

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

AUGUST 2022

SEPTEMBER 27, 2022





AMBIENT AIR QUALITY MONTHLY REPORT

AUGUST 2022

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: SEPTEMBER 27, 2022

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September 27, 2022

LAFARGE CANADA INC.
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Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – August 2022

The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Lagoon Station for August 2022.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	100%	-	0
PM _{2.5}	99.9%	0	0
PM ₁₀	99.9%	-	-
NO	100%	-	-
NO ₂	100%	0	-
NO _x	100%	-	-
SO ₂	100%	0	0
Temperature	100%	-	-
Wind Speed / Direction	100%	-	-
Pressure	100%	-	-
Relative Humidity	100%	-	-
Precipitation	100%	-	-

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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Windridge Station for August 2022.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	100%	-	-	7
PM_{2.5}	100%	1	0	-
PM₁₀	100%	-	-	-

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; the GRIMM monitors are not Air Monitoring Directive (AMD) compliant. This Program uses the AAAQOs as Guidelines. The following table summarizes the data completeness and exceedances of the Guidelines at the GRIMM Monitors for August 2022.

GRIMM Stations	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of PM _{2.5} Guidelines	Exceedances of PM _{2.5} Guidelines	Exceedances of TSP Guidelines
West	30.1%	0	0	0
Berm	99.7%	2	0	14
Entrance	34%	0	0	8

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,



Rowena Seto, B.Sc.
Air Quality Specialist
Environment

SIGNATURES

PREPARED BY



September 27, 2022

Dylan Weyell, B.A.
Junior Air Quality Specialist, Environment

Date

APPROVED¹ BY *(must be reviewed for technical accuracy prior to approval)*



September 27, 2022

Rowena Seto, B.Sc.
Air Quality Specialist, Environment

Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and are a requirement of Lafarge's Approval 1702-02-04. This report contains data collected between August 1, 2022 and August 31, 2022.

This monthly report was prepared by Dylan Weyell, Junior Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Rowena Seto, Air Quality Specialist at WSP.

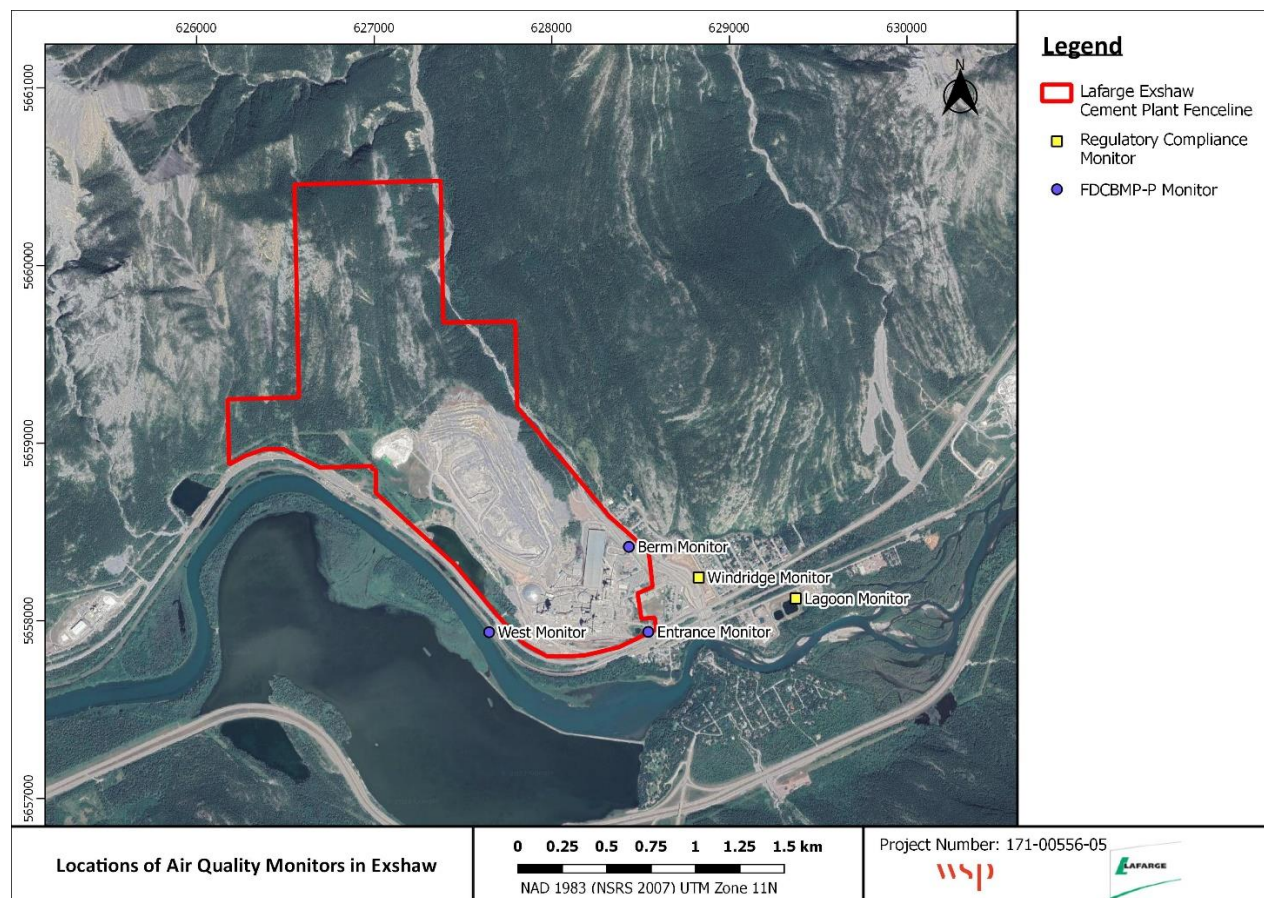


Figure 1-1 Locations of Air Quality Monitors in Exshaw

1.1 EXSHAW CREEK FLOOD MITIGATION

Due to flood mitigation construction at Exshaw creek (Figure 1-2), the Windridge monitoring station was taken out of operation and removed from the site on April 8, 2019. The flood mitigation work was completed in Summer 2020. The Windridge station was reinstalled on September 1, 2020 and is included in this report. The flood mitigation work has left an exposed creek bed area (see Figure below) that is a potential source of fugitive dust between Lafarge's eastern fenceline and the Windridge station.



Figure 1-2 Photo of Completed Flood Mitigation Work at Exshaw Creek

2 AUGUST 2022 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 each station 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. The exceedances reported for 1-hour PM_{2.5} are those above the 1-hour PM_{2.5} Alberta Ambient Air Quality Guidelines (AAAQG).

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	31.8	0	13.4	-
SO ₂ (ppb)	100.0	11.9	0	2.9	0
PM _{2.5} (µg/m ³)	99.9	35.1	0 ¹	17.8	0
PM ₁₀ (µg/m ³)	99.9	329.9	-	48.3	-
TSP (µg/m ³)	100.0	678.9	-	88.9	0
Temperature (°C)	100.0	32.2	-	23.4	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	35.3/W	-	20.5/WSW	-
Precipitation (mm)	100.0	4 ²	-	24.8 ³	-

¹ Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

² Maximum Daily Total Accumulation of Precipitation (mm)

³ Monthly Total Accumulation of Precipitation (mm)

Data Quality Notes:

- There were zero days exceeding the 24-hour PM_{2.5} AAAQO.
- There were zero exceedances of the 1-hour PM_{2.5} AAAQG.
- There were zero days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station the SO₂, NO₂, TSP analyzers and meteorological sensors recorded 100% uptime for the month of August.
- The PM₁₀ and PM_{2.5} analyzers recorded 99.9% uptime for the month of August due to one hour of equipment malfunction occurring on August 3rd at 2:00.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
PM _{2.5} (µg/m ³)	100.0	99.0	1*	19.0	0
PM ₁₀ (µg/m ³)	100.0	466.0	-	87.2	-
TSP (µg/m ³)	100.0	899.0	-	154.7	7

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

Data Quality Notes:

- There were zero days exceeding the 24-hour PM_{2.5} AAAQO.
- There was one hour exceeding the 1-hour PM_{2.5} AAAQG.
- There was 7 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The PM_{2.5}, PM₁₀, and TSP monitors recorded 100% uptime during the month of August.

2.3 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; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

Table 2-3 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)	30.1	20.3	0*	9.5	0
PM ₁₀ (µg/m ³)	30.1	27.3	-	14.0	-
TSP (µg/m ³)	30.1	31.7	-	15.7	0

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

Data Quality Notes:

- There were zero exceedances of the 24-hour PM_{2.5} Guidelines.
- There were zero exceedances of the 1-hour PM_{2.5} Guidelines.
- There were zero exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 30.1% uptime for the month of August due to 520 hours of communication error occurring from August 10th at 9:00 to August 31st at 24:00.

2.4 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; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

Table 2-4 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)	99.7	89.5	2*	22.5	0
PM ₁₀ (µg/m ³)	99.7	568.0	-	137.5	-
TSP (µg/m ³)	99.7	1215.0	-	336.8	14

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

Data Quality Notes:

- There were zero exceedances of the 24-hour PM_{2.5} Guidelines.
- There was two exceedances of the 1-hour PM_{2.5} Guidelines.

- There were 14 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 99.7% uptime for the month of August due to two hours of power failure occurring on August 2nd at 13:00 & August 17th at 10:00.

2.5 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; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

Table 2-5 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)	34.0	45.1	0*	25.5	0
PM ₁₀ (µg/m ³)	34.0	310.8	-	150.1	-
TSP (µg/m ³)	34.0	805.9	-	307.9	8

* Any exceedances reported for 1-hour PM_{2.5} are over the guideline level (AAAQG) of 80 µg/m³.

Data Quality Notes:

- There were zero exceedances of the 24-hour PM_{2.5} Guidelines.
- There were zero exceedances of the 1-hour PM_{2.5} Guidelines.
- There were 8 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 34% uptime for the month of August due to 491 hours of equipment malfunction that occurred from August 10th at 9:00 to August 30th at 19:00.

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), a data summary table (Table 3-2), site visit notes, a wind rose (Figure 3-9) and tables and graphs illustrating the monitoring results for August 2022.

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

3.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 3-1.

Table 3-1 Instrumentation List at the Lagoon Station

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on August 2 nd . The monitor had 99.9% uptime for the month of August due to one hour of equipment malfunction occurring on August 3 rd at 2:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on August 2 nd . The monitor had 99.9% uptime for the month of August due to one hour of equipment malfunction occurring on August 3 rd at 2:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on August 2 nd . The monitor had 100% uptime for the month of August.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on August 16 th . The monitor had 100% uptime for the month of August.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on August 16 th . The monitor had 100% uptime for the month of August.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime for the month of August.
Wind Speed	MetOne Wind Sensor	The monitor had 100% uptime for the month of August.
Wind Direction		

Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 100% uptime for the month of August.
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Figure 3-1 Inlets on the top of WSP's Lagoon monitor

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in August 2022. Figure 3-2 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-8 shows daily average concentrations recorded during August 2022 for the pollutants listed in Table 3-2. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There was zero days exceeding the 24-hour TSP (100 µg/m³) AAAQO. There were zero exceedances of the 24-hour PM_{2.5} (29 µg/m³) AAAQO. Further, there were zero exceedances of the 1-hour PM_{2.5} AAQ (80 µg/m³).

Historically in August, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 2 and 3, respectively.

At the Lagoon station strong wind gusting that typically occurs in the area contributes to increased particulate levels that may arise from multiple sources including the Lafarge Plant, Exshaw Creek, dry sections of the Bow River, highway and rail traffic moving past the station and fugitive emissions from open areas.

Table 3-2 Summary of August 2022 data at Lagoon

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/h r)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO ₂ (ppb)	159	-	Lagoon	0	-	0.6	8.0	31.8	14	24	11.2	66.0	13.4	1	100.0
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	0.9	11.9	15	7	15.4	270.2	2.9	15	100.0
PM _{2.5} (µg/m ³)	80	29	Lagoon	0	0	0.0	8.2	35.1	15	16	16.8	253.3	17.8	20	99.9
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	29.3	329.9	26	17	18.2	272.7	48.3	9	99.9
TSP (µg/m ³)	-	100	Lagoon	-	0	2.0	51.3	678.9	26	17	18.2	272.7	88.9	9	100.0
Temperature (°C)	-	-	Lagoon	-	-	7.1	19.1	32.2	19	16	9.1	98.1	23.4	1	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.3	13.1	35.3/W	4	13	35.3	251.1	20.5/WSW	28	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	4.0	22	24	9.1	81.8	24.8	-	100.0

¹ Maximum Daily Total Accumulation of Precipitation (mm)

² Monthly Total Accumulation of Precipitation (mm)

