 659.3 | 659.1 | 658.9 | 659.3 | 659.4 | 659.0 | 659.2 | 659.7 | 659.9 | 659.6 | 659.0 | 658.7 | 659.1 | 659.5 | 659.0 | 659.1 | | |
| Hourly Average | 649.1 | 649.1 | 649.3 | 649.4 | 649.4 | 649.4 | 649.4 | 649.4 | 649.6 | 649.7 | 649.8 | 649.7 | 649.3 | 649.0 | 648.9 | 648.9 | 649.1 | 649.3 | 649.3 | 649.3 | 649.4 | 649.5 | 649.5 | 649.5 | | |

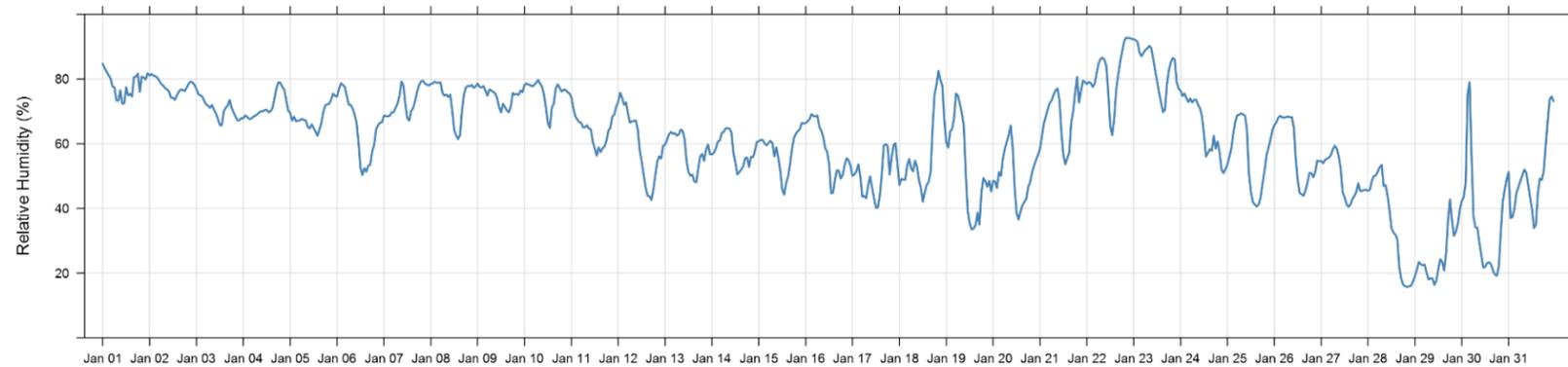
1-hour Barometric Pressures (mmHg) at Trailer



Lagoon Relative Humidity (%) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 84.7 | 83.3 | 82.2 | 81.2 | 80.2 | 77.7 | 77.4 | 73.4 | 73.3 | 76.5 | 72.4 | 72.5 | 77.5 | 74.9 | 75.4 | 74.6 | 80.6 | 80.7 | 81.7 | 76.0 | 80.6 | 80.5 | 79.8 | 81.7 | 84.7 | 78.3 |
| 2 | 81.1 | 81.6 | 81.0 | 80.9 | 80.3 | 79.4 | 78.4 | 77.9 | 77.1 | 76.8 | 76.0 | 74.2 | 74.2 | 73.6 | 74.9 | 76.1 | 76.7 | 76.6 | 76.2 | 77.3 | 78.5 | 79.2 | 78.9 | 78.2 | 81.6 | 77.7 |
| 3 | 76.9 | 75.3 | 74.9 | 74.6 | 73.2 | 72.1 | 71.7 | 71.0 | 71.9 | 70.5 | 69.4 | 67.6 | 65.7 | 65.7 | 70.0 | 71.1 | 71.8 | 73.5 | 71.1 | 69.7 | 68.4 | 67.2 | 67.2 | 67.9 | 76.9 | 70.8 |
| 4 | 67.8 | 68.7 | 68.3 | 67.6 | 67.7 | 68.3 | 68.6 | 69.0 | 69.6 | 70.0 | 70.0 | 70.4 | 70.5 | 69.7 | 70.0 | 71.1 | 74.1 | 77.2 | 79.0 | 78.8 | 77.5 | 76.7 | 73.5 | 70.2 | 79.0 | 71.4 |
| 5 | 69.5 | 67.2 | 68.3 | 66.9 | 67.1 | 67.2 | 67.7 | 67.3 | 67.2 | 65.2 | 64.7 | 66.0 | 64.9 | 63.7 | 62.4 | 64.3 | 66.5 | 69.9 | 71.8 | 72.2 | 72.3 | 73.7 | 75.5 | 74.7 | 75.5 | 68.2 |
| 6 | 74.6 | 76.9 | 78.6 | 78.2 | 77.5 | 74.6 | 72.1 | 72.0 | 70.8 | 69.0 | 66.5 | 60.4 | 52.6 | 50.3 | 52.4 | 51.3 | 53.2 | 53.5 | 57.6 | 59.6 | 64.4 | 65.7 | 66.5 | 66.6 | 78.6 | 65.2 |
| 7 | 68.6 | 68.5 | 68.5 | 68.6 | 69.7 | 69.7 | 71.1 | 72.4 | 74.8 | 79.2 | 77.9 | 72.1 | 67.9 | 67.1 | 70.2 | 71.1 | 73.3 | 76.1 | 78.1 | 79.3 | 79.4 | 78.6 | 78.2 | 78.0 | 79.4 | 73.3 |
| 8 | 78.4 | 78.6 | 79.1 | 78.8 | 78.8 | 78.9 | 75.7 | 74.9 | 75.1 | 74.4 | 75.2 | 70.2 | 64.2 | 62.5 | 61.4 | 62.7 | 70.4 | 75.2 | 77.4 | 77.8 | 77.7 | 78.2 | 77.3 | 77.7 | 79.1 | 74.2 |
| 9 | 78.6 | 77.5 | 77.4 | 77.8 | 76.4 | 74.9 | 76.7 | 76.5 | 76.0 | 75.5 | 74.0 | 71.3 | 69.7 | 72.3 | 71.3 | 70.3 | 69.7 | 71.4 | 75.6 | 75.2 | 75.3 | 75.1 | 76.4 | 75.9 | 78.6 | 74.6 |
| 10 | 78.1 | 78.6 | 78.2 | 78.1 | 77.7 | 78.2 | 78.9 | 79.7 | 78.6 | 77.6 | 75.1 | 71.0 | 66.4 | 64.9 | 71.1 | 72.3 | 77.0 | 78.3 | 77.3 | 76.1 | 76.7 | 76.6 | 75.9 | 75.5 | 79.7 | 75.7 |
| 11 | 74.4 | 71.0 | 68.5 | 67.5 | 66.7 | 66.5 | 65.0 | 65.1 | 65.7 | 64.7 | 64.4 | 60.6 | 58.4 | 56.3 | 58.8 | 57.4 | 58.6 | 59.1 | 61.0 | 64.1 | 64.9 | 68.4 | 69.0 | 71.5 | 74.4 | 64.5 |
| 12 | 73.0 | 75.7 | 74.2 | 72.0 | 72.8 | 69.4 | 66.5 | 66.9 | 67.0 | 67.2 | 64.5 | 58.0 | 54.6 | 50.6 | 46.5 | 43.9 | 43.8 | 42.6 | 45.8 | 50.2 | 54.5 | 56.1 | 55.4 | 59.3 | 75.7 | 59.6 |
| 13 | 59.7 | 61.1 | 62.9 | 63.6 | 63.1 | 63.3 | 62.5 | 62.8 | 64.3 | 63.9 | 61.4 | 54.6 | 51.2 | 50.1 | 50.4 | 48.3 | 48.1 | 52.4 | 56.1 | 56.8 | 54.7 | 58.2 | 59.7 | 56.7 | 64.3 | 57.8 |
| 14 | 56.7 | 57.2 | 58.5 | 60.6 | 61.0 | 63.3 | 63.6 | 64.7 | 64.7 | 64.7 | 63.5 | 57.2 | 54.2 | 50.5 | 51.2 | 52.0 | 52.9 | 55.5 | 55.7 | 52.8 | 56.0 | 55.8 | 57.7 | 60.5 | 64.7 | 57.9 |
| 15 | 60.7 | 61.2 | 61.2 | 60.0 | 59.5 | 60.2 | 60.9 | 60.1 | 56.1 | 58.8 | 55.7 | 51.6 | 45.8 | 44.3 | 47.9 | 49.9 | 53.6 | 58.5 | 61.7 | 63.1 | 63.8 | 64.5 | 66.4 | 66.3 | 66.4 | 58.0 |
| 16 | 66.4 | 66.9 | 67.6 | 69.1 | 68.5 | 68.5 | 68.6 | 65.2 | 64.0 | 62.1 | 58.6 | 57.5 | 53.7 | 44.7 | 44.8 | 48.8 | 51.8 | 51.6 | 49.2 | 50.4 | 53.5 | 55.5 | 54.9 | 53.0 | 69.1 | 58.1 |
| 17 | 50.1 | 50.5 | 51.5 | 53.6 | 49.8 | 43.7 | 43.9 | 43.1 | 47.2 | 49.9 | 46.5 | 43.1 | 40.2 | 40.3 | 43.9 | 50.5 | 59.4 | 59.9 | 59.3 | 50.5 | 55.6 | 59.6 | 60.2 | 53.6 | 60.2 | 50.2 |
| 18 | 47.3 | 49.0 | 48.9 | 48.9 | 53.4 | 55.3 | 52.5 | 51.4 | 54.7 | 53.0 | 48.8 | 46.4 | 42.1 | 45.0 | 47.2 | 48.2 | 51.2 | 64.9 | 75.1 | 78.2 | 82.5 | 79.7 | 77.9 | 67.2 | 82.5 | 57.0 |
| 19 | 60.4 | 58.8 | 63.8 | 64.5 | 67.9 | 75.5 | 74.8 | 72.2 | 69.4 | 65.5 | 51.0 | 39.2 | 35.3 | 33.5 | 33.8 | 34.8 | 38.7 | 35.0 | 44.8 | 49.3 | 48.5 | 46.7 | 48.5 | 45.2 | 75.5 | 52.4 |
| 20 | 48.5 | 48.3 | 46.3 | 51.2 | 50.0 | 55.3 | 58.4 | 60.6 | 62.7 | 65.6 | 59.1 | 46.6 | 38.6 | 36.6 | 39.0 | 40.9 | 42.0 | 43.0 | 46.6 | 48.2 | 51.2 | 53.3 | 55.0 | 56.6 | 65.6 | 50.1 |
| 21 | 58.4 | 62.3 | 66.3 | 68.4 | 70.7 | 72.6 | 73.4 | 75.3 | 76.5 | 77.1 | 73.3 | 63.2 | 56.4 | 53.6 | 55.5 | 57.3 | 66.5 | 70.0 | 75.8 | 80.6 | 72.7 | 76.2 | 79.4 | 79.1 | 80.6 | 69.2 |
| 22 | 78.4 | 79.0 | 78.8 | 77.5 | 78.5 | 81.8 | 84.7 | 86.2 | 86.6 | 85.9 | 84.0 | 75.5 | 65.4 | 62.6 | 67.4 | 76.5 | 81.0 | 85.0 | 88.2 | 91.4 | 92.7 | 92.7 | 92.6 | 92.4 | 92.7 | 81.9 |
| 23 | 92.3 | 92.0 | 91.4 | 88.1 | 87.0 | 88.0 | 89.0 | 89.5 | 90.2 | 89.6 | 86.2 | 82.6 | 79.3 | 75.8 | 72.7 | 69.8 | 70.4 | 78.4 | 82.7 | 85.2 | 86.4 | 86.0 | 79.0 | 77.0 | 92.3 | 83.7 |
| 24 | 76.4 | 74.7 | 75.5 | 74.0 | 72.9 | 73.9 | 72.8 | 73.6 | 73.5 | 71.9 | 70.9 | 68.3 | 62.8 | 56.0 | 57.1 | 58.3 | 57.8 | 62.4 | 58.5 | 60.6 | 57.2 | 51.9 | 50.9 | 52.2 | 76.4 | 65.2 |
| 25 | 53.6 | 56.0 | 58.6 | 63.2 | 66.7 | 68.7 | 68.9 | 69.4 | 69.0 | 68.7 | 64.3 | 50.8 | 45.2 | 42.0 | 41.2 | 40.6 | 41.2 | 43.3 | 47.8 | 51.6 | 56.3 | 58.7 | 61.2 | 64.1 | 69.4 | 56.3 |
| 26 | 65.7 | 66.6 | 68.0 | 68.6 | 68.2 | 68.0 | 68.2 | 68.4 | 68.2 | 68.2 | 65.0 | 55.3 | 48.7 | 44.8 | 44.3 | 43.9 | 45.6 | 48.0 | 51.0 | 50.9 | 49.6 | 51.3 | 54.8 | 54.5 | 68.6 | 57.7 |
| 27 | 54.7 | 54.0 | 54.9 | 55.4 | 55.7 | 56.5 | 58.3 | 59.3 | 58.5 | 56.1 | 52.4 | 45.0 | 43.4 | 41.3 | 40.5 | 41.2 | 42.9 | 43.8 | 45.1 | 47.7 | 45.3 | 45.4 | 45.7 | 45.7 | 59.3 | 49.5 |
| 28 | 45.5 | 45.8 | 48.6 | 50.0 | 50.2 | 51.4 | 52.7 | 53.4 | 46.9 | 47.2 | 43.9 | 39.4 | 33.9 | 32.6 | 31.9 | 30.5 | 21.9 | 18.3 | 16.4 | 16.0 | 15.7 | 16.0 | 16.1 | 17.3 | 53.4 | 35.1 |
| 29 | 19.0 | 21.0 | 23.4 | 22.8 | 22.4 | 22.6 | 20.1 | 18.0 | 18.4 | 18.3 | 16.4 | 17.7 | 21.2 | 24.3 | 23.5 | 20.8 | 26.4 | 36.6 | 42.8 | 36.4 | 31.5 | 32.8 | 35.2 | 39.7 | 42.8 | 25.5 |
| 30 | 42.3 | 43.5 | 47.9 | 75.4 | 79.1 | 56.4 | 37.6 | 34.1 | 34.1 | 29.5 | 25.7 | 21.8 | 22.0 | 23.1 | 23.4 | 22.7 | 20.7 | 19.5 | 19.2 | 22.2 | 32.6 | 42.1 | 45.8 | 49.0 | 79.1 | 36.2 |
| 31 | 51.2 | 37.0 | 37.4 | 40.0 | 44.8 | 46.5 | 48.4 | 50.1 | 52.0 | 51.1 | 47.4 | 43.3 | 39.7 | 33.9 | 35.0 | 44.9 | 49.2 | 48.8 | 51.7 | 59.5 | 66.8 | 73.6 | 74.6 | 73.1 | 74.6 | 50.0 |
| Hourly Max | 92.3 | 92.0 | 91.4 | 88.1 | 87.0 | 88.0 | 89.0 | 89.5 | 90.2 | 89.6 | 86.2 | 82.6 | 79.3 | 75.8 | 75.4 | 76.5 | 81.0 | 85.0 | 88.2 | 91.4 | 92.7 | 92.7 | 92.6 | 92.4 | | |
| Hourly Average | 64.3 | 64.1 | 64.9 | 66.0 | 66.4 | 66.1 | 65.5 | 65.3 | 65.3 | 65.0 | 62.1 | 57.2 | 53.7 | 51.8 | 52.8 | 53.7 | 56.0 | 58.4 | 60.7 | 61.5 | 62.7 | 63.7 | 64.2 | 63.9 | | |

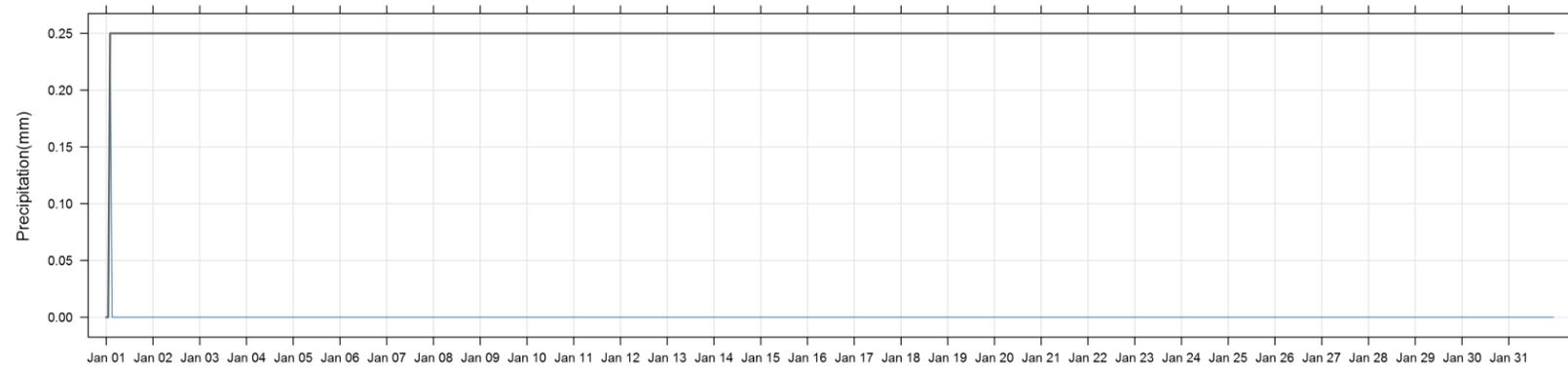
1-hour Relative Humidity (%) at Trailer



Lagoon Precipitation (mm) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Total | |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|---------------|------|
| 1 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.25 | 0.25 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 28 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 29 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| 31 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| Hourly Max | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |
| Hourly Average | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 |

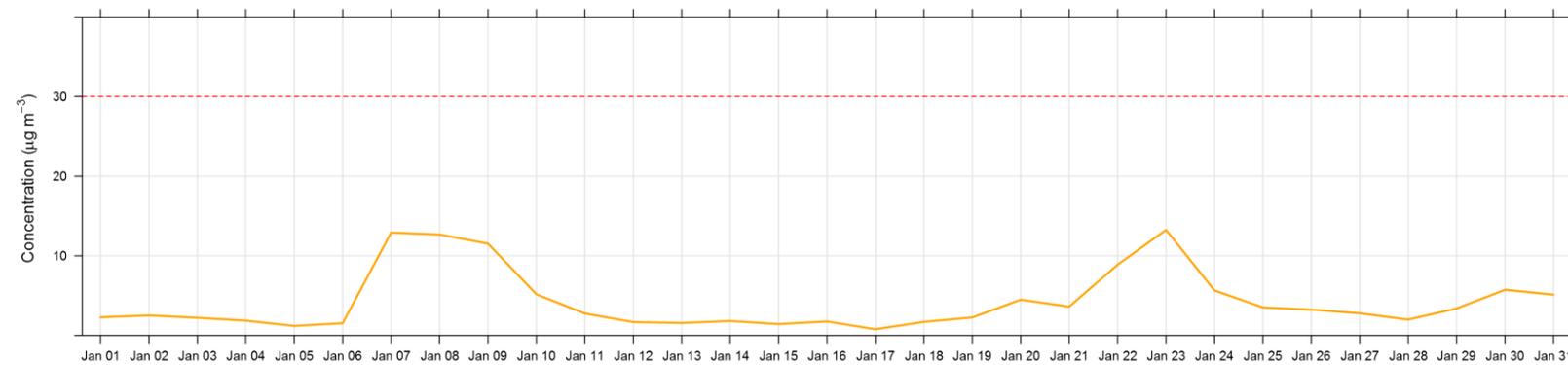
1-hour Precipitation (mm) at Trailer



West PM_{2.5} (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 5.8 | 5.8 | 5.5 | 6.5 | 4.1 | 2.7 | 3.1 | 3.1 | 2.6 | 2.4 | 1.1 | 1.0 | 1.0 | 0.6 | 1.2 | 1.1 | 0.9 | 0.9 | 1.1 | 1.5 | 1.0 | 0.5 | 0.5 | 0.6 | 6.5 | 2.3 |
| 2 | 0.6 | 1.1 | 4.6 | 4.1 | 2.8 | 2.0 | 1.2 | 1.0 | 0.9 | 1.0 | 2.2 | 1.7 | 1.6 | 2.6 | 2.8 | 3.0 | 3.1 | 3.2 | 2.0 | 2.3 | 3.5 | 4.5 | 4.6 | 3.9 | 4.6 | 2.5 |
| 3 | 3.1 | 2.9 | 2.5 | 2.2 | 1.7 | 1.5 | 1.3 | 1.5 | 1.5 | 1.6 | 2.3 | 2.8 | 1.9 | 1.8 | 1.6 | 1.8 | 2.1 | 2.2 | 2.3 | 3.0 | 2.3 | 3.5 | 3.1 | 2.6 | 3.5 | 2.2 |
| 4 | 1.9 | 1.7 | 1.6 | 1.2 | 1.0 | 1.5 | 1.4 | 1.2 | 1.1 | 1.5 | 1.8 | 2.1 | 2.3 | 2.4 | 2.5 | 2.6 | 1.8 | 1.4 | 1.9 | 1.7 | 2.0 | 2.9 | 3.0 | 1.9 | 3.0 | 1.9 |
| 5 | 2.3 | 1.2 | 1.0 | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.7 | 1.0 | 1.2 | 1.3 | 1.5 | 1.2 | 1.4 | 1.6 | 1.6 | 1.6 | 2.0 | 1.7 | 2.0 | 2.3 | 1.2 |
| 6 | 1.8 | 1.6 | 1.4 | 1.2 | 1.1 | 1.1 | 1.1 | 1.3 | 1.5 | 1.4 | 1.4 | 1.6 | 1.7 | 1.9 | 1.9 | 1.6 | 1.7 | 1.3 | 1.3 | 1.6 | 2.0 | 1.8 | 1.7 | 1.5 | 2.0 | 1.5 |
| 7 | 1.5 | 1.4 | 1.3 | 1.2 | 1.2 | 1.3 | 1.6 | 1.0 | 1.3 | 3.7 | 27.3 | 28.8 | 34.7 | 31.2 | 23.9 | 20.1 | 18.2 | 18.3 | 17.6 | 12.4 | 13.0 | 15.4 | 15.9 | 17.9 | 34.7 | 12.9 |
| 8 | 17.1 | 13.7 | 12.4 | 12.5 | 13.7 | 11.2 | 12.7 | 11.4 | 11.2 | 11.1 | 11.0 | 10.7 | 9.3 | 8.4 | 9.2 | 9.0 | 5.2 | 15.7 | 16.7 | 15.9 | 15.6 | 16.1 | 17.2 | 17.4 | 17.4 | 12.7 |
| 9 | 12.8 | 12.0 | 11.5 | 11.9 | 11.7 | 11.1 | 9.8 | 9.0 | 10.2 | 12.4 | 13.0 | 14.5 | 13.9 | 12.0 | 14.6 | 14.2 | 14.2 | 14.2 | 12.6 | 10.0 | 8.9 | 8.0 | 7.6 | 6.8 | 14.6 | 11.5 |
| 10 | 5.1 | 4.2 | 3.0 | 5.3 | 5.4 | 5.7 | 4.5 | 3.6 | 3.3 | 4.1 | 6.2 | 9.4 | 11.0 | 8.5 | 5.1 | 5.6 | 4.1 | 3.1 | 2.9 | 3.3 | 3.5 | 5.8 | 6.0 | 5.2 | 11.0 | 5.2 |
| 11 | 5.2 | 6.3 | 3.7 | 3.1 | 2.7 | 2.1 | 2.1 | 2.2 | 2.0 | 2.2 | 2.2 | 1.8 | 2.0 | 2.2 | 2.5 | 2.7 | 2.5 | 2.0 | 2.0 | 2.4 | 2.7 | 2.6 | 3.3 | 3.5 | 6.3 | 2.8 |
| 12 | 2.8 | 2.2 | 2.3 | 1.6 | 1.1 | 0.8 | 1.1 | 1.3 | 1.5 | 1.6 | 1.5 | 1.5 | 3.2 | 3.2 | 1.9 | 1.8 | 1.6 | 1.6 | 1.3 | 1.4 | 1.3 | 1.2 | 1.2 | 1.2 | 3.2 | 1.7 |
| 13 | 1.1 | 1.0 | 0.9 | 1.0 | 1.1 | 1.0 | 1.0 | 1.1 | 1.3 | 1.3 | 2.2 | 1.9 | 2.2 | 2.4 | 2.8 | 2.3 | 2.5 | 1.6 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.3 | 2.8 | 1.6 |
| 14 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.4 | 1.1 | 1.9 | 1.9 | 2.4 | 2.0 | 3.5 | 4.5 | 3.5 | 2.4 | 1.7 | 1.5 | 2.0 | 1.4 | 1.5 | 1.6 | 1.4 | 4.5 | 1.8 |
| 15 | 1.5 | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 1.1 | 1.6 | 2.9 | 2.5 | 2.1 | 1.8 | 1.5 | 1.4 | 1.2 | 1.2 | 1.2 | 1.3 | 1.4 | 1.2 | 2.9 | 1.4 |
| 16 | 1.1 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 1.4 | 2.7 | 2.9 | 1.6 | 3.9 | 5.5 | 3.4 | 2.4 | 2.2 | 2.1 | 1.8 | 1.0 | 1.0 | 0.9 | 0.9 | 0.6 | 5.5 | 1.8 |
| 17 | 0.6 | 0.5 | 0.5 | 0.6 | 0.4 | 0.5 | 0.9 | 0.5 | 0.5 | 1.0 | 0.6 | 0.8 | 2.7 | 2.6 | 1.5 | 0.8 | 0.6 | 0.3 | 0.3 | 0.4 | 0.7 | 0.4 | 0.5 | 0.3 | 2.7 | 0.8 |
| 18 | 0.3 | 0.5 | 0.2 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.2 | 1.1 | 8.1 | 5.9 | 5.1 | 4.0 | 6.3 | 2.2 | 0.7 | 0.7 | 0.7 | 1.0 | 0.7 | 0.9 | 0.8 | 8.1 | 1.7 |
| 19 | 0.6 | 0.4 | 0.4 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.8 | 1.2 | 2.6 | 1.6 | 12.4 | 9.3 | 5.2 | 6.0 | 3.6 | 1.1 | 2.3 | 0.9 | 0.7 | 1.1 | 1.1 | 0.8 | 12.4 | 2.3 |
| 20 | 0.6 | 0.2 | 0.4 | 0.6 | 0.5 | 1.8 | 1.7 | 1.0 | 1.9 | 4.0 | 21.4 | 16.6 | 11.4 | 11.3 | 10.2 | 11.5 | 2.8 | 0.7 | 2.2 | 1.3 | 1.1 | 1.8 | 1.8 | 1.2 | 21.4 | 4.5 |
| 21 | 1.3 | 0.9 | 1.3 | 0.9 | 0.9 | 0.6 | 0.6 | 1.0 | 1.0 | 1.3 | 6.3 | 6.5 | 5.1 | 6.9 | 4.7 | 3.8 | 4.7 | 3.8 | 2.6 | 2.4 | 3.6 | 9.6 | 8.4 | 8.4 | 9.6 | 3.6 |
| 22 | 8.6 | 7.4 | 5.5 | 4.9 | 3.8 | 3.6 | 3.6 | 3.4 | 3.3 | 3.5 | 3.8 | 5.4 | 4.7 | 7.8 | 9.4 | 11.6 | 10.3 | 13.0 | 16.5 | 16.5 | 16.4 | 16.6 | 17.2 | 16.1 | 17.2 | 8.9 |
| 23 | 15.6 | 15.3 | 13.8 | 12.7 | 12.8 | 12.9 | 13.1 | 11.9 | 10.7 | 16.9 | 16.3 | 18.9 | 21.9 | 20.6 | 25.5 | 19.8 | 13.6 | 7.0 | 6.1 | 6.8 | 7.1 | 7.2 | 6.7 | 5.1 | 25.5 | 13.3 |
| 24 | 4.2 | 3.9 | 3.5 | 3.1 | 3.0 | 3.4 | 3.1 | 4.0 | 4.5 | 4.9 | 10.9 | 12.8 | 9.7 | 12.1 | 15.3 | 7.7 | 5.5 | 4.1 | 3.7 | 3.5 | 5.5 | 3.4 | 2.2 | 1.5 | 15.3 | 5.6 |
| 25 | 1.0 | 0.8 | 0.6 | 0.6 | 0.6 | 0.7 | 0.9 | 1.1 | 1.7 | 4.1 | 9.1 | 10.9 | 12.2 | 7.3 | 5.5 | 6.8 | 6.8 | 2.6 | 1.7 | 1.9 | 2.2 | 2.0 | 1.5 | 1.5 | 12.2 | 3.5 |
| 26 | 1.2 | 1.1 | 1.0 | 0.9 | 0.7 | 0.9 | 0.9 | 2.1 | 3.6 | 5.5 | 8.8 | 7.0 | 6.9 | 6.9 | 4.8 | 3.4 | 4.7 | 5.7 | 2.7 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 8.8 | 3.2 |
| 27 | 1.6 | 1.7 | 2.3 | 1.7 | 1.8 | 1.7 | 1.7 | 2.2 | 2.8 | 3.1 | 4.9 | 5.2 | 6.5 | 5.2 | 2.7 | 3.6 | 2.8 | 2.7 | 2.5 | 1.9 | 2.4 | 1.6 | 1.8 | 1.9 | 6.5 | 2.8 |
| 28 | 1.6 | 1.6 | 1.3 | 1.3 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 | 1.8 | 2.3 | 2.9 | 2.6 | 2.9 | 2.8 | 2.9 | 3.1 | 3.1 | 1.7 | 1.4 | 1.1 | 1.2 | 1.9 | 2.6 | 3.1 | 2.0 |
| 29 | 2.7 | 2.7 | 1.9 | 1.9 | 2.4 | 2.0 | 2.4 | 3.0 | 4.3 | 3.3 | 3.4 | 2.1 | 1.5 | 1.8 | 9.7 | 1.4 | 1.8 | 1.5 | 1.5 | 16.0 | 6.9 | 3.1 | 2.5 | 1.3 | 16.0 | 3.4 |
| 30 | 3.3 | 3.0 | 3.5 | 7.5 | 1.3 | 0.2 | 0.3 | 0.5 | 1.7 | 9.1 | 33.9 | 19.9 | 16.1 | 8.8 | 7.3 | 4.8 | 4.4 | 3.0 | 0.8 | 0.5 | 1.6 | 3.3 | 2.3 | 0.5 | 33.9 | 5.7 |
| 31 | 0.5 | 0.7 | 0.3 | 0.5 | 0.7 | 1.1 | 1.6 | 6.7 | 15.7 | 13.5 | 12.1 | 10.2 | 14.9 | 6.9 | 5.1 | 5.2 | 10.7 | 5.4 | 3.3 | 2.0 | 1.2 | 1.1 | 1.5 | 1.7 | 15.7 | 5.1 |
| Hourly Max | 17.1 | 15.3 | 13.8 | 12.7 | 13.7 | 12.9 | 13.1 | 11.9 | 15.7 | 16.9 | 33.9 | 28.8 | 34.7 | 31.2 | 25.5 | 20.1 | 18.2 | 18.3 | 17.6 | 16.5 | 16.4 | 16.6 | 17.2 | 17.9 | | |
| Hourly Average | 3.5 | 3.2 | 2.9 | 3.0 | 2.6 | 2.5 | 2.5 | 2.6 | 3.1 | 4.0 | 7.0 | 6.9 | 7.4 | 6.6 | 6.3 | 5.5 | 4.6 | 4.1 | 3.8 | 3.9 | 3.7 | 4.0 | 4.0 | 3.7 | | |

24-hour PM_{2.5} (µg m⁻³) at West

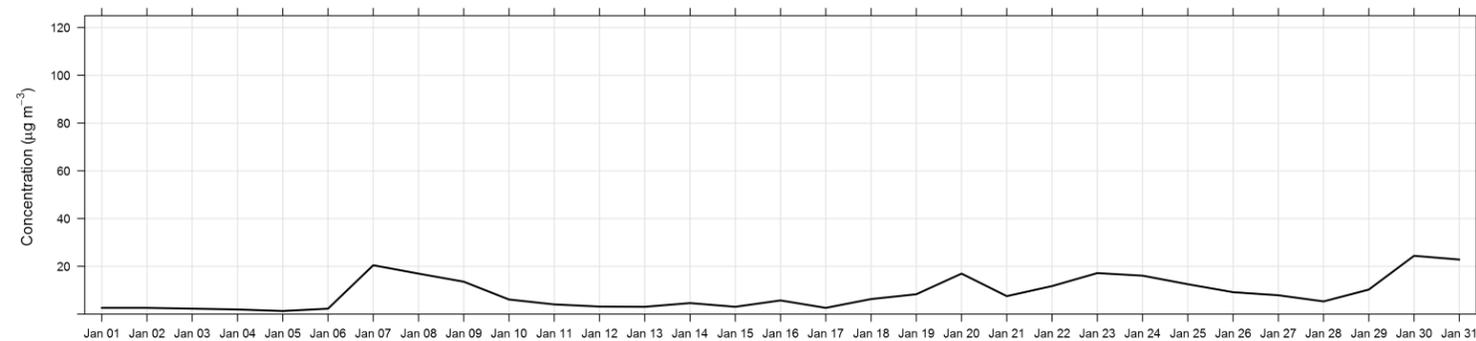


| | | | | |
|-----------------------------|------|-----------|--------------------|-----------|
| Number of 1HR Exceedances | 0 | Guideline | 80 | UG/M3 |
| Number of 24HR Exceedances | 0 | Guideline | 30 | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 34.7 | UG/M3 | | |
| Maximum 24-HR Average | 13.3 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 5.1 | | Monthly Average | 4.2 UG/M3 |

West PM₁₀ (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 7.4 | 8.3 | 6.3 | 7.2 | 4.4 | 2.9 | 3.3 | 3.2 | 2.8 | 2.7 | 1.3 | 1.2 | 1.2 | 0.7 | 1.2 | 1.1 | 1.0 | 0.9 | 1.1 | 1.6 | 1.0 | 0.5 | 0.6 | 0.6 | 8.3 | 2.6 |
| 2 | 0.6 | 1.2 | 4.9 | 4.3 | 2.8 | 2.1 | 1.2 | 1.1 | 0.9 | 1.1 | 2.3 | 1.8 | 1.6 | 2.7 | 2.9 | 3.2 | 3.3 | 3.4 | 2.1 | 2.4 | 3.6 | 4.6 | 4.6 | 3.9 | 4.9 | 2.6 |
| 3 | 3.1 | 2.9 | 2.6 | 2.2 | 1.7 | 1.5 | 1.3 | 1.6 | 1.5 | 1.6 | 2.3 | 3.0 | 1.9 | 1.9 | 1.7 | 2.0 | 2.3 | 2.3 | 2.3 | 3.1 | 2.3 | 3.6 | 3.2 | 2.6 | 3.6 | 2.3 |
| 4 | 1.9 | 1.8 | 1.6 | 1.2 | 1.0 | 1.7 | 1.7 | 1.2 | 1.2 | 1.6 | 1.9 | 2.2 | 2.6 | 2.6 | 2.7 | 2.8 | 2.0 | 1.4 | 1.9 | 1.8 | 2.0 | 2.9 | 3.0 | 1.9 | 3.0 | 1.9 |
| 5 | 2.4 | 1.3 | 1.0 | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 | 0.8 | 0.7 | 0.8 | 0.7 | 1.1 | 1.4 | 1.7 | 2.3 | 1.6 | 1.6 | 1.7 | 1.6 | 1.7 | 2.1 | 1.8 | 2.1 | 2.4 | 1.3 |
| 6 | 1.8 | 1.6 | 1.4 | 1.3 | 1.1 | 1.1 | 1.1 | 1.4 | 1.6 | 1.6 | 1.5 | 2.5 | 3.9 | 4.6 | 5.2 | 4.4 | 5.4 | 2.4 | 1.4 | 1.7 | 2.0 | 1.9 | 1.8 | 1.6 | 5.4 | 2.3 |
| 7 | 1.5 | 1.4 | 1.3 | 1.3 | 1.2 | 1.4 | 1.7 | 1.1 | 1.3 | 4.4 | 39.6 | 41.3 | 86.9 | 69.4 | 34.3 | 26.6 | 33.4 | 27.0 | 20.9 | 12.5 | 13.4 | 22.7 | 20.9 | 25.5 | 86.9 | 20.4 |
| 8 | 23.3 | 14.2 | 12.5 | 12.7 | 16.6 | 11.5 | 12.9 | 11.5 | 11.9 | 12.0 | 12.1 | 11.8 | 10.1 | 16.9 | 20.6 | 26.8 | 7.6 | 33.4 | 23.2 | 21.4 | 19.6 | 21.1 | 22.2 | 21.1 | 33.4 | 17.0 |
| 9 | 13.7 | 12.6 | 11.7 | 12.1 | 11.9 | 11.2 | 9.9 | 9.0 | 10.3 | 13.4 | 15.8 | 23.6 | 23.4 | 18.5 | 23.6 | 15.9 | 18.2 | 15.2 | 13.9 | 10.1 | 9.0 | 8.1 | 7.7 | 6.8 | 23.6 | 13.6 |
| 10 | 5.2 | 4.2 | 3.0 | 5.5 | 5.7 | 6.1 | 4.5 | 3.7 | 3.5 | 4.3 | 6.4 | 9.7 | 12.0 | 10.3 | 9.2 | 12.8 | 7.0 | 3.9 | 3.2 | 4.1 | 4.1 | 6.4 | 6.4 | 5.6 | 12.8 | 6.1 |
| 11 | 5.4 | 7.5 | 4.2 | 3.4 | 5.3 | 3.0 | 5.0 | 3.3 | 3.2 | 3.2 | 12.0 | 2.8 | 3.8 | 3.4 | 3.5 | 4.5 | 3.3 | 2.4 | 2.3 | 2.5 | 3.6 | 2.6 | 3.4 | 3.6 | 12.0 | 4.1 |
| 12 | 2.9 | 2.3 | 2.5 | 1.6 | 1.2 | 0.9 | 1.3 | 1.5 | 2.1 | 2.3 | 3.0 | 3.1 | 11.5 | 11.0 | 5.3 | 6.2 | 3.4 | 3.5 | 2.6 | 2.0 | 1.6 | 1.4 | 1.3 | 1.3 | 11.5 | 3.1 |
| 13 | 1.2 | 1.2 | 1.4 | 1.0 | 1.6 | 1.1 | 1.3 | 1.2 | 1.5 | 1.5 | 6.9 | 4.2 | 4.0 | 6.1 | 9.3 | 8.5 | 8.2 | 2.5 | 1.9 | 1.9 | 1.5 | 1.5 | 2.2 | 1.5 | 9.3 | 3.0 |
| 14 | 1.3 | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 | 1.1 | 2.1 | 1.2 | 2.6 | 3.1 | 11.2 | 5.7 | 15.5 | 20.0 | 16.8 | 8.8 | 3.3 | 2.5 | 3.0 | 1.8 | 1.8 | 1.8 | 1.5 | 20.0 | 4.6 |
| 15 | 1.8 | 2.0 | 1.3 | 1.1 | 1.2 | 1.0 | 1.1 | 1.4 | 1.1 | 1.4 | 1.2 | 6.3 | 15.0 | 10.9 | 7.6 | 5.5 | 3.0 | 2.1 | 1.4 | 1.3 | 1.3 | 1.4 | 1.5 | 1.2 | 15.0 | 3.1 |
| 16 | 1.1 | 1.3 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 3.8 | 10.7 | 4.2 | 2.3 | 13.4 | 33.4 | 16.9 | 12.0 | 10.3 | 7.4 | 5.5 | 3.9 | 1.3 | 1.4 | 1.1 | 1.6 | 33.4 | 5.7 |
| 17 | 1.3 | 0.8 | 0.7 | 1.4 | 0.7 | 1.9 | 5.6 | 2.1 | 1.3 | 1.7 | 1.2 | 4.3 | 14.7 | 11.3 | 6.1 | 3.1 | 0.9 | 0.4 | 0.4 | 0.5 | 0.9 | 0.4 | 0.5 | 0.3 | 14.7 | 2.6 |
| 18 | 0.3 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.7 | 0.8 | 3.2 | 43.0 | 23.7 | 19.8 | 16.6 | 26.1 | 8.1 | 1.6 | 0.8 | 0.8 | 1.0 | 0.8 | 0.9 | 0.9 | 43.0 | 6.3 |
| 19 | 0.7 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.9 | 1.3 | 3.7 | 4.8 | 55.4 | 32.9 | 18.0 | 22.4 | 14.6 | 3.8 | 19.4 | 2.9 | 2.5 | 4.8 | 4.1 | 4.1 | 55.4 | 8.3 |
| 20 | 0.8 | 0.4 | 1.5 | 3.8 | 2.7 | 11.1 | 9.7 | 2.4 | 7.9 | 21.3 | 65.1 | 57.5 | 42.3 | 47.3 | 41.7 | 48.9 | 12.9 | 1.9 | 9.4 | 3.6 | 1.8 | 5.5 | 5.9 | 1.7 | 65.1 | 17.0 |
| 21 | 1.6 | 1.0 | 2.6 | 1.0 | 0.9 | 0.6 | 0.6 | 1.3 | 1.2 | 1.6 | 9.8 | 13.5 | 14.7 | 22.1 | 12.0 | 12.8 | 16.7 | 12.1 | 7.5 | 5.4 | 6.7 | 13.6 | 10.8 | 10.5 | 22.1 | 7.5 |
| 22 | 10.0 | 8.4 | 5.9 | 5.1 | 4.1 | 3.8 | 3.7 | 3.5 | 3.4 | 3.6 | 4.3 | 11.6 | 11.4 | 25.7 | 26.1 | 23.0 | 12.3 | 14.2 | 17.3 | 16.8 | 16.5 | 16.7 | 17.5 | 16.3 | 26.1 | 11.7 |
| 23 | 15.7 | 15.4 | 13.8 | 12.8 | 12.8 | 12.9 | 13.3 | 12.0 | 11.0 | 21.3 | 20.7 | 25.7 | 27.9 | 27.0 | 51.7 | 44.7 | 25.5 | 7.5 | 6.4 | 7.1 | 7.4 | 7.4 | 6.8 | 5.2 | 51.7 | 17.2 |
| 24 | 4.3 | 4.1 | 3.5 | 3.2 | 3.0 | 3.8 | 3.4 | 5.0 | 5.9 | 9.7 | 17.6 | 23.5 | 30.7 | 51.8 | 88.6 | 36.6 | 24.6 | 16.4 | 12.8 | 7.8 | 16.1 | 6.4 | 5.1 | 2.8 | 88.6 | 16.1 |
| 25 | 1.7 | 1.2 | 0.7 | 0.6 | 0.7 | 0.9 | 1.6 | 2.3 | 2.4 | 8.8 | 38.5 | 41.9 | 56.3 | 34.4 | 21.8 | 26.5 | 33.3 | 9.9 | 4.0 | 3.3 | 3.0 | 2.9 | 1.8 | 1.6 | 56.3 | 12.5 |
| 26 | 1.2 | 1.2 | 1.2 | 0.9 | 0.8 | 1.1 | 1.1 | 4.6 | 10.5 | 11.1 | 22.1 | 25.1 | 21.6 | 18.7 | 16.0 | 14.4 | 21.5 | 27.7 | 6.6 | 3.2 | 2.5 | 2.8 | 2.1 | 2.1 | 27.7 | 9.2 |
| 27 | 1.9 | 2.1 | 5.8 | 2.7 | 2.5 | 2.0 | 2.2 | 3.7 | 6.5 | 6.5 | 18.5 | 18.7 | 33.3 | 22.1 | 8.3 | 13.5 | 7.9 | 7.3 | 6.3 | 3.3 | 5.7 | 2.1 | 2.6 | 4.0 | 33.3 | 7.9 |
| 28 | 2.8 | 2.3 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 1.8 | 2.1 | 3.0 | 4.5 | 7.3 | 7.7 | 7.4 | 7.1 | 7.2 | 16.2 | 17.6 | 5.8 | 3.9 | 3.3 | 2.5 | 6.9 | 9.7 | 17.6 | 5.3 |
| 29 | 9.1 | 9.8 | 5.2 | 4.7 | 7.3 | 4.4 | 7.2 | 13.6 | 15.0 | 12.1 | 10.1 | 6.2 | 3.8 | 5.7 | 42.4 | 3.7 | 5.4 | 3.4 | 4.0 | 32.6 | 18.3 | 7.7 | 5.0 | 9.5 | 42.4 | 10.3 |
| 30 | 13.5 | 14.2 | 15.9 | 17.4 | 1.8 | 0.3 | 0.4 | 2.3 | 6.9 | 45.7 | 157.2 | 85.3 | 78.4 | 39.9 | 32.3 | 20.9 | 18.1 | 12.3 | 1.9 | 0.9 | 3.8 | 8.4 | 7.3 | 0.9 | 157.2 | 24.4 |
| 31 | 0.9 | 1.7 | 0.4 | 0.6 | 1.1 | 2.6 | 5.1 | 31.1 | 82.8 | 66.7 | 52.9 | 47.1 | 72.8 | 32.9 | 24.6 | 24.5 | 53.1 | 21.6 | 10.7 | 6.5 | 2.1 | 1.8 | 2.3 | 2.2 | 82.8 | 22.8 |
| Hourly Max | 23.3 | 15.4 | 15.9 | 17.4 | 16.6 | 12.9 | 13.3 | 31.1 | 82.8 | 66.7 | 157.2 | 85.3 | 86.9 | 69.4 | 88.6 | 48.9 | 53.1 | 33.4 | 23.2 | 32.6 | 19.6 | 22.7 | 22.2 | 25.5 | | |
| Hourly Average | 4.5 | 4.1 | 3.8 | 3.7 | 3.2 | 3.1 | 3.4 | 4.2 | 6.7 | 9.0 | 17.5 | 17.5 | 22.3 | 19.6 | 18.7 | 15.5 | 12.6 | 8.7 | 6.5 | 5.6 | 5.2 | 5.4 | 5.3 | 5.0 | | |