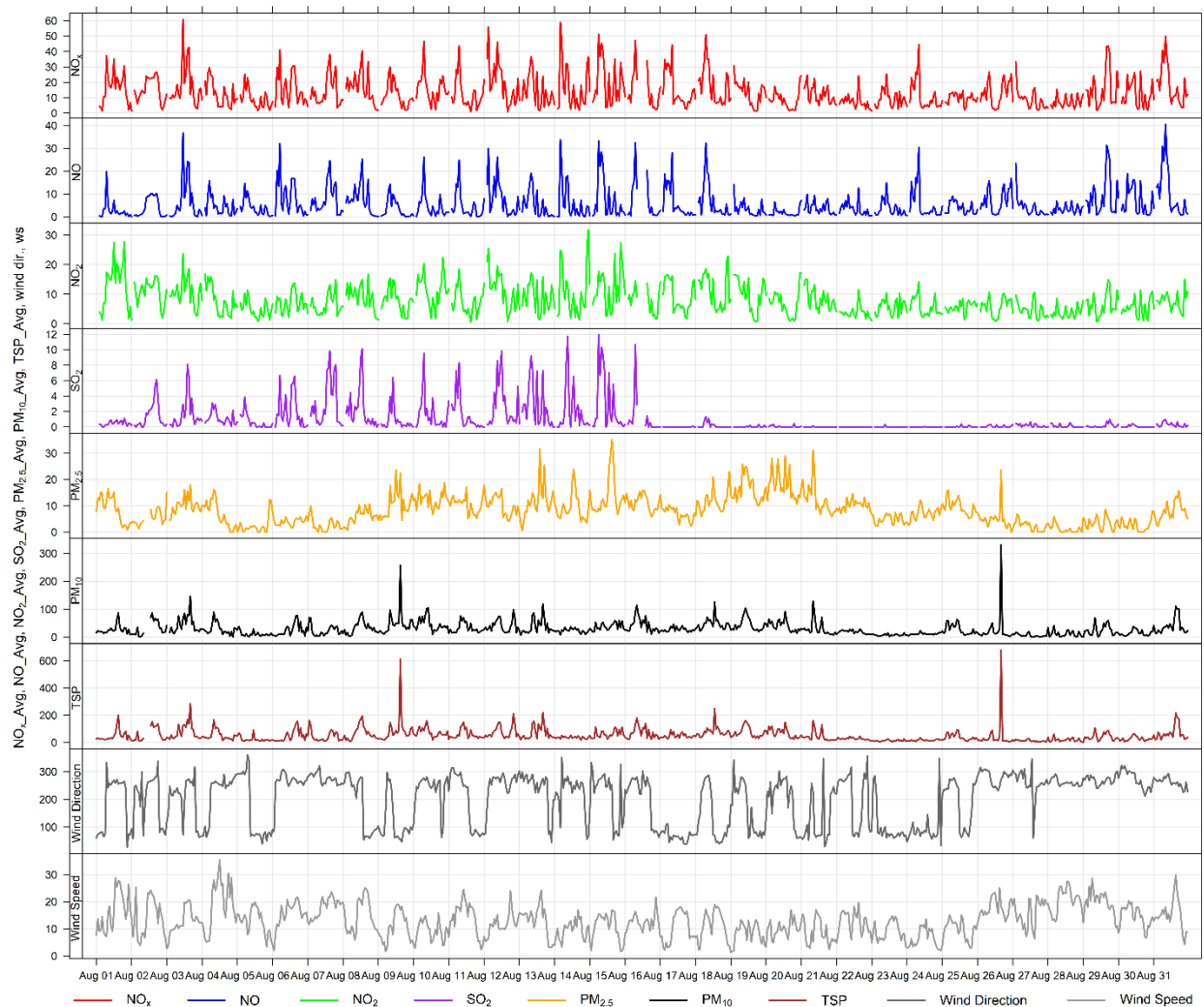


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

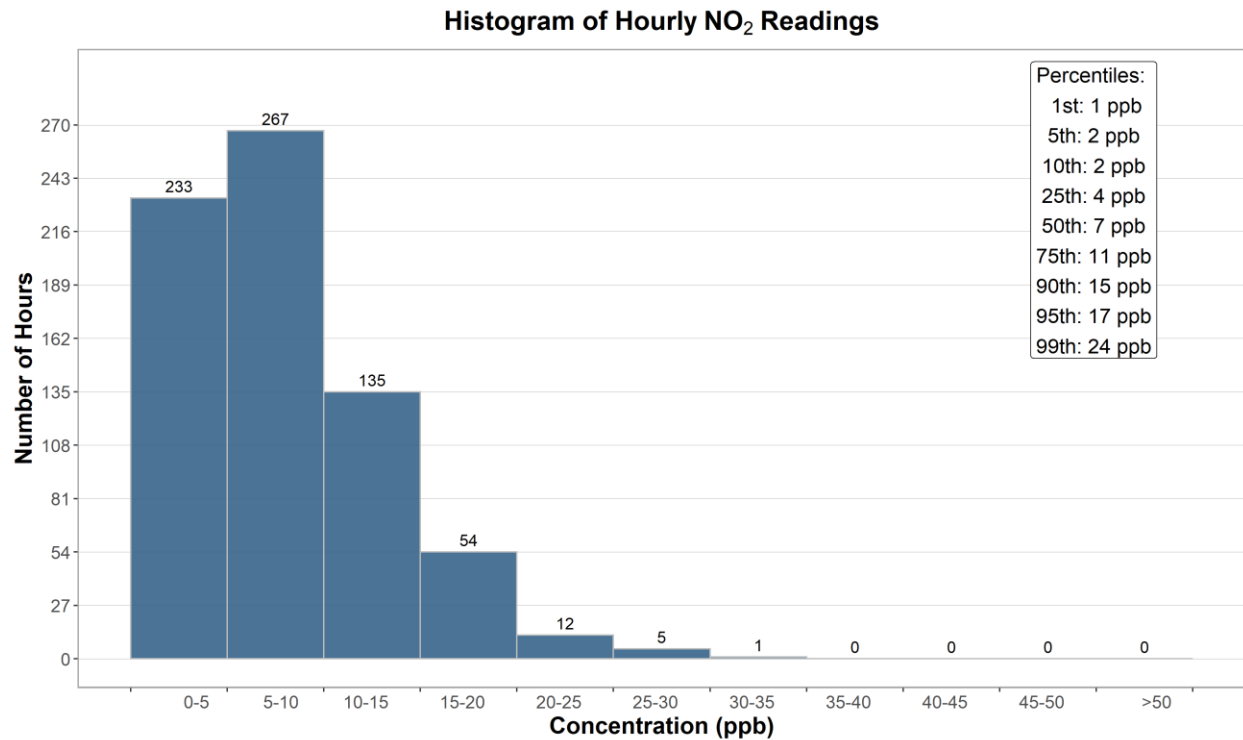


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

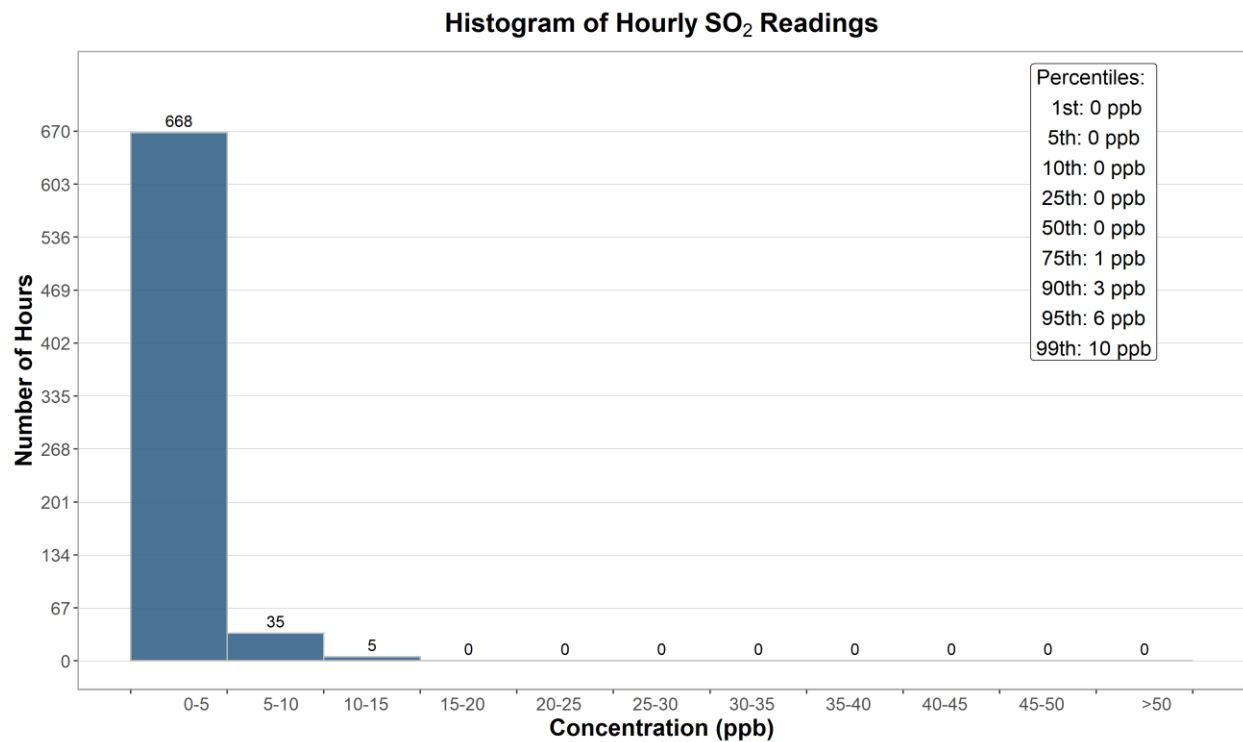


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

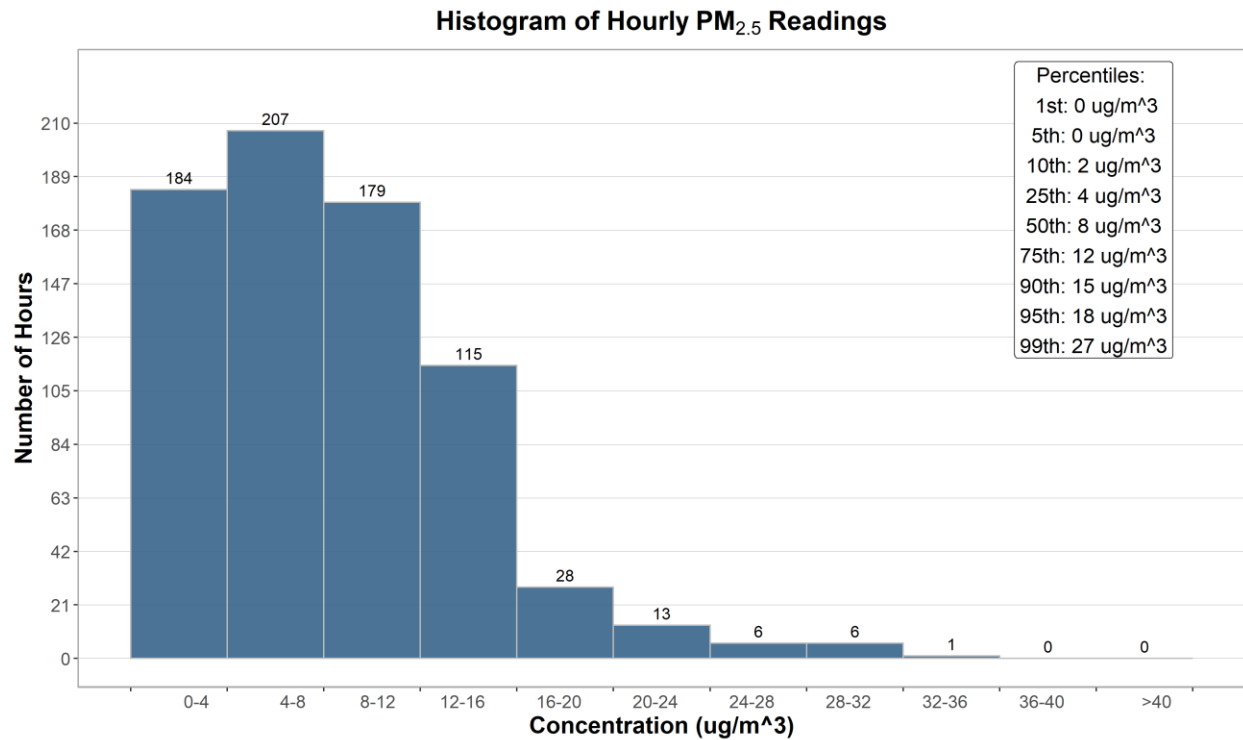


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

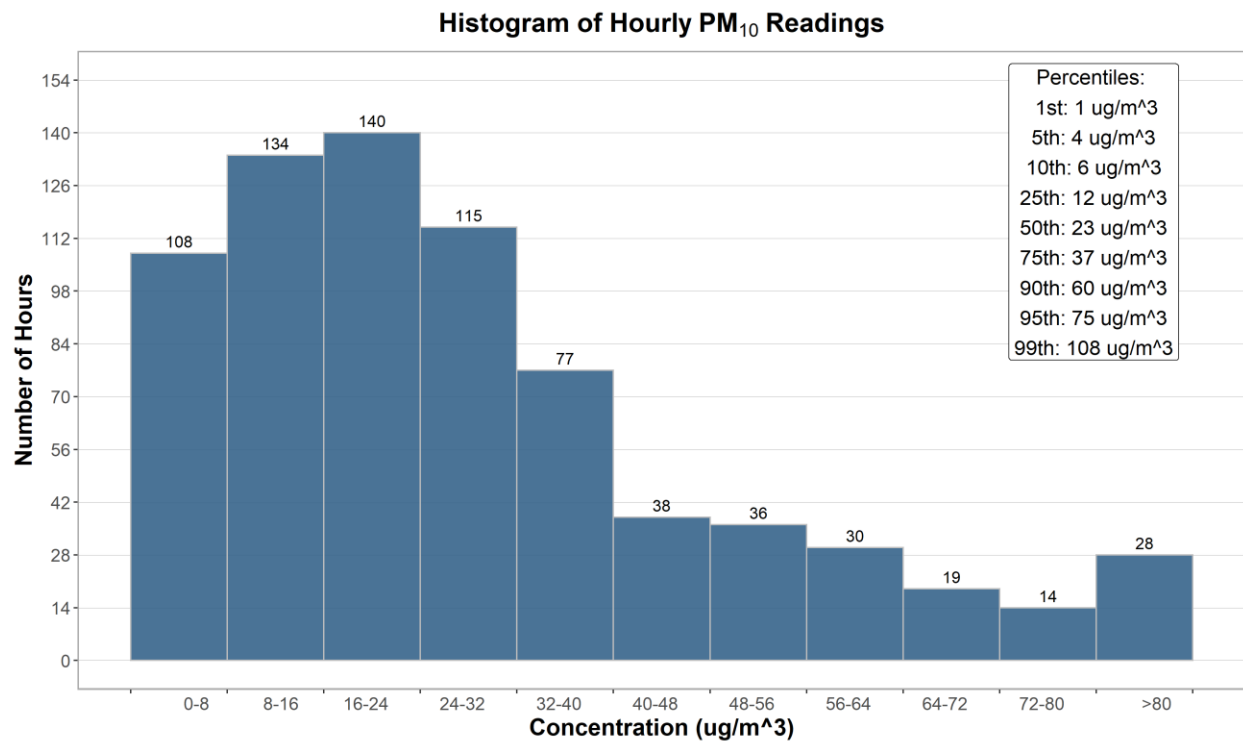


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

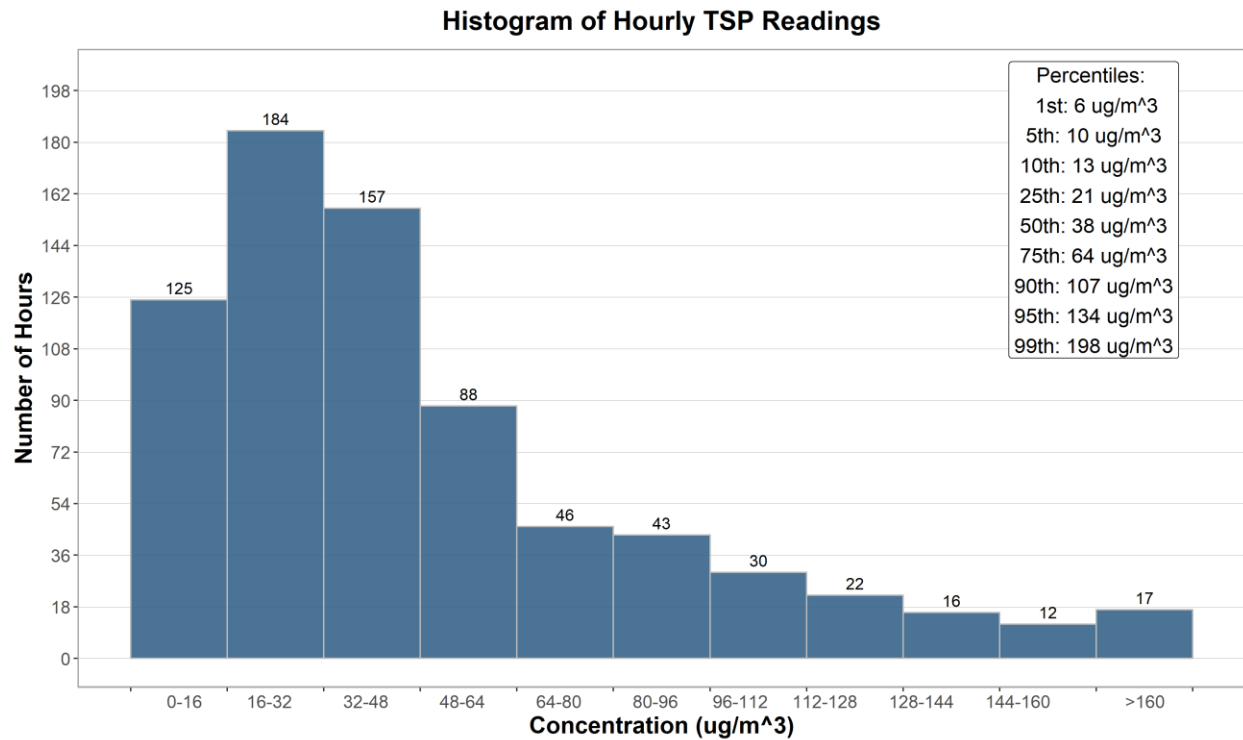


Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

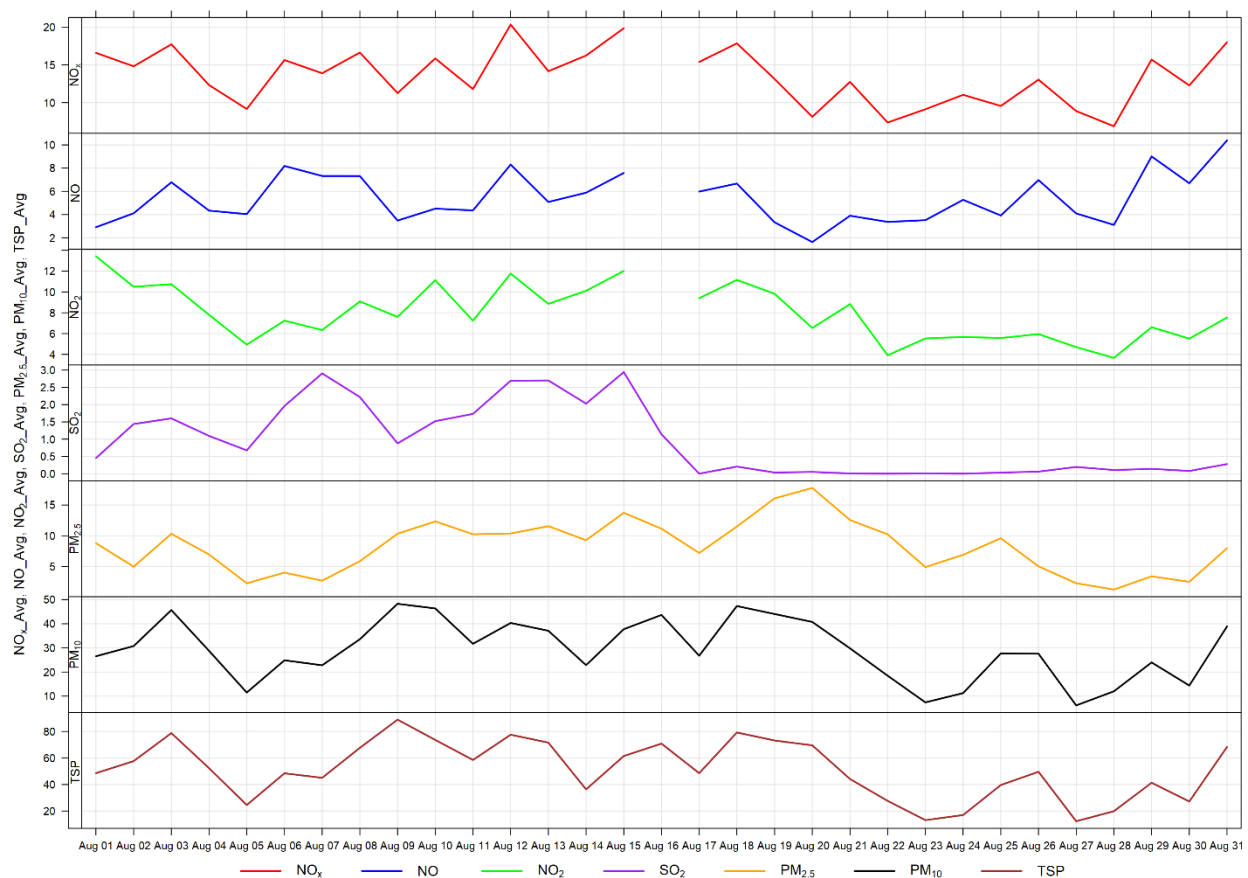


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

The following wind rose (Figure 3-9) shows the wind rose for the month of August. The wind rose shows that the winds predominately came from the west and west-southwest, with lighter winds prevailing from the east-northeast.

Figure 3-10 through Figure 3-12 show the variation in concentrations over various time averaging periods for PM, SO₂ and NO_x. The particulate matter plot in Figure 3-10 typically shows that PM₁₀ and TSP concentrations have a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other airshed activities. The diurnal patterns also typically follow the diurnal pattern of higher wind speeds during the daytime hours.

Figure 3-11 shows the variation of SO₂ over various time periods. SO₂ concentrations patterns are dependent on the timing of the highest SO₂ concentrations recorded in the month because in general SO₂ concentrations are very low. Figure 3-12 shows the variation of NO_x, NO and NO₂, with the peak of all three pollutants occurring in the early morning. This may be indicative of a peak in traffic.