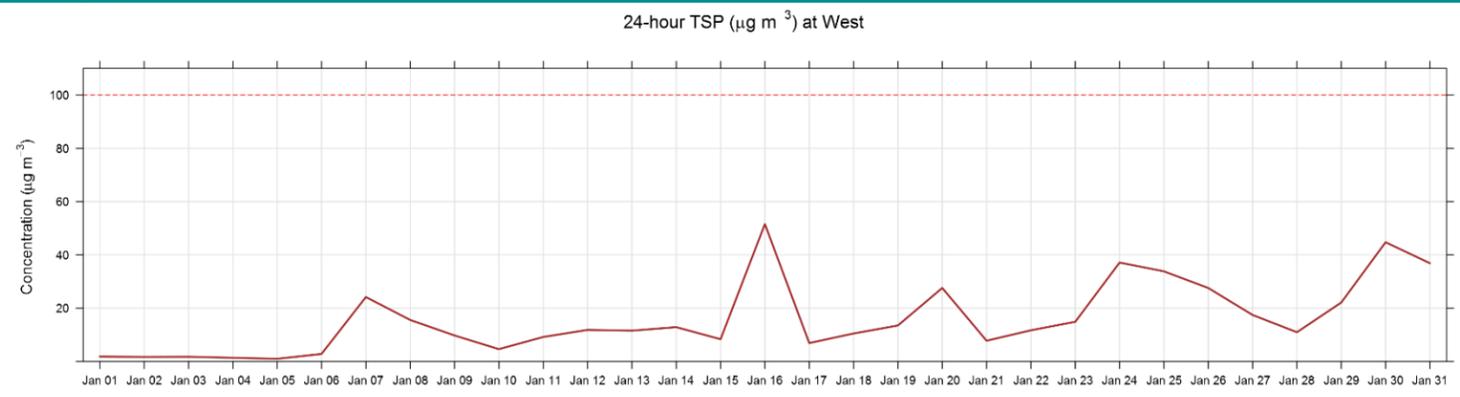
24-hour PM₁₀ (µg m⁻³) at West



| | | | | |
|-----------------------------|-------|-----------|--------------------|-----------|
| Number of 1HR Exceedances | n/a | Guideline | n/a | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 157.2 | UG/M3 | | |
| Maximum 24-HR Average | 24.4 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 13.7 | | Monthly Average | 8.8 UG/M3 |

West TSP ($\mu\text{g}/\text{m}^3$) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 5.8 | 6.8 | 4.4 | 4.7 | 2.9 | 1.9 | 2.1 | 2.1 | 1.8 | 1.8 | 0.9 | 0.8 | 0.8 | 0.5 | 0.8 | 0.8 | 0.6 | 0.6 | 0.7 | 1.0 | 0.7 | 0.3 | 0.4 | 0.4 | 6.8 | 1.8 |
| 2 | 0.5 | 0.8 | 3.2 | 2.8 | 1.8 | 1.3 | 0.8 | 0.7 | 0.6 | 0.7 | 1.5 | 1.1 | 1.1 | 1.7 | 1.8 | 2.0 | 2.1 | 2.2 | 1.4 | 1.5 | 2.3 | 2.9 | 3.0 | 2.5 | 3.2 | 1.7 |
| 3 | 2.0 | 1.9 | 1.7 | 1.4 | 1.1 | 1.0 | 0.9 | 1.2 | 1.0 | 1.1 | 1.5 | 1.9 | 1.2 | 1.8 | 1.1 | 2.7 | 6.0 | 1.5 | 1.5 | 2.0 | 1.5 | 2.3 | 2.0 | 1.7 | 6.0 | 1.7 |
| 4 | 1.2 | 1.1 | 1.0 | 0.8 | 0.7 | 1.3 | 1.1 | 0.8 | 0.8 | 1.0 | 1.2 | 1.5 | 2.4 | 1.7 | 3.2 | 1.8 | 1.3 | 0.9 | 1.2 | 1.1 | 1.3 | 1.9 | 2.0 | 1.3 | 3.2 | 1.4 |
| 5 | 1.5 | 0.8 | 0.6 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.9 | 2.4 | 3.2 | 1.0 | 1.1 | 1.1 | 1.0 | 1.1 | 1.4 | 1.2 | 1.3 | 3.2 | 1.0 |
| 6 | 1.2 | 1.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 | 1.1 | 1.1 | 1.0 | 2.0 | 7.2 | 6.5 | 11.3 | 7.2 | 13.6 | 2.7 | 0.9 | 1.1 | 1.3 | 1.2 | 1.2 | 1.0 | 13.6 | 2.8 |
| 7 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 1.1 | 0.7 | 0.8 | 3.0 | 60.0 | 53.3 | 126.7 | 89.2 | 32.8 | 25.1 | 43.2 | 51.5 | 14.4 | 8.0 | 9.4 | 21.0 | 15.4 | 19.1 | 126.7 | 24.2 |
| 8 | 17.4 | 9.3 | 8.1 | 8.2 | 11.5 | 7.6 | 8.3 | 7.4 | 8.5 | 8.1 | 10.2 | 9.3 | 9.1 | 30.7 | 29.5 | 35.6 | 9.7 | 45.6 | 22.0 | 16.8 | 13.7 | 14.9 | 16.1 | 16.0 | 45.6 | 15.6 |
| 9 | 9.1 | 8.2 | 7.6 | 7.8 | 7.7 | 7.5 | 6.4 | 5.8 | 6.6 | 8.8 | 12.7 | 16.1 | 15.9 | 17.2 | 27.0 | 10.6 | 12.3 | 10.1 | 9.3 | 6.6 | 6.0 | 5.2 | 5.0 | 4.4 | 27.0 | 9.7 |
| 10 | 3.4 | 2.7 | 4.2 | 3.5 | 3.7 | 4.0 | 2.9 | 2.4 | 2.3 | 2.8 | 4.1 | 6.4 | 7.9 | 6.8 | 11.7 | 11.2 | 8.2 | 2.5 | 2.1 | 2.9 | 2.9 | 4.2 | 4.2 | 3.6 | 11.7 | 4.6 |
| 11 | 3.5 | 6.5 | 2.7 | 2.3 | 17.3 | 9.2 | 13.3 | 6.6 | 5.4 | 2.9 | 92.2 | 2.4 | 5.7 | 12.2 | 2.7 | 12.9 | 2.3 | 1.8 | 6.7 | 1.6 | 3.7 | 1.7 | 2.2 | 2.3 | 92.2 | 9.2 |
| 12 | 1.8 | 1.5 | 1.8 | 1.0 | 0.8 | 0.6 | 1.1 | 1.1 | 2.2 | 1.9 | 10.2 | 6.1 | 88.1 | 73.4 | 20.4 | 32.1 | 15.0 | 4.5 | 4.8 | 4.4 | 8.0 | 1.2 | 1.1 | 1.0 | 88.1 | 11.8 |
| 13 | 3.0 | 0.8 | 10.8 | 0.7 | 2.8 | 0.7 | 2.0 | 0.8 | 1.0 | 3.2 | 49.2 | 17.9 | 10.3 | 20.3 | 41.6 | 31.0 | 26.3 | 4.3 | 2.1 | 34.0 | 1.2 | 1.0 | 10.3 | 1.9 | 49.2 | 11.6 |
| 14 | 3.1 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 3.4 | 1.9 | 7.4 | 10.9 | 81.3 | 17.7 | 35.7 | 46.2 | 45.1 | 17.6 | 9.0 | 8.0 | 6.4 | 4.0 | 3.1 | 2.4 | 1.4 | 81.3 | 12.9 |
| 15 | 18.7 | 4.6 | 0.9 | 1.1 | 0.8 | 0.8 | 0.7 | 0.9 | 0.7 | 1.3 | 0.8 | 18.0 | 38.6 | 31.6 | 38.4 | 19.3 | 12.8 | 2.8 | 1.4 | 0.9 | 1.1 | 2.0 | 1.0 | 0.8 | 38.6 | 8.3 |
| 16 | 0.7 | 3.4 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 51.7 | 85.0 | 17.8 | 12.2 | 204.4 | 420.8 | 168.0 | 39.7 | 63.1 | 47.4 | 27.3 | 70.4 | 1.4 | 10.3 | 1.3 | 9.1 | 420.8 | 51.6 |
| 17 | 5.3 | 0.7 | 2.0 | 2.5 | 0.8 | 7.2 | 33.0 | 7.2 | 5.6 | 7.5 | 1.2 | 15.8 | 23.9 | 25.6 | 13.8 | 8.3 | 0.6 | 0.4 | 0.6 | 0.8 | 1.7 | 0.3 | 0.4 | 0.2 | 33.0 | 6.9 |
| 18 | 0.2 | 3.8 | 0.1 | 0.1 | 0.4 | 0.1 | 1.7 | 0.2 | 2.0 | 2.6 | 6.3 | 71.1 | 39.2 | 35.1 | 36.0 | 34.1 | 13.8 | 1.5 | 0.5 | 0.5 | 0.7 | 0.5 | 0.6 | 0.6 | 71.1 | 10.5 |
| 19 | 0.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.6 | 0.9 | 4.9 | 15.4 | 75.5 | 40.9 | 20.4 | 31.7 | 27.2 | 4.3 | 64.2 | 8.0 | 4.8 | 6.7 | 7.8 | 7.5 | 75.5 | 13.5 |
| 20 | 1.5 | 0.4 | 2.7 | 10.0 | 5.6 | 27.9 | 18.9 | 5.3 | 26.9 | 62.0 | 99.1 | 82.4 | 54.7 | 67.2 | 53.9 | 65.3 | 27.5 | 2.5 | 20.4 | 5.4 | 1.4 | 6.4 | 12.7 | 1.6 | 99.1 | 27.6 |
| 21 | 1.1 | 0.7 | 3.1 | 1.2 | 0.6 | 0.4 | 0.4 | 1.0 | 0.8 | 1.1 | 8.8 | 18.7 | 21.3 | 30.3 | 11.7 | 17.0 | 14.7 | 12.3 | 7.2 | 5.4 | 5.1 | 9.7 | 7.1 | 6.9 | 30.3 | 7.8 |
| 22 | 6.6 | 5.4 | 3.8 | 3.3 | 2.6 | 2.4 | 2.4 | 2.3 | 2.2 | 2.4 | 3.3 | 17.4 | 16.9 | 39.1 | 44.3 | 40.2 | 10.8 | 9.5 | 11.4 | 10.9 | 10.7 | 10.8 | 11.3 | 10.5 | 44.3 | 11.7 |
| 23 | 10.2 | 10.0 | 8.9 | 8.2 | 8.3 | 8.4 | 8.6 | 7.8 | 7.1 | 14.4 | 14.9 | 18.9 | 21.0 | 25.6 | 63.8 | 53.4 | 36.9 | 4.8 | 4.1 | 4.6 | 4.8 | 4.8 | 4.4 | 3.4 | 63.8 | 14.9 |
| 24 | 2.8 | 2.6 | 2.3 | 2.0 | 2.0 | 2.5 | 2.3 | 3.7 | 4.6 | 20.2 | 28.6 | 47.1 | 99.0 | 187.8 | 235.2 | 81.4 | 49.4 | 30.5 | 28.0 | 8.9 | 27.4 | 10.7 | 7.0 | 4.5 | 235.2 | 37.1 |
| 25 | 1.8 | 2.1 | 0.6 | 0.4 | 0.4 | 1.3 | 2.7 | 5.2 | 2.3 | 25.5 | 229.3 | 92.6 | 160.1 | 92.2 | 36.0 | 49.2 | 67.9 | 23.2 | 5.1 | 4.2 | 2.3 | 3.8 | 2.3 | 1.0 | 229.3 | 33.8 |
| 26 | 0.8 | 2.5 | 0.9 | 0.6 | 0.5 | 0.7 | 0.8 | 8.5 | 23.3 | 22.6 | 84.7 | 134.3 | 72.7 | 49.9 | 73.2 | 34.9 | 38.6 | 87.4 | 7.0 | 7.3 | 2.7 | 3.9 | 1.6 | 2.1 | 134.3 | 27.6 |
| 27 | 4.3 | 3.2 | 26.1 | 10.4 | 3.2 | 5.4 | 2.5 | 6.0 | 13.4 | 18.2 | 85.0 | 41.7 | 68.4 | 39.6 | 16.7 | 19.5 | 9.3 | 11.6 | 9.6 | 3.8 | 8.8 | 2.8 | 4.2 | 4.7 | 85.0 | 17.4 |
| 28 | 16.5 | 2.3 | 2.6 | 2.0 | 1.5 | 2.5 | 2.1 | 1.2 | 5.5 | 5.4 | 4.5 | 10.3 | 15.1 | 12.2 | 12.0 | 8.6 | 42.5 | 37.2 | 12.5 | 4.9 | 11.1 | 3.3 | 12.6 | 34.9 | 42.5 | 11.0 |
| 29 | 20.9 | 28.1 | 11.4 | 10.5 | 18.6 | 7.1 | 11.8 | 22.2 | 25.7 | 15.9 | 14.3 | 11.4 | 6.9 | 7.7 | 62.6 | 6.9 | 7.2 | 9.4 | 12.4 | 72.2 | 41.3 | 30.4 | 23.9 | 52.0 | 72.2 | 22.1 |
| 30 | 53.5 | 78.1 | 98.3 | 52.2 | 1.3 | 0.2 | 0.3 | 13.6 | 31.0 | 101.0 | 193.3 | 120.7 | 115.6 | 63.2 | 46.4 | 31.2 | 24.5 | 17.7 | 2.6 | 3.0 | 4.3 | 13.2 | 8.1 | 0.6 | 193.3 | 44.7 |
| 31 | 0.9 | 2.8 | 0.6 | 0.5 | 1.0 | 6.6 | 8.1 | 48.3 | 130.5 | 96.3 | 75.3 | 67.1 | 119.9 | 47.3 | 57.3 | 45.5 | 98.6 | 30.6 | 21.6 | 17.7 | 2.9 | 1.5 | 2.5 | 1.4 | 130.5 | 36.9 |
| Hourly Max | 53.5 | 78.1 | 98.3 | 52.2 | 18.6 | 27.9 | 33.0 | 48.3 | 130.5 | 101.0 | 229.3 | 134.3 | 204.4 | 420.8 | 235.2 | 81.4 | 98.6 | 87.4 | 64.2 | 72.2 | 41.3 | 30.4 | 23.9 | 52.0 | | |
| Hourly Average | 6.5 | 6.3 | 6.9 | 4.6 | 3.3 | 3.6 | 4.5 | 5.4 | 11.9 | 17.0 | 36.4 | 32.1 | 46.7 | 48.9 | 39.4 | 26.1 | 22.7 | 15.2 | 10.1 | 10.2 | 6.1 | 5.9 | 5.7 | 6.4 | | |

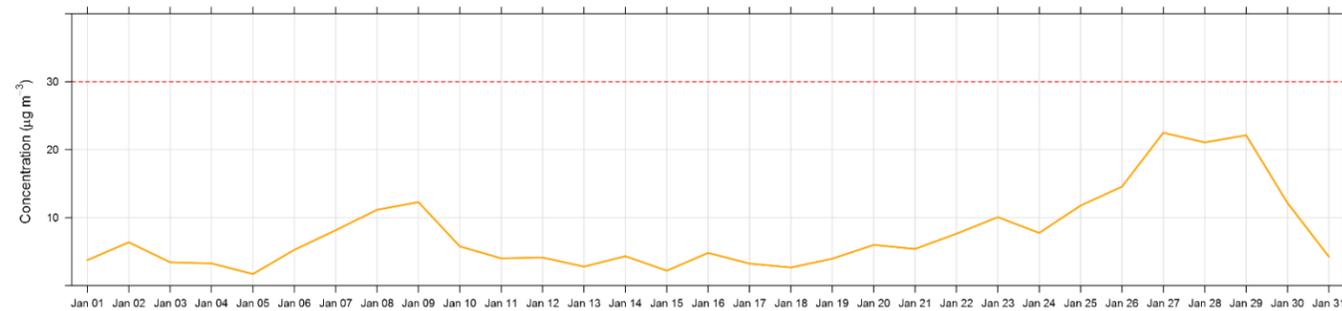


| | | | | |
|-----------------------------|-------|-----------|--------------------|------------|
| Number of 24HR Exceedances | 0 | Guideline | 100 | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 420.8 | UG/M3 | | |
| Maximum 24-HR Average | 51.6 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 32.1 | | Monthly Average | 15.9 UG/M3 |

Berm PM_{2.5} (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 7.5 | 8.4 | 7.8 | 7.5 | 5.5 | 5.1 | 5.6 | 4.4 | 2.7 | 4.1 | 2.8 | 2.7 | 2.6 | 2.1 | 2.6 | 2.3 | 2.3 | 2.4 | 2.9 | 2.1 | 1.6 | 3.2 | 0.9 | 0.9 | 8.4 | 3.7 |
| 2 | 2.1 | 5.2 | 3.4 | 2.5 | 2.9 | 2.1 | 1.3 | 6.7 | 3.3 | 3.5 | 6.3 | 14.9 | 27.0 | 8.7 | 5.8 | 7.8 | 5.5 | 2.4 | 2.2 | 6.7 | 9.8 | 7.8 | 8.6 | 6.6 | 27.0 | 6.4 |
| 3 | 4.5 | 2.9 | 3.2 | 2.7 | 2.5 | 2.4 | 2.6 | 3.2 | 2.8 | 4.9 | 5.7 | 3.8 | 4.9 | 3.7 | 3.8 | 3.2 | 2.6 | 2.1 | 2.2 | 3.9 | 4.6 | 3.6 | 4.1 | 2.4 | 5.7 | 3.4 |
| 4 | 1.7 | 1.7 | 2.0 | 2.3 | 2.1 | 1.7 | 1.4 | 1.8 | 4.4 | 6.0 | 4.3 | 4.1 | 5.0 | 3.8 | 8.7 | 4.1 | 4.2 | 4.2 | 3.4 | 2.7 | 2.5 | 2.3 | 2.2 | 1.9 | 8.7 | 3.3 |
| 5 | 1.8 | 1.6 | 1.5 | 1.0 | 1.6 | 1.1 | 1.8 | 1.6 | 1.2 | 1.9 | 1.5 | 2.2 | 2.5 | 1.9 | 3.2 | 1.7 | 3.6 | 1.7 | 1.4 | 1.1 | 1.1 | 1.6 | 1.2 | 1.2 | 3.6 | 1.7 |
| 6 | 1.2 | 1.4 | 1.4 | 1.1 | 1.0 | 1.0 | 0.7 | 1.1 | 2.0 | 1.9 | 3.1 | 3.7 | 8.9 | 13.1 | 26.3 | 17.6 | 15.6 | 9.5 | 4.0 | 3.7 | 1.6 | 2.7 | 2.1 | 1.8 | 26.3 | 5.3 |
| 7 | 1.5 | 1.4 | 2.5 | 0.9 | 0.7 | 0.8 | 0.7 | 0.9 | 1.6 | 12.0 | 14.3 | 17.6 | 20.9 | 16.2 | 15.9 | 11.5 | 10.9 | 9.7 | 11.2 | 8.5 | 9.8 | 8.3 | 8.1 | 9.5 | 20.9 | 8.1 |
| 8 | 8.3 | 8.2 | 11.0 | 7.5 | 7.6 | 9.5 | 8.5 | 8.0 | 25.2 | 10.7 | 13.3 | 24.7 | 13.5 | 9.3 | 8.5 | 4.8 | 8.1 | 8.4 | 8.6 | 8.2 | 8.3 | 8.9 | 21.1 | 17.6 | 25.2 | 11.2 |
| 9 | 20.1 | 18.5 | 14.2 | 12.1 | 9.0 | 8.1 | 7.2 | 7.0 | 12.5 | 13.6 | 10.4 | 9.0 | 10.2 | 12.4 | 10.1 | 11.6 | 17.4 | 15.1 | 20.1 | 13.2 | 10.1 | 10.5 | 12.0 | 10.3 | 20.1 | 12.3 |
| 10 | 10.5 | 6.1 | 6.4 | 9.9 | 8.0 | 4.8 | 3.5 | 4.3 | 4.4 | 4.5 | 7.9 | 18.3 | 7.8 | 5.5 | 3.0 | 5.8 | 5.0 | 3.6 | 1.8 | 1.8 | 2.7 | 5.6 | 3.8 | 3.6 | 18.3 | 5.8 |
| 11 | 4.6 | 4.6 | 4.9 | 5.2 | 2.6 | 2.6 | 2.6 | 5.4 | 4.3 | 21.2 | 5.3 | 3.2 | 3.4 | 3.8 | 4.8 | 3.1 | 3.4 | 1.8 | 1.3 | 1.4 | 1.8 | 1.6 | 1.6 | 1.7 | 21.2 | 4.0 |
| 12 | 1.5 | 1.4 | 1.2 | 1.0 | 0.8 | 0.7 | 1.6 | 3.0 | 3.4 | 3.8 | 2.3 | 6.2 | 10.1 | 7.0 | 17.1 | 17.0 | 4.9 | 2.9 | 2.8 | 4.6 | 1.4 | 1.0 | 1.3 | 2.1 | 17.1 | 4.1 |
| 13 | 1.6 | 1.7 | 2.5 | 0.9 | 1.3 | 1.2 | 0.8 | 0.8 | 1.2 | 1.6 | 1.8 | 4.0 | 5.6 | 5.5 | 5.3 | 4.4 | 4.0 | 3.1 | 1.7 | 1.6 | 6.6 | 3.8 | 2.6 | 3.3 | 6.6 | 2.8 |
| 14 | 3.7 | 8.6 | 4.5 | 2.7 | 3.3 | 2.8 | 3.7 | 4.1 | 4.5 | 4.5 | 4.5 | 4.2 | 2.0 | 3.8 | 3.1 | 4.8 | 4.8 | 2.2 | 3.5 | 5.6 | 5.0 | 8.3 | 6.3 | 3.4 | 8.6 | 4.3 |
| 15 | 4.8 | 5.2 | 4.9 | 4.1 | 4.8 | 1.9 | 1.1 | 0.8 | 1.1 | 1.6 | 1.3 | 1.7 | 3.9 | 2.1 | 3.1 | 1.6 | 1.3 | 1.4 | 1.2 | 1.0 | 1.1 | 0.8 | 0.9 | 0.8 | 5.2 | 2.2 |
| 16 | 0.7 | 0.7 | 0.8 | 0.9 | 0.8 | 0.6 | 0.9 | 1.3 | 1.7 | 2.2 | 1.8 | 1.8 | 4.2 | 4.7 | 7.7 | 4.7 | 8.5 | 13.3 | 30.1 | 12.5 | 3.6 | 1.9 | 5.4 | 5.0 | 30.1 | 4.8 |
| 17 | 5.6 | 4.6 | 3.0 | 4.0 | 0.9 | 2.6 | 4.0 | 2.1 | 2.1 | 2.7 | 4.4 | 8.2 | 7.7 | 4.1 | 4.3 | 3.5 | 1.4 | 1.2 | 1.0 | 2.0 | 2.0 | 2.2 | 1.5 | 2.7 | 8.2 | 3.2 |
| 18 | 4.0 | 3.3 | 4.4 | 3.5 | 2.3 | 2.2 | 5.0 | 3.3 | 3.1 | 5.6 | 4.2 | 5.0 | 5.2 | 3.2 | 2.0 | 2.1 | 1.4 | 0.6 | 0.5 | 0.5 | 0.8 | 0.5 | 0.8 | 0.6 | 5.6 | 2.7 |
| 19 | 2.2 | 5.2 | 0.2 | 0.3 | 0.8 | 0.3 | 0.3 | 0.4 | 0.7 | 1.6 | 5.2 | 6.3 | 8.9 | 7.3 | 4.9 | 7.5 | 5.6 | 2.9 | 3.6 | 5.1 | 6.7 | 7.2 | 6.2 | 5.6 | 8.9 | 4.0 |
| 20 | 3.3 | 2.2 | 2.6 | 1.3 | 3.8 | 1.4 | 0.3 | 0.5 | 0.8 | 12.0 | 13.4 | 19.4 | 10.6 | 14.0 | 13.9 | 12.8 | 15.0 | 10.6 | 2.3 | 0.5 | 0.6 | 0.4 | 0.9 | 1.1 | 19.4 | 6.0 |
| 21 | 1.1 | 0.6 | 0.6 | 1.3 | 0.8 | 0.8 | 0.9 | 2.0 | 6.7 | 2.9 | 9.9 | 8.5 | 8.6 | 3.6 | 6.7 | 9.1 | 1.4 | 1.3 | 1.1 | 5.2 | 15.9 | 16.1 | 11.4 | 13.1 | 16.1 | 5.4 |
| 22 | 7.3 | 6.1 | 3.6 | 3.1 | 3.0 | 3.4 | 2.3 | 2.3 | 2.2 | 2.5 | 4.8 | 5.7 | 8.1 | 16.4 | 5.5 | 6.8 | 7.1 | 9.8 | 13.8 | 14.9 | 13.6 | 14.1 | 13.5 | 13.5 | 16.4 | 7.6 |
| 23 | 12.6 | 11.8 | 9.9 | 8.5 | 9.3 | 11.9 | 12.2 | 10.4 | 8.2 | 9.2 | 17.0 | 14.6 | 18.8 | 14.6 | 18.2 | 12.5 | 15.2 | 4.6 | 3.2 | 3.0 | 2.8 | 4.6 | 5.4 | 3.3 | 18.8 | 10.1 |
| 24 | 2.8 | 3.1 | 2.6 | 3.3 | 1.9 | 2.0 | 2.8 | 7.1 | 5.1 | 6.9 | 13.8 | 18.6 | 14.9 | 16.3 | 33.5 | 17.6 | 8.3 | 3.0 | 1.3 | 2.9 | 1.7 | 4.8 | 8.1 | 3.6 | 33.5 | 7.7 |
| 25 | 3.7 | 2.7 | 2.7 | 1.1 | 2.3 | 1.9 | 2.0 | 2.3 | 6.5 | 3.3 | 7.9 | 47.6 | 33.5 | 29.1 | 47.5 | 37.3 | 27.7 | 7.4 | 3.7 | 1.9 | 2.1 | 3.6 | 2.9 | 1.7 | 47.6 | 11.8 |
| 26 | 1.4 | 2.2 | 1.5 | 1.3 | 2.2 | 1.3 | 1.3 | 2.4 | 7.5 | 10.6 | 14.8 | 8.4 | 35.5 | 78.0 | 24.6 | 11.2 | 13.6 | 17.2 | 20.4 | 11.8 | 29.8 | 8.7 | 6.3 | 37.3 | 78.0 | 14.6 |
| 27 | 12.0 | 17.6 | 12.0 | 14.4 | 13.8 | 9.3 | 7.0 | 34.3 | 30.4 | 36.5 | 114.2 | 62.9 | 19.1 | 16.9 | 20.1 | 10.5 | 3.9 | 10.9 | 19.9 | 12.6 | 33.2 | 6.4 | 9.4 | 12.7 | 114.2 | 22.5 |
| 28 | 9.8 | 5.2 | 2.2 | 1.8 | 5.0 | 3.3 | 2.7 | 2.7 | 9.9 | 37.6 | 26.7 | 50.3 | 53.1 | 33.7 | 21.8 | 16.8 | 34.6 | 63.0 | 41.6 | 14.9 | 15.3 | 8.3 | 19.8 | 25.3 | 63.0 | 21.1 |
| 29 | 31.6 | 15.6 | 20.9 | 16.4 | 16.8 | 11.3 | 21.2 | 28.9 | 67.1 | 50.3 | 30.2 | 34.9 | 35.7 | 16.5 | 23.9 | 21.7 | 18.2 | 15.1 | 6.2 | 14.8 | 13.9 | 14.4 | 3.4 | 2.1 | 67.1 | 22.1 |
| 30 | 2.0 | 2.5 | 4.9 | 1.7 | 9.0 | 0.6 | 1.2 | 3.9 | 11.9 | 25.2 | 25.1 | 39.8 | 31.0 | 19.7 | 28.6 | 24.7 | 18.9 | 19.0 | 11.9 | 2.4 | 2.0 | 1.8 | 2.2 | 1.9 | 39.8 | 12.2 |
| 31 | 2.8 | 1.3 | 1.1 | 0.8 | 0.9 | 0.7 | 1.4 | 2.1 | 11.3 | 13.1 | 11.7 | 16.1 | 10.3 | 4.4 | 6.6 | 5.2 | 2.3 | 1.6 | 1.8 | 2.2 | 1.7 | 0.9 | 0.9 | 1.0 | 16.1 | 4.3 |
| Hourly Max | 31.6 | 18.5 | 20.9 | 16.4 | 16.8 | 11.9 | 21.2 | 34.3 | 67.1 | 50.3 | 114.2 | 62.9 | 53.1 | 78.0 | 47.5 | 37.3 | 34.6 | 63.0 | 41.6 | 14.9 | 33.2 | 16.1 | 21.1 | 37.3 | | |
| Hourly Average | 5.8 | 5.2 | 4.7 | 4.0 | 4.1 | 3.2 | 3.5 | 5.1 | 8.1 | 10.3 | 12.6 | 15.1 | 14.0 | 12.3 | 12.6 | 9.9 | 8.9 | 8.1 | 7.4 | 5.6 | 6.9 | 5.4 | 5.6 | 6.4 | | |

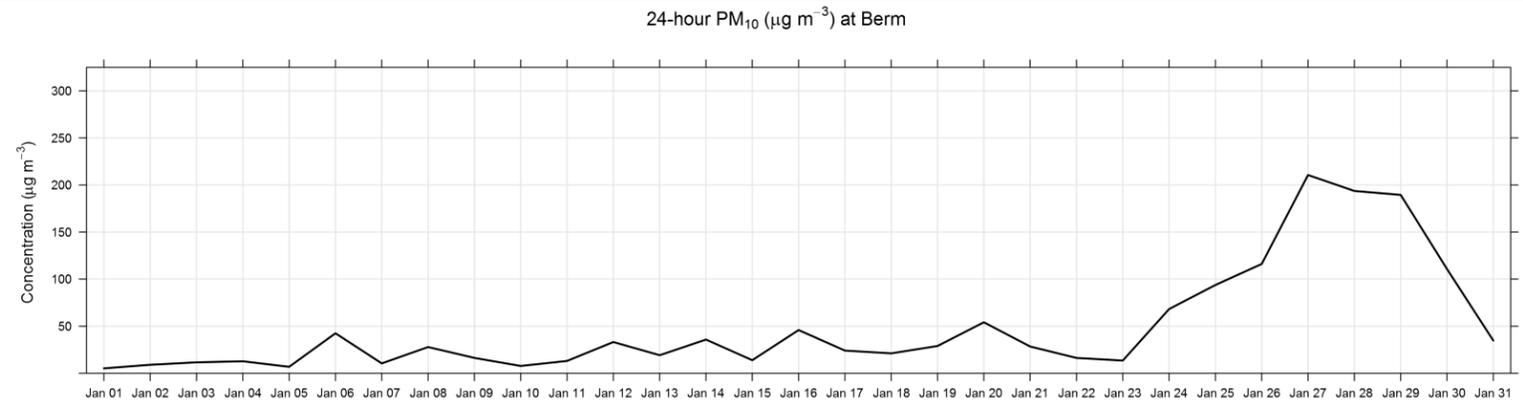
24-hour PM_{2.5} (µg m⁻³) at Berm



| | | | | |
|-----------------------------|-------|-----------|--------------------|-----------|
| Number of 1HR Exceedances | 1 | Guideline | 80 | UG/M3 |
| Number of 24HR Exceedances | 0 | Guideline | 30 | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 114.2 | UG/M3 | | |
| Maximum 24-HR Average | 22.5 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 10.1 | | Monthly Average | 7.7 UG/M3 |

Berm PM₁₀ (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average | |
|----------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|--|
| 1 | 10.9 | 12.3 | 11.0 | 10.4 | 7.6 | 7.3 | 7.9 | 6.2 | 3.6 | 5.8 | 3.9 | 3.9 | 3.7 | 3.0 | 3.7 | 3.0 | 3.2 | 3.0 | 3.8 | 2.7 | 2.1 | 4.1 | 1.0 | 1.1 | 12.3 | 5.2 | |
| 2 | 2.2 | 6.1 | 4.5 | 3.1 | 4.0 | 2.7 | 1.6 | 9.7 | 4.6 | 5.0 | 9.4 | 22.3 | 40.4 | 13.0 | 8.5 | 11.1 | 6.8 | 2.7 | 2.3 | 9.4 | 14.5 | 11.2 | 12.5 | 9.1 | 40.4 | 9.0 | |
| 3 | 5.4 | 3.4 | 4.2 | 3.2 | 3.0 | 3.0 | 3.3 | 4.0 | 3.9 | 7.1 | 21.2 | 16.4 | 34.0 | 15.4 | 21.9 | 18.3 | 8.2 | 5.9 | 6.9 | 19.0 | 32.9 | 14.2 | 19.7 | 4.1 | 34.0 | 11.6 | |
| 4 | 2.3 | 3.3 | 8.6 | 14.5 | 11.1 | 4.5 | 2.4 | 2.3 | 6.4 | 8.9 | 12.2 | 23.1 | 30.2 | 20.6 | 73.1 | 23.3 | 19.0 | 10.3 | 4.8 | 6.6 | 4.8 | 3.7 | 4.7 | 5.0 | 73.1 | 12.7 | |
| 5 | 3.1 | 5.8 | 4.5 | 4.3 | 7.2 | 3.4 | 9.9 | 8.5 | 5.2 | 9.6 | 6.3 | 10.2 | 11.2 | 12.4 | 30.4 | 8.0 | 8.3 | 6.0 | 3.1 | 1.2 | 1.2 | 1.9 | 1.4 | 1.4 | 30.4 | 6.9 | |
| 6 | 1.4 | 1.8 | 1.8 | 1.4 | 1.2 | 1.2 | 0.9 | 1.4 | 4.4 | 13.8 | 20.5 | 33.2 | 94.8 | 126.1 | 249.3 | 156.5 | 140.7 | 79.1 | 32.0 | 19.6 | 4.9 | 13.4 | 9.3 | 10.5 | 249.3 | 42.5 | |
| 7 | 5.5 | 4.8 | 8.2 | 1.2 | 0.8 | 1.0 | 0.7 | 1.9 | 6.0 | 15.6 | 17.7 | 22.6 | 29.3 | 17.1 | 18.6 | 12.6 | 12.5 | 10.5 | 12.8 | 9.4 | 11.5 | 9.8 | 9.6 | 11.4 | 29.3 | 10.5 | |
| 8 | 9.9 | 9.7 | 15.2 | 8.8 | 9.1 | 12.0 | 9.1 | 8.4 | 36.6 | 14.1 | 60.1 | 164.2 | 76.8 | 48.5 | 49.2 | 12.3 | 23.2 | 9.2 | 9.3 | 9.0 | 8.9 | 9.6 | 30.1 | 24.8 | 164.2 | 27.8 | |
| 9 | 28.4 | 26.0 | 19.1 | 15.4 | 10.2 | 8.8 | 7.6 | 7.2 | 16.2 | 18.6 | 13.6 | 11.6 | 13.5 | 16.8 | 12.8 | 14.9 | 26.0 | 20.6 | 28.8 | 18.1 | 13.1 | 13.9 | 16.2 | 13.8 | 28.8 | 16.3 | |
| 10 | 14.5 | 8.3 | 8.6 | 13.2 | 10.5 | 6.0 | 4.1 | 5.6 | 5.8 | 6.0 | 10.9 | 27.1 | 10.2 | 7.7 | 3.9 | 8.6 | 7.2 | 4.9 | 2.0 | 1.9 | 3.6 | 7.5 | 4.5 | 3.9 | 27.1 | 7.8 | |
| 11 | 6.1 | 6.4 | 6.9 | 7.5 | 3.5 | 5.1 | 10.9 | 24.1 | 14.6 | 31.6 | 39.7 | 23.4 | 21.7 | 23.7 | 34.6 | 16.4 | 19.5 | 4.5 | 2.4 | 1.7 | 2.5 | 2.4 | 2.0 | 2.4 | 39.7 | 13.1 | |
| 12 | 1.7 | 1.6 | 1.3 | 1.1 | 1.0 | 1.3 | 7.3 | 23.0 | 6.9 | 24.7 | 12.3 | 61.3 | 101.7 | 71.1 | 159.7 | 159.1 | 45.9 | 21.5 | 22.9 | 40.2 | 8.8 | 2.5 | 5.4 | 13.7 | 159.7 | 33.2 | |
| 13 | 8.9 | 9.2 | 12.7 | 2.4 | 4.5 | 4.1 | 1.7 | 1.4 | 3.0 | 8.0 | 6.5 | 22.4 | 41.2 | 43.3 | 42.2 | 32.6 | 35.9 | 31.3 | 8.4 | 9.4 | 57.6 | 34.9 | 15.1 | 22.9 | 57.6 | 19.2 | |
| 14 | 29.6 | 100.0 | 39.0 | 18.4 | 23.7 | 20.2 | 25.5 | 38.2 | 42.6 | 40.6 | 41.4 | 33.9 | 12.4 | 34.5 | 19.8 | 41.8 | 34.9 | 13.2 | 31.9 | 56.9 | 34.6 | 52.2 | 49.5 | 23.7 | 100.0 | 35.8 | |
| 15 | 31.7 | 43.0 | 46.4 | 29.1 | 26.6 | 7.4 | 4.7 | 2.3 | 5.1 | 8.7 | 8.3 | 12.6 | 31.3 | 12.4 | 23.1 | 9.9 | 6.1 | 6.7 | 4.4 | 2.3 | 5.1 | 1.5 | 2.2 | 1.7 | 46.4 | 13.9 | |
| 16 | 1.1 | 1.1 | 2.0 | 3.3 | 1.6 | 1.0 | 1.8 | 6.8 | 8.1 | 9.3 | 10.4 | 8.3 | 44.3 | 44.9 | 77.4 | 46.6 | 84.5 | 151.5 | 314.2 | 146.0 | 36.8 | 12.7 | 44.0 | 43.6 | 314.2 | 45.9 | |
| 17 | 44.5 | 43.3 | 19.3 | 35.7 | 4.5 | 18.0 | 40.8 | 22.6 | 18.5 | 20.9 | 33.8 | 63.1 | 50.4 | 32.8 | 31.1 | 23.3 | 5.7 | 3.8 | 3.4 | 9.7 | 11.8 | 13.2 | 7.2 | 19.9 | 63.1 | 24.1 | |
| 18 | 26.5 | 23.1 | 30.9 | 24.0 | 17.4 | 15.3 | 39.5 | 23.7 | 23.3 | 55.0 | 33.8 | 58.3 | 56.6 | 32.5 | 15.9 | 15.0 | 10.1 | 1.4 | 0.6 | 0.6 | 0.8 | 0.5 | 1.0 | 1.1 | 58.3 | 21.1 | |
| 19 | 18.8 | 47.3 | 0.5 | 0.5 | 1.9 | 0.4 | 0.4 | 0.5 | 1.9 | 7.9 | 36.6 | 50.0 | 58.2 | 62.6 | 38.7 | 63.3 | 40.6 | 25.0 | 25.1 | 27.2 | 53.7 | 49.6 | 47.8 | 36.8 | 63.3 | 29.0 | |
| 20 | 21.1 | 15.0 | 19.2 | 8.2 | 31.1 | 5.8 | 0.7 | 3.5 | 4.2 | 106.3 | 81.4 | 162.4 | 100.6 | 131.6 | 148.9 | 127.6 | 175.5 | 121.2 | 23.1 | 1.2 | 1.7 | 1.6 | 2.6 | 4.5 | 175.5 | 54.1 | |
| 21 | 3.9 | 1.1 | 1.3 | 4.3 | 2.1 | 2.2 | 2.0 | 2.9 | 10.0 | 4.2 | 104.8 | 69.2 | 79.8 | 23.1 | 48.1 | 76.2 | 6.1 | 5.6 | 3.4 | 22.7 | 62.4 | 59.5 | 46.8 | 40.3 | 104.8 | 28.4 | |
| 22 | 16.6 | 18.2 | 7.0 | 6.9 | 4.8 | 4.7 | 2.8 | 2.9 | 3.1 | 3.4 | 8.6 | 52.0 | 58.8 | 69.9 | 13.4 | 11.7 | 8.3 | 10.6 | 14.9 | 15.6 | 13.8 | 14.6 | 13.7 | 13.7 | 69.9 | 16.3 | |
| 23 | 12.7 | 12.1 | 10.0 | 8.5 | 11.1 | 16.2 | 16.4 | 15.0 | 11.8 | 12.7 | 25.5 | 21.8 | 28.2 | 21.7 | 26.9 | 18.6 | 22.6 | 5.3 | 3.5 | 3.3 | 3.1 | 5.3 | 7.0 | 4.0 | 28.2 | 13.5 | |
| 24 | 3.5 | 4.0 | 3.3 | 4.4 | 3.2 | 2.8 | 14.2 | 11.5 | 7.6 | 68.4 | 121.5 | 174.7 | 150.0 | 154.4 | 394.1 | 204.6 | 71.7 | 20.6 | 4.1 | 25.4 | 3.3 | 55.3 | 96.0 | 37.9 | 394.1 | 68.2 | |
| 25 | 29.5 | 17.6 | 23.2 | 6.6 | 15.5 | 14.5 | 12.8 | 17.6 | 47.5 | 14.0 | 61.8 | 434.4 | 288.7 | 227.1 | 368.4 | 286.5 | 220.0 | 64.7 | 29.2 | 8.7 | 7.3 | 28.1 | 18.8 | 7.5 | 434.4 | 93.8 | |
| 26 | 6.4 | 12.4 | 8.3 | 5.8 | 11.7 | 5.9 | 5.3 | 13.7 | 48.3 | 62.6 | 108.1 | 58.2 | 308.5 | 593.9 | 195.7 | 75.2 | 120.5 | 155.3 | 206.6 | 112.3 | 272.4 | 77.1 | 53.8 | 268.6 | 593.9 | 116.1 | |
| 27 | 116.6 | 156.6 | 113.2 | 139.7 | 129.0 | 86.8 | 60.7 | 320.7 | 292.6 | 358.2 | 1207.2 | 583.7 | 173.0 | 144.3 | 119.3 | 81.0 | 28.5 | 88.9 | 172.9 | 106.6 | 345.6 | 47.1 | 85.4 | 96.4 | 1207.2 | 210.6 | |
| 28 | 87.5 | 41.2 | 12.9 | 11.7 | 40.2 | 25.3 | 14.7 | 17.3 | 80.5 | 345.4 | 228.5 | 426.6 | 511.5 | 279.4 | 190.9 | 137.9 | 289.4 | 637.7 | 424.9 | 133.1 | 169.8 | 91.1 | 193.2 | 256.9 | 637.7 | 193.7 | |
| 29 | 335.9 | 114.4 | 185.1 | 151.1 | 147.2 | 99.3 | 188.9 | 299.8 | 659.2 | 478.4 | 250.1 | 283.4 | 228.5 | 78.0 | 177.7 | 137.8 | 124.4 | 85.0 | 59.3 | 140.9 | 159.0 | 112.8 | 33.0 | 18.5 | 659.2 | 189.5 | |
| 30 | 15.3 | 25.0 | 36.6 | 11.0 | 13.4 | 3.3 | 8.1 | 38.1 | 130.7 | 272.1 | 255.2 | 414.8 | 308.2 | 186.1 | 247.0 | 190.5 | 156.9 | 165.6 | 127.3 | 14.6 | 11.8 | 7.6 | 9.5 | 9.0 | 414.8 | 110.7 | |
| 31 | 10.9 | 9.0 | 5.1 | 2.0 | 2.8 | 1.9 | 7.3 | 14.7 | 115.2 | 136.3 | 94.0 | 147.3 | 96.8 | 36.9 | 62.1 | 40.7 | 11.1 | 7.4 | 10.0 | 9.5 | 6.0 | 2.4 | 2.0 | 2.0 | 147.3 | 34.7 | |
| Hourly Max | 335.9 | 156.6 | 185.1 | 151.1 | 147.2 | 99.3 | 188.9 | 320.7 | 659.2 | 478.4 | 1207.2 | 583.7 | 511.5 | 593.9 | 394.1 | 286.5 | 289.4 | 637.7 | 424.9 | 146.0 | 345.6 | 112.8 | 193.2 | 268.6 | | | |
| Hourly Average | 29.4 | 25.3 | 21.6 | 18.0 | 18.1 | 12.6 | 16.6 | 30.8 | 52.5 | 70.1 | 95.0 | 112.8 | 99.8 | 83.4 | 93.8 | 66.6 | 57.2 | 57.4 | 51.6 | 31.8 | 44.0 | 24.6 | 27.3 | 32.6 | | | |

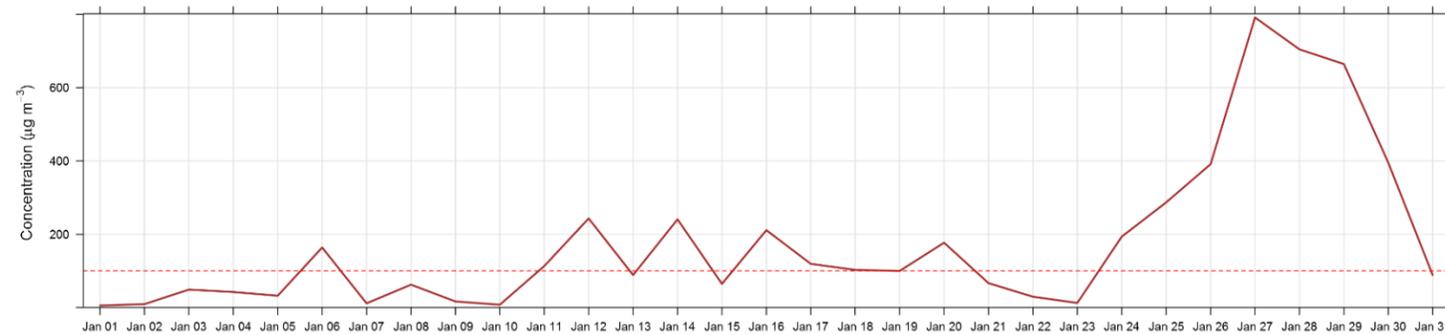


| | | | | |
|-----------------------------|--------|-----------|--------------------|------------|
| Number of 1HR Exceedances | n/a | Guideline | n/a | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 1207.2 | UG/M3 | | |
| Maximum 24-HR Average | 210.6 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 96.0 | | Monthly Average | 48.9 UG/M3 |