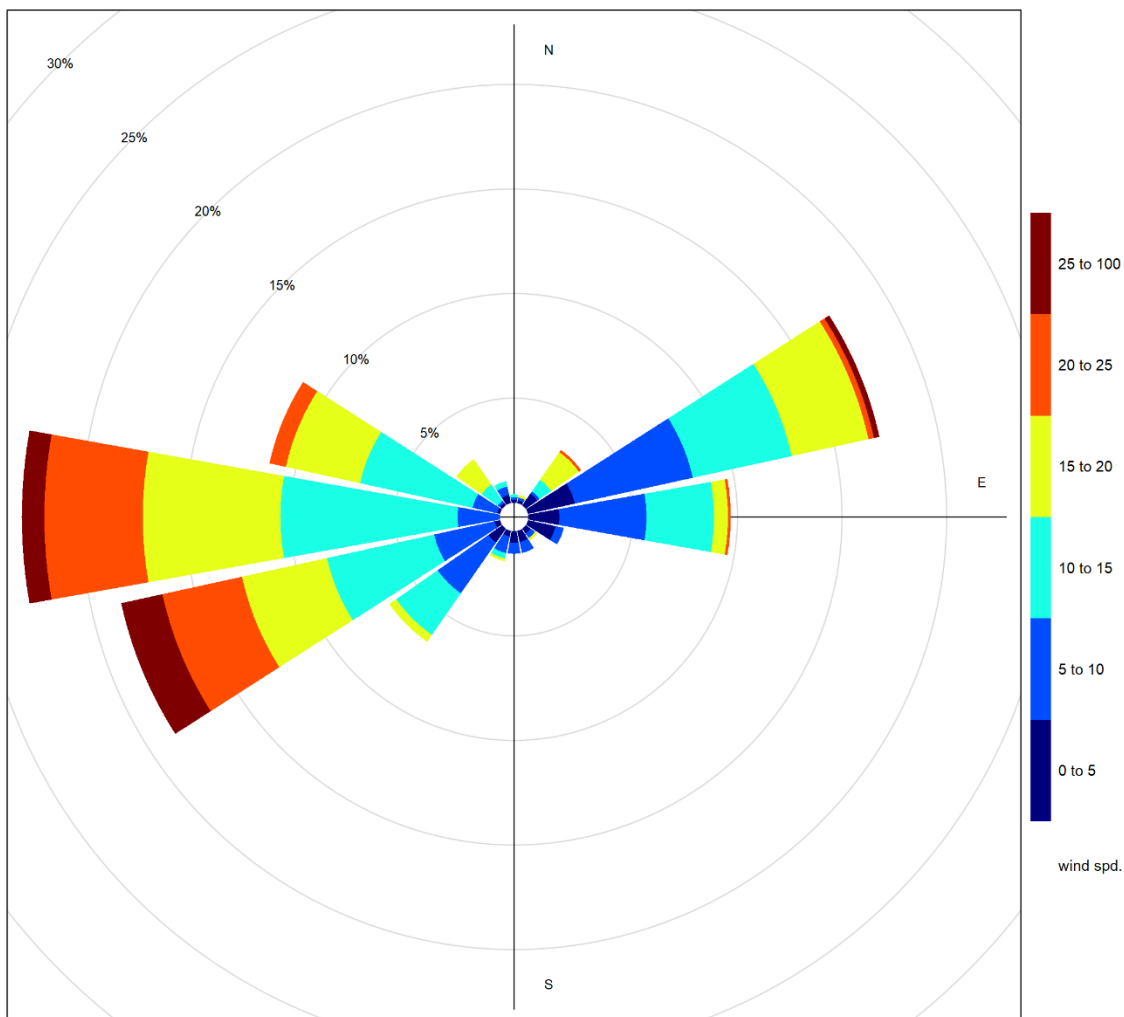


Figure 3-9 Wind rose for August recorded at the Lagoon Station

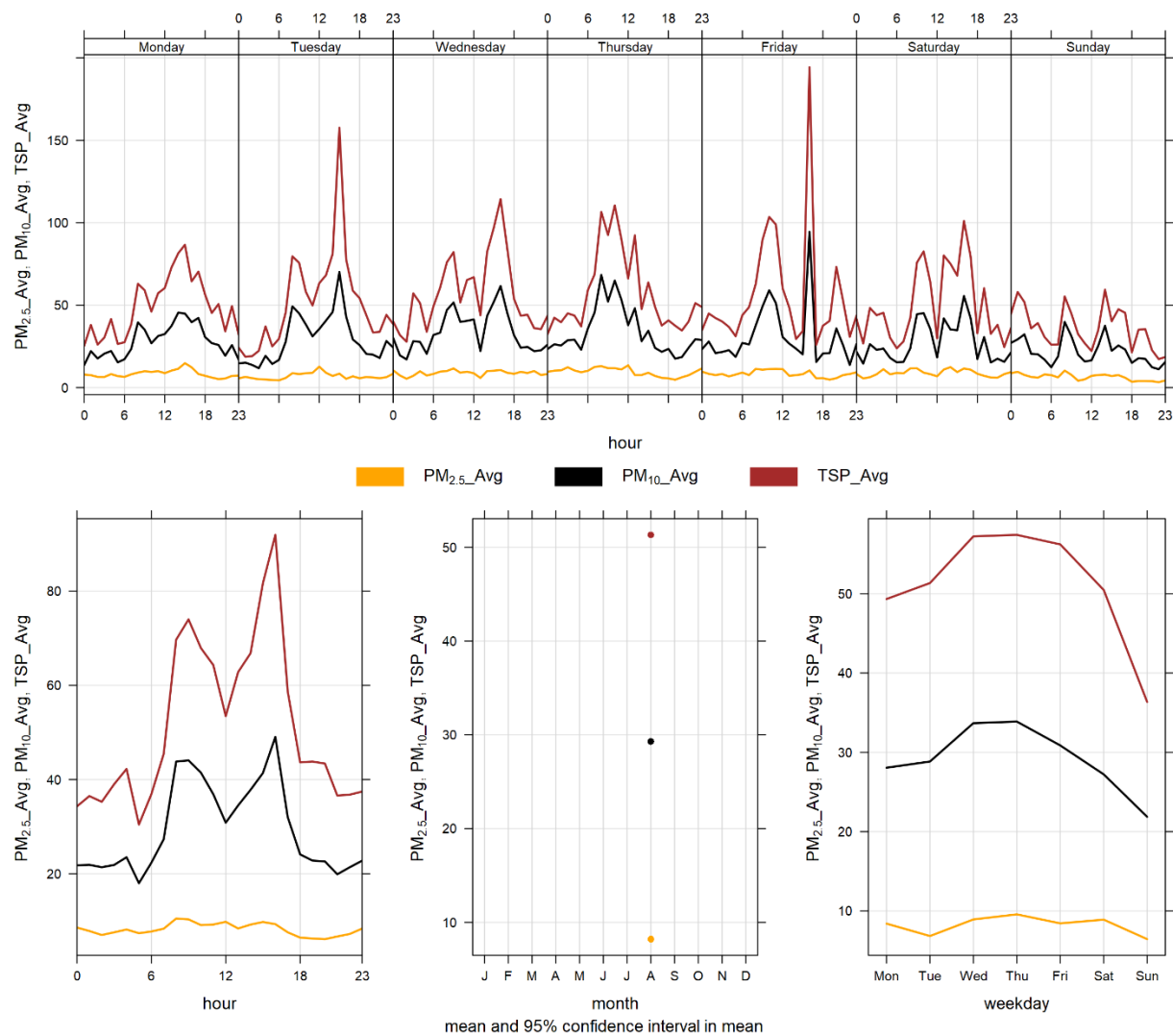


Figure 3-10 Lagoon monitor particulate matter time variation

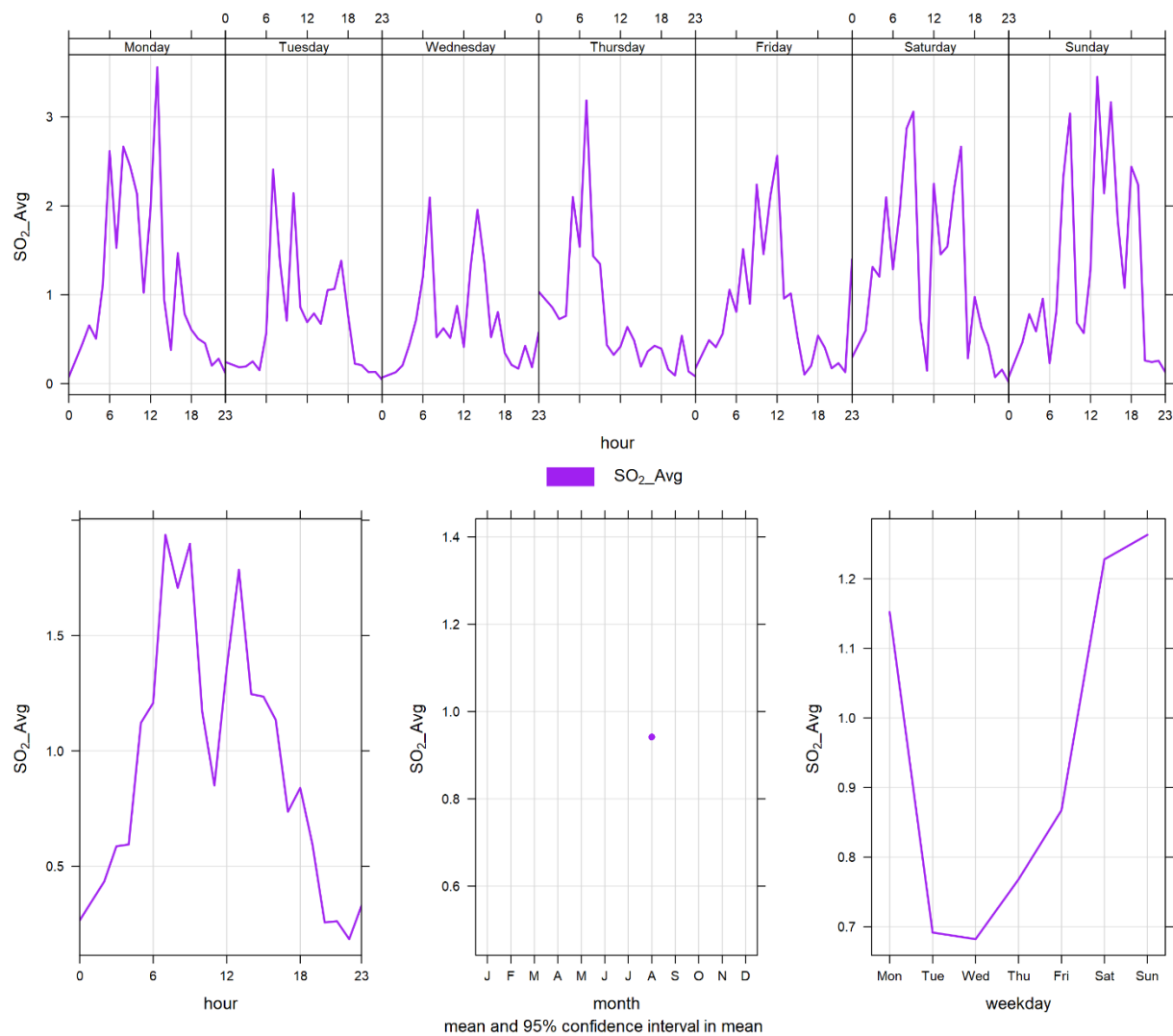


Figure 3-11 Lagoon monitor SO₂ time variation

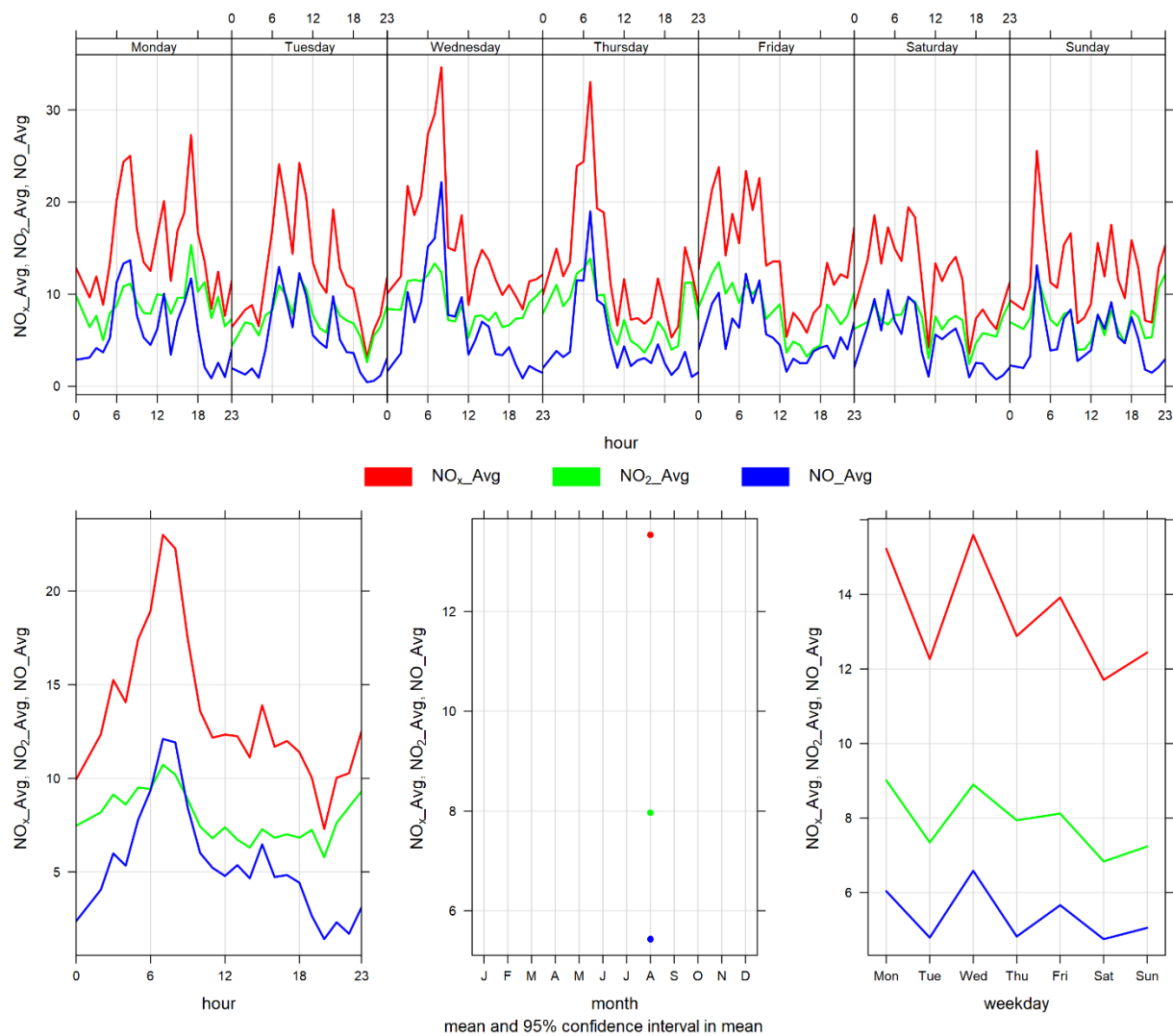


Figure 3-12 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM₁₀, and PM_{2.5} analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for August 2022.

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

4.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 4-1.

Table 4-1 Instrumentation List at the Windridge monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5} Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM _{2.5} monitor was calibrated on August 2 nd . The monitor recorded 100% uptime for the month of August.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on August 2 nd . The monitor recorded 100% uptime for the month of August.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on August 2 nd . The monitor recorded 100% uptime for the month of August.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in August 2022, and Table 4-3 summarizes the recorded exceedance. Figure 4-1 illustrates the time series for hourly PM, Figure 4-2 to Figure 4-4 illustrates the histograms for hourly PM, Figure 4-5 illustrates the time series for daily PM, Figure 4-6 displays the wind rose for the 24-hour TSP, and Figure 4-7 illustrates the time series for hourly PM over different time periods.

There were zero exceedances of the 24-hour PM_{2.5} AAAQO, one exceedance of the 1-hour PM_{2.5} AAQ, and 7 exceedances of the 24-hour TSP AAAQO.

Historically in August, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 9 and 13, respectively, largely due to wildfire activity. The maximum number of 24-hour TSP AAAQO exceedances recorded in August was previously 10 days in 2018.

Due to flood mitigation construction at Exshaw creek the Windridge monitoring station was taken out of operation and removed from the site on April 8, 2019. The flood mitigation work was completed in August 2020. The Windridge station was reinstalled for September 1st, 2020. As per the photo presented in section 1.1 the flood mitigation work has left an exposed creek bed area immediately west of the Windridge monitor that may contribute to an increase in TSP levels. Further, the strong wind gusting that occurred in August would have contributed to

increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 4-2 Summary of August 2022 data at the Windridge Station

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m³)	80	29	Windridge	1	0	0.0	7.4	99.0	19	10	11.2	268.0	19.0	19	100.0
PM₁₀ (µg/m³)	-	-	Windridge	-	-	0.0	43.0	466.0	26	16	25.1	246.7	87.2	3	100.0
TSP (µg/m³)	-	100	Windridge	-	7	0.0	71.4	899.0	26	16	25.1	246.7	154.7	3	100.0

Table 4-3 Days exceeding the TSP AAAQO or PM_{2.5} AAAQO at the Windridge Station

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Windridge						
2022-08-03	154.7	-	238.6	12.6	52.4	Winds predominately from the west
2022-08-04	143.4	-	258.9	19.1	60.3	Winds predominately from the west
2022-08-06	137.6	-	270.2	15.2	44.5	Winds predominately from the west
2022-08-10	107.4	-	260.8	9.2	41.5	Winds predominately from the west
2022-08-12	134.7	-	266.1	11.6	38.7	Winds predominately from the west
2022-08-16	114.6	-	255.1	12.6	44.9	Winds predominately from the west
2022-08-31	108.6	-	263.0	15.3	40.7	Winds predominately from the west
Total # of Exceedances	7	0				
Maximum # of Exceedances (August)	10 (2018)	17 (2018)				
Average # of Exceedances (August)	9	13				
Minimum # of Exceedances (August)	8 (2021)	9 (2021)				