Berm TSP ($\mu\text{g}/\text{m}^3$) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------|--------|-------|-------|--------|-----------|-----------------|
| 1 | 12.1 | 14.2 | 11.9 | 11.3 | 8.0 | 8.2 | 8.7 | 6.3 | 3.3 | 6.3 | 4.2 | 4.1 | 4.1 | 3.0 | 3.7 | 2.8 | 3.3 | 2.6 | 3.6 | 2.3 | 1.7 | 3.5 | 0.8 | 0.8 | 14.2 | 5.4 |
| 2 | 1.5 | 4.7 | 3.7 | 2.3 | 3.9 | 2.1 | 1.1 | 10.8 | 4.6 | 5.4 | 10.6 | 25.9 | 46.9 | 14.6 | 9.6 | 10.2 | 5.3 | 1.8 | 1.5 | 9.4 | 15.3 | 10.5 | 12.4 | 8.2 | 46.9 | 9.3 |
| 3 | 3.9 | 2.4 | 3.8 | 2.3 | 2.1 | 2.1 | 2.6 | 3.3 | 3.7 | 7.7 | 174.2 | 100.2 | 108.7 | 50.0 | 50.9 | 62.0 | 17.6 | 14.2 | 20.6 | 92.8 | 277.0 | 74.6 | 84.4 | 13.4 | 277.0 | 48.9 |
| 4 | 3.4 | 13.5 | 65.6 | 140.3 | 139.9 | 26.5 | 9.0 | 1.9 | 6.9 | 10.0 | 30.2 | 65.3 | 92.1 | 57.7 | 180.6 | 66.1 | 31.8 | 16.4 | 4.0 | 8.9 | 8.3 | 2.9 | 9.4 | 26.6 | 180.6 | 42.4 |
| 5 | 3.2 | 25.9 | 20.1 | 31.3 | 64.8 | 20.4 | 82.2 | 34.2 | 33.3 | 90.2 | 31.3 | 46.0 | 40.5 | 40.4 | 123.7 | 28.0 | 18.9 | 20.7 | 12.4 | 0.8 | 0.8 | 1.4 | 1.0 | 0.9 | 123.7 | 32.2 |
| 6 | 1.0 | 1.4 | 1.5 | 1.1 | 1.0 | 0.9 | 0.6 | 1.1 | 9.9 | 57.5 | 84.2 | 161.3 | 463.5 | 528.1 | 894.1 | 547.5 | 494.6 | 306.1 | 120.0 | 82.8 | 18.5 | 64.4 | 32.6 | 58.0 | 894.1 | 163.8 |
| 7 | 14.9 | 16.6 | 25.1 | 3.0 | 0.8 | 2.1 | 0.5 | 3.1 | 13.4 | 12.1 | 12.7 | 20.3 | 28.7 | 11.5 | 20.5 | 15.8 | 19.3 | 7.3 | 9.5 | 6.8 | 8.7 | 7.4 | 7.5 | 8.8 | 28.7 | 11.5 |
| 8 | 7.3 | 7.7 | 14.4 | 7.0 | 7.7 | 9.5 | 6.0 | 5.5 | 40.6 | 13.4 | 168.4 | 487.7 | 208.1 | 140.3 | 180.9 | 27.6 | 63.1 | 7.5 | 8.9 | 8.8 | 5.9 | 6.7 | 34.4 | 28.3 | 487.7 | 62.3 |
| 9 | 32.6 | 29.6 | 20.2 | 15.1 | 8.2 | 6.4 | 5.1 | 4.7 | 16.1 | 18.8 | 12.9 | 9.8 | 13.0 | 18.0 | 11.5 | 13.4 | 27.8 | 21.3 | 32.9 | 20.1 | 13.1 | 14.9 | 17.8 | 14.6 | 32.9 | 16.6 |
| 10 | 16.0 | 8.9 | 9.2 | 14.3 | 11.0 | 5.2 | 3.1 | 4.9 | 5.3 | 5.5 | 10.2 | 30.2 | 8.5 | 7.3 | 3.5 | 9.5 | 7.3 | 4.9 | 1.3 | 1.3 | 3.3 | 7.2 | 3.6 | 2.8 | 30.2 | 7.7 |
| 11 | 6.0 | 6.7 | 7.5 | 8.2 | 3.5 | 36.4 | 181.7 | 438.2 | 207.6 | 36.4 | 528.8 | 313.3 | 238.1 | 212.0 | 149.8 | 120.1 | 161.0 | 40.0 | 11.7 | 2.0 | 2.0 | 1.7 | 1.5 | 1.7 | 528.8 | 113.2 |
| 12 | 1.1 | 1.1 | 0.9 | 0.8 | 0.8 | 7.1 | 103.7 | 346.7 | 40.7 | 349.6 | 51.3 | 397.6 | 838.2 | 455.3 | 1045.3 | 1260.4 | 251.8 | 125.4 | 121.3 | 280.4 | 44.6 | 4.6 | 28.2 | 77.8 | 1260.4 | 243.1 |
| 13 | 87.7 | 88.6 | 124.3 | 18.3 | 36.9 | 72.1 | 13.3 | 2.2 | 18.0 | 84.8 | 17.9 | 73.4 | 112.1 | 149.4 | 156.4 | 98.5 | 143.3 | 140.9 | 33.6 | 40.0 | 264.2 | 171.5 | 69.1 | 111.3 | 264.2 | 88.7 |
| 14 | 142.9 | 574.6 | 224.4 | 98.6 | 154.1 | 130.1 | 234.6 | 342.5 | 411.0 | 442.0 | 423.2 | 258.2 | 53.7 | 182.6 | 67.7 | 157.6 | 147.8 | 48.1 | 123.5 | 239.6 | 141.0 | 455.8 | 484.5 | 236.7 | 574.6 | 240.6 |
| 15 | 237.1 | 219.8 | 242.2 | 117.2 | 108.0 | 31.7 | 16.3 | 7.6 | 15.6 | 35.7 | 32.1 | 48.0 | 129.1 | 54.8 | 97.0 | 47.0 | 23.0 | 31.8 | 14.5 | 6.2 | 25.6 | 2.1 | 4.3 | 3.3 | 242.2 | 64.6 |
| 16 | 2.2 | 2.5 | 6.9 | 11.2 | 3.5 | 3.8 | 7.1 | 36.7 | 36.4 | 29.5 | 40.6 | 31.7 | 168.8 | 181.5 | 341.6 | 190.6 | 397.5 | 701.4 | 1465.6 | 765.6 | 189.3 | 73.5 | 185.0 | 194.4 | 1465.6 | 211.1 |
| 17 | 213.2 | 237.7 | 84.3 | 199.4 | 20.4 | 74.2 | 165.4 | 119.4 | 114.1 | 120.8 | 184.2 | 312.6 | 251.6 | 171.2 | 174.3 | 120.4 | 14.2 | 9.7 | 9.2 | 40.8 | 55.4 | 59.4 | 29.0 | 79.4 | 312.6 | 119.2 |
| 18 | 111.2 | 94.9 | 128.7 | 109.7 | 91.4 | 82.0 | 218.4 | 109.0 | 122.6 | 272.5 | 181.6 | 281.9 | 286.6 | 170.5 | 77.4 | 77.3 | 42.8 | 1.7 | 0.4 | 0.4 | 0.5 | 0.3 | 0.9 | 1.4 | 286.6 | 102.7 |
| 19 | 105.3 | 172.2 | 1.8 | 0.5 | 6.2 | 0.2 | 0.2 | 0.4 | 2.7 | 19.7 | 112.1 | 151.3 | 140.0 | 197.1 | 150.2 | 220.1 | 154.9 | 88.6 | 107.3 | 60.2 | 214.6 | 173.2 | 205.2 | 110.8 | 220.1 | 99.8 |
| 20 | 72.3 | 67.2 | 71.8 | 29.4 | 99.9 | 8.1 | 2.5 | 14.5 | 15.4 | 280.8 | 256.0 | 540.0 | 324.0 | 371.6 | 569.3 | 420.7 | 569.2 | 424.2 | 78.5 | 2.8 | 3.0 | 2.0 | 8.3 | 14.7 | 569.3 | 176.9 |
| 21 | 10.6 | 3.5 | 3.1 | 6.1 | 3.5 | 3.5 | 1.7 | 2.9 | 11.4 | 4.3 | 392.5 | 232.9 | 251.2 | 62.0 | 141.5 | 217.1 | 20.6 | 21.5 | 4.6 | 17.7 | 57.8 | 44.3 | 51.6 | 31.5 | 392.5 | 66.6 |
| 22 | 14.9 | 15.6 | 7.2 | 18.0 | 12.3 | 3.8 | 2.1 | 2.5 | 2.9 | 3.2 | 15.6 | 226.0 | 159.8 | 94.7 | 33.7 | 25.8 | 6.0 | 7.1 | 9.9 | 10.3 | 8.9 | 9.5 | 8.8 | 8.9 | 226.0 | 29.5 |
| 23 | 8.2 | 7.9 | 6.5 | 5.5 | 7.5 | 11.6 | 12.2 | 12.5 | 10.8 | 12.6 | 27.9 | 24.1 | 31.7 | 24.1 | 29.1 | 20.8 | 24.8 | 3.6 | 2.7 | 2.2 | 2.0 | 3.6 | 5.6 | 3.2 | 31.7 | 12.5 |
| 24 | 3.0 | 3.6 | 2.7 | 4.3 | 3.0 | 4.4 | 53.8 | 16.7 | 8.6 | 221.9 | 409.2 | 534.7 | 463.3 | 425.4 | 1007.4 | 526.0 | 154.3 | 39.7 | 7.7 | 53.1 | 5.0 | 212.4 | 344.1 | 138.6 | 1007.4 | 193.4 |
| 25 | 105.5 | 43.8 | 63.8 | 18.5 | 57.5 | 60.4 | 50.1 | 56.3 | 188.5 | 42.5 | 191.3 | 1365.2 | 858.7 | 671.0 | 1098.0 | 830.7 | 639.9 | 217.3 | 71.8 | 25.4 | 24.3 | 107.1 | 72.3 | 26.2 | 1365.2 | 286.9 |
| 26 | 28.2 | 55.2 | 31.2 | 26.5 | 55.4 | 21.9 | 19.6 | 43.7 | 121.1 | 185.3 | 280.1 | 168.6 | 861.6 | 1646.2 | 585.7 | 183.8 | 349.2 | 556.0 | 854.1 | 459.3 | 1138.4 | 328.6 | 235.7 | 1152.9 | 1646.2 | 391.2 |
| 27 | 562.6 | 633.0 | 465.3 | 594.6 | 569.9 | 394.9 | 278.8 | 1514.0 | 1169.0 | 1461.3 | 3449.8 | 2123.0 | 615.0 | 480.3 | 346.1 | 263.7 | 100.1 | 336.8 | 682.5 | 472.0 | 1451.1 | 241.2 | 382.8 | 408.0 | 3449.8 | 791.5 |
| 28 | 382.6 | 191.6 | 71.6 | 52.1 | 180.6 | 129.3 | 78.8 | 62.5 | 294.6 | 1275.6 | 809.1 | 1446.9 | 1781.1 | 1046.0 | 697.1 | 419.5 | 937.6 | 2158.4 | 1559.6 | 523.0 | 725.4 | 395.9 | 760.4 | 929.2 | 2158.4 | 704.5 |
| 29 | 959.1 | 390.3 | 494.2 | 610.0 | 644.9 | 445.6 | 801.4 | 1092.7 | 2365.7 | 1754.5 | 899.8 | 1021.0 | 581.1 | 162.5 | 453.6 | 486.7 | 447.9 | 176.8 | 227.6 | 561.3 | 691.2 | 474.6 | 121.0 | 83.9 | 2365.7 | 664.5 |
| 30 | 73.4 | 118.2 | 183.3 | 47.4 | 14.3 | 12.4 | 19.3 | 126.5 | 475.9 | 970.3 | 974.7 | 1506.9 | 1206.9 | 716.2 | 813.5 | 590.2 | 549.1 | 516.4 | 469.0 | 33.1 | 19.1 | 17.3 | 14.9 | 16.5 | 1506.9 | 395.2 |
| 31 | 16.3 | 27.1 | 18.5 | 3.0 | 7.8 | 6.6 | 23.5 | 41.5 | 298.5 | 426.8 | 224.4 | 350.3 | 205.5 | 59.3 | 130.7 | 125.3 | 25.2 | 16.2 | 30.8 | 47.6 | 21.8 | 6.4 | 2.9 | 7.1 | 426.8 | 88.5 |
| Hourly Max | 959.1 | 633.0 | 494.2 | 610.0 | 644.9 | 445.6 | 801.4 | 1514.0 | 2365.7 | 1754.5 | 3449.8 | 2123.0 | 1781.1 | 1646.2 | 1098.0 | 1260.4 | 937.6 | 2158.4 | 1559.6 | 765.6 | 1451.1 | 474.6 | 760.4 | 1152.9 | | |
| Hourly Average | 104.5 | 99.4 | 77.9 | 71.2 | 75.1 | 52.4 | 77.5 | 144.0 | 195.7 | 266.4 | 323.9 | 398.7 | 341.0 | 271.1 | 311.1 | 231.8 | 188.7 | 195.6 | 196.8 | 125.1 | 175.4 | 96.1 | 103.9 | 122.6 | | |

24-hour TSP ($\mu\text{g m}^{-3}$) at Berm



| | | | | |
|-----------------------------|--------|-----------|--------------------|-------------|
| Number of 24HR Exceedances | 15 | Guideline | 100 | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 3449.8 | UG/M3 | | |
| Maximum 24-HR Average | 791.5 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 336.0 | | Monthly Average | 176.9 UG/M3 |

Entrance PM_{2.5} (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| 1 | 10.3 | 1.9 | 3.8 | 4.8 | 3.4 | 2.5 | 2.9 | 3.1 | 5.1 | 1.9 | 1.5 | 1.3 | 1.6 | 2.0 | 1.8 | 1.3 | 2.0 | 4.0 | 2.1 | 1.3 | 2.1 | 2.2 | 3.3 | 4.5 | 10.3 | 2.9 |
| 2 | 2.8 | 3.0 | 7.3 | 3.4 | 9.6 | 11.9 | 19.9 | 28.0 | 24.1 | 27.5 | 30.7 | 14.0 | 5.8 | 3.3 | 3.3 | 9.1 | 10.8 | 10.1 | 10.2 | 12.3 | 12.4 | 11.4 | 10.2 | 9.5 | 30.7 | 12.1 |
| 3 | 11.3 | 12.2 | 7.7 | 9.9 | 13.0 | 11.4 | 10.2 | 10.8 | 103.1 | 37.3 | 14.9 | 11.9 | 8.7 | 7.5 | 6.5 | 6.6 | 10.2 | 11.5 | 14.9 | 14.2 | 12.3 | 10.3 | 11.3 | 8.7 | 103.1 | 15.7 |
| 4 | 8.5 | 43.4 | 10.6 | 10.7 | 8.2 | 6.5 | 8.1 | 15.7 | 39.6 | 19.3 | 13.5 | 23.1 | 45.4 | 26.3 | 14.4 | 8.5 | 4.4 | 5.8 | 4.6 | 7.9 | 9.0 | 10.6 | 7.6 | 9.6 | 45.4 | 15.1 |
| 5 | 15.3 | 4.7 | 3.0 | 5.4 | 8.7 | 4.0 | 2.7 | 4.2 | 9.9 | 8.6 | 6.1 | 7.1 | 10.4 | 7.9 | 9.2 | 6.9 | 7.1 | 7.9 | 6.2 | 3.9 | 3.7 | 4.0 | 2.9 | 6.2 | 15.3 | 6.5 |
| 6 | 5.1 | 8.4 | 10.7 | 6.5 | 6.8 | 8.1 | 3.1 | 5.0 | 11.4 | 9.6 | 14.8 | 13.3 | 9.0 | 5.8 | 8.2 | 4.5 | 6.3 | 4.1 | 3.9 | 3.5 | 6.5 | 10.3 | 7.1 | 6.5 | 14.8 | 7.4 |
| 7 | 8.3 | 6.9 | 3.7 | 2.1 | 1.9 | 2.6 | 2.5 | 5.4 | 13.7 | 18.9 | 26.6 | 27.5 | 23.9 | 19.2 | 18.5 | 15.9 | 15.0 | 13.2 | 16.3 | 14.4 | 14.0 | 16.0 | 17.9 | 15.4 | 27.5 | 13.3 |
| 8 | 14.3 | 10.4 | 11.2 | 10.7 | 13.6 | 10.5 | 12.1 | 24.0 | 17.8 | 21.1 | 16.6 | 10.8 | 17.6 | 19.1 | 28.1 | 16.1 | 16.2 | 12.4 | 13.9 | 14.7 | 13.6 | 12.6 | 20.5 | 26.6 | 28.1 | 16.0 |
| 9 | 23.5 | 25.4 | 19.5 | 16.6 | 12.4 | 11.3 | 11.0 | 12.3 | 15.7 | 22.7 | 18.6 | 19.9 | 18.2 | 20.3 | 12.2 | 15.9 | 13.5 | 23.9 | 27.1 | 16.7 | 12.6 | 14.0 | 14.3 | 14.3 | 27.1 | 17.2 |
| 10 | 12.8 | 10.5 | 12.9 | 14.3 | 11.5 | 9.0 | 6.8 | 21.3 | 20.8 | 11.6 | 11.7 | 14.1 | 9.8 | 5.6 | 6.3 | 3.1 | 11.0 | 9.6 | 3.9 | 4.1 | 8.8 | 11.0 | 7.7 | 10.0 | 21.3 | 10.3 |
| 11 | 15.4 | 9.2 | 9.2 | 9.5 | 7.6 | 6.8 | 8.2 | 9.9 | 11.7 | 14.4 | 10.6 | 11.5 | 11.2 | 8.1 | 18.8 | 17.6 | 23.4 | 8.1 | 5.5 | 4.2 | 5.6 | 10.4 | 10.8 | 19.5 | 23.4 | 11.1 |
| 12 | 11.2 | 11.7 | 7.3 | 2.6 | 2.6 | 5.2 | 4.9 | 8.2 | 17.8 | 24.5 | 10.7 | 13.3 | 14.4 | 29.5 | 12.7 | 12.0 | 6.0 | 4.1 | 2.8 | 3.2 | 5.1 | 4.3 | 6.0 | 7.0 | 29.5 | 9.5 |
| 13 | 4.9 | 6.7 | 10.1 | 10.4 | 7.9 | 4.3 | 2.2 | 3.0 | 6.1 | 5.1 | 3.5 | 9.7 | 22.3 | 13.1 | 10.1 | 8.2 | 8.6 | 17.2 | 8.5 | 6.4 | 7.6 | 23.3 | 22.1 | 9.6 | 23.3 | 9.6 |
| 14 | 13.7 | 16.9 | 14.5 | 18.6 | 12.5 | 8.7 | 9.5 | 12.9 | 24.9 | 30.6 | 32.8 | 46.4 | 32.1 | 10.2 | 8.7 | 20.2 | 16.0 | 19.1 | 11.2 | 9.5 | 12.6 | 8.9 | 11.3 | 11.9 | 46.4 | 17.2 |
| 15 | 15.5 | 16.1 | 12.4 | 7.3 | 7.6 | 3.9 | 4.6 | 6.0 | 9.7 | 7.7 | 8.4 | 9.7 | 6.3 | 8.2 | 8.7 | 7.4 | 5.5 | 7.6 | 8.1 | 7.8 | 10.2 | 7.6 | 11.3 | 8.0 | 16.1 | 8.6 |
| 16 | 7.5 | 4.8 | 4.6 | 24.6 | 13.9 | 4.7 | 31.0 | 15.6 | 23.2 | 26.0 | 15.4 | 8.8 | 10.3 | 6.5 | 6.2 | 4.5 | 5.3 | 4.6 | 11.3 | 9.1 | 3.2 | 1.9 | 1.2 | 1.2 | 31.0 | 10.2 |
| 17 | 1.5 | 1.1 | 0.7 | 0.6 | 0.5 | 0.4 | 0.6 | 1.2 | 2.0 | 2.6 | 2.6 | 2.9 | 1.5 | 2.2 | 0.7 | 1.0 | 0.6 | 0.4 | 0.5 | 0.5 | 1.2 | 3.3 | 3.2 | 2.6 | 3.3 | 1.4 |
| 18 | 0.8 | 1.0 | 0.8 | 0.4 | 0.3 | 0.3 | 1.0 | 2.0 | 2.2 | 2.6 | 9.8 | 13.5 | 9.0 | 8.1 | 8.5 | 3.2 | 3.0 | 5.0 | 3.6 | 13.4 | 13.7 | 12.2 | 9.1 | 0.5 | 13.7 | 5.2 |
| 19 | 0.9 | 0.3 | 1.5 | 3.4 | 8.0 | 12.6 | 11.1 | 13.9 | 21.7 | 8.7 | 7.5 | 6.1 | 9.2 | 9.5 | 4.8 | 6.1 | 3.1 | 3.2 | 2.3 | 1.3 | 1.4 | 1.4 | 1.3 | 0.9 | 21.7 | 5.8 |
| 20 | 0.6 | 1.2 | 1.3 | 7.5 | 6.6 | 10.6 | 9.6 | 16.8 | 10.2 | 13.4 | 24.2 | 11.0 | 11.1 | 15.1 | 10.1 | 10.9 | 4.3 | 8.3 | 7.2 | 21.2 | 5.5 | 4.4 | 9.3 | 13.0 | 24.2 | 9.7 |
| 21 | 7.8 | 8.5 | 10.2 | 23.5 | 14.3 | 18.8 | 16.9 | 15.6 | 9.5 | 21.4 | 13.8 | 16.7 | 21.0 | 19.0 | 16.3 | 25.1 | 20.3 | 19.8 | 9.4 | 5.4 | 11.9 | 9.2 | 12.2 | 11.7 | 25.1 | 14.9 |
| 22 | 8.8 | 7.1 | 24.3 | 8.4 | 12.0 | 5.7 | 12.4 | 10.1 | 15.5 | 13.6 | 9.4 | 3.8 | 6.4 | 7.8 | 8.6 | 8.0 | 8.4 | 11.7 | 15.6 | 17.3 | 16.7 | 16.8 | 16.1 | 15.5 | 24.3 | 11.7 |
| 23 | 15.0 | 13.9 | 12.8 | 11.2 | 12.2 | 13.6 | 13.1 | 15.2 | 22.9 | 19.9 | 17.9 | 12.5 | 16.6 | 15.9 | 17.2 | 14.7 | 18.3 | 8.8 | 5.2 | 5.5 | 6.8 | 7.5 | 9.8 | 7.1 | 22.9 | 13.1 |
| 24 | 7.7 | 7.3 | 6.5 | 6.4 | 6.2 | 5.6 | 5.2 | 8.8 | 16.5 | 16.9 | 11.9 | 19.6 | 20.3 | 37.7 | 23.7 | 33.3 | 20.4 | 18.0 | 6.1 | 7.1 | 4.9 | 5.7 | 4.4 | 2.6 | 37.7 | 12.6 |
| 25 | 2.9 | 4.7 | 12.2 | 15.6 | 18.1 | 12.8 | 14.6 | 11.0 | 15.6 | 17.1 | 18.7 | 15.8 | 14.7 | 11.4 | 10.8 | 6.4 | 6.6 | 6.2 | 3.2 | 4.6 | 9.3 | 6.9 | 7.5 | 7.3 | 18.7 | 10.6 |
| 26 | 4.6 | 7.4 | 9.1 | 13.1 | 9.4 | 7.1 | 5.8 | 8.3 | 24.5 | 23.4 | 32.0 | 23.7 | 34.5 | 33.7 | 21.1 | 20.0 | 22.3 | 13.3 | 17.1 | 9.7 | 13.9 | 10.3 | 9.9 | 6.2 | 34.5 | 15.9 |
| 27 | 8.4 | 8.6 | 15.8 | 12.9 | 10.2 | 8.1 | 7.8 | 12.0 | 27.7 | 27.3 | 42.5 | 14.1 | 7.9 | 6.9 | 5.5 | 5.8 | 3.4 | 4.9 | 8.6 | 4.8 | 8.9 | 3.2 | 4.1 | 10.5 | 42.5 | 11.2 |
| 28 | 4.8 | 2.3 | 2.7 | 1.8 | 3.1 | 2.6 | 2.3 | 4.7 | 4.2 | 7.0 | 6.6 | 8.0 | 16.3 | 8.8 | 5.5 | 4.1 | 5.2 | 19.7 | 8.4 | 3.8 | 4.9 | 3.5 | 5.8 | 9.6 | 19.7 | 6.1 |
| 29 | 22.0 | 9.7 | 8.5 | 17.2 | 8.5 | 12.4 | 8.3 | 15.0 | 16.3 | 6.5 | 6.1 | 5.9 | 5.3 | 3.6 | 5.5 | 4.2 | 6.6 | 1.8 | 2.5 | 6.4 | 8.2 | 6.6 | 4.7 | 4.7 | 22.0 | 8.2 |
| 30 | 2.8 | 3.4 | 3.5 | 7.2 | 14.4 | 1.8 | 3.4 | 3.7 | 6.4 | 11.0 | 7.3 | 8.5 | 5.6 | 4.4 | 4.7 | 3.0 | 4.3 | 2.7 | 2.2 | 2.4 | 3.5 | 4.2 | 3.9 | 3.5 | 14.4 | 4.9 |
| 31 | 5.2 | 0.7 | 1.2 | 1.8 | 4.6 | 8.7 | 7.3 | 11.6 | 31.3 | 25.5 | 10.0 | 9.8 | 9.5 | 5.2 | 5.5 | 10.0 | 7.1 | 8.0 | 3.0 | 4.0 | 3.3 | 1.9 | 1.1 | 2.7 | 31.3 | 7.5 |
| Hourly Max | 23.5 | 43.4 | 24.3 | 24.6 | 18.1 | 18.8 | 31.0 | 28.0 | 103.1 | 37.3 | 42.5 | 46.4 | 45.4 | 37.7 | 28.1 | 33.3 | 23.4 | 23.9 | 27.1 | 21.2 | 16.7 | 23.3 | 22.1 | 26.6 | | |
| Hourly Average | 8.8 | 8.7 | 8.4 | 9.3 | 8.7 | 7.5 | 8.4 | 10.8 | 18.7 | 16.3 | 14.7 | 13.4 | 14.1 | 12.3 | 10.4 | 10.1 | 9.5 | 9.5 | 7.9 | 7.8 | 8.2 | 8.3 | 8.7 | 8.6 | | |

24-hour PM_{2.5} (µg m⁻³) at Entrance

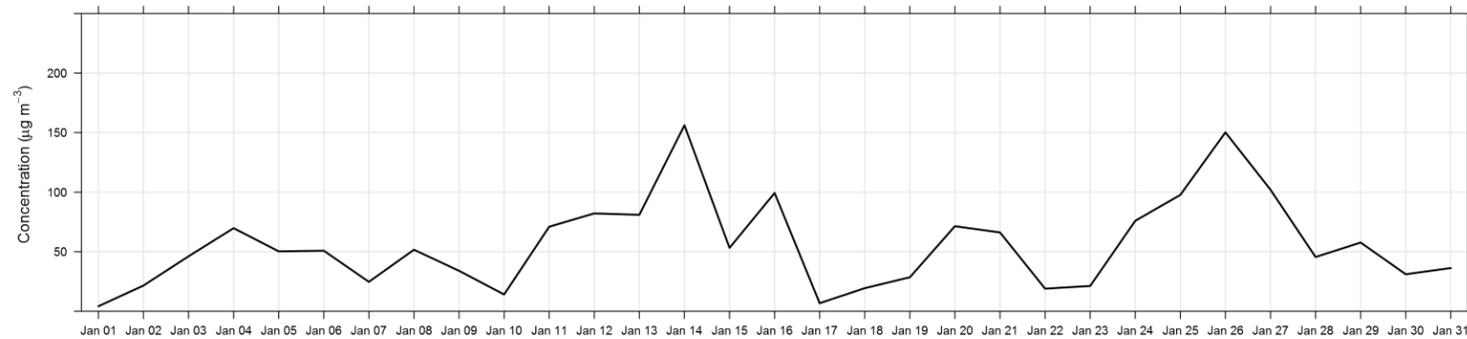


| | | | | |
|-----------------------------|-------|-----------|--------------------|------------|
| Number of 1HR Exceedances | 1 | Guideline | 80 | UG/M3 |
| Number of 24HR Exceedances | 0 | Guideline | 30 | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 103.1 | UG/M3 | | |
| Maximum 24-HR Average | 17.2 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 8.1 | | Monthly Average | 10.4 UG/M3 |

Entrance PM₁₀ (µg/m³) – January 2017

| Day/Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|
| 1 | 15.1 | 2.5 | 4.3 | 5.7 | 4.0 | 3.3 | 3.9 | 4.1 | 6.4 | 2.5 | 4.0 | 2.9 | 2.2 | 5.0 | 4.0 | 2.3 | 2.9 | 4.8 | 2.9 | 1.6 | 2.6 | 2.8 | 4.0 | 6.5 | 15.1 | 4.2 |
| 2 | 3.4 | 4.1 | 10.6 | 4.7 | 14.1 | 17.8 | 24.5 | 34.2 | 34.7 | 39.4 | 48.8 | 111.2 | 16.6 | 6.8 | 6.7 | 13.5 | 16.2 | 14.6 | 15.2 | 18.5 | 18.5 | 16.6 | 14.6 | 12.9 | 111.2 | 21.6 |
| 3 | 16.8 | 18.3 | 11.3 | 14.8 | 57.6 | 34.1 | 33.9 | 15.8 | 118.9 | 50.6 | 78.4 | 48.2 | 23.7 | 15.7 | 9.7 | 13.1 | 50.7 | 59.6 | 68.1 | 49.0 | 114.3 | 61.1 | 89.5 | 53.8 | 118.9 | 46.1 |
| 4 | 52.6 | 190.1 | 80.1 | 126.5 | 68.1 | 49.4 | 52.8 | 60.5 | 65.5 | 68.3 | 67.0 | 108.5 | 224.6 | 158.9 | 84.3 | 35.0 | 8.0 | 8.6 | 6.6 | 11.5 | 13.1 | 28.5 | 40.7 | 65.1 | 224.6 | 69.8 |
| 5 | 130.0 | 26.6 | 16.6 | 55.9 | 80.8 | 34.5 | 23.9 | 36.6 | 95.6 | 76.2 | 39.0 | 66.5 | 123.8 | 75.0 | 87.9 | 59.9 | 49.0 | 52.6 | 37.7 | 5.8 | 5.5 | 6.2 | 4.0 | 17.5 | 130.0 | 50.3 |
| 6 | 7.6 | 12.6 | 16.1 | 9.7 | 10.1 | 12.2 | 4.6 | 13.9 | 99.3 | 76.0 | 133.3 | 142.7 | 105.7 | 53.9 | 67.4 | 30.7 | 55.9 | 30.6 | 26.3 | 23.8 | 57.9 | 107.1 | 67.3 | 55.6 | 142.7 | 50.8 |
| 7 | 85.8 | 70.0 | 31.8 | 11.1 | 8.4 | 17.2 | 4.2 | 8.0 | 20.4 | 25.9 | 32.5 | 35.3 | 30.0 | 20.1 | 21.0 | 19.1 | 17.5 | 14.5 | 20.6 | 18.7 | 17.8 | 20.5 | 23.4 | 18.7 | 85.8 | 24.7 |
| 8 | 18.0 | 12.1 | 13.0 | 12.8 | 18.2 | 13.0 | 16.1 | 29.1 | 24.0 | 31.6 | 55.8 | 23.1 | 110.1 | 161.1 | 348.0 | 124.9 | 80.5 | 16.7 | 17.0 | 17.1 | 15.1 | 14.0 | 29.0 | 39.1 | 348.0 | 51.6 |
| 9 | 34.1 | 36.5 | 27.0 | 21.5 | 14.2 | 12.7 | 13.4 | 16.6 | 22.3 | 33.2 | 30.4 | 93.4 | 68.1 | 108.5 | 20.8 | 35.8 | 18.3 | 70.8 | 39.5 | 23.4 | 16.5 | 19.2 | 19.4 | 19.6 | 108.5 | 34.0 |
| 10 | 17.5 | 14.1 | 17.7 | 19.4 | 15.3 | 12.1 | 9.0 | 26.6 | 26.2 | 17.0 | 16.0 | 19.8 | 12.7 | 7.5 | 7.1 | 3.8 | 16.4 | 13.9 | 5.3 | 5.3 | 13.0 | 16.3 | 11.2 | 14.4 | 26.6 | 14.1 |
| 11 | 23.2 | 13.6 | 14.9 | 23.6 | 32.9 | 49.0 | 52.6 | 68.2 | 85.3 | 103.7 | 101.6 | 100.3 | 103.5 | 72.8 | 194.9 | 169.3 | 194.0 | 69.3 | 39.0 | 17.9 | 29.0 | 59.1 | 49.2 | 36.6 | 194.9 | 71.0 |
| 12 | 16.8 | 20.7 | 12.7 | 3.6 | 5.1 | 30.4 | 49.8 | 109.8 | 211.5 | 258.4 | 95.2 | 131.0 | 137.2 | 279.4 | 159.8 | 150.0 | 65.0 | 30.9 | 19.2 | 21.6 | 35.6 | 23.0 | 49.4 | 55.2 | 279.4 | 82.1 |
| 13 | 41.5 | 48.6 | 66.8 | 99.9 | 79.2 | 35.9 | 10.1 | 20.3 | 58.9 | 42.8 | 19.1 | 81.1 | 224.5 | 127.1 | 70.5 | 61.8 | 49.7 | 164.5 | 55.7 | 48.2 | 56.8 | 206.2 | 212.5 | 61.6 | 224.5 | 81.0 |
| 14 | 82.2 | 133.8 | 108.1 | 114.1 | 88.6 | 62.2 | 66.5 | 111.7 | 236.5 | 283.2 | 363.0 | 506.1 | 315.4 | 84.3 | 73.2 | 175.9 | 159.8 | 180.3 | 90.3 | 93.9 | 127.8 | 75.3 | 110.0 | 104.9 | 506.1 | 156.1 |
| 15 | 144.2 | 143.2 | 103.3 | 53.9 | 55.1 | 23.5 | 32.0 | 34.3 | 42.2 | 36.2 | 40.2 | 48.8 | 34.4 | 45.4 | 42.5 | 37.5 | 27.4 | 41.4 | 51.5 | 38.6 | 59.5 | 42.6 | 59.4 | 40.2 | 144.2 | 53.2 |
| 16 | 26.8 | 23.8 | 36.4 | 310.0 | 128.0 | 40.8 | 445.9 | 155.5 | 213.8 | 217.2 | 125.7 | 68.8 | 98.5 | 55.2 | 59.9 | 33.2 | 46.1 | 42.5 | 127.2 | 87.9 | 21.9 | 8.5 | 4.4 | 5.3 | 445.9 | 99.3 |
| 17 | 9.9 | 5.6 | 2.2 | 1.7 | 2.1 | 2.1 | 3.3 | 9.7 | 5.1 | 12.7 | 14.4 | 14.0 | 7.9 | 6.7 | 3.3 | 3.9 | 1.0 | 0.7 | 0.6 | 1.4 | 3.5 | 14.7 | 18.9 | 16.5 | 18.9 | 6.8 |
| 18 | 5.5 | 3.9 | 5.0 | 2.2 | 0.9 | 1.1 | 5.7 | 13.4 | 14.1 | 18.1 | 49.7 | 73.3 | 55.4 | 40.1 | 45.8 | 15.6 | 14.1 | 17.7 | 9.6 | 20.1 | 20.5 | 18.3 | 13.5 | 1.5 | 73.3 | 19.4 |
| 19 | 5.1 | 0.8 | 5.5 | 13.0 | 26.5 | 26.9 | 16.6 | 27.7 | 83.6 | 37.1 | 31.5 | 71.3 | 81.7 | 86.8 | 40.8 | 34.2 | 22.2 | 26.8 | 9.4 | 7.7 | 8.6 | 11.8 | 4.9 | 3.7 | 86.8 | 28.5 |
| 20 | 2.4 | 5.1 | 6.7 | 43.5 | 33.7 | 89.8 | 113.9 | 137.4 | 98.7 | 101.3 | 136.4 | 61.1 | 73.1 | 137.4 | 80.9 | 88.2 | 36.0 | 65.4 | 61.0 | 140.5 | 32.7 | 25.7 | 59.1 | 83.9 | 140.5 | 71.4 |
| 21 | 49.4 | 50.1 | 58.2 | 132.1 | 91.8 | 115.4 | 77.2 | 23.4 | 14.0 | 32.0 | 56.0 | 98.4 | 114.5 | 125.5 | 85.8 | 159.3 | 100.2 | 76.4 | 14.0 | 8.1 | 49.1 | 21.1 | 18.3 | 17.5 | 159.3 | 66.2 |
| 22 | 13.0 | 10.4 | 49.3 | 12.5 | 17.8 | 8.4 | 18.5 | 14.9 | 23.1 | 20.3 | 18.0 | 9.8 | 36.9 | 26.3 | 45.3 | 9.3 | 9.0 | 12.7 | 16.1 | 17.7 | 17.0 | 17.0 | 16.4 | 15.7 | 49.3 | 19.0 |
| 23 | 15.2 | 14.0 | 13.6 | 11.3 | 13.2 | 16.7 | 14.5 | 20.6 | 34.0 | 29.9 | 26.5 | 17.9 | 21.5 | 24.3 | 38.6 | 55.2 | 71.8 | 12.1 | 6.4 | 7.3 | 9.5 | 10.6 | 14.6 | 10.4 | 71.8 | 21.2 |
| 24 | 11.5 | 10.8 | 9.5 | 10.9 | 22.2 | 24.7 | 26.9 | 36.0 | 33.2 | 91.3 | 61.1 | 128.2 | 162.3 | 202.5 | 132.5 | 292.2 | 142.6 | 158.9 | 51.6 | 55.3 | 30.1 | 48.1 | 58.0 | 21.3 | 292.2 | 75.9 |
| 25 | 34.5 | 43.4 | 119.2 | 142.4 | 162.9 | 119.5 | 154.3 | 103.1 | 141.3 | 168.1 | 190.6 | 165.0 | 127.5 | 93.1 | 82.5 | 47.1 | 49.1 | 40.6 | 22.3 | 36.5 | 74.5 | 71.6 | 83.5 | 72.0 | 190.6 | 97.7 |
| 26 | 40.1 | 78.5 | 84.5 | 106.3 | 98.5 | 65.2 | 47.3 | 76.8 | 246.8 | 266.6 | 304.9 | 241.1 | 353.9 | 321.6 | 185.5 | 214.4 | 172.3 | 82.6 | 166.8 | 93.5 | 135.3 | 91.7 | 82.6 | 47.3 | 353.9 | 150.2 |
| 27 | 79.2 | 62.3 | 176.6 | 115.7 | 111.5 | 71.8 | 66.3 | 117.7 | 237.4 | 258.5 | 440.2 | 114.5 | 50.8 | 46.7 | 36.8 | 37.3 | 19.6 | 39.9 | 71.7 | 42.7 | 92.5 | 19.4 | 36.2 | 103.0 | 440.2 | 102.0 |
| 28 | 32.4 | 17.6 | 13.6 | 7.4 | 18.9 | 15.9 | 12.7 | 20.3 | 21.3 | 64.3 | 59.3 | 63.3 | 148.2 | 64.0 | 21.5 | 15.3 | 29.0 | 154.3 | 74.6 | 32.2 | 44.4 | 33.6 | 46.8 | 81.7 | 154.3 | 45.5 |
| 29 | 206.0 | 80.5 | 63.9 | 158.4 | 70.6 | 83.1 | 56.9 | 105.3 | 118.4 | 37.5 | 41.4 | 37.9 | 19.8 | 16.1 | 24.2 | 20.7 | 44.7 | 7.0 | 7.4 | 29.9 | 60.4 | 46.3 | 24.9 | 23.3 | 206.0 | 57.7 |
| 30 | 13.0 | 19.7 | 24.5 | 17.8 | 30.6 | 8.9 | 20.8 | 24.4 | 51.1 | 75.7 | 56.3 | 79.1 | 50.1 | 39.7 | 37.3 | 19.5 | 33.0 | 17.7 | 16.1 | 20.0 | 20.5 | 25.0 | 24.7 | 20.0 | 79.1 | 31.0 |
| 31 | 36.6 | 2.1 | 4.9 | 7.1 | 26.3 | 53.7 | 44.6 | 70.4 | 81.0 | 65.7 | 44.6 | 53.4 | 64.8 | 33.3 | 36.8 | 70.9 | 48.6 | 52.1 | 19.1 | 29.1 | 9.0 | 6.1 | 2.6 | 8.3 | 81.0 | 36.3 |
| Hourly Max | 206.0 | 190.1 | 176.6 | 310.0 | 162.9 | 119.5 | 445.9 | 155.5 | 246.8 | 283.2 | 440.2 | 506.1 | 353.9 | 321.6 | 348.0 | 292.2 | 194.0 | 180.3 | 166.8 | 140.5 | 135.3 | 206.2 | 212.5 | 104.9 | | |
| Hourly Average | 41.0 | 37.9 | 39.0 | 53.8 | 45.4 | 37.1 | 49.1 | 49.9 | 82.7 | 85.2 | 89.7 | 90.8 | 96.8 | 82.0 | 69.5 | 66.1 | 53.2 | 51.0 | 37.7 | 33.0 | 39.1 | 37.7 | 41.7 | 36.5 | | |

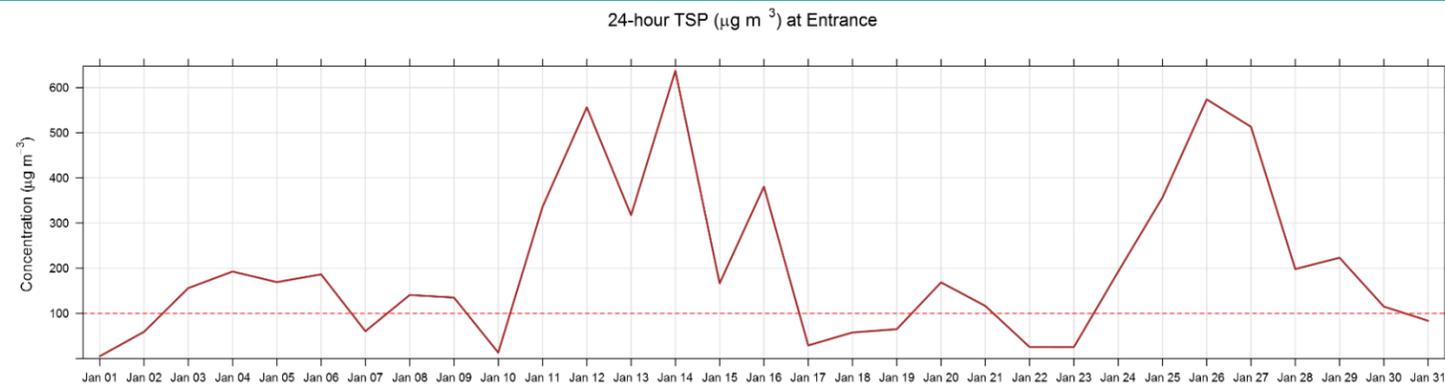
24-hour PM₁₀ (µg m⁻³) at Entrance



| | | | | |
|-----------------------------|-------|-----------|--------------------|------------|
| Number of 1HR Exceedances | n/a | Guideline | n/a | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 506.1 | UG/M3 | | |
| Maximum 24-HR Average | 156.1 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 64.1 | | Monthly Average | 56.1 UG/M3 |