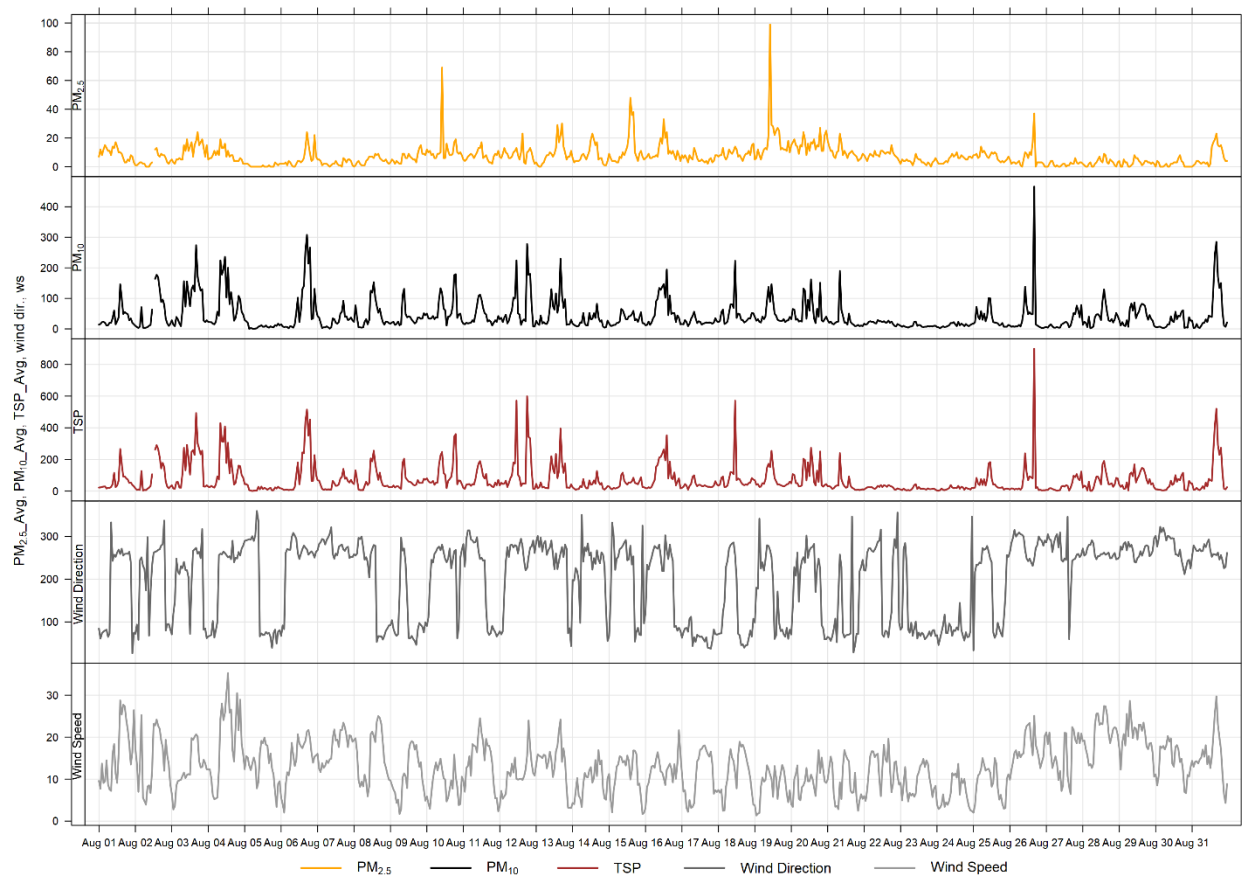


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

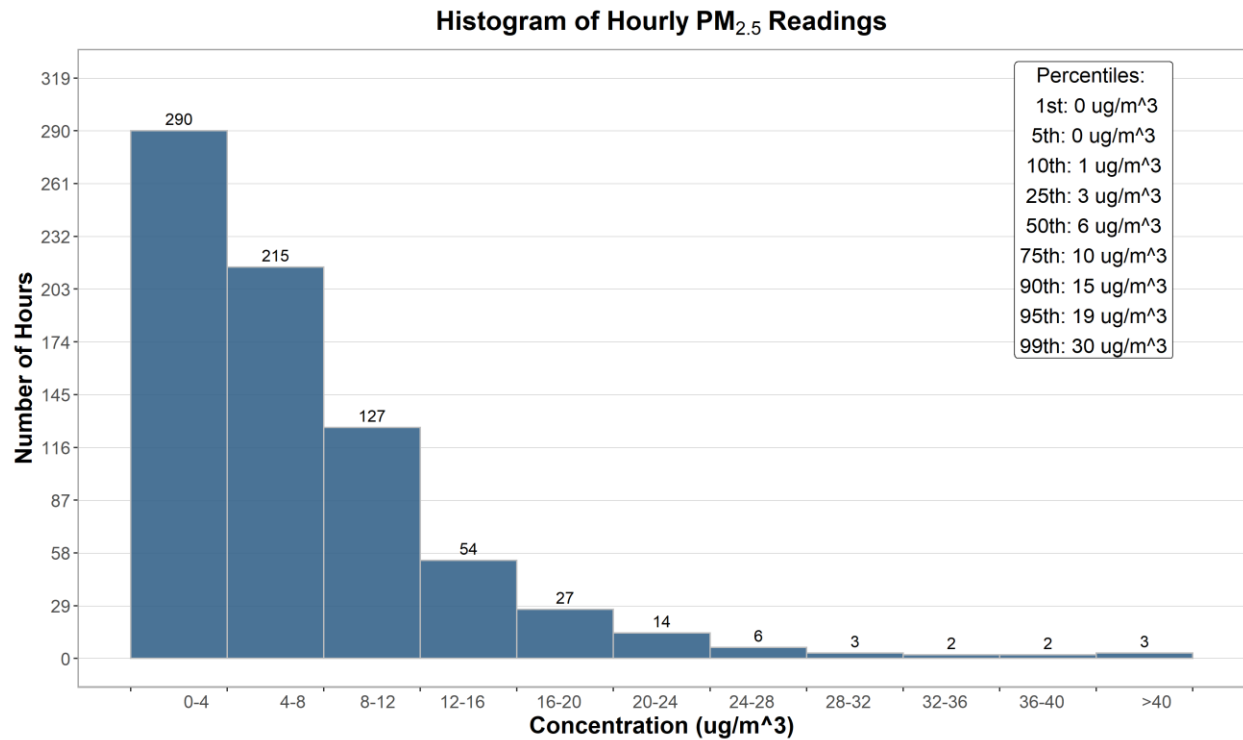


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

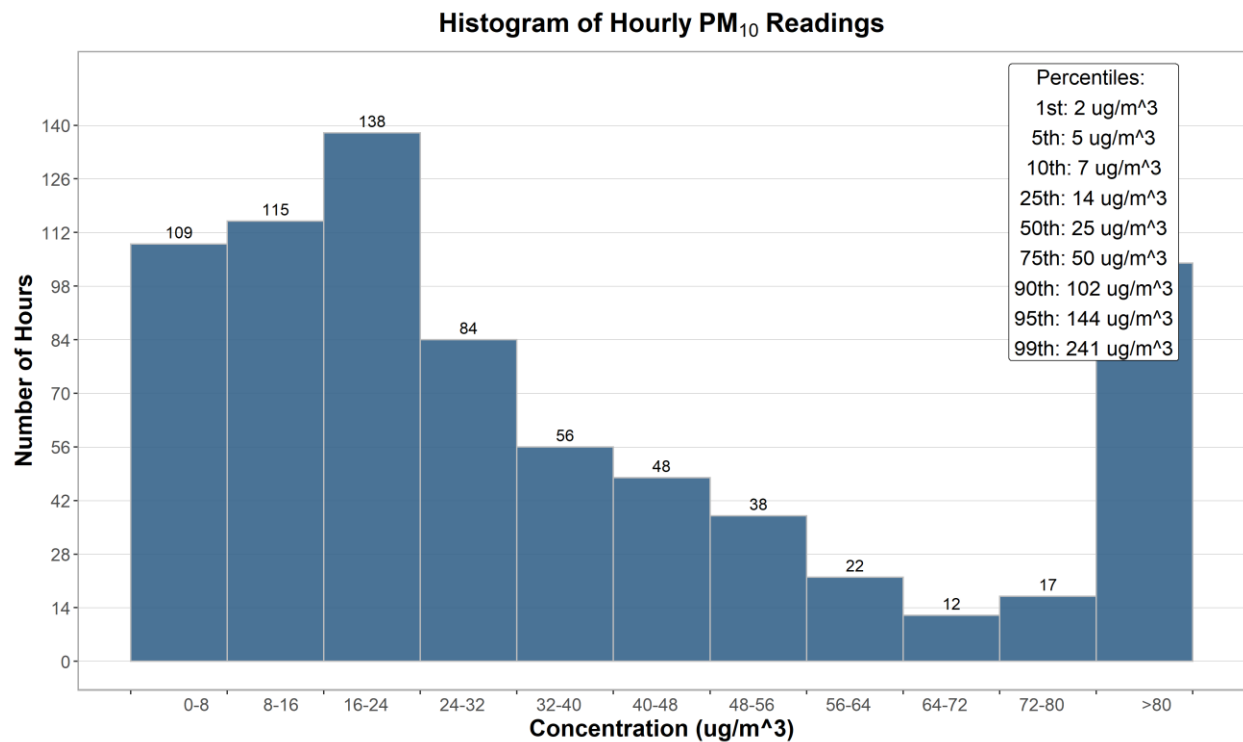


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

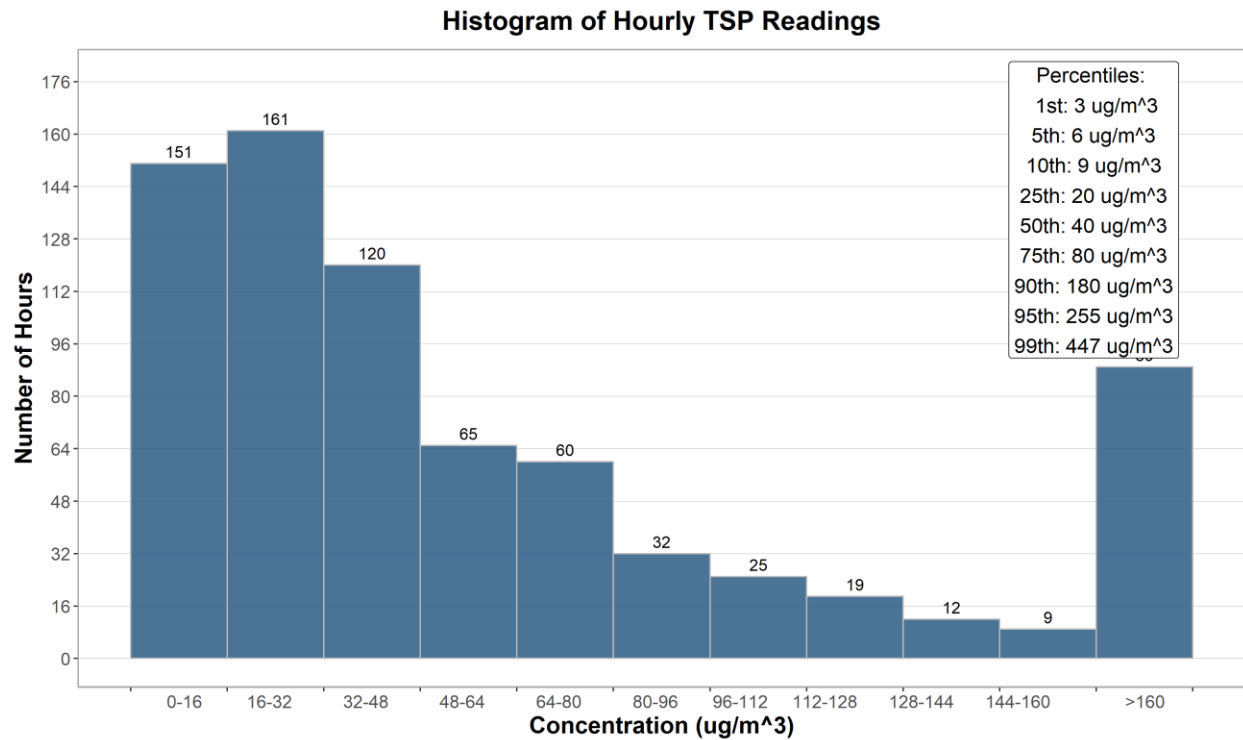


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

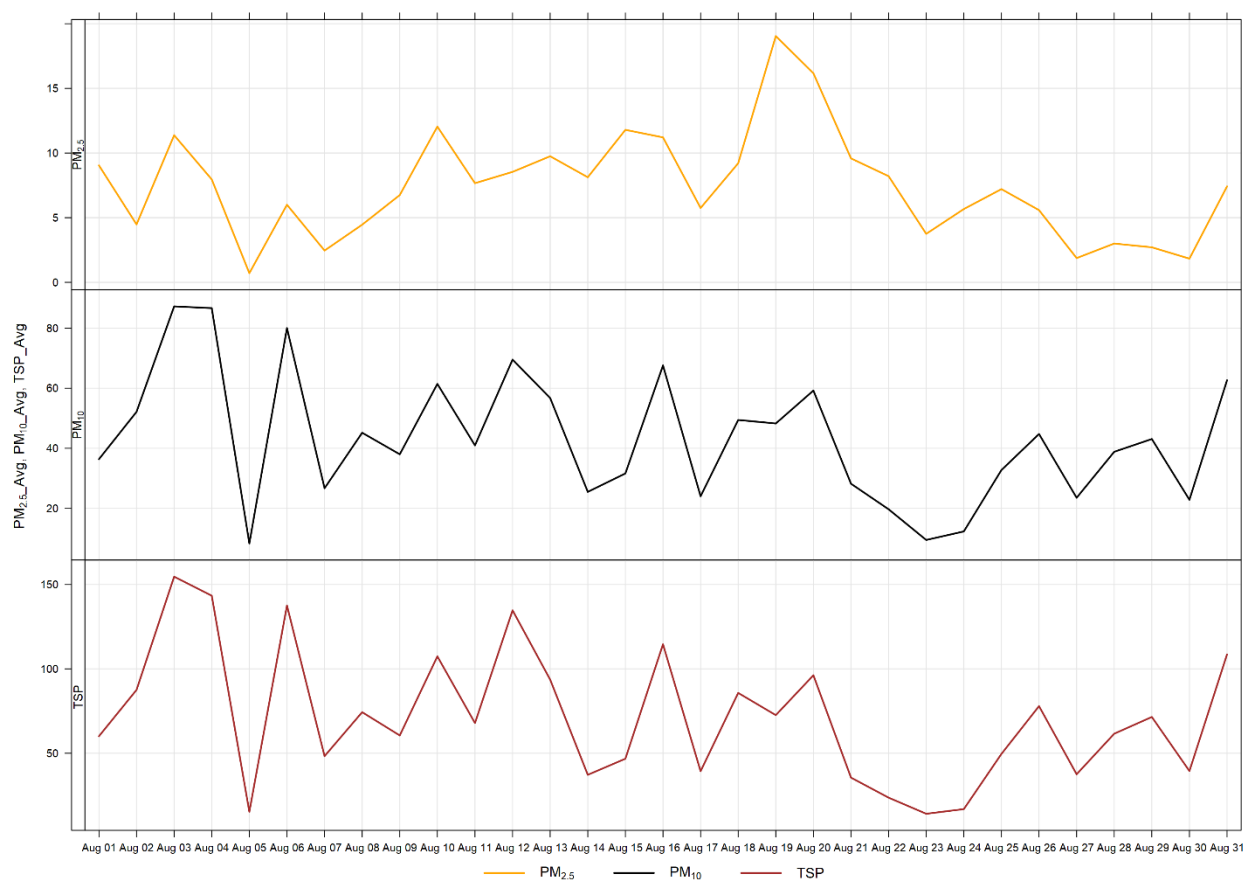


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 7 days of TSP exceedances. The wind rose shows that the winds predominantly came from the west direction.

Figure 4-7 illustrates the hourly PM concentrations recorded at the Windridge 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 4-7 is based on data collected during August 2022. Similar to the Lagoon station, typically PM concentrations shows a diurnal pattern associated with Lafarge operations, daytime emissions from traffic and other activities. The diurnal patterns also follow the diurnal pattern of higher wind speeds during the daytime hours.

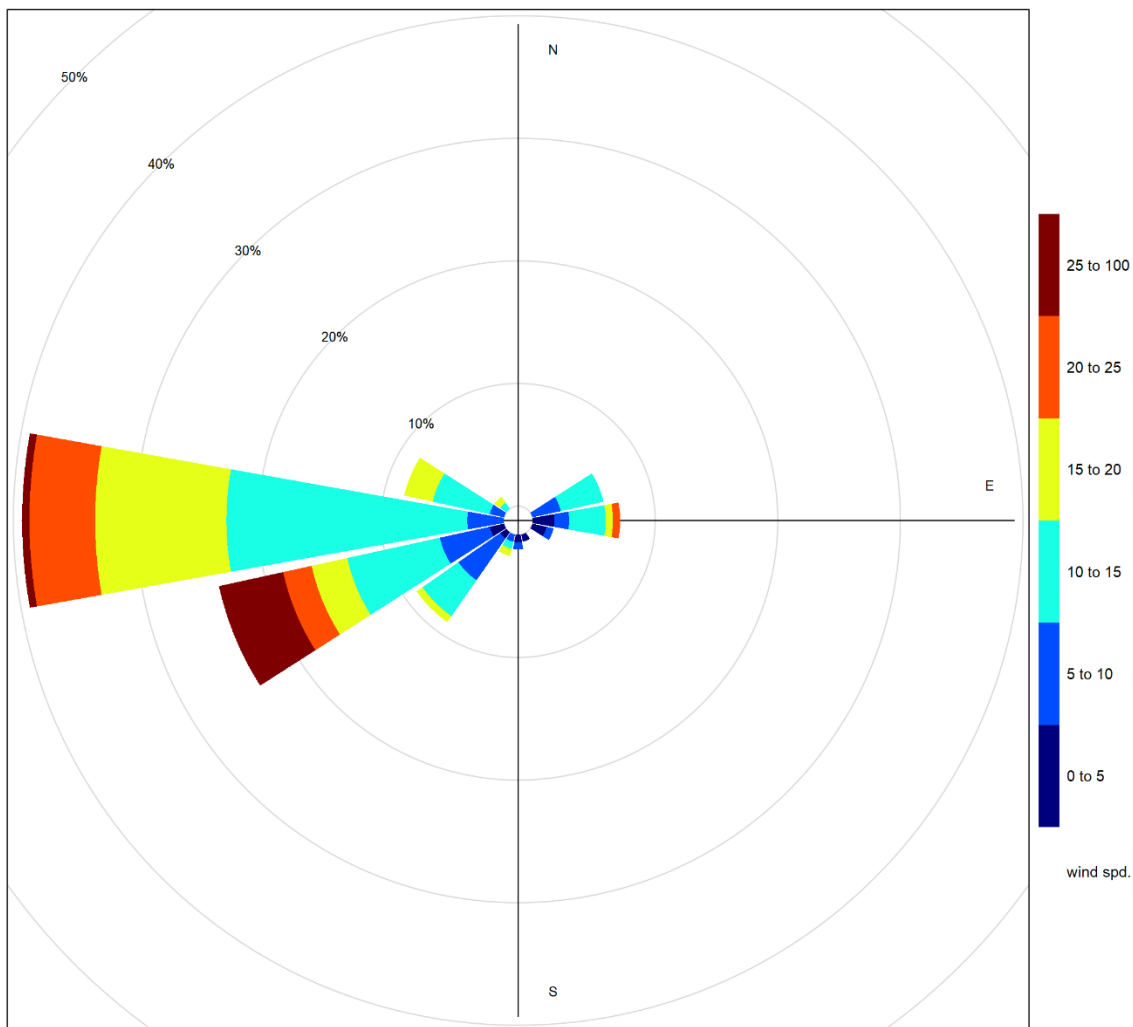


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

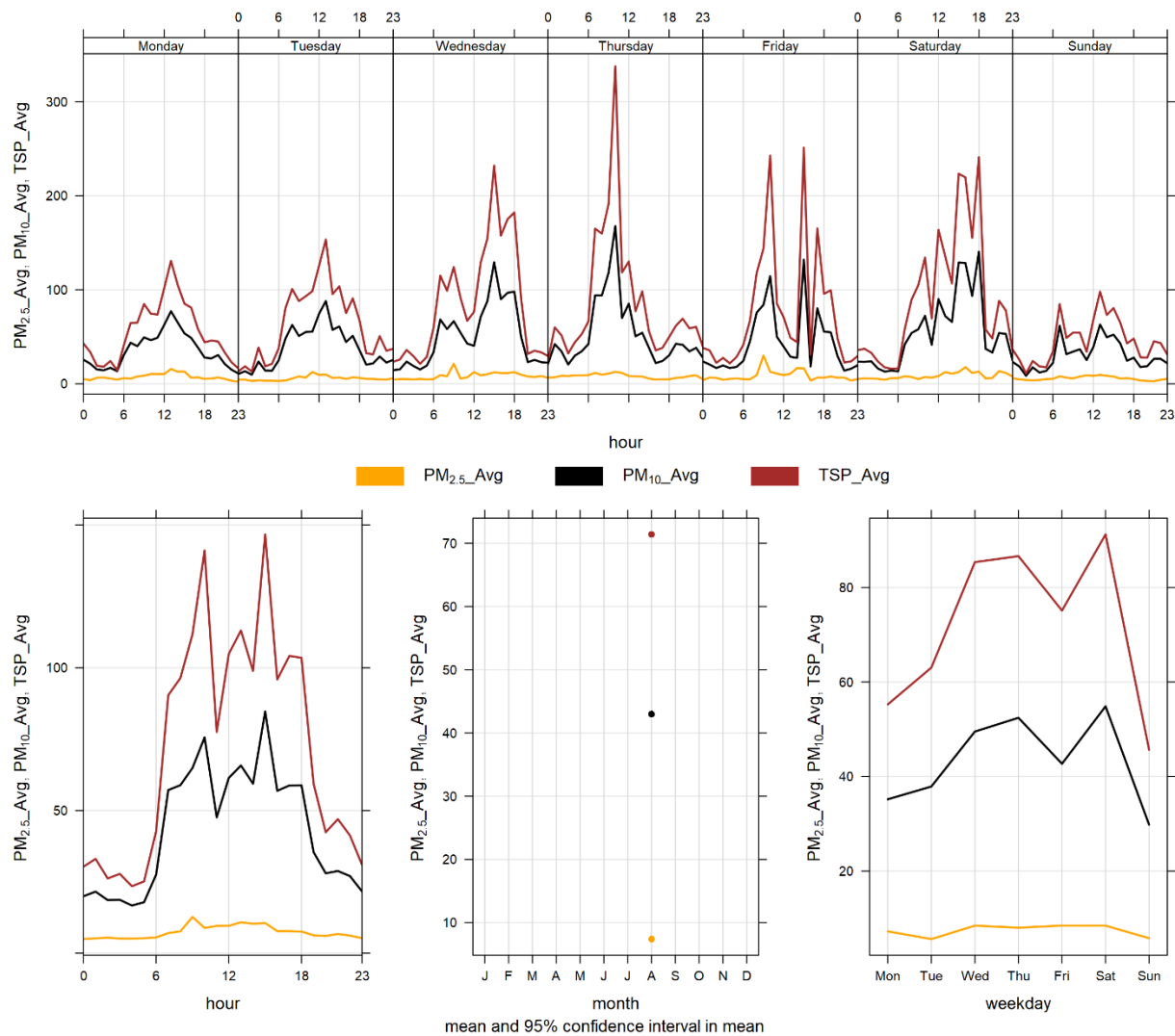


Figure 4-7 Windridge particulate matter time variation

5 WEST INDUSTRIAL GRIMM

5.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 5-1.

Table 5-1 Instrumentation List at the West monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 30.1% uptime for the month of August due to 520 hours of communication error occurring from August 10 th at 9:00 to August 31 st at 24:00.

5.2 MONITORING RESULTS AND TRENDS

The West GRIMM was moved to its current location in order to monitor “background” PM concentrations since the predominant wind pattern is from west to east in the valley. Table 5-2 summarizes the maximum 1-hour and 24-hour concentrations recorded over the course of the month. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

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

There were zero exceedances of the 24-hour TSP Guideline (100 µg/m³) and zero exceedances of the 24-hour PM_{2.5} (29µg/m³) Guideline. Further, there were zero hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of August, the West monitor records an average of zero and two exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in August was previously two days in 2015.

Table 5-2 Summary of August 2022 data at the West GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m ³)	80	29	West	0	0	0.3	5.6	20.3	1	4	9.5	79.9	9.5	9	30.1
PM₁₀ (µg/m ³)	-	-	West	-	-	0.4	7.7	27.3	9	17	18.2	46.4	14.0	9	30.1
TSP (µg/m ³)	-	100	West	-	0	0.3	7.5	31.7	9	17	18.2	46.4	15.7	9	30.1

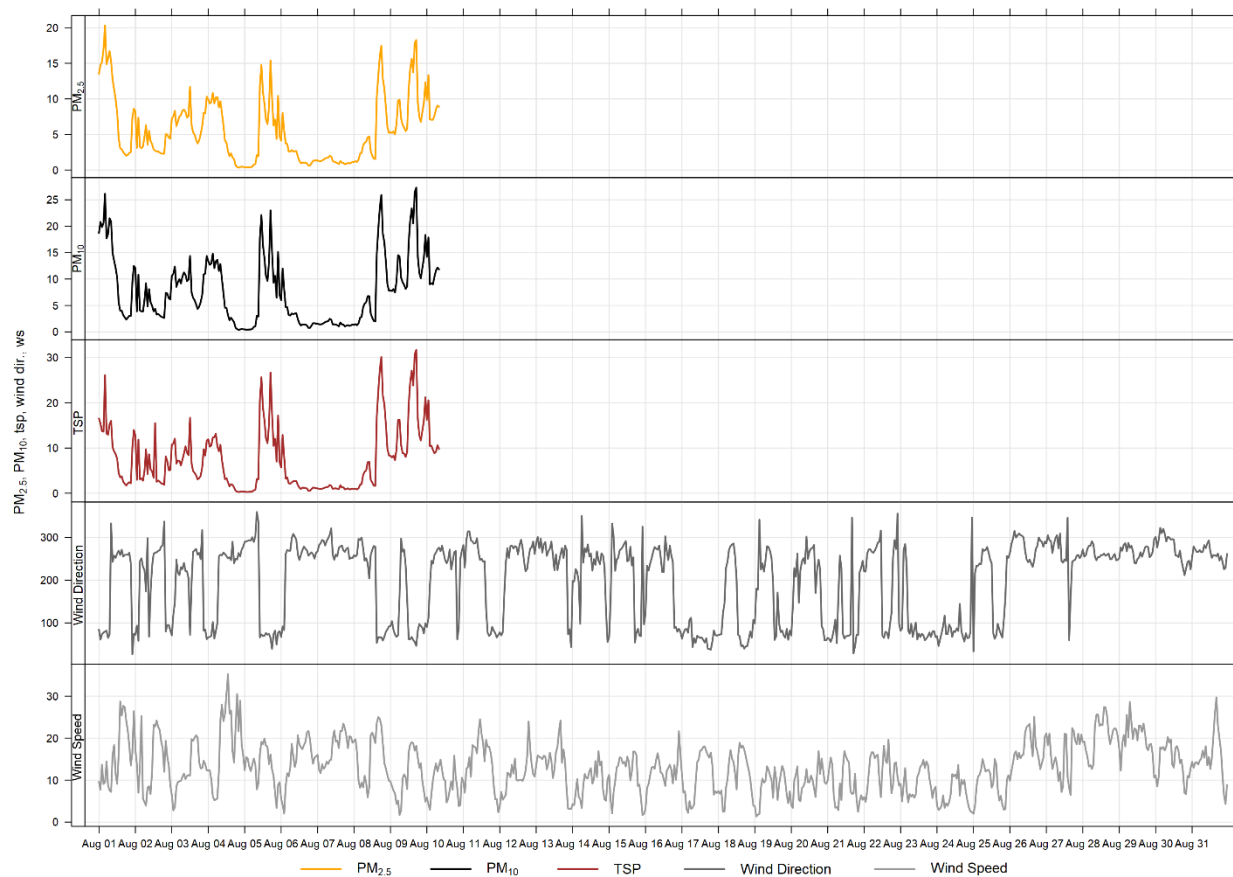


Figure 5-1 1-hour particulate matter concentrations at the West monitor

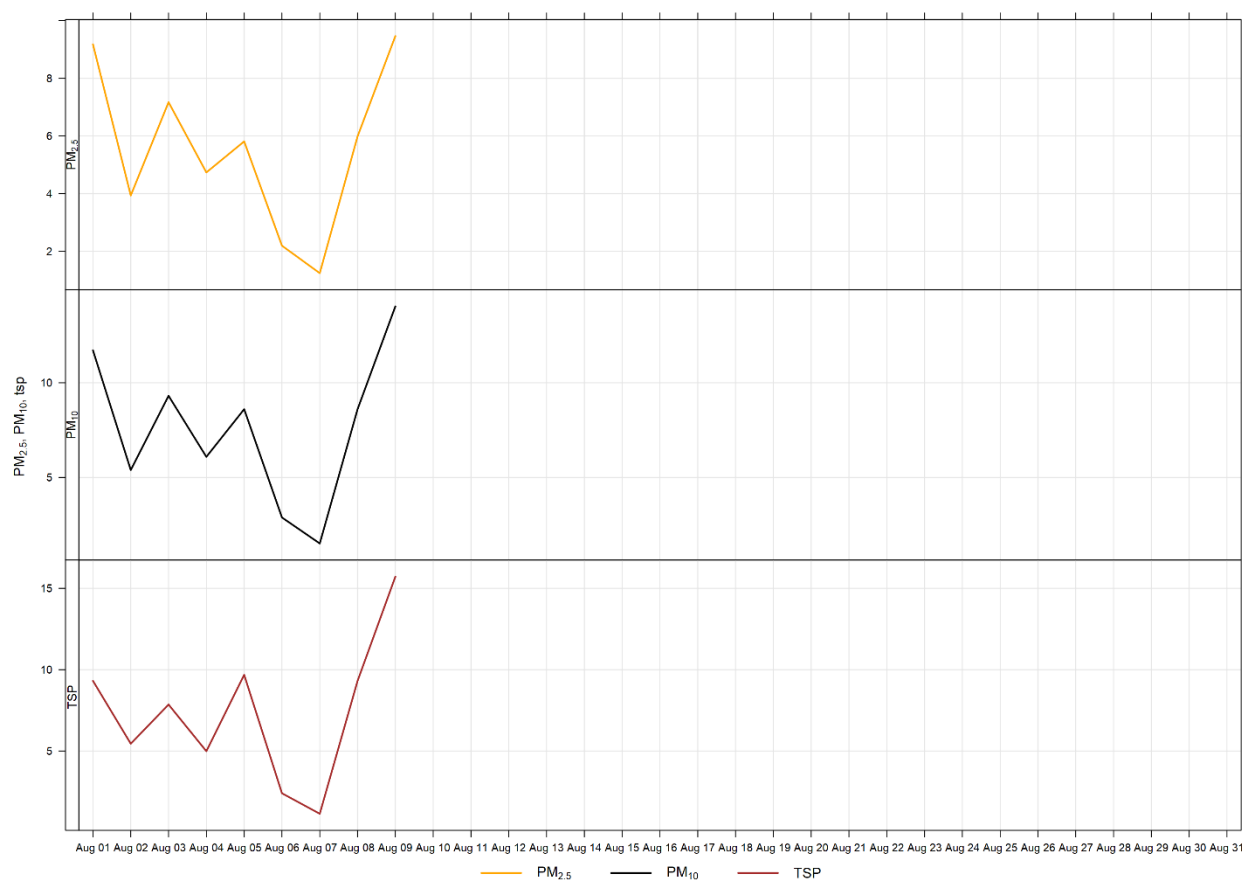


Figure 5-2 24-hour particulate matter concentrations at the West monitor

Figure 5-3 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 5-3 is based on data collected during August 2022. Historically this monitor saw daily variations in PM that were more likely a result of higher traffic volume during daylight hours than specific Lafarge operations. The West monitor was moved to its current location (Figure 1-1) on December 1, 2021, and will continue to be evaluated to better understand influences from background sources, Lafarge Exshaw, as well as highway and rail sources.

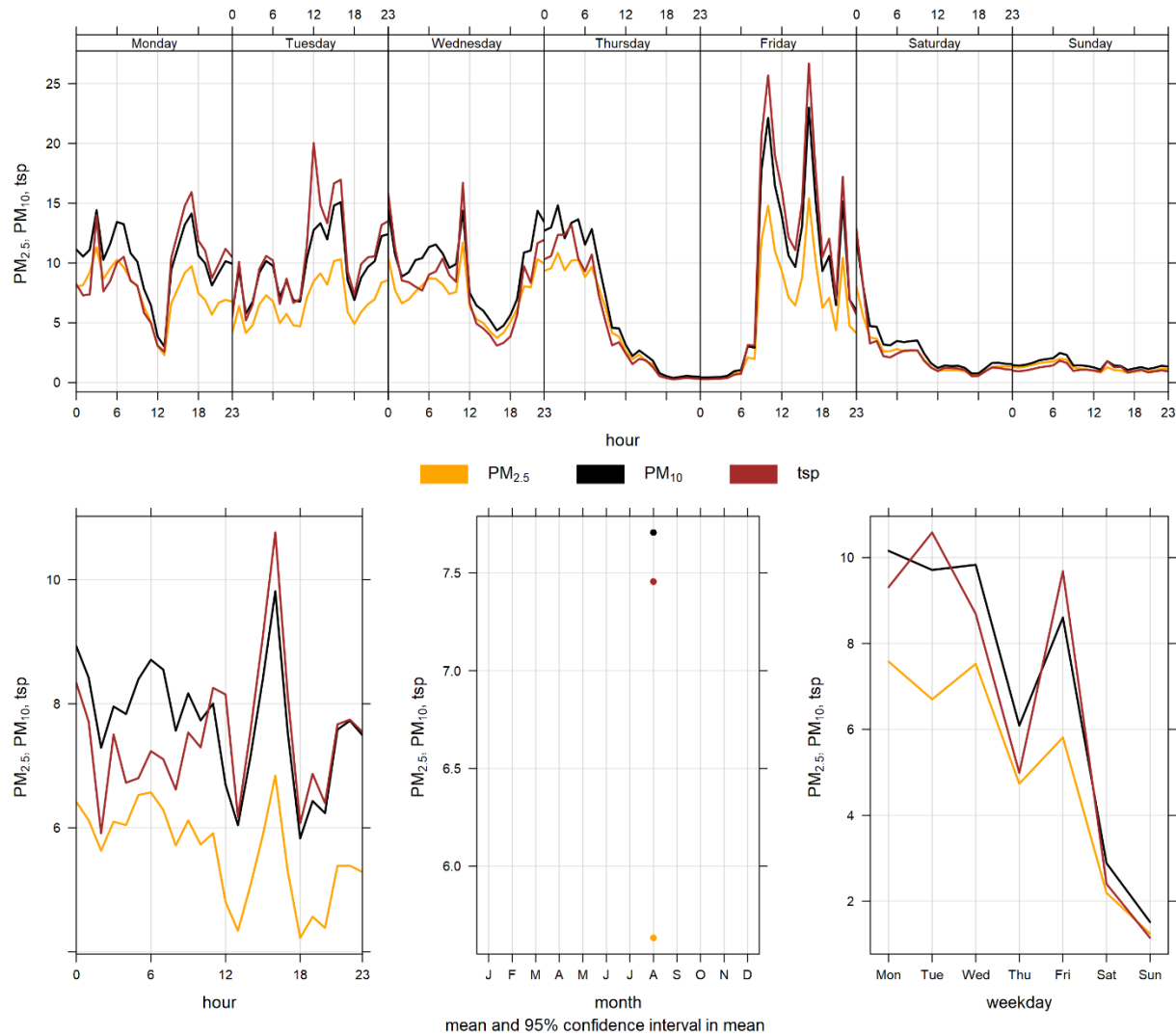


Figure 5-3 West monitor particulate matter time variation

6 BERM INDUSTRIAL GRIMM

6.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 6-1.

Table 6-1 Instrumentation List at the Berm monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 99.7% uptime during the month of August due to two hours of power failure occurring on August 2 nd at 13:00 & August 17 th at 10:00.

6.2 MONITORING RESULTS AND TRENDS

The Berm monitor was placed at its current location as a result of the dispersion modelling conducted for the facility. Figure 6-1 and Figure 6-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 6-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month, and Table 6-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

There were 14 and 0 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There were two hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of August, the Berm monitor records an average of 13 and 4 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during August occurred in 2017 where there were 18 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in August was 16 days in 2018, as a result of wildfire activity.

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. The strong wind gusting that occurred in August would have also contributed to increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 6-2 Summary of August 2022 data at the Berm GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m ³)	80	29	Berm	2	0	0.4	10.7	89.5	6	17	21.3	269.8	22.5	4	99.7
PM₁₀ (µg/m ³)	-	-	Berm	-	-	0.7	50.8	568.0	6	17	21.3	269.8	137.5	6	99.7
TSP (µg/m ³)	-	100	Berm	-	14	0.7	102.0	1215.0	6	17	21.3	269.8	336.8	4	99.7

Table 6-3 Days exceeding the Guideline for TSP or PM_{2.5} at the Berm Monitor

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Berm						
2022-08-01	127.7	-	270.7	16.5	48.0	Winds predominantly from the west
2022-08-02	188.5	-	262.9	14.0	45.0	Winds predominantly from the west
2022-08-03	215.8	-	238.6	12.6	52.4	Winds predominantly from the west
2022-08-04	336.8	-	258.9	19.1	60.3	Winds predominantly from the west
2022-08-06	282.3	-	270.2	15.2	44.5	Winds predominantly from the west
2022-08-08	116.4	-	340.5	15.0	38.4	Winds predominantly from the northwest
2022-08-10	138.6	-	260.8	9.2	41.5	Winds predominantly from the west
2022-08-12	177.4	-	266.1	11.6	38.7	Winds predominantly from the west
2022-08-13	160.7	-	266.8	13.4	39.8	Winds predominantly from the west
2022-08-16	147.6	-	255.1	12.6	44.9	Winds predominantly from the west
2022-08-20	127.0	-	240.1	9.9	47.3	Winds predominantly from the west

2022-08-26	131.0	-	277.9	17.6	63.8	Winds predominantly from the west
2022-08-29	119.9	-	268.1	19.7	41.8	Winds predominantly from the west
2022-08-31	181.2	-	263.0	15.3	40.7	Winds predominantly from the west
Total # of Exceedances	14	0				
Maximum # of Exceedances (August)	18 (2017)	16 (2018)				
Average # of Exceedances (August)	13	4				
Minimum # of Exceedances (August)	6 (2016)	0 (2011, 2013, 2016, 2019, 2020)				

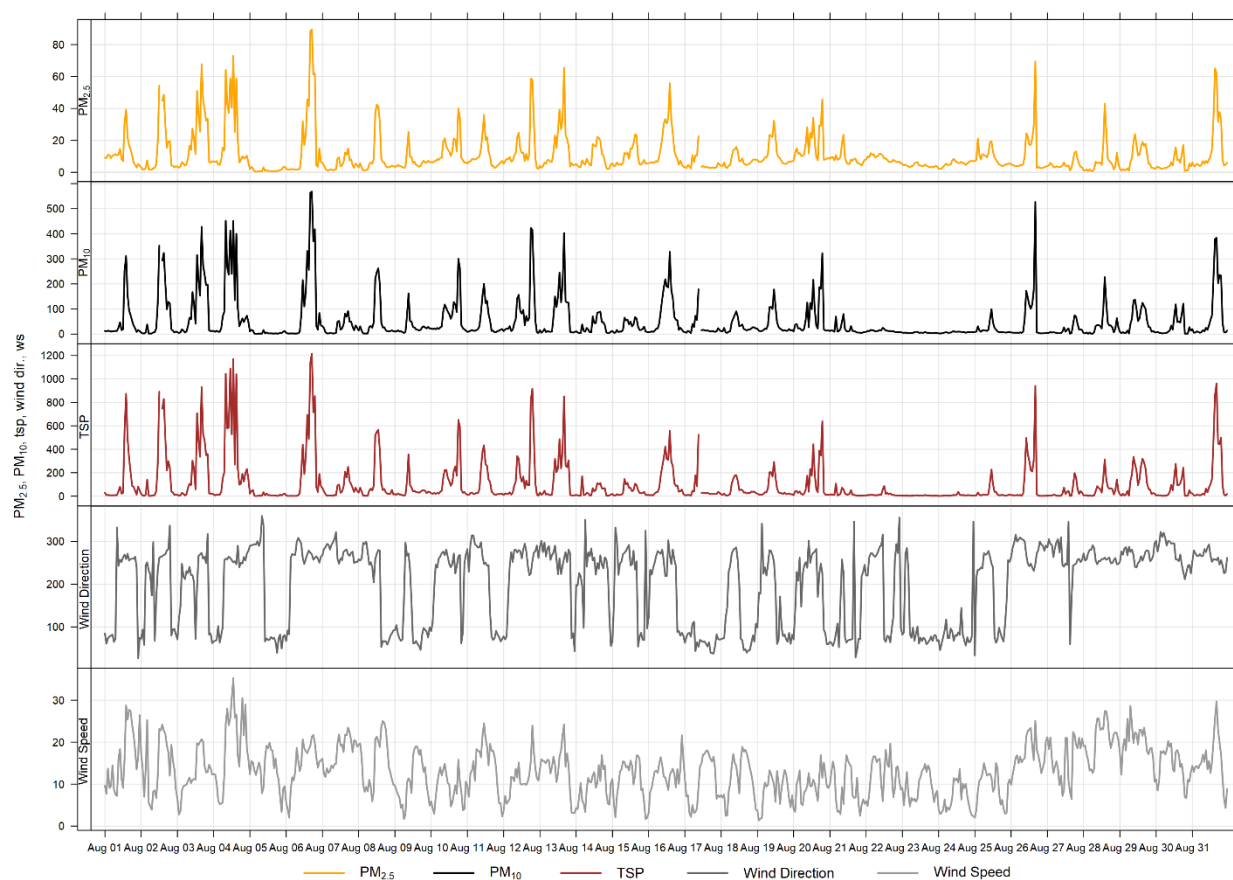


Figure 6-1 1-hour particulate matter concentrations recorded at the Berm monitor

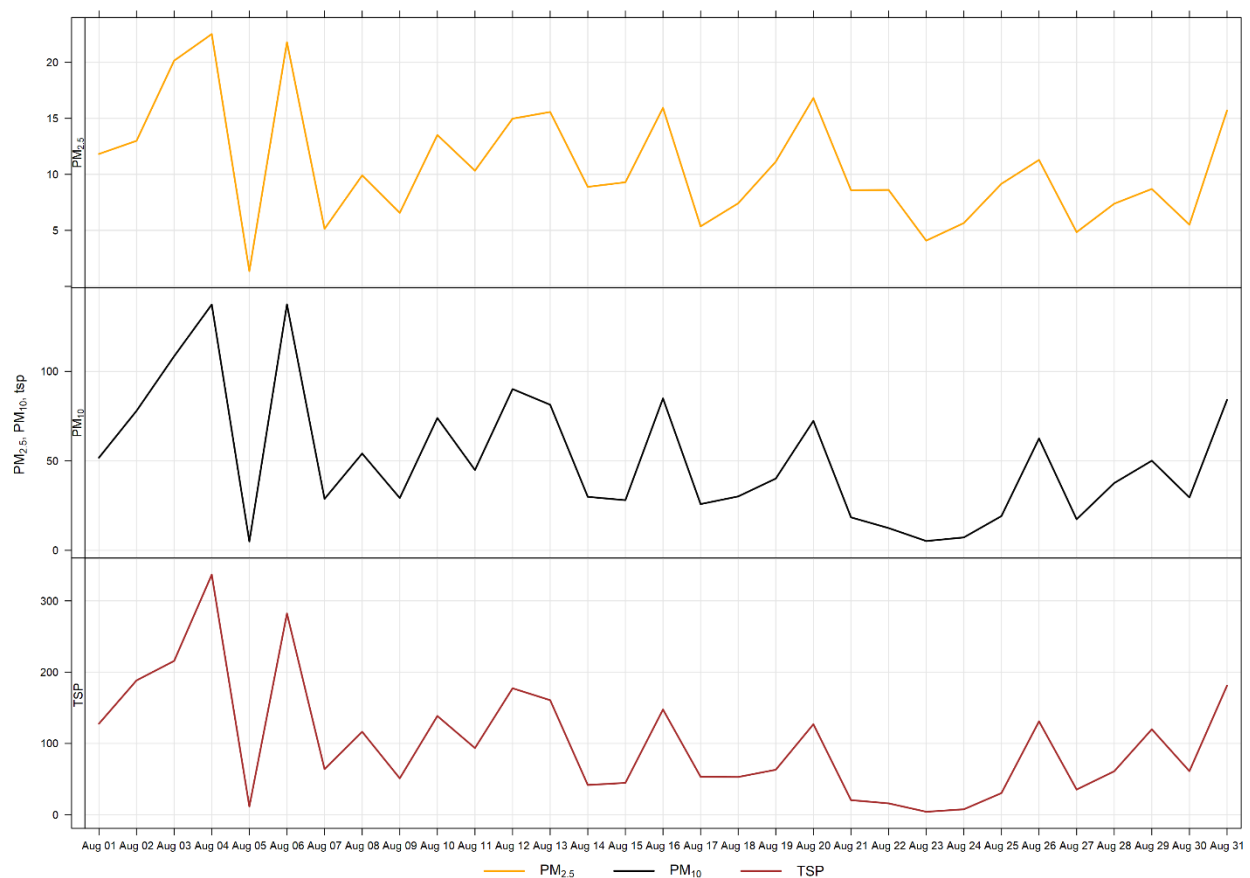


Figure 6-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 6-3 shows the wind rose for the 14 days of TSP exceedances. The wind roses show that the winds predominantly came from the westerly directions. This month many of the TSP exceedances were driven by windblown fugitive dust, and winds from the west which suggest impacts from the Lafarge Facility.

Figure 6-4 shows the variation of PM recorded at the Berm monitor over various time averaging periods. The Berm monitor diurnal pattern, similar to the Lagoon station, and is associated with Lafarge operations, but also daytime emissions from other activities and sources in Exshaw.