Entrance TSP ($\mu\text{g}/\text{m}^3$) – January 2017

| Day/ Hour | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily Max | 24-hour Average |
|-------------------|-------|-------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|--------------------|
| 1 | 16.7 | 2.0 | 2.9 | 3.8 | 2.7 | 2.5 | 3.3 | 4.3 | 7.3 | 2.1 | 11.0 | 10.7 | 1.9 | 9.6 | 10.2 | 9.2 | 2.9 | 3.6 | 2.3 | 1.3 | 2.0 | 2.3 | 3.0 | 6.6 | 16.7 | 5.2 |
| 2 | 2.6 | 3.7 | 9.6 | 4.2 | 15.5 | 20.4 | 21.7 | 29.8 | 36.1 | 41.6 | 70.2 | 923.9 | 81.6 | 13.8 | 9.3 | 14.5 | 17.6 | 13.2 | 14.1 | 20.0 | 18.7 | 16.1 | 13.9 | 10.5 | 923.9 | 59.3 |
| 3 | 17.3 | 20.2 | 11.9 | 16.7 | 291.8 | 112.3 | 148.0 | 15.7 | 91.1 | 56.9 | 447.5 | 230.9 | 91.4 | 23.8 | 9.9 | 48.0 | 143.4 | 150.2 | 215.3 | 172.8 | 659.4 | 214.2 | 390.6 | 166.2 | 659.4 | 156.1 |
| 4 | 153.9 | 483.5 | 370.2 | 757.6 | 300.9 | 182.6 | 170.4 | 161.0 | 106.8 | 183.8 | 181.1 | 168.7 | 398.9 | 310.5 | 177.9 | 70.1 | 8.5 | 8.7 | 5.7 | 11.3 | 13.7 | 51.7 | 130.5 | 217.2 | 757.6 | 192.7 |
| 5 | 383.3 | 70.4 | 70.7 | 223.8 | 237.1 | 109.0 | 118.3 | 136.6 | 257.1 | 236.6 | 91.4 | 255.7 | 538.4 | 273.5 | 314.9 | 228.1 | 140.5 | 203.6 | 116.4 | 5.8 | 5.6 | 7.2 | 3.3 | 36.0 | 538.4 | 169.3 |
| 6 | 8.0 | 14.3 | 18.5 | 10.8 | 11.4 | 13.7 | 4.7 | 47.9 | 378.4 | 246.6 | 479.1 | 528.7 | 387.0 | 206.4 | 228.1 | 105.4 | 220.4 | 109.7 | 98.5 | 93.3 | 222.7 | 465.7 | 316.1 | 259.9 | 528.7 | 186.5 |
| 7 | 417.6 | 374.7 | 156.2 | 41.7 | 31.3 | 73.4 | 5.6 | 9.0 | 23.4 | 24.0 | 24.3 | 40.7 | 30.1 | 15.9 | 22.4 | 21.6 | 29.0 | 10.2 | 16.7 | 16.1 | 15.8 | 18.5 | 21.0 | 15.3 | 417.6 | 60.6 |
| 8 | 14.6 | 9.6 | 10.4 | 10.5 | 18.3 | 10.4 | 12.4 | 21.0 | 19.6 | 35.2 | 163.4 | 31.3 | 390.4 | 666.5 | 1261.5 | 378.5 | 186.7 | 16.0 | 12.3 | 12.8 | 10.8 | 9.8 | 32.1 | 45.4 | 1261.5 | 140.8 |
| 9 | 39.5 | 42.2 | 30.3 | 22.6 | 11.4 | 10.0 | 11.9 | 14.9 | 23.6 | 37.5 | 54.2 | 268.5 | 340.3 | 1426.9 | 181.4 | 222.7 | 86.2 | 267.1 | 45.7 | 26.3 | 17.0 | 20.8 | 20.8 | 20.9 | 1426.9 | 135.1 |
| 10 | 18.5 | 14.7 | 19.4 | 20.7 | 15.2 | 12.1 | 8.5 | 20.0 | 19.0 | 15.6 | 13.2 | 16.3 | 9.8 | 6.4 | 5.4 | 3.5 | 19.0 | 14.9 | 4.9 | 4.6 | 14.2 | 17.5 | 11.2 | 14.7 | 20.7 | 13.3 |
| 11 | 25.9 | 15.0 | 20.4 | 94.5 | 259.5 | 365.0 | 349.3 | 489.5 | 594.9 | 529.7 | 826.3 | 664.2 | 591.2 | 322.9 | 852.4 | 671.3 | 586.2 | 195.9 | 91.0 | 40.4 | 70.9 | 221.0 | 129.8 | 51.4 | 852.4 | 335.8 |
| 12 | 19.0 | 22.1 | 15.7 | 3.4 | 8.7 | 89.6 | 245.3 | 753.6 | 1174.7 | 1074.4 | 410.1 | 578.6 | 682.4 | 2060.4 | 1904.2 | 1940.6 | 882.9 | 371.4 | 228.4 | 265.1 | 125.1 | 69.0 | 169.1 | 258.5 | 2060.4 | 556.4 |
| 13 | 212.8 | 216.8 | 271.3 | 488.1 | 424.8 | 220.1 | 62.1 | 119.8 | 340.6 | 293.5 | 97.8 | 284.1 | 616.7 | 509.9 | 189.3 | 167.0 | 123.7 | 619.3 | 134.1 | 192.3 | 217.4 | 786.9 | 845.2 | 186.1 | 845.2 | 317.5 |
| 14 | 269.6 | 528.7 | 370.2 | 349.6 | 320.5 | 252.6 | 267.9 | 534.6 | 1058.2 | 1179.6 | 1620.9 | 2156.5 | 1313.3 | 377.5 | 302.6 | 566.4 | 527.4 | 573.5 | 330.2 | 551.2 | 537.3 | 300.9 | 506.3 | 497.0 | 2156.5 | 637.2 |
| 15 | 549.1 | 610.7 | 473.8 | 243.4 | 214.5 | 93.8 | 139.7 | 99.5 | 78.4 | 96.0 | 91.9 | 105.2 | 108.2 | 100.2 | 116.6 | 80.3 | 51.3 | 106.3 | 117.0 | 74.5 | 128.7 | 94.7 | 121.2 | 104.6 | 610.7 | 166.7 |
| 16 | 36.4 | 65.3 | 133.5 | 1368.5 | 499.4 | 192.2 | 1267.7 | 681.4 | 756.4 | 600.1 | 401.9 | 240.6 | 348.0 | 212.1 | 287.3 | 167.9 | 217.9 | 238.9 | 674.8 | 499.7 | 140.7 | 52.6 | 23.2 | 29.3 | 1368.5 | 380.7 |
| 17 | 62.4 | 28.3 | 11.5 | 4.8 | 11.3 | 14.7 | 18.4 | 51.9 | 19.2 | 57.2 | 52.8 | 57.1 | 50.6 | 29.8 | 20.9 | 13.9 | 2.2 | 2.3 | 1.0 | 5.4 | 17.4 | 50.2 | 61.3 | 53.7 | 62.4 | 29.1 |
| 18 | 37.8 | 14.2 | 21.9 | 13.5 | 4.3 | 8.1 | 33.1 | 79.2 | 80.8 | 90.2 | 157.3 | 221.8 | 180.3 | 110.6 | 119.0 | 52.3 | 37.1 | 33.6 | 9.3 | 21.7 | 21.8 | 19.6 | 14.7 | 6.1 | 221.8 | 57.8 |
| 19 | 17.7 | 3.4 | 7.3 | 16.3 | 41.2 | 34.3 | 17.9 | 37.2 | 112.2 | 49.1 | 38.3 | 218.2 | 224.2 | 268.4 | 92.5 | 88.9 | 70.7 | 60.2 | 19.3 | 27.7 | 29.6 | 57.1 | 15.4 | 15.6 | 268.4 | 65.1 |
| 20 | 13.5 | 12.5 | 23.7 | 83.1 | 56.3 | 221.7 | 414.5 | 271.2 | 235.6 | 218.1 | 356.1 | 144.1 | 186.5 | 324.3 | 210.7 | 215.5 | 83.3 | 153.5 | 126.8 | 234.1 | 82.8 | 55.3 | 151.4 | 173.9 | 414.5 | 168.7 |
| 21 | 112.2 | 112.7 | 128.7 | 266.0 | 276.4 | 301.9 | 159.8 | 25.5 | 14.5 | 36.5 | 133.2 | 247.0 | 139.8 | 191.5 | 105.5 | 153.6 | 81.7 | 102.0 | 15.2 | 9.0 | 122.9 | 24.5 | 18.6 | 17.9 | 301.9 | 116.5 |
| 22 | 11.6 | 9.1 | 67.9 | 12.9 | 19.6 | 8.4 | 20.7 | 16.1 | 26.2 | 22.4 | 26.6 | 12.3 | 55.7 | 46.2 | 172.3 | 7.0 | 6.0 | 8.7 | 10.6 | 11.6 | 11.0 | 11.1 | 10.6 | 10.2 | 172.3 | 25.6 |
| 23 | 9.8 | 9.0 | 8.8 | 7.3 | 8.7 | 11.6 | 10.2 | 18.5 | 36.0 | 32.3 | 24.6 | 15.4 | 17.2 | 26.2 | 62.3 | 127.5 | 118.0 | 12.1 | 5.6 | 6.4 | 8.3 | 9.1 | 15.2 | 11.1 | 127.5 | 25.5 |
| 24 | 13.0 | 11.8 | 10.4 | 24.7 | 76.6 | 118.6 | 98.2 | 174.0 | 75.2 | 257.6 | 177.3 | 425.2 | 480.4 | 290.9 | 217.1 | 519.2 | 235.4 | 381.2 | 170.7 | 187.4 | 103.8 | 214.8 | 265.9 | 86.6 | 519.2 | 192.3 |
| 25 | 155.2 | 132.1 | 313.1 | 403.7 | 506.7 | 505.2 | 676.9 | 441.3 | 548.9 | 636.5 | 717.9 | 587.9 | 458.8 | 327.2 | 266.2 | 146.3 | 151.7 | 125.1 | 78.4 | 133.6 | 227.5 | 338.5 | 364.3 | 313.3 | 717.9 | 356.5 |
| 26 | 187.7 | 337.3 | 354.7 | 318.7 | 447.5 | 281.8 | 216.1 | 332.0 | 955.8 | 1199.6 | 1070.6 | 790.7 | 1235.9 | 1122.0 | 627.8 | 787.7 | 551.6 | 242.0 | 670.4 | 414.2 | 635.1 | 414.5 | 324.8 | 253.8 | 1235.9 | 573.8 |
| 27 | 420.0 | 334.6 | 876.5 | 570.0 | 583.1 | 392.6 | 379.3 | 644.3 | 1226.3 | 1295.3 | 2144.1 | 500.7 | 201.3 | 167.4 | 139.9 | 165.0 | 60.6 | 194.7 | 385.4 | 219.9 | 521.8 | 96.9 | 239.2 | 555.6 | 2144.1 | 513.1 |
| 28 | 173.8 | 90.1 | 65.2 | 34.7 | 98.4 | 100.9 | 81.9 | 50.7 | 81.5 | 305.6 | 287.1 | 308.3 | 636.6 | 270.4 | 85.0 | 27.0 | 108.2 | 466.2 | 346.8 | 156.6 | 226.7 | 174.3 | 229.6 | 350.4 | 636.6 | 198.2 |
| 29 | 718.0 | 355.8 | 313.7 | 528.2 | 332.2 | 352.4 | 253.0 | 468.2 | 489.4 | 170.0 | 181.1 | 177.7 | 41.4 | 29.3 | 39.2 | 52.0 | 152.2 | 20.4 | 12.2 | 103.4 | 239.0 | 198.3 | 75.5 | 55.5 | 718.0 | 223.2 |
| 30 | 58.0 | 83.4 | 139.6 | 81.1 | 143.3 | 34.2 | 45.7 | 68.6 | 153.4 | 233.7 | 208.2 | 385.3 | 228.0 | 180.0 | 149.9 | 76.5 | 109.9 | 59.6 | 65.2 | 49.0 | 39.4 | 78.8 | 48.1 | 45.2 | 385.3 | 115.2 |
| 31 | 78.9 | 6.7 | 7.6 | 11.7 | 77.0 | 114.3 | 86.8 | 129.6 | 145.1 | 131.4 | 85.7 | 105.7 | 133.0 | 82.7 | 82.9 | 225.0 | 106.3 | 129.5 | 75.1 | 116.2 | 22.7 | 25.8 | 3.1 | 27.5 | 225.0 | 83.8 |
| Hourly Max | 718.0 | 610.7 | 876.5 | 1368.5 | 583.1 | 505.2 | 1267.7 | 753.6 | 1226.3 | 1295.3 | 2144.1 | 2156.5 | 1313.3 | 2060.4 | 1904.2 | 1940.6 | 882.9 | 619.3 | 674.8 | 551.2 | 659.4 | 786.9 | 845.2 | 555.6 | | |
| Hourly Average | 137.2 | 130.1 | 139.8 | 194.7 | 172.4 | 137.4 | 172.6 | 191.8 | 295.7 | 302.9 | 343.4 | 345.2 | 329.0 | 322.7 | 266.6 | 237.2 | 165.1 | 157.9 | 132.2 | 118.8 | 145.5 | 132.8 | 147.6 | 125.7 | | |



| | | | | |
|-----------------------------|--------|-----------|--------------------|-------------|
| Number of 24HR Exceedances | 21 | Guideline | 100 | UG/M3 |
| Number of Non-Zero Readings | 744 | | | |
| Maximum 1-HR Average | 2156.5 | UG/M3 | | |
| Maximum 24-HR Average | 637.2 | UG/M3 | | |
| IZS Calibration Time | 0 | HRS | Operational Time | 744 HRS |
| Monthly Calibration Time | 0 | HRS | Operational Uptime | 100.0 % |
| Standard Deviation | 289.3 | | Monthly Average | 201.9 UG/M3 |

MetOne BAM PM_{2.5} Calibration



STATION: Lafarge
 LOCATION: Exshaw - Lagoon
 START TIME (MST): 11:00

OPERATOR: Lenin Flores/ Gagandeep Singh
 DATE: January 31, 2017
 END TIME (MST): 13:30

MONITOR INFO / PARAMETER VALUES:

| | | | |
|---------------|-------------|--------------------|-----------|
| Make/Model | Met One BAM | Audit Device Model | Delta Cal |
| Configuration | PM2.5 | Audit Device S/N | 624 |
| Serial Number | T19087 | Certification Date | 02-Dec-16 |

AUDIT / CALIBRATION RESULTS:

| | Ambient Temp. (°C) | Ambient Pres. (mmHg) | Leak Check (L/min) | Flow Rate (lpm) | Time settings (hh:mm) |
|---|-----------------------|-------------------------|-----------------------|--------------------|--------------------------|
| Audit values (I) | -8.8 | 651 | 0.00 | 16.7 | 12:07 |
| <i>As Found Data</i> MEASURED (AF) | -9.5 | 654 | 0.50 | 17.30 | 12:06 |
| AF Difference (AF-I) | -0.7 | 3 | 0.50 | 0.60 | 0:01 |
| <i>Adjusted Data</i> MEASURED (M) | -8.8 | 651 | 0.50 | 16.88 | 12:07 |
| Adj Difference (M-I) | 0.0 | 0 | 0.50 | 0.18 | 0:00 |
| <i>LIMITS</i> | ± 4.0 °C | 5 mm Hg | 1.0 L/min | ± 1.0 L/min | ±2 min |

Sample Head Inspect/Cleaning: Sample head cleaned.

Status of sampling tape: New tape installed

Nozzle Inspection / cleanliness: Inspected, cleaned.

COMMENTS:

Performed self test - all passed. Performed leak check and full flow calibration



AIR QUALITY MONITORING

MetOne BAM PM₁₀ Calibration

STATION: Lafarge
LOCATION: Exshaw - Lagoon
START TIME (MST): 11:00

OPERATOR: Lenin Flores/ Gagandeep Singh
DATE: January 31, 2017
END TIME (MST): 13:30

MONITOR INFO / PARAMETER VALUES:

| | | | |
|---------------|-------------------|--------------------|------------------|
| Make/Model | <u>MetOne BAM</u> | Audit Device Model | <u>Delta Cal</u> |
| Configuration | <u>PM10</u> | Audit Device S/N | <u>624</u> |
| Serial Number | <u>A 3315</u> | Certification Date | <u>02-Dec-16</u> |

AUDIT / CALIBRATION RESULTS:

| | Ambient Temp. (°C) | Ambient Pres. (mmHg) | Leak Check (L/min) | Flow Rate (lpm) | Time settings (hh:mm) |
|---|-----------------------|-------------------------|-----------------------|--------------------|--------------------------|
| Audit values (I) | -8.8 | 651 | 0.00 | 16.7 | 12:09 |
| <i>As Found Data</i> MEASURED (AF) | -9.5 | 654 | 0.50 | 16.08 | 12:08 |
| AF Difference (AF-I) | -0.7 | 3 | 0.50 | -0.62 | 0:01 |
| <i>Adjusted Data</i> MEASURED (M) | -8.8 | 651 | 0.50 | 16.68 | 12:09 |
| Adj Difference (M-I) | 0.0 | 0 | 0.50 | -0.02 | 0:00 |
| <i>LIMITS</i> | ± 4.0 °C | 5 mm Hg | 1.0 L/min | ± 1.0 L/min | ±2 min |

Sample Head Inspect/Cleaning: Sample head cleaned.

Status of sampling tape: New Tape installed

Nozzle Inspection / cleanliness: Cleaned.

COMMENTS:

Performed self test - all passed. Performed leak check and full flow calibration

MetOne BAM TSP Calibration



STATION: Lafarge
 LOCATION: Exshaw
 START TIME (MST): 11:00

OPERATOR: Lenin Flores/Gagandeep Singh
 DATE: January 31, 2017
 END TIME (MST): 13:30

MONITOR INFO / PARAMETER VALUES:

| | | | |
|---------------|------------|--------------------|-----------|
| Make/Model | MetOne BAM | Audit Device Model | Delta Cal |
| Configuration | TSP | Audit Device S/N | 624 |
| Serial Number | A 3589 | Certification Date | 02-Dec-16 |

AUDIT / CALIBRATION RESULTS:

| | Ambient Temp. (°C) | Ambient Pres. (mmHg) | Leak Check (L/min) | Flow Rate (lpm) | Time settings (hh:mm) |
|---|-----------------------|-------------------------|-----------------------|--------------------|--------------------------|
| Audit values (I) | -9.1 | 651 | 0.00 | 16.7 | 12:12 |
| <i>As Found Data</i> MEASURED (AF) | -9.3 | 652 | 0.60 | 16.40 | 12:11 |
| AF Difference (AF-I) | -0.2 | 1 | 0.60 | -0.30 | 0:01 |
| <i>Adjusted Data</i> MEASURED (M) | -9.1 | 651 | 0.60 | 16.67 | 12:12 |
| Adj Difference (M-I) | 0.0 | 0 | 0.60 | -0.03 | 0:00 |
| <i>LIMITS</i> | ± 4.0 °C | 5 mm Hg | 1.0 L/min | ± 1.0 L/min | ±2 min |

Sample Head Inspect/Cleaning: Sample head cleaned.

Status of sampling tape: New Tape installed

Nozzle Inspection / cleanliness: Cleaned

COMMENTS:

Performed self test, all passed. Performed leak check and full flow calibration

Calibration Report

Parameter **NO_x-NO-NO₂**
 Air Monitoring Network **Lafarge - Exshaw**



Station Information

| | | | |
|---------------------|------------------|----------------------|------------------|
| Calibration Date | January 20, 2017 | Previous Calibration | December 7, 2016 |
| Station Number | N/A | Station Location | Exshaw - Lagoon |
| Reason: | Routine | Installation | Removal |
| Start Time (MST) | 10:50 | End Time (MST) | 15:05 |
| Barometric Pressure | 637 mmHg | Station Temperature | 20.0 Deg C |
| Calibrator | SABIO 2010 | Serial Number | 9700712 |
| NO Cal Gas Conc | 51.2 ppm | Cal Gas Expiry Date | July 26, 2019 |
| NOx Cal Gas Conc | 51.3 ppm | Cal Gas Serial # | EY667 |

DACS Information

DACS make Campbell Scientific CR1000 DACS serial No. 67802

| Parameter | | NO2 | NOx | NO |
|---------------|-------------|-----------|-----------|-----------|
| Before | Data Slope | 0.993897 | 1.000743 | 1.002495 |
| | Data Offset | -0.608332 | 2.866037 | 2.826044 |
| After | Data Slope | 0.999519 | 1.002544 | 1.001667 |
| | Data Offset | -0.237108 | 2.018737 | 1.969289 |
| Channel # | | 3 | 1 | 2 |
| Voltage Range | | 0 - 5 VDC | 0 - 5 VDC | 0 - 5 VDC |

Analyzer Information

Analyzer make/model TECO 42C Analyzer serial # 64179-342

| Test Point | before | | after | |
|---------------------|---------|-------|---------|-------|
| Concentration range | 0 - 500 | ppb | 0 - 500 | ppb |
| NOX COEF | 0.992 | | 0.999 | |
| NOX BKG | 1.0 | | 1.0 | |
| NO COEF | 0.871 | | 0.892 | |
| NO BKG | 0.8 | | 0.8 | |
| Cooler Temp | -4.6 | Deg C | -3.9 | Deg C |
| Converter Temp | 320.0 | Deg C | 319.0 | Deg C |
| Pressure | 154.6 | mmHg | 149.1 | mmHg |
| Sample Flow | 0.627 | LPM | 0.596 | LPM |
| Ozonator Flow | 0.075 | LPM | 0.072 | LPM |

Notes: Span adjustment.

Calibration Report



Parameter **NOx-NO-NO₂**
 Air Monitoring Network **Lafarge - Exshaw**

Station Information

Calibration Date: **January 20, 2017** Station Location: **Exshaw - Lagoon**

Calibration Data

| | Dilution flow rate (ccm) | Source gas flow rate (ccm) | Calculated NOx conc (ppb) | Calculated NO conc (ppb) | Calculated NO2 conc (ppb) | Indicated NOx conc (ppb) | Indicated NO conc (ppb) | Indicated NO2 conc (ppb) | NOx Correction factor | NO Correction factor |
|------|--------------------------|----------------------------|---------------------------|--------------------------|---------------------------|--------------------------|-------------------------|---------------------------|-----------------------|----------------------|
| zero | 5000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A | N/A |
| 1 | 5000 | 40.00 | 407.1 | 406.3 | 0.8 | 405.6 | 405.1 | 0.4 | 1.0039 | 1.0031 |
| 2 | 5000 | 25.00 | 255.2 | 254.7 | 0.5 | 250.9 | 250.8 | 0.0 | 1.0171 | 1.0155 |
| 3 | 7000 | 14.00 | 102.4 | 102.2 | 0.2 | 98.3 | 98.2 | 0.0 | 1.0418 | 1.0403 |
| AFZ | 5000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0000 | 0.0000 |
| AFS | 5000 | 40.00 | 407.1 | 406.3 | 0.8 | 385.5 | 387.0 | -1.6 | 1.0560 | 1.0500 |
| | | | | | | | | Average Correction Factor | 1.0209 | 1.0196 |

As Found Concentrations: **NO_x= 388.4** **NO= 389.8** As Found Percent Change **NO_x= -4.6%** **NO= -4.1%**

GPT Calibration Data

Dilution Flow 5000 ccm Source Gas Flow 40.00 ccm

| O3 Setpoint (V) | Indicated NO high point (ppb) | Indicated NO drop conc (ppb) | Calculated NO2 conc (ppb) | Indicated NOx conc (ppb) | Indicated NO conc (ppb) | Indicated NO2 conc (ppb) | NOx Correction factor | NO Correction factor | NO2 Correction factor | Converter Efficiency | |
|-----------------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|--------------------------|---------------------------|----------------------|-----------------------|----------------------|--------|
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A | N/A | N/A | N/A | |
| NO point | 398.0 | 398.0 | 0.0 | 397.4 | 398.0 | -0.6 | 1.0017 | 1.0000 | N/A | N/A | |
| 0.86V | 398.0 | 63.8 | 334.2 | 397.9 | 63.8 | 334.5 | 1.0003 | 1.0000 | 0.9992 | 100.1% | |
| 0.53V | 398.0 | 215.8 | 182.3 | 398.3 | 215.8 | 182.6 | 0.9994 | 1.0000 | 0.9980 | 100.2% | |
| 0.35V | 398.0 | 300.3 | 97.7 | 398.6 | 300.3 | 98.3 | 0.9986 | 1.0000 | 0.9940 | 100.6% | |
| | | | | | | | Average Correction Factor | 0.9994 | 1.0000 | 0.9970 | 100.3% |

AIC Data

| Parameter | Previous calibration | | | | Current calibration | | | |
|-----------|----------------------|-----|-------|-----|---------------------|------|-------|-----|
| | NOx | NO2 | NO | | NOx | NO2 | NO | |
| Auto zero | -0.5 | 1.5 | 0.0 | ppb | 2.0 | -0.2 | 2.1 | ppb |
| Auto span | 393.8 | 0.0 | 392.6 | ppb | 396.4 | 1.4 | 394.2 | ppb |