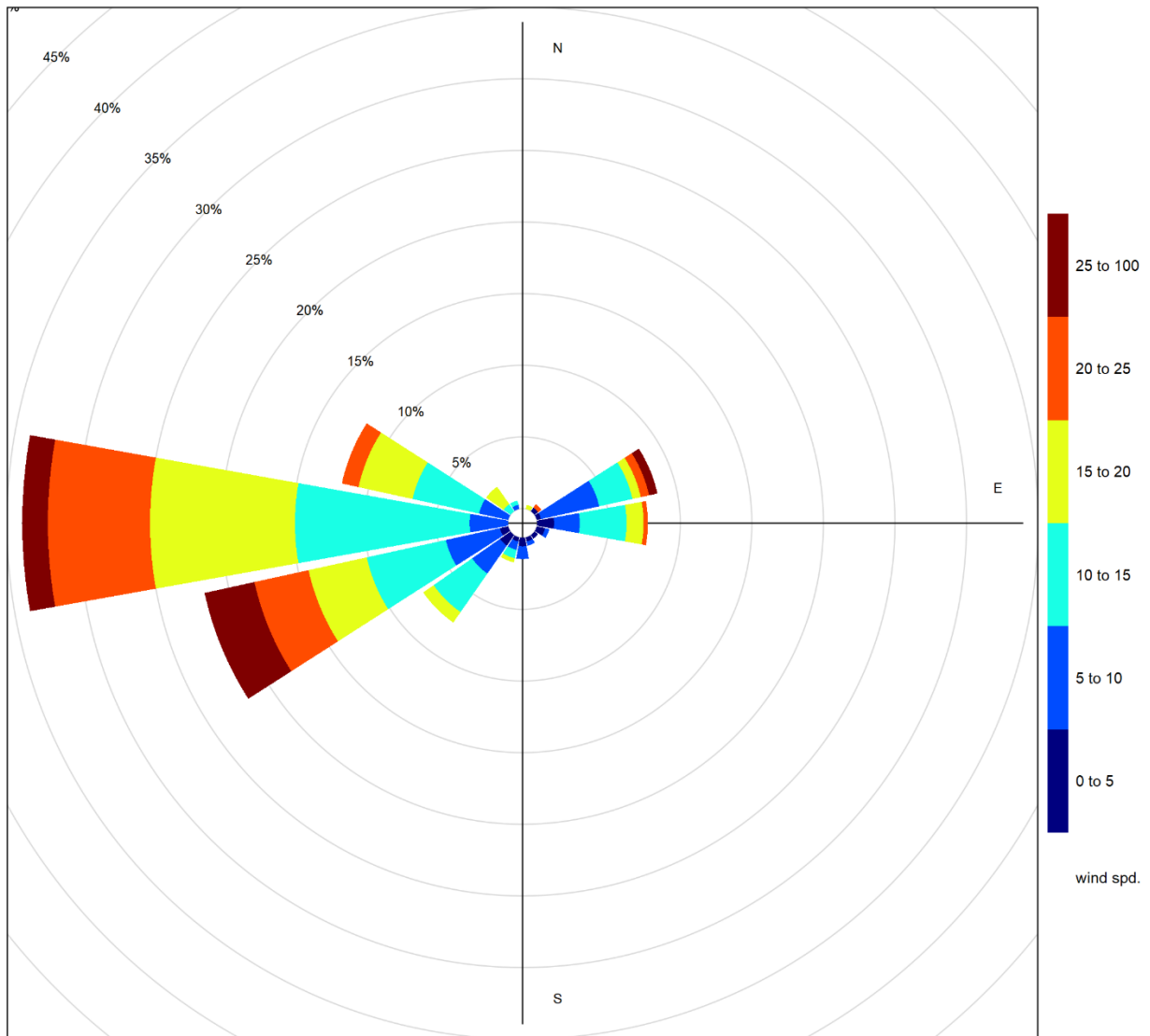


Figure 6-3 Wind rose for TSP exceedance days recorded at the Berm GRIMM

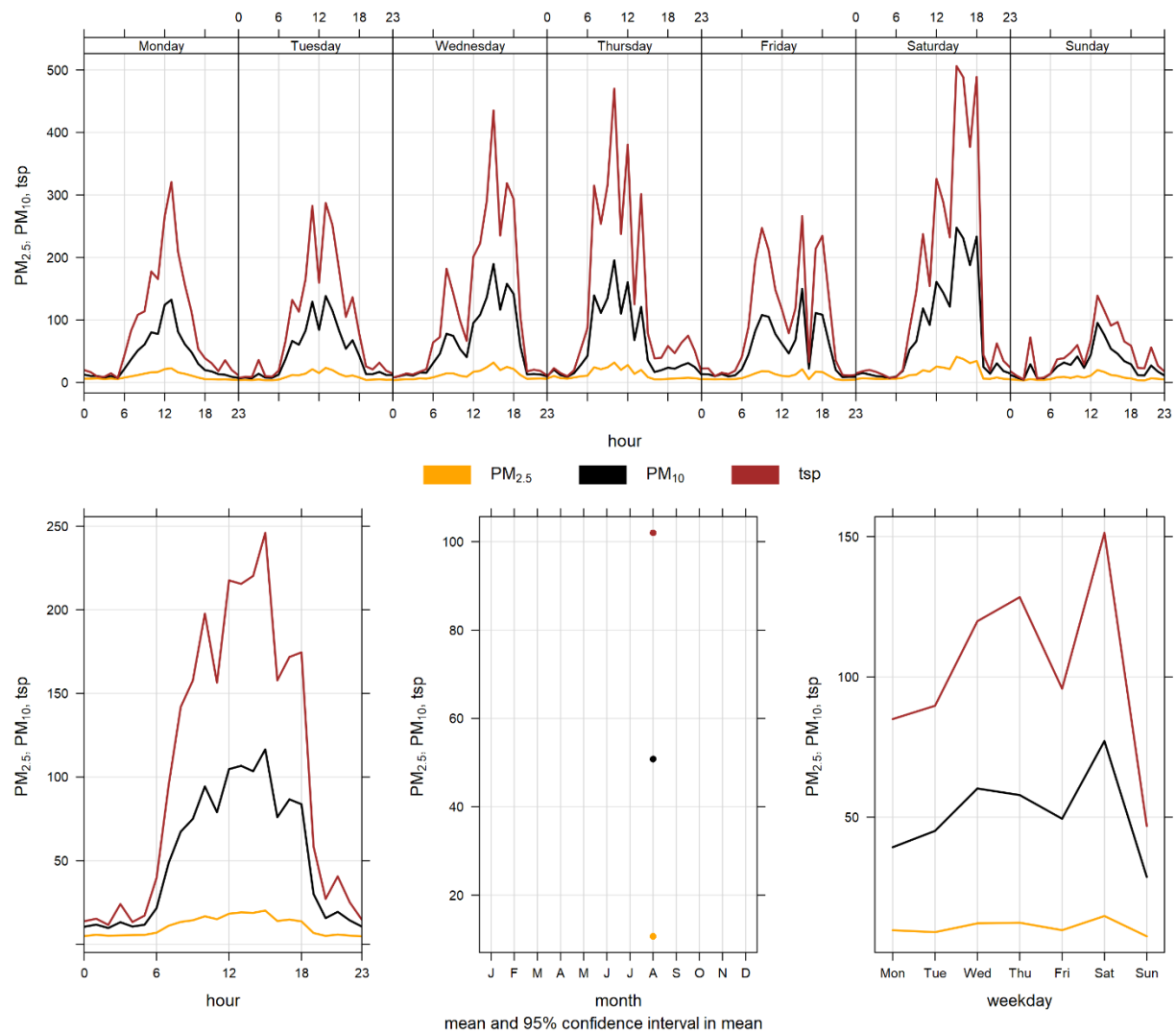


Figure 6-4 Berm particulate matter time variation

7 ENTRANCE INDUSTRIAL GRIMM

7.1 OPERATIONAL SUMMARY

A summary of the station operation for the month is provided in Table 7-1.

Table 7-1 Instrumentation List at the Entrance monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 34% uptime for the month of August due to 491 hours of equipment malfunction that occurred from August 10 th at 9:00 to August 30 th at 19:00.

7.2 MONITORING RESULTS AND TRENDS

The Entrance monitor was placed at its current location as a result of the dispersion modelling conducted for the facility. Figure 7-1 and Figure 7-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 7-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month. Table 7-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

During the month of August, there were 8 and 0 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There was zero hours exceeding the 1-hour PM_{2.5} Guideline.

Historically, the Entrance monitor records an average of 15 and 5 exceedances of the 24-hour TSP and PM_{2.5} guidelines respectively, during the month of August. The maximum number of TSP exceedances recorded during August occurred in 2013, which had 23 days that exceeded the guideline. The minimum number of TSP exceedances recorded during August occurred in 2016 & 2021, which had seven days that exceeded the guideline. The maximum number of PM_{2.5} exceedances recorded during August is 21 days in 2018, as a result of wildfire activity.

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 high wind events. Trucks also pass near to the Entrance monitor as they enter and exit the Lafarge facility for loading and deliveries. 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 7-3 shows the wind rose for the 8 days that exceeded the TSP Guideline. The wind rose show that the winds predominantly came from the westerly directions.

Table 7-2 Summary of August 2022 data at the Entrance GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM_{2.5} (µg/m ³)	80	29	Entrance	0	0	1.5	12.4	45.1	7	8	14.7	306.3	25.5	31	34.0
PM₁₀ (µg/m ³)	-	-	Entrance	-	-	5.0	65.3	310.8	6	9	13.1	302.0	150.1	31	34.0
TSP (µg/m ³)	-	100	Entrance	-	8	8.1	138.1	805.9	6	9	13.1	302.0	307.9	31	34.0

Table 7-3 Days exceeding the Guideline for TSP or PM_{2.5} at the Entrance Monitor

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2022-08-02	117.5	-	262.9	14.0	45.0	Winds predominately from the west
2022-08-03	125.6	-	238.6	12.6	52.4	Winds predominately from the west
2022-08-04	123.4	-	258.9	19.1	60.3	Winds predominately from the west
2022-08-05	110.9	-	35.9	13.0	55.5	Winds predominately from the north
2022-08-06	109.2	-	270.2	15.2	44.5	Winds predominately from the west
2022-08-07	142.3	-	272.7	17.7	32.1	Winds predominantly from the west
2022-08-08	144.2	-	340.5	15.0	38.4	Winds predominantly from the northwest
2022-08-31	307.9	-	263.0	15.3	40.7	Winds predominantly from the west
Total # of Exceedances	8	0				
Maximum # of Exceedances (August)	23 (2013)	21 (2018)				
Average # of Exceedances (August)	15	5				

Minimum # of Exceedances (August)	7 (2016, 2021)	0 (2011, 2016, 2019, 2020)				
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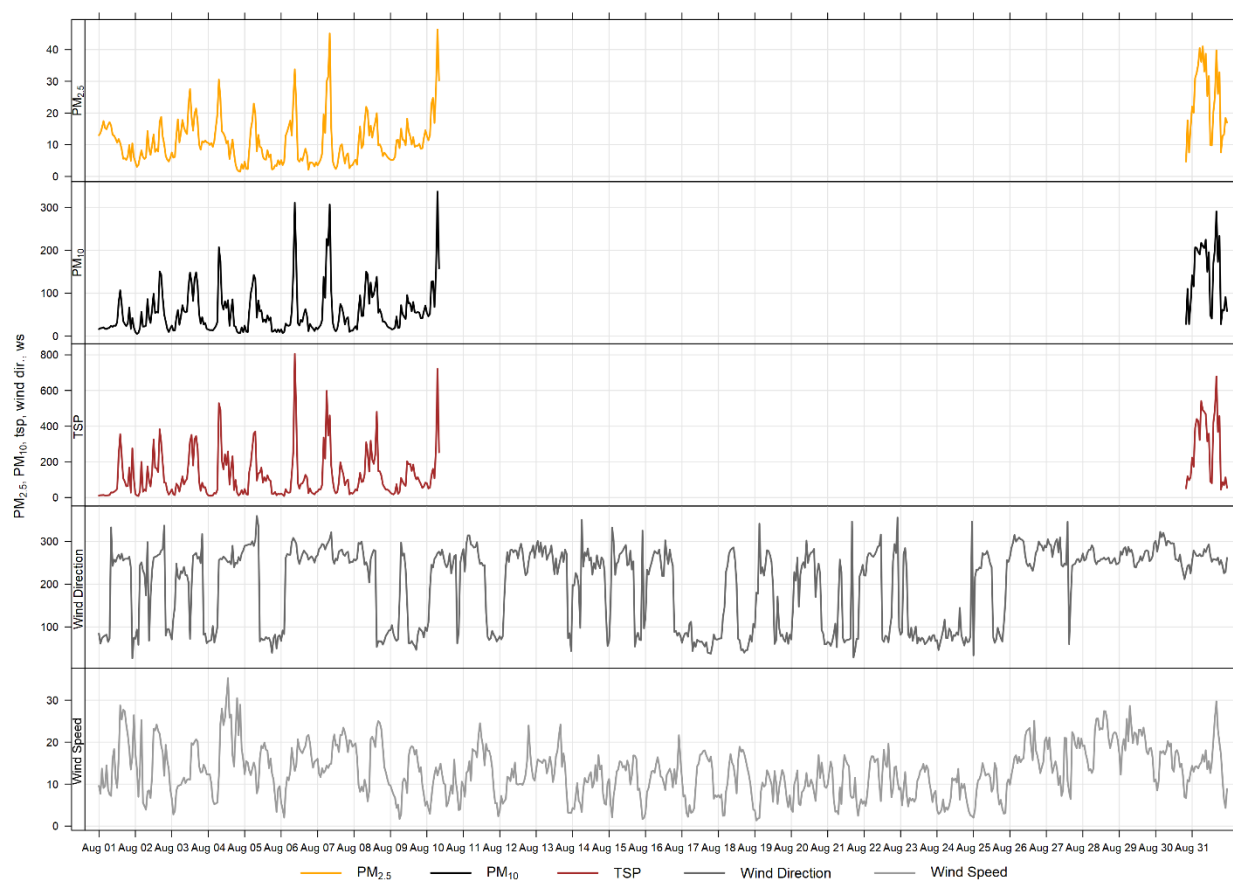


Figure 7-1 1-hour particulate matter concentrations recorded at the Entrance monitor

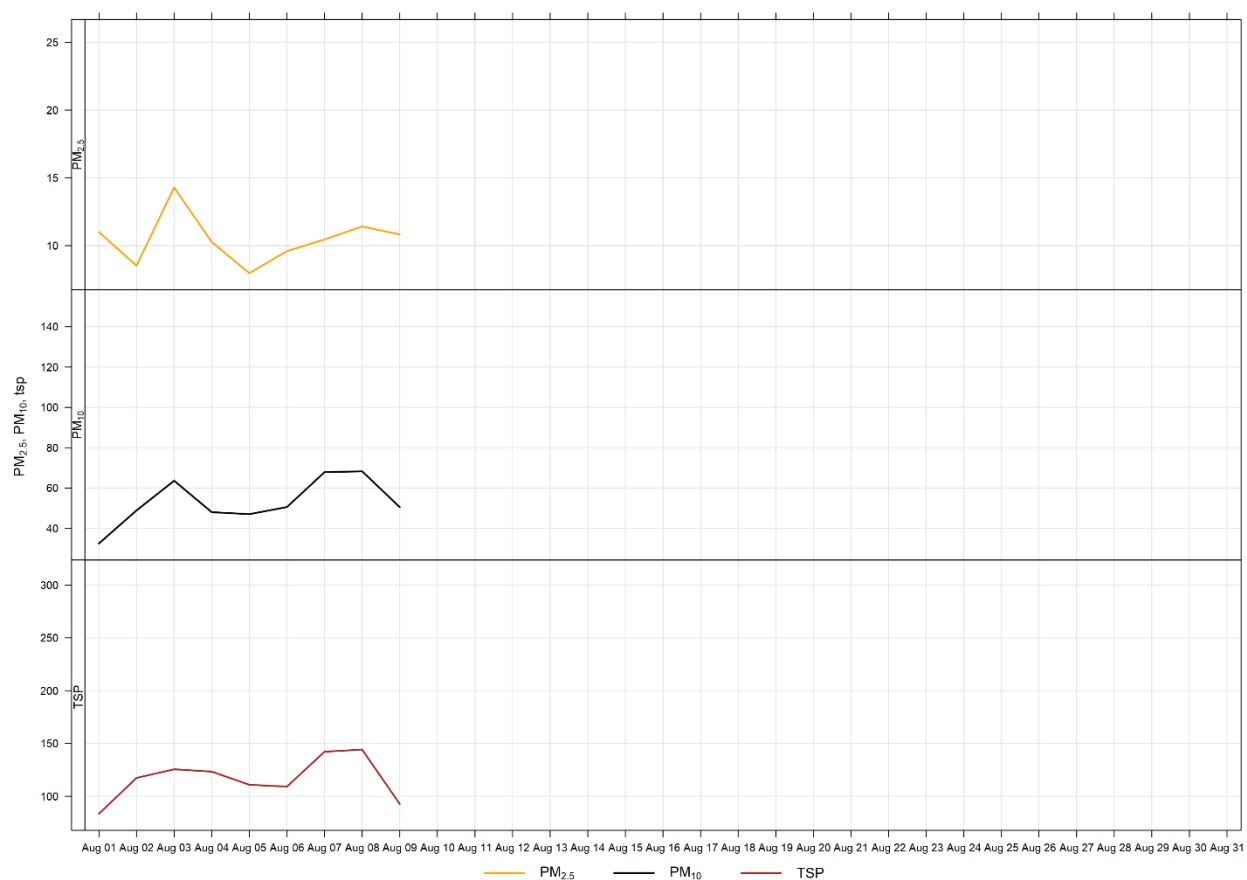


Figure 7-2 24-hour particulate matter concentrations at the Entrance monitor

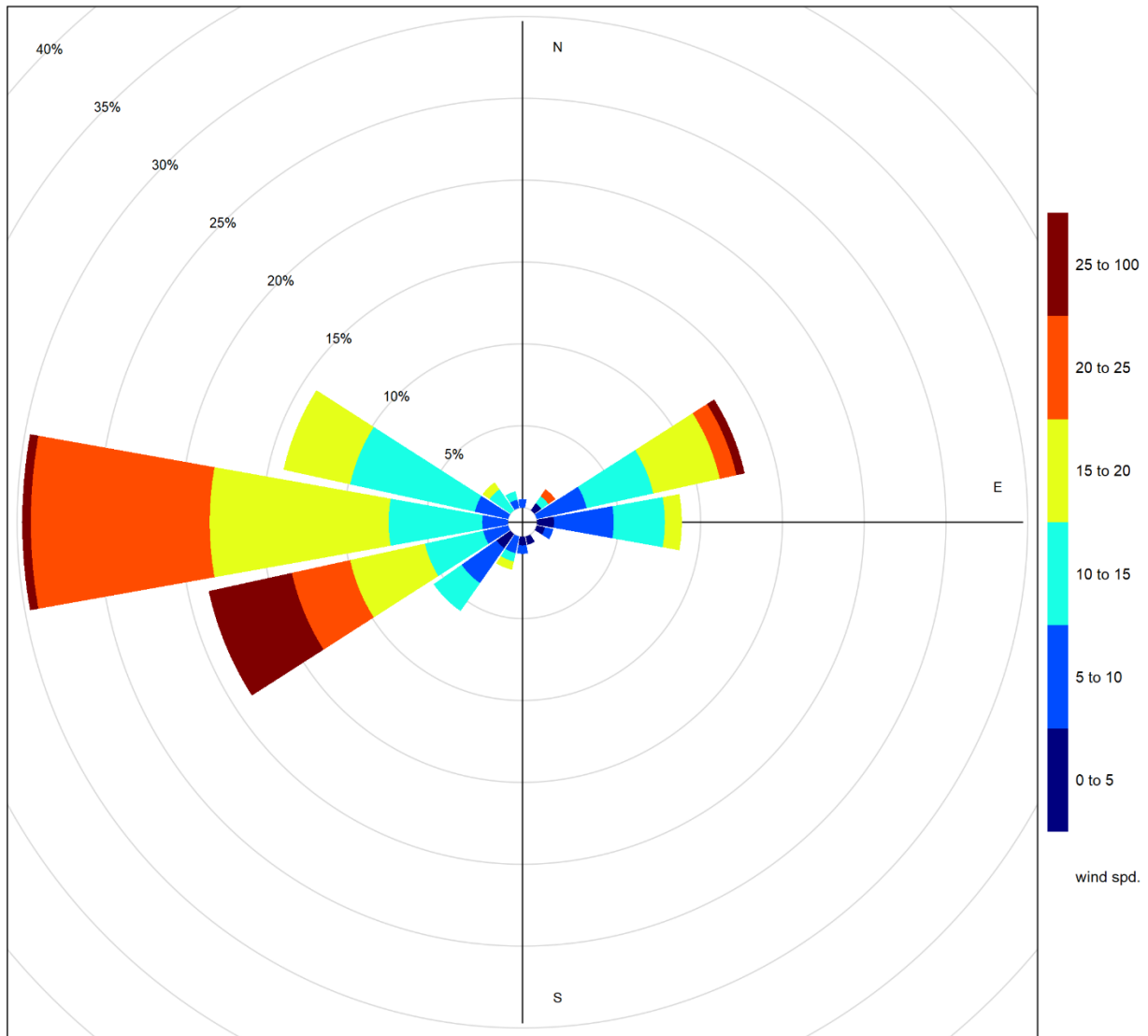


Figure 7-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

Figure 7-4 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 7-4 is based on data collected during August 2022. The diurnal pattern differs from the Windridge, Lagoon and Berm stations and are likely more influenced by daytime traffic emission (from vehicles serving Lafarge as well as regular highway traffic) given its location near the highway entrance to Lafarge.

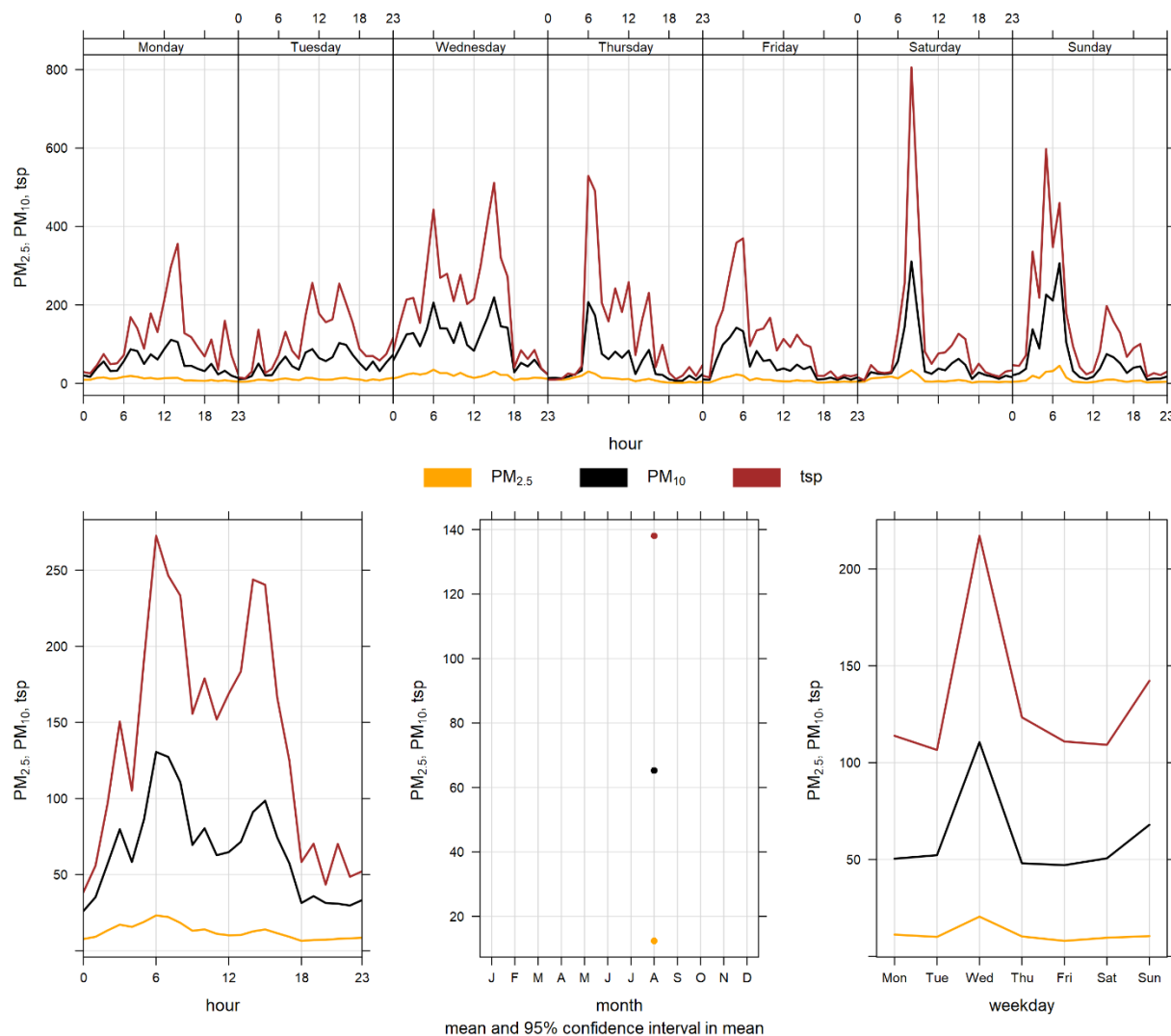


Figure 7-4 Entrance particulate matter time variation

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APPENDIX

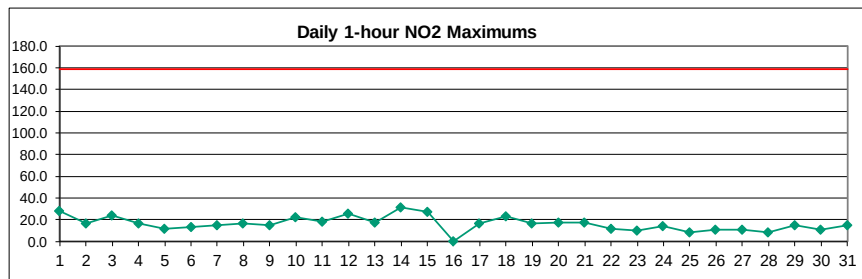
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – August 2022

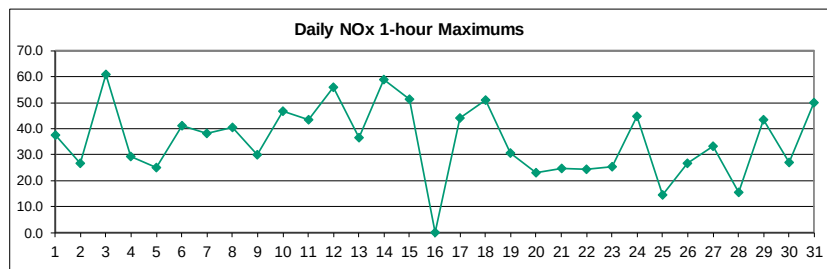
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	17.7	S	4.0	3.4	1.2	7.1	7.0	17.4	16.7	15.3	14.8	17.7	27.5	13.8	20.4	18.9	13.8	17.1	20.3	27.8	12.2	7.2	1.8	5.8	13.4	27.8
2	1.2	S	14.0	10.0	5.6	8.9	11.2	13.2	11.5	9.4	15.5	13.3	13.4	12.1	12.6	13.4	16.3	16.2	15.4	10.0	3.6	2.0	4.2	8.5	10.5	16.3
3	11.6	S	9.4	9.2	11.3	9.4	10.1	13.3	8.7	6.9	10.6	23.7	10.8	13.3	16.2	18.6	7.0	13.2	8.8	3.9	2.7	2.9	11.6	13.7	10.7	23.7
4	7.9	S	16.8	11.2	16.1	13.6	15.9	13.8	8.0	9.4	5.9	2.7	2.2	2.7	2.2	7.8	7.5	5.2	2.6	2.4	1.9	11.2	5.5	6.8	7.8	16.8
5	5.5	S	7.2	4.6	5.4	10.4	6.1	11.4	8.2	4.3	3.2	4.3	2.2	2.2	0.9	2.0	5.5	2.6	2.4	8.7	7.1	3.8	1.3	4.3	4.9	11.4
6	6.7	S	3.5	9.3	8.0	8.8	3.1	2.6	5.6	8.4	5.6	2.1	7.0	12.1	13.5	13.7	10.1	4.1	4.9	8.5	10.6	4.9	6.9	6.7	7.2	13.7
7	3.4	S	6.0	8.9	5.4	5.6	3.5	2.9	3.0	3.8	3.1	5.4	3.5	8.5	11.7	13.2	8.4	7.3	10.2	14.9	2.5	4.0	4.6	5.7	6.3	14.9
8	6.0	S	9.7	13.9	8.1	13.9	9.8	9.1	12.3	10.3	6.3	11.5	13.7	14.9	7.6	5.8	6.5	16.7	5.7	8.2	10.4	4.9	2.1	1.6	9.1	16.7
9	1.4	S	5.0	6.6	9.1	9.4	7.5	14.2	15.4	8.6	14.8	14.3	8.4	9.4	7.4	4.7	2.0	6.3	1.9	1.7	2.1	7.6	8.6	8.3	7.6	15.4
10	7.3	S	9.6	16.6	14.1	14.1	15.6	20.3	13.2	10.5	8.1	5.3	1.8	8.8	6.3	1.7	10.9	6.7	11.7	13.7	22.4	16.3	10.6	10.1	11.1	22.4
11	11.8	S	6.8	4.3	7.1	13.5	12.5	18.4	11.3	7.4	4.1	4.7	3.2	5.1	3.1	0.6	4.5	8.4	9.2	1.4	4.3	6.1	9.1	9.3	7.2	18.4
12	13.6	S	21.0	25.5	12.1	11.6	13.4	14.2	11.3	19.6	16.1	16.6	16.9	6.8	11.7	8.4	0.7	2.9	4.2	8.2	12.0	4.1	6.0	13.5	11.8	25.5
13	4.9	S	6.0	12.1	8.3	5.8	13.3	13.2	17.2	16.0	9.9	3.7	14.8	1.9	1.2	4.2	16.0	3.2	10.5	7.0	4.6	6.9	13.0	9.7	8.9	17.2
14	5.0	S	2.6	3.4	24.8	23.9	11.9	8.1	14.6	13.2	6.1	2.0	6.5	10.3	2.2	5.9	2.5	1.3	10.8	7.9	5.8	5.5	26.3	31.8	10.1	31.8
15	13.3	S	6.6	8.7	9.5	9.6	17.7	14.1	16.7	17.1	13.7	2.6	2.9	12.6	3.1	3.0	8.8	23.8	7.2	13.0	7.7	27.3	21.4	15.9	12.0	27.3
16	9.9	S	8.2	9.8	6.1	9.5	10.5	14.5	9.2	C	C	C	C	C	C	13.8	8.3	3.6	8.2	2.6	3.0	1.7	1.8	9.9	-	-
17	14.2	S	9.9	15.9	16.3	16.6	15.5	14.7	16.1	3.6	5.2	6.2	6.7	6.4	5.4	6.1	5.2	2.2	1.7	5.8	5.9	7.7	14.0	14.9	9.4	16.6
18	8.3	S	14.8	14.4	11.6	16.5	17.1	18.6	15.5	16.9	9.3	6.5	15.4	5.9	3.8	4.8	5.0	7.4	4.0	5.4	4.8	20.8	22.9	7.0	11.2	22.9
19	8.3	S	16.6	16.6	16.2	16.2	12.3	10.6	9.8	14.3	8.2	10.0	15.6	4.1	5.2	2.6	1.0	0.8	0.9	9.7	6.5	10.7	15.3	14.3	9.8	16.6
20	9.7	S	8.5	6.7	6.6	8.1	10.8	10.1	10.2	7.3	9.9	4.3	6.7	5.6	4.0	2.0	1.0	1.3	1.9	1.1	1.5	7.2	8.5	17.1	6.5	17.1
21	17.1	S	13.1	15.2	14.9	6.6	5.1	11.1	11.1	13.3	5.2	5.4	3.5	8.7	6.3	11.2	8.0	7.0	10.3	4.1	5.0	7.3	8.3	5.4	8.8	17.1
22	4.2	S	4.1	4.0	3.5	3.0	3.9	3.2	2.7	2.4	3.8	5.2	3.0	1.8	4.5	11.5	6.9	4.2	4.4	3.8	1.6	4.3	2.4	1.7	3.9	11.5
23	1.0	S	4.0	2.3	2.4	6.6	5.8	8.1	8.1	6.8	10.4	4.7	6.0	2.5	1.9	3.4	7.6	8.6	1.8	10.3	3.3	7.4	7.8	6.3	5.5	10.4
24	3.8	S	4.6	7.6	9.5	8.4	9.4	10.3	14.2	4.3	2.5	2.2	3.4	3.0	3.6	2.6	5.7	4.4	6.4	10.4	3.6	3.5	3.9	3.3	5.7	14.2
25	3.5	S	5.6	4.7	3.7	5.3	5.6	4.6	4.4	6.1	5.6	4.1	7.9	5.9	8.6	1.3	2.3	7.1	8.0	6.6	6.5	7.0	7.6	5.9	5.6	8.6
26	6.8	S	4.1	7.2	6.4	6.8	4.2	7.8	10.7	5.6	1.8	1.6	0.9	1.4	1.6	4.8	5.6	9.8	10.3	9.0	6.0	8.2	7.9	8.6	6.0	10.7
27	3.6	S	9.8	7.8	5.7	4.0	3.6	5.3	4.9	4.9	1.9	1.9	5.1	10.0	10.5	1.6	1.1	1.4	6.4	5.7	2.5	2.0	2.9	4.7	10.5	4.7
28	2.3	S	3.1	2.1	3.9	2.7	8.6	4.0	2.7	2.3	1.5	3.1	6.1	2.9	1.9	2.6	5.4	3.3	1.5	3.1	7.5	4.6	3.4	5.8	3.7	8.6
29	7.9	S	7.8	8.3	2.7	6.2	5.3	10.4	7.2	0.8	1.1	2.4	2.9	6.2	3.6	8.6	12.0	14.8	13.9	3.7	5.1	5.0	4.8	11.4	6.6	14.8
30	8.3	S	3.4	5.1	4.3	4.2	6.1	4.7	5.5	6.6	6.4	10.2	3.1	1.2	1.4	11.3	4.0	1.1	6.7	2.6	1.1	8.6	10.0	11.0	5.5	11.3
31	5.1	S	7.8	7.7	6.6	8.5	9.8	8.0	9.4	10.8	8.7	6.5	3.7	6.4	6.9	6.5	11.1	5.6	4.4	2.9	2.5	15.1	8.7	10.7	7.5	15.1
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	31	31	707	100.0%
MEAN	7.5	-	8.2	9.1	8.6	9.5	9.4	10.7	10.2	8.9	7.4	6.8	7.4	6.7	6.3	7.3	6.8	7.0	6.8	7.2	5.8	7.6	8.5	9.3		
MAX	17.7	-	21.0	25.5	24.8	23.9	17.7	20.3	17.2	19.6	16.1	23.7	27.5	14.9	20.4	18.9	16.3	23.8	20.3	27.8	22.4	27.3	26.3	31.8		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	707
Maximum 1-HR Average	31.8 PPB
Maximum 24-HR Average	13.4 PPB
Monthly Calibration	6
Standard Deviation	5.1
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	8.0 PPB

Lagoon NOx (ppb) – August 2022

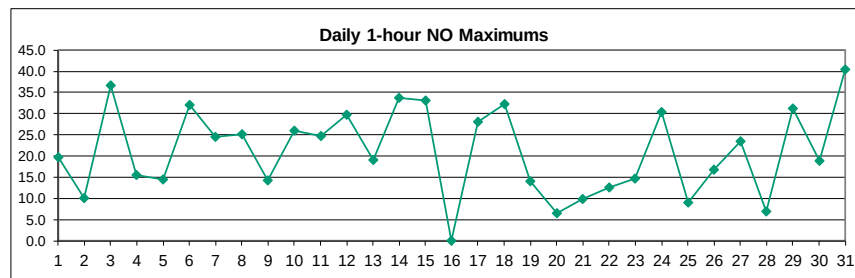
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	24.1	S	4.5	3.8	1.4	10.9	10.7	37.4	21.8	17.6	16.4	20.4	35.1	15.6	23.3	20.6	15.1	19.1	22.3	30.7	13.0	8.9	2.2	6.8	16.6	37.4
2	1.3	S	14.7	10.9	6.0	9.6	12.3	14.7	13.7	12.8	24.0	22.7	22.7	22.4	23.0	22.8	26.0	26.6	23.2	12.0	3.8	2.1	4.5	8.9	14.8	26.6
3	12.4	S	9.8	9.5	11.7	10.2	11.9	18.6	12.3	9.5	20.7	60.8	19.3	25.3	40.6	42.7	12.1	23.8	13.9	4.7	3.2	3.2	15.0	16.2	17.7	60.8
4	8.6	S	20.9	11.8	26.0	29.5	24.4	24.1	11.9	14.5	10.7	4.1	4.1	4.2	4.1	17.2	12.0	11.2	4.3	3.0	2.5	19.0	6.6	8.9	12.3	29.5
5	9.4	S	11.8	7.1	10.7	25.2	14.6	23.0	15.7	8.6	7.2	9.2	4.4	4.3	1.7	3.6	10.9	4.0	3.6	13.8	11.0	4.7	1.7	4.7	9.2	25.2
6	7.5	S	4.1	29.6	21.6	41.0	8.9	5.6	17.5	22.2	11.0	3.5	13.5	29.0	30.7	30.5	17.9	6.1	9.5	13.8	13.7	5.5	9.4	7.7	15.6	41.0
7	4.4	S	9.0	16.9	10.9	14.1	6.2	6.9	6.2	7.6	7.7	12.3	8.9	25.5	31.5	38.1	19.4	16.4	24.4	30.4	3.4	5.0	5.5	8.7	13.9	38.1
8	8.5	S	15.9	23.2	14.2	20.6	17.8	15.9	26.9	19.6	13.6	24.1	31.0	40.4	14.5	10.3	12.6	33.4	8.9	9.5	11.3	5.4	2.6	2.1	16.6	40.4
9	1.8	S	5.5	7.4	10.2	10.8	13.3	26.2	29.9	13.3	25.0	22.8	14.5	16.0	11.6	6.9	2.9	7.8	2.4	2.1	2.4	8.0	9.0	9.7	11.3	29.9
10	7.8	S	9.9	19.2	21.0	20.4	26.6	46.7	22.2	16.9	11.2	7.1	2.4	13.7	8.8	2.1	13.4	8.2	21.9	19.0	24.2	17.1	12.5	12.2	15.8	46.7
11	13.9	S	10.6	6.4	10.2	28.2	25.7	43.6	19.4	12.3	5.7	6.7	5.2	7.5	4.4	0.9	7.1	15.0	14.6	1.7	4.6	6.4	9.8	11.5	11.8	43.6
12	21.7	S	35.3	55.8	14.3	15.9	22.9	32.2	20.2	46.0	31.4	29.1	27.9	9.4	20.8	13.3	0.9	4.4	5.3	10.5	15.3	5.0	7.3	22.6	20.3	55.8
13	8.3	S	8.3	21.6	13.6	9.7	22.7	27.4	36.6	32.4	15.2	4.9	26.8	2.3	1.7	6.4	23.9	3.9	15.0	8.5	4.8	7.5	14.0	10.3	14.2	36.6
14	5.3	S	2.9	3.7	59.0	44.7	16.8	12.2	32.3	31.5	8.7	2.6	9.3	18.3	3.2	9.7	3.8	1.8	18.3	9.4	6.0	5.8	31.4	36.5	16.2	59.0
15	13.9	S	7.1	9.7	15.0	12.2	51.2	36.5	45.3	39.9	26.8	3.5	4.1	26.0	4.5	4.6	14.5	35.2	7.8	15.0	8.1	33.0	24.0	18.3	19.8	51.2
16	10.9	S	9.2	11.9	6.6	22.9	25.5	47.2	21.8	C	C	C	C	C	C	34.0	13.4	5.2	12.5	3.3	3.7	2.3	2.4	11.8	-	-
17	17.0	S	12.3	34.8	28.2	32.5	31.0	24.7	44.2	5.8	8.9	9.7	11.4	10.0	7.9	8.3	7.1	3.1	2.7	7.7	6.4	9.5	14.8	15.8	15.4	44.2
18	9.1	S	21.0	23.1	12.4	25.3	34.7	50.9	35.0	35.1	15.4	8.7	24.8	7.8	6.4	6.9	7.4	10.6	5.1	6.8	5.5	26.4	24.3	7.6	17.8	50.9
19	9.6	S	30.8	19.0	20.4	17.5	16.2	17.1	14.0	22.7	10.8	13.1	20.1	5.1	6.7	3.3	1.6	1.2	1.4	12.8	7.1	18.4	17.4	16.1	13.1	30.8
20	10.3	S	9.2	7.7	7.3	8.6	17.4	12.5	12.6	9.0	12.3	5.5	9.8	7.1	4.9	2.7	1.7	2.1	2.6	1.7	2.0	8.0	9.2	23.0	8.1	23.0
21	24.3	S	16.0	19.4	24.7	8.5	6.6	16.5	16.3	22.5	7.8	8.4	4.8	12.3	8.6	16.9	10.7	13.8	18.2	6.0	5.9	8.6	10.3	6.1	12.7	24.7
22	5.2	S	5.7	8.2	9.2	6.3	11.0	7.7	12.4	6.3	8.1	9.7	5.4	2.7	6.7	24.3	8.7	5.2	5.4	6.3	2.3	7.6	2.9	2.4	7.4	24.3
23	1.5	S	5.9	3.2	3.3	8.9	8.7	17.4	16.2	12.1	25.4	10.9	11.2	4.1	3.0	5.2	13.2	13.1	2.6	14.1	3.9	8.7	10.6	7.0	9.1	25.4
24	4.4	S	6.9	23.2	17.6	15.0	26.6	25.2	44.6	6.6	3.7	3.3	5.1	4.5	5.5	3.9	8.3	6.5	11.0	13.9	4.4	4.4	4.9	4.4	11.0	44.6
25	8.2	S	7.3	6.5	5.2	12.6	12.7	13.7	11.0	13.6	12.5	7.0	12.4	9.4	14.7	2.1	3.4	10.0	10.2	9.7	13.3	8.6	8.7	7.3	9.6	14.7
26	10.1	S	7.6	13.3	11.4	16.4	8.4	21.2	26.6	13.0	3.1	2.9	1.8	2.6	2.8	8.2	9.8	22.1	24.8	16.5	10.7	20.6	20.6	25.5	13.0	26.6
27	7.4	S	33.3	15.4	10.8	9.7	10.7	8.9	11.0	9.8	7.1	2.8	3.3	7.2	15.0	16.6	3.0	2.0	2.3	9.3	7.9	3.8	3.1	4.2	8.9	33.3
28	3.4	S	5.3	3.0	7.7	4.3	15.5	7.2	6.6	4.8	3.2	6.4	12.8	6.1	4.4	5.4	12.4	6.3	2.5	5.6	13.2	8.3	4.3	9.9	6.9	15.5
29	12.5	S	15.0	14.7	4.4	16.6	10.3	24.3	18.7	1.8	2.3	4.8	6.5	15.8	8.3	24.7	43.4	43.6	38.9	6.2	7.2	7.3	6.6	27.4	15.7	43.6
30	16.5	S	6.3	10.6	6.5	6.7	25.0	15.0	17.3	19.3	22.7	26.3	5.4	2.6	3.1	27.2	8.7	2.3	12.1	3.6	1.7	9.3	12.1	22.1	12.3	27.2
31	8.8	S	20.7	22.1	14.4	25.3	40.8	32.5	49.9	36.3	29.1	11.9	5.8	10.2	11.2	11.4	17.1	8.1	5.6	3.6	3.6	22.8	10.7	12.1	18.0	49.9
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	707	100.0%
MEAN	9.9	-	12.3	15.2	14.1	17.4	18.9	23.0	22.3	17.4	13.6	12.2	12.3	12.2	11.1	13.9	11.7	12.0	11.4	10.0	7.3	10.0	10.3	12.5		
MAX	24.3	-	35.3	55.8	59.0	44.7	51.2	50.9	49.9	46.0	31.4	60.8	35.1	40.4	40.6	42.7	43.4	43.6	38.9	30.7	24.2	33.0	31.4	36.5		