Calibration Performed By: Lenin Flores

Calibration Summary

Parameter NO₂
 Air Monitoring Network Lafarge - Exshaw



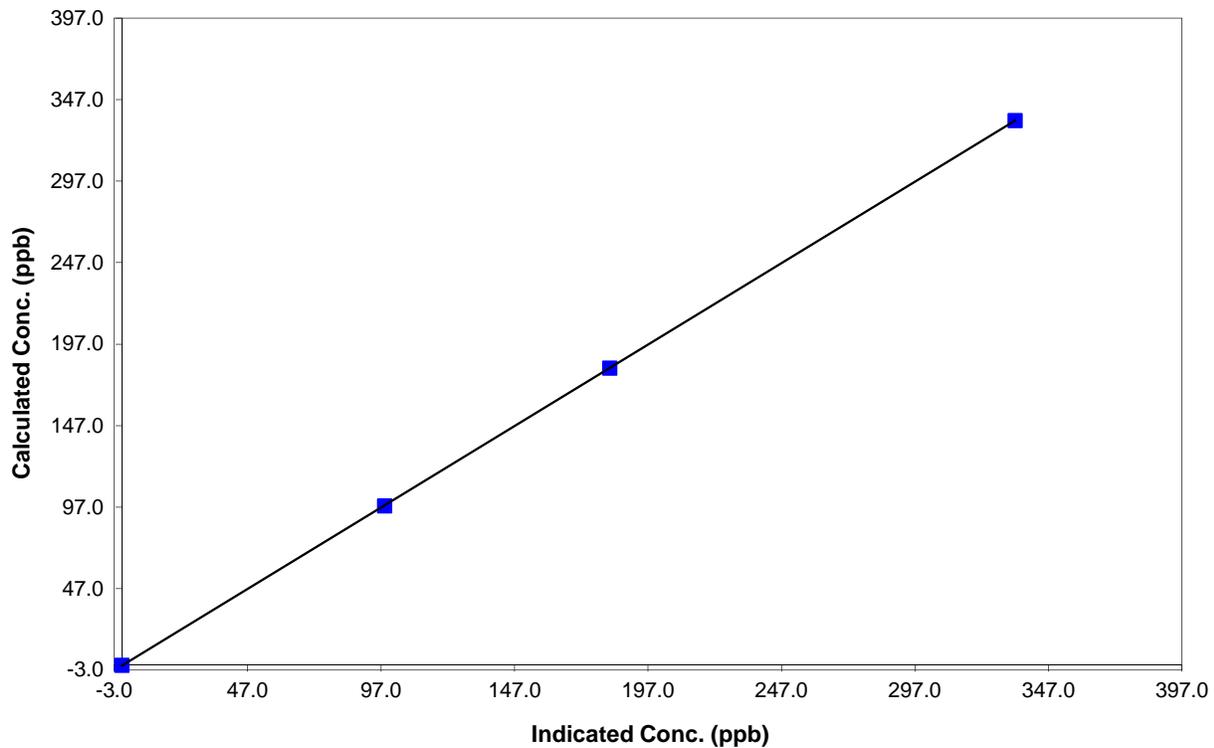
Station Information

| | | | |
|------------------|------------------|----------------------|------------------|
| Calibration Date | January 20, 2017 | Previous Calibration | December 7, 2016 |
| Station Number | N/A | Station Location | Exshaw - Lagoon |
| Start Time (MST) | 10:50 | End Time (MST) | 15:05 |
| Analyzer make | TECO 42C | Analyzer serial # | 64179-342 |

Calibration Data

| Calculated conc (ppb) (Cc) | Indicated concentration (ppb) (Ic) | Correction factor (Cc/Ic) | Statistical Evaluation | |
|----------------------------|------------------------------------|---------------------------|-------------------------|-----------|
| 0.0 | 0.0 | N/A | | |
| 334.2 | 334.5 | 0.9992 | Correlation Coefficient | 0.999997 |
| 182.3 | 182.6 | 0.9980 | | |
| 97.7 | 98.3 | 0.9940 | | |
| | | | Slope | 0.999519 |
| | | | Intercept | -0.237108 |

NO₂ Calibration Curve



Calibration Summary



Parameter NO_x
 Air Monitoring Network Lafarge - Exshaw

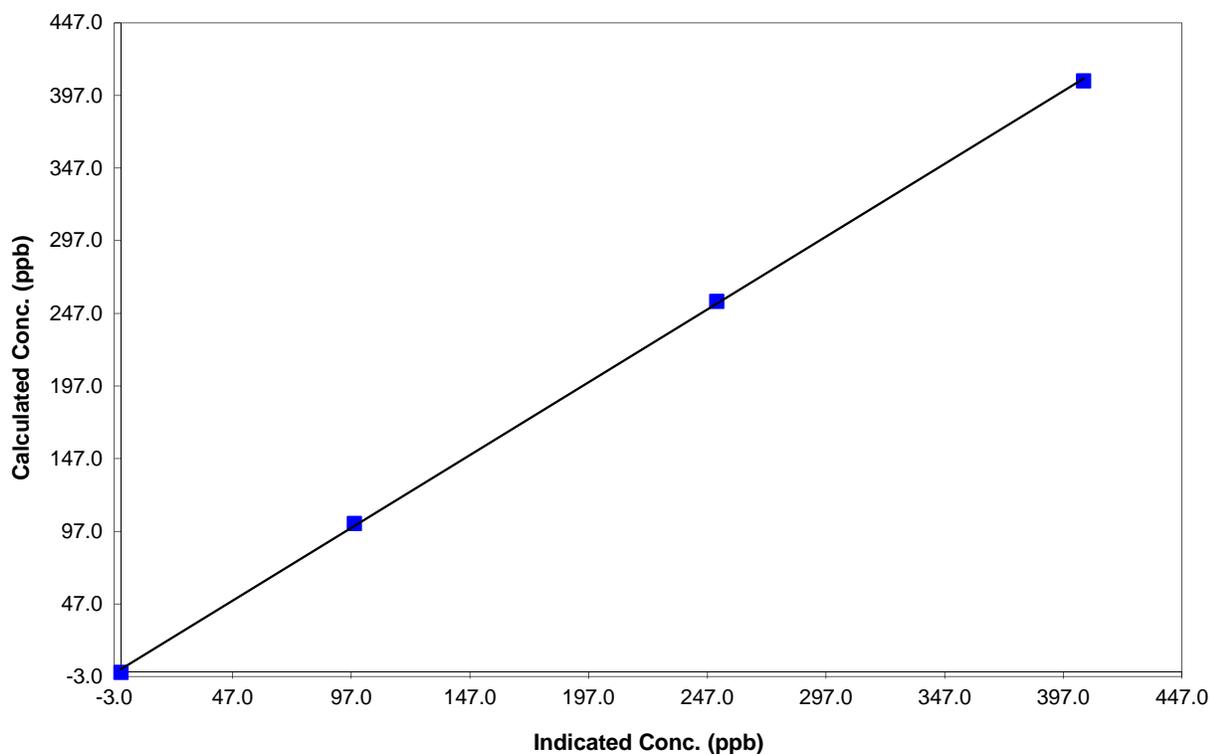
Station Information

| | | | |
|------------------|------------------|----------------------|------------------|
| Calibration Date | January 20, 2017 | Previous Calibration | December 7, 2016 |
| Station Number | N/A | Station Location | Exshaw - Lagoon |
| Start Time (MST) | 10:50 | End Time (MST) | 15:05 |
| Analyzer make | TECO 42C | Analyzer serial # | 64179-342 |

Calibration Data

| Calculated conc (ppb) (Cc) | Indicated concentration (ppb) (Ic) | Correction factor (Cc/Ic) | Statistical Evaluation | |
|----------------------------|------------------------------------|---------------------------|-------------------------|----------|
| 0.0 | 0.0 | N/A | | |
| 407.1 | 405.6 | 1.0039 | Correlation Coefficient | 0.999871 |
| 255.2 | 250.9 | 1.0171 | | |
| 102.4 | 98.3 | 1.0418 | | |
| | | | Slope | 1.002544 |
| | | | Intercept | 2.018737 |

NO_x Calibration Curve



Calibration Summary



AIR QUALITY MONITORING

Parameter NO
 Air Monitoring Network Lafarge - Exshaw

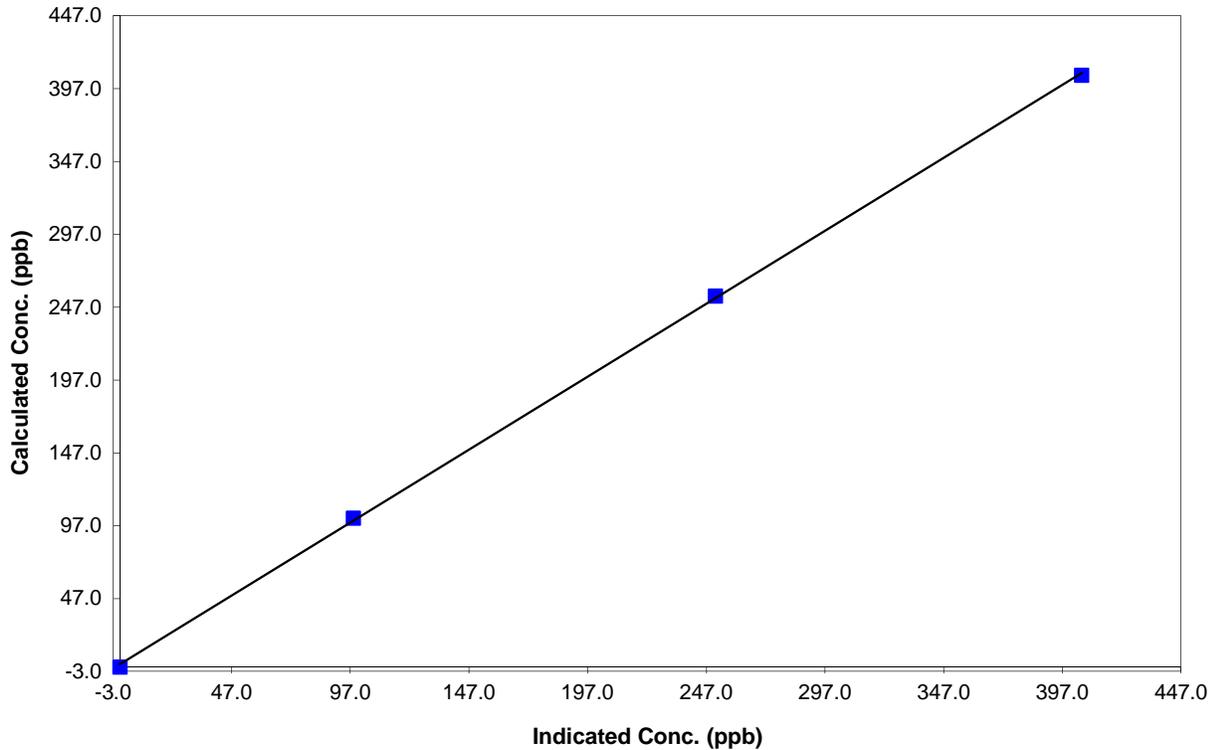
Station Information

| | | | |
|------------------|------------------|----------------------|------------------|
| Calibration Date | January 20, 2017 | Previous Calibration | December 7, 2016 |
| Station Number | N/A | Station Location | Exshaw - Lagoon |
| Start Time (MST) | 10:50 | End Time (MST) | 15:05 |
| Analyzer make | TECO 42C | Analyzer serial # | 64179-342 |

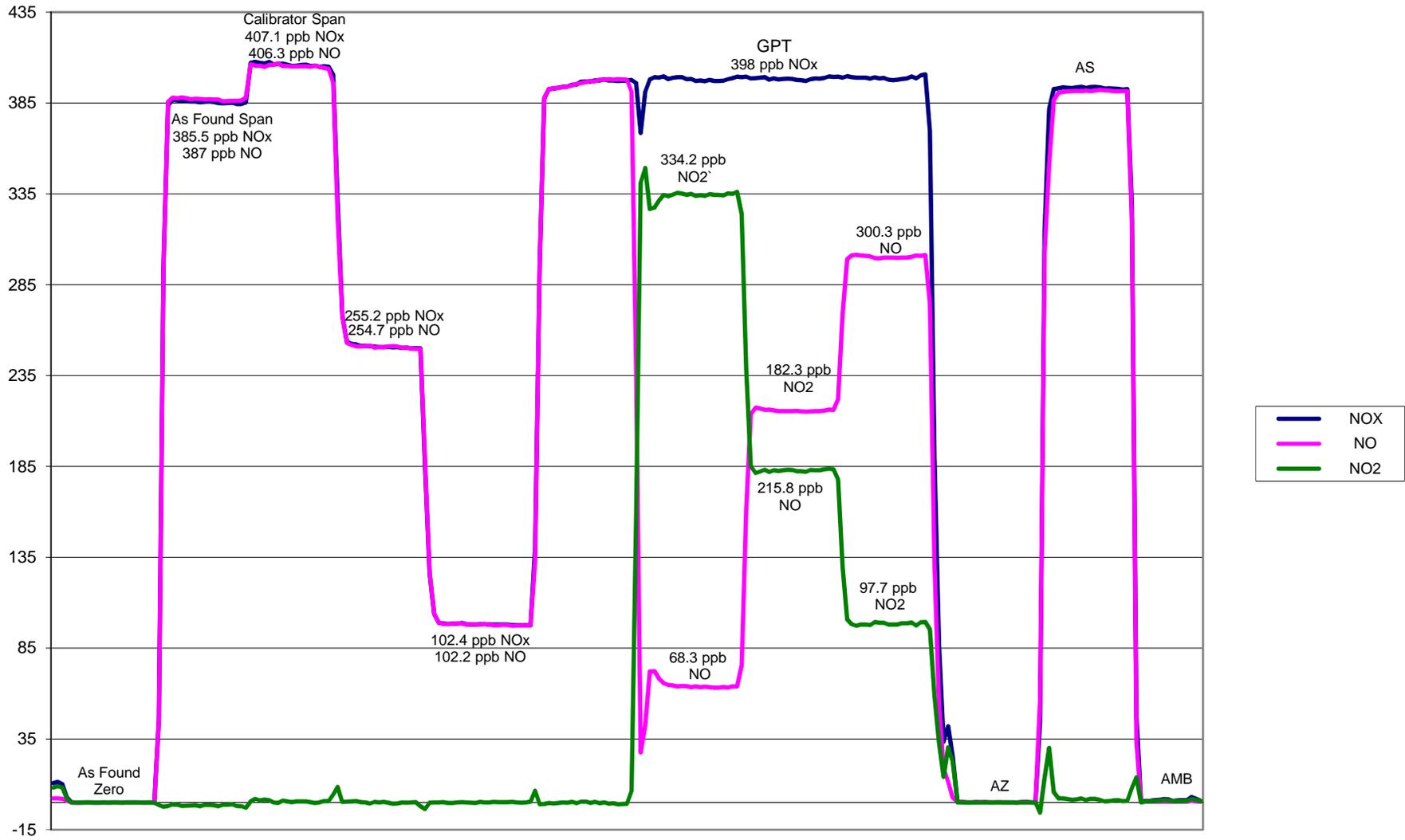
Calibration Data

| Calculated conc (ppb) (Cc) | Indicated concentration (ppb) (Ic) | Correction factor (Cc/Ic) | Statistical Evaluation | |
|----------------------------|------------------------------------|---------------------------|-------------------------|----------|
| 0.0 | 0.0 | N/A | | |
| 406.3 | 405.1 | 1.0031 | Correlation Coefficient | 0.999881 |
| 254.7 | 250.8 | 1.0155 | | |
| 102.2 | 98.2 | 1.0403 | | |
| | | | Slope | 1.001667 |
| | | | Intercept | 1.969289 |

NO Calibration Curve



NOX Calibration



Calibration Report



Parameter SO2
 Air Monitoring Network Lafarge - Exshaw

Station Information

| | | | |
|-----------------------|----------------------------|----------------------|------------------|
| Calibration Date | January 20, 2017 | Previous Calibration | December 7, 2016 |
| Station Number | N/A | Station Location | Exshaw - Lagoon |
| Reason: | Routine | Install | Removal |
| | | Other: | |
| Start Time (MST) | 11:20 | End Time (MST) | 14:00 |
| Barometric Pressure | 637 mmHg | Station Temperature | 20.0 Deg C |
| Calibrator | SABIO 2010 | Serial Number | 9700712 |
| Cal Gas Concentration | 49.8 ppm | Cal Gas Expiry Date | 7/14/2020 |
| Gas Cert Reference | EY643 | | |
| DACS make | Campbell Scientific CR1000 | DACS serial No. | 67802 |
| DACS voltage range | 0 - 5 VDC | DACS channel # | 4 |
| | Before | | After |
| DACS Scale High | 500 | DACS slope | 500 |
| DACS Scale Low | 0 | DACS intercept | 0 |
| Calculated slope | 0.995006 | Calculated slope | 0.986166 |
| Calculated intercept | 1.497047 | Calculated intercept | 1.573114 |
| Analyzer make | API Model 102A | Analyzer serial # | 393 |

| | before | | after | |
|---------------------|--------|-------|-------|-------|
| Concentration range | 0-500 | ppb | 0-500 | ppb |
| Slope | 0.965 | | 0.976 | |
| Offset | 47.7 | mV | 47.7 | mV |
| Pressure | 23.9 | in Hg | 23.1 | in Hg |
| Sample Flow | 496 | ccm | 450 | ccm |
| UV Lamp | 3118.2 | mV | 3047 | mV |
| Lamp Ratio | 115.2 | % | 112.8 | % |
| PMT Temp | 7.4 | degC | 7.5 | degC |

Calibration Data

| Dilution air flow rate (cc/min) | Source gas flow rate (cc/min) | Calculated concentration (ppm) (Cc) | Indicated concentration (ppm) (Ic) | Correction factor (Cc/Ic) |
|---------------------------------|-------------------------------|-------------------------------------|------------------------------------|---------------------------|
| 5000 | 0.00 | 0.0 | -1.0 | N/A |
| 5000 | 40.00 | 395.2 | 399.3 | 0.9898 |
| 5000 | 25.00 | 247.8 | 249.8 | 0.9918 |
| 7000 | 14.00 | 99.4 | 98.3 | 1.0115 |
| 5000 | 0.00 | 0.0 | -1.0 | As found zero |
| 5000 | 40.00 | 395.2 | 399.3 | As found span |
| Average Correction Factor | | | | 0.9977 |

Calculated value of As Found Response: 399.8 ppm Percent Change of As Found: -1.1%

| | before calibration | | after calibration | |
|-----------|--------------------|-----|-------------------|-----|
| Auto zero | -0.9 | ppm | -0.4 | ppm |
| Auto span | 381.1 | ppm | 388.2 | ppm |

Notes: No adjustments made.

Calibration Performed By: Lenin Flores

Calibration Summary



Parameter SO2
 Air Monitoring Network Lafarge - Exshaw

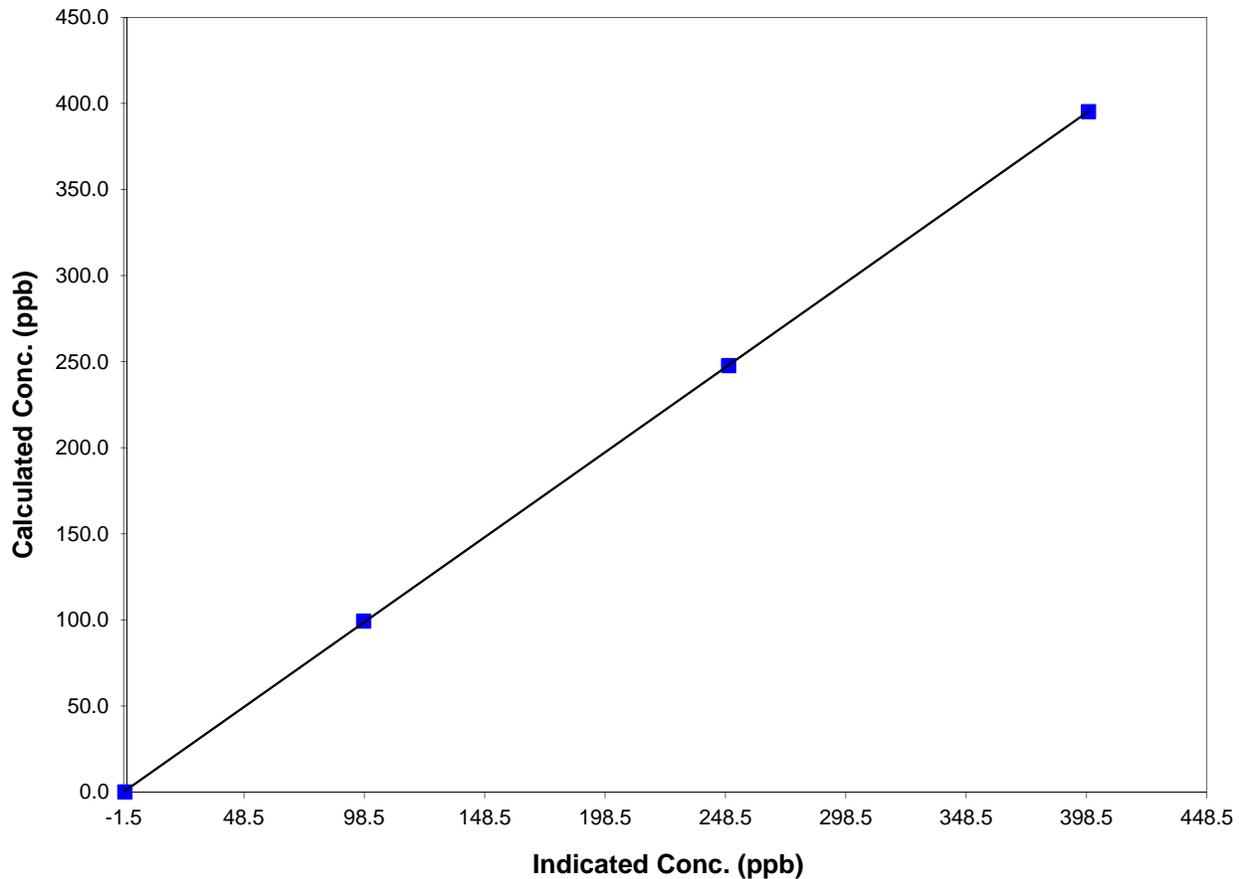
Station Information

| | | | |
|---------------------|------------------|----------------------|------------------|
| Calibration Date | January 20, 2017 | Previous Calibration | December 7, 2016 |
| Station Number | N/A | Station Location | Exshaw - Lagoon |
| Start Time (MST) | 11:20 | End Time (MST) | 14:00 |
| Analyzer make/model | API Model 102A | Analyzer serial # | 393 |

Calibration Data

| Calculated concentration (ppb) (Cc) | Indicated concentration (ppb) (Ic) | Correction factor (Cc/Ic) | Statistical Evaluation | |
|-------------------------------------|------------------------------------|---------------------------|-------------------------|----------|
| 0.0 | -1.0 | N/A | | |
| 395.2 | 399.3 | 0.9898 | Correlation Coefficient | 0.999986 |
| 247.8 | 249.8 | 0.9918 | | |
| 99.4 | 98.3 | 1.0115 | Slope | 0.986166 |
| | | | Intercept | 1.573114 |

SO2 Calibration Curve



SO2 Calibration