Number of Non-Zero Readings	707
Maximum 1-HR Average	60.8 PPB
Maximum 24-HR Average	20.3 PPB
Monthly Calibration	6
Standard Deviation	10.25
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	13.5 PPB

Lagoon NO (ppb) – August 2022

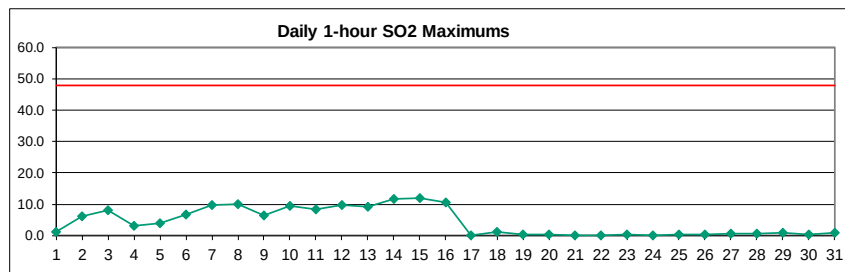
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.0	S	0.3	0.2	0.0	3.6	3.5	19.7	4.8	2.0	1.4	2.5	7.2	1.6	2.6	1.5	1.0	1.7	1.7	2.5	0.6	1.4	0.2	0.8	2.9	19.7
2	0.0	S	0.6	0.8	0.3	0.6	0.8	1.2	2.0	3.2	8.2	9.2	9.0	10.1	10.2	9.2	9.4	10.2	7.5	1.8	0.1	0.0	0.1	0.3	4.1	10.2
3	0.7	S	0.3	0.2	0.3	0.7	1.6	5.1	3.4	2.5	9.9	36.7	8.2	11.8	24.2	23.8	4.9	10.3	4.8	0.6	0.3	0.1	3.2	2.2	6.8	36.7
4	0.6	S	3.9	0.5	9.6	15.6	8.4	10.1	3.6	4.9	4.5	1.2	1.7	1.3	1.8	9.2	4.3	5.8	1.6	0.4	0.4	7.6	0.9	2.0	4.3	15.6
5	3.6	S	4.4	2.3	5.1	14.5	8.3	11.3	7.4	4.1	3.7	4.7	2.0	1.9	0.7	1.5	5.2	1.3	1.0	4.8	3.8	0.7	0.2	0.3	4.0	14.5
6	0.6	S	0.4	20.1	13.3	32.0	5.6	2.7	11.7	13.6	5.2	1.1	6.3	16.7	16.9	16.5	7.6	1.8	4.3	5.1	3.0	0.4	2.3	0.9	8.2	32.0
7	0.8	S	2.8	7.8	5.4	8.3	2.5	3.7	3.0	3.6	4.3	6.6	5.1	16.8	19.5	24.6	10.7	8.9	13.9	15.2	0.6	0.8	0.7	2.8	7.3	24.6
8	2.4	S	6.1	9.1	6.0	6.5	7.8	6.6	14.3	9.1	7.0	12.4	17.0	25.2	6.6	4.3	5.9	16.3	3.0	1.2	0.7	0.4	0.3	0.3	7.3	25.2
9	0.2	S	0.3	0.7	1.0	1.3	5.7	11.7	14.2	4.5	9.9	8.2	5.8	6.3	3.9	1.9	0.7	1.3	0.2	0.2	0.2	0.3	0.3	1.3	3.5	14.2
10	0.4	S	0.2	2.3	6.7	6.0	10.7	26.1	8.8	6.2	2.9	1.6	0.5	4.6	2.3	0.2	2.2	1.3	9.9	5.0	1.6	0.6	1.8	1.9	4.5	26.1
11	1.9	S	3.6	1.8	2.9	14.4	13.0	24.7	7.9	4.7	1.3	1.8	1.8	2.1	1.0	0.2	2.4	6.4	5.1	0.2	0.2	0.2	0.6	2.1	4.4	24.7
12	7.8	S	14.0	29.9	2.0	4.1	9.2	17.7	8.6	26.1	15.0	12.2	10.7	2.4	8.8	4.6	0.1	1.2	0.9	2.1	3.1	0.7	1.1	8.8	8.3	29.9
13	3.1	S	2.1	9.2	5.1	3.7	9.2	14.0	19.0	16.0	5.1	1.0	11.7	0.2	0.2	1.9	7.7	0.5	4.3	1.3	0.1	0.4	0.8	0.4	5.1	19.0
14	0.1	S	0.1	0.1	33.7	20.4	4.6	3.9	17.4	18.0	2.4	0.4	2.6	7.7	0.8	3.6	1.1	0.3	7.3	1.3	0.1	0.2	4.8	4.4	5.9	33.7
15	0.5	S	0.4	0.9	5.4	2.4	33.2	22.1	28.2	22.4	12.8	0.7	1.0	13.0	1.2	1.4	5.4	11.0	0.5	1.8	0.3	5.3	2.3	2.1	7.6	33.2
16	0.8	S	0.9	1.9	0.4	13.2	14.8	32.4	12.4	C	C	C	C	C	C	20.3	5.1	1.6	4.3	0.7	0.7	0.6	0.7	1.9	-	-
17	2.8	S	2.4	18.8	11.9	15.8	15.5	9.9	28.0	2.2	3.7	3.6	4.7	3.6	2.5	2.3	1.9	0.8	1.0	1.9	0.6	1.9	0.9	0.8	6.0	28.0
18	0.8	S	6.2	8.7	0.8	8.8	17.5	32.2	19.4	18.2	6.1	2.3	9.4	1.9	2.5	2.1	2.4	3.2	1.2	1.4	0.7	5.5	1.4	0.7	6.7	32.2
19	1.4	S	14.0	2.4	4.2	1.2	3.9	6.6	4.2	8.4	2.6	3.1	4.5	1.0	1.4	0.8	0.6	0.5	0.5	3.2	0.6	7.7	2.1	1.8	3.3	14.0
20	0.7	S	0.8	1.0	0.7	0.6	6.5	2.5	2.5	1.7	2.4	1.2	3.1	1.5	0.9	0.7	0.6	0.7	0.7	0.6	0.5	0.9	0.7	5.8	1.6	6.5
21	7.1	S	2.9	4.2	9.8	1.9	1.5	5.4	5.3	9.3	2.6	3.0	1.4	3.6	2.2	5.6	2.6	6.7	7.8	1.8	0.9	1.3	2.0	0.7	3.9	9.8
22	0.9	S	1.6	4.2	5.5	3.2	7.0	4.3	9.6	3.8	4.2	4.4	2.2	0.8	2.1	12.6	1.7	1.0	0.9	2.4	0.6	3.3	0.5	0.6	3.4	12.6
23	0.5	S	1.8	0.8	0.8	2.3	2.8	9.2	8.0	5.2	14.8	6.1	5.1	1.5	1.0	1.7	5.5	4.3	0.7	3.7	0.6	1.3	2.7	0.7	3.5	14.8
24	0.6	S	2.1	15.5	8.1	6.6	17.1	14.8	30.3	2.3	1.1	1.0	1.7	1.4	1.7	1.3	2.5	2.0	4.4	3.5	0.7	0.8	0.9	0.9	5.3	30.3
25	4.7	S	1.7	1.7	1.5	7.2	7.1	9.0	6.4	7.4	6.9	2.8	4.4	3.4	5.9	0.7	0.9	2.8	2.1	3.0	6.7	1.6	1.1	1.3	3.9	9.0
26	3.2	S	3.4	6.0	4.9	9.5	4.1	13.2	15.8	7.4	1.1	1.1	0.8	1.1	1.0	3.2	4.2	12.2	14.3	7.4	4.6	12.3	12.6	16.8	7.0	16.8
27	3.6	S	23.4	7.5	5.0	5.6	7.0	3.5	5.6	4.8	2.1	0.9	1.3	2.0	4.9	6.0	1.3	0.8	0.8	2.8	2.1	1.2	0.9	1.1	4.1	23.4
28	1.0	S	2.1	0.8	3.6	1.4	6.9	3.0	3.8	2.4	1.6	3.2	6.5	3.1	2.4	2.7	7.0	2.8	0.9	2.4	5.6	3.5	0.8	4.0	3.1	7.0
29	4.5	S	7.2	6.4	1.6	10.4	4.9	13.8	11.4	0.9	1.1	2.3	3.6	9.6	4.6	16.0	31.2	28.5	24.9	2.4	2.0	2.3	1.7	15.9	9.0	31.2
30	8.3	S	2.7	5.5	2.1	2.5	18.8	10.3	11.8	12.7	16.2	16.0	2.3	1.2	1.6	15.7	4.7	1.1	5.3	1.0	0.7	0.7	2.0	11.1	6.7	18.8
31	3.6	S	12.8	14.4	7.8	16.8	30.8	24.4	40.3	25.4	20.3	5.4	2.1	3.7	4.3	4.7	5.9	2.4	1.0	0.7	1.0	7.6	2.0	1.3	10.4	40.3
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	707	100.0%
MEAN	2.4	-	4.1	6.0	5.3	7.8	9.4	12.1	11.9	8.4	6.0	5.2	4.8	5.4	4.7	6.5	4.7	4.8	4.4	2.7	1.4	2.3	1.7	3.1		
MAX	8.3	-	23.4	29.9	33.7	32.0	33.2	32.4	40.3	26.1	20.3	36.7	17.0	25.2	24.2	24.6	31.2	28.5	24.9	15.2	6.7	12.3	12.6	16.8		



Number of Non-Zero Readings	704		
Maximum 1-HR Average	40.3 PPB		
Maximum 24-HR Average	10.4 PPB		
Monthly Calibration	6	Operational Time	744 HRS
Standard Deviation	6.507	Operational Uptime	100.0 %
		Monthly Average	5.4 PPB

Lagoon SO₂ (ppb) – August 2022

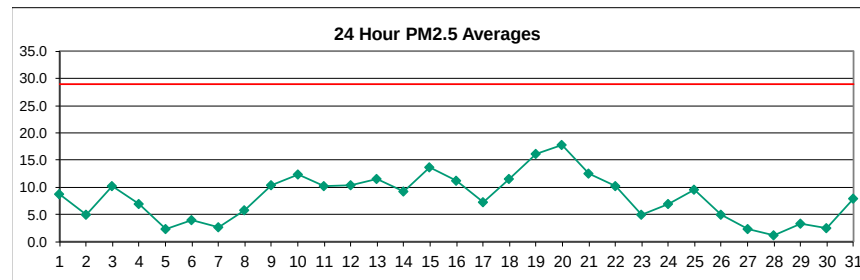
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	S	0.4	0.4	0.0	0.0	0.2	0.3	0.3	0.7	0.9	0.4	0.5	0.7	0.9	0.4	0.7	0.8	0.3	1.1	0.5	0.1	0.5	0.4	0.5	1.1
2	0.2	S	0.2	0.0	0.3	0.4	0.5	0.0	0.0	0.4	1.8	1.6	2.2	2.2	2.6	3.1	5.3	6.1	3.6	1.1	0.5	0.5	0.2	0.1	1.4	6.1
3	0.3	S	0.3	0.3	0.0	1.0	0.8	0.1	0.2	0.3	1.4	2.9	1.2	2.6	8.1	6.6	1.6	3.7	1.3	0.3	0.8	1.2	0.8	1.1	1.6	8.1
4	0.8	S	0.5	0.8	0.9	1.1	1.6	3.1	2.2	2.9	1.6	0.7	0.9	0.6	0.6	0.2	0.8	1.3	1.0	0.5	0.1	2.2	0.4	0.3	1.1	3.1
5	0.7	S	1.6	1.3	1.5	3.9	2.1	1.4	0.9	0.1	0.5	0.6	0.4	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	3.9
6	0.5	S	0.0	1.7	1.5	6.7	1.4	0.8	2.2	4.2	0.8	0.1	1.1	5.5	5.6	6.6	3.0	1.0	1.4	0.1	1.2	0.0	0.0	0.1	2.0	6.7
7	0.2	S	1.4	2.7	1.7	3.4	0.5	0.7	0.3	0.4	0.9	2.3	1.7	7.3	7.6	9.9	4.2	4.1	7.6	8.0	0.7	0.7	0.5	0.2	2.9	9.9
8	0.2	S	1.7	2.7	1.4	4.4	0.9	0.6	2.7	2.3	2.6	4.8	8.9	10.1	2.4	0.8	0.4	1.1	0.7	0.3	1.1	0.2	0.7	0.0	2.2	10.1
9	0.4	S	0.4	0.1	0.3	0.0	0.0	1.1	3.9	1.7	6.4	1.6	0.4	0.9	0.6	0.7	0.0	0.2	0.2	0.1	0.5	0.1	0.4	0.1	0.9	6.4
10	0.0	S	0.0	0.6	2.2	2.5	4.6	9.5	1.5	2.4	0.9	1.2	0.3	3.8	1.5	0.2	0.3	0.3	0.4	0.7	0.0	0.5	0.0	1.7	1.5	9.5
11	3.4	S	2.9	2.1	2.1	7.3	3.7	8.3	2.9	1.4	0.0	0.2	0.5	1.3	1.3	0.5	0.6	0.4	0.4	0.0	0.3	0.0	0.2	0.0	1.7	8.3
12	0.0	S	0.4	0.3	0.8	0.4	1.1	4.5	2.4	8.6	5.3	7.8	9.8	3.3	4.1	2.0	0.4	0.8	1.4	1.3	0.7	0.9	0.5	5.3	2.7	9.8
13	0.4	S	1.9	3.0	2.9	1.0	3.8	6.8	9.2	7.6	2.0	0.3	7.2	0.3	0.5	1.8	7.3	0.2	2.5	2.1	0.6	0.1	0.6	0.0	2.7	9.2
14	0.0	S	0.0	0.0	0.6	0.4	0.5	2.6	8.4	11.7	1.9	0.0	3.4	6.5	0.8	2.3	2.9	0.2	2.2	0.9	0.3	0.3	0.6	0.4	2.0	11.7
15	0.2	S	0.1	0.0	1.1	1.1	11.9	6.7	10.3	9.2	7.2	0.0	0.4	7.0	1.3	0.7	5.5	1.6	1.1	0.6	0.4	0.7	0.2	0.1	2.9	11.9
16	0.3	S	0.3	0.9	0.7	0.4	2.3	10.7	2.9	C	C	C	C	C	0.2	1.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	10.7
17	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	0.1	0.0	0.0	0.1
18	0.0	S	0.0	0.0	0.0	0.0	0.8	1.3	0.6	1.1	0.0	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3
19	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.3
20	0.0	S	0.0	0.2	0.2	0.3	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	0.4	0.0	0.0	0.0	0.0	0.1	0.4
21	0.1	S	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
24	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
25	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.4
26	0.0	S	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.3
27	0.3	S	0.5	0.4	0.2	0.4	0.0	0.2	0.1	0.4	0.2	0.2	0.7	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.7
28	0.0	S	0.5	0.4	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
29	0.0	S	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.4	1.0	0.4	0.3	0.0	0.0	0.1	0.1	1.0
30	0.4	S	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
31	0.0	S	0.4	0.2	0.0	0.1	0.6	0.9	0.9	0.4	0.3	0.3	0.6	0.2	0.2	0.0	0.7	0.1	0.1	0.0	0.0	0.4	0.0	0.2	0.3	0.9
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	708	100.0%
MEAN	0.3	-	0.4	0.6	0.6	1.1	1.2	1.9	1.7	1.9	1.2	0.9	1.4	1.8	1.2	1.2	1.1	0.7	0.8	0.6	0.3	0.3	0.2	0.3		
MAX	3.4	-	2.9	3.0	2.9	7.3	11.9	10.7	10.3	11.7	7.2	7.8	9.8	10.1	8.1	9.9	7.3	6.1	7.6	8.0	1.2	2.2	0.8	5.3		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	419
Maximum 1-HR Average	11.9 PPB
Maximum 24-HR Average	2.9 PPB
Monthly Calibration	5
Standard Deviation	1.931
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	0.9 PPB

Lagoon PM_{2.5} (µg/m³) – August 2022

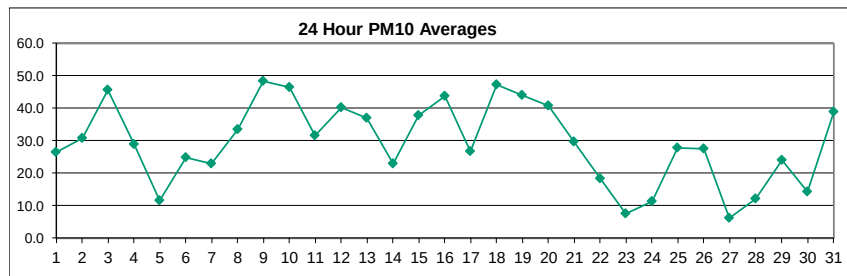
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	7.9	13.0	12.1	15.1	14.5	9.0	9.0	12.1	16.4	13.0	12.9	13.5	15.2	8.6	7.7	9.2	5.7	2.9	1.6	2.6	2.5	0.8	2.0	3.7	8.8	16.4
2	3.4	4.0	3.7	3.6	2.5	1.2	3.0	3.7	4.3	C	C	C	C	8.6	5.5	4.7	5.2	8.7	9.8	9.4	6.1	3.0	4.4	4.7	5.0	9.8
3	15.2	X	4.4	5.4	9.3	7.6	6.8	11.2	11.4	10.5	9.8	10.4	16.2	8.7	15.5	11.9	17.9	8.6	7.7	10.2	11.2	11.1	8.6	7.7	10.3	17.9
4	10.2	10.1	9.5	12.1	8.7	8.2	13.0	12.5	16.2	15.3	10.6	6.4	4.3	3.6	4.5	6.8	4.0	2.9	3.2	0.1	0.0	0.0	1.9	2.8	7.0	16.2
5	0.0	1.3	3.6	1.9	0.0	0.5	1.5	1.2	1.3	2.2	1.9	2.2	2.2	1.4	0.0	0.0	0.8	1.9	2.0	0.0	0.0	4.4	12.2	12.1	2.3	12.2
6	7.5	4.3	2.6	2.6	2.7	2.3	4.7	3.3	3.8	5.8	4.3	3.3	2.5	1.5	2.0	4.1	5.1	5.1	4.8	5.7	4.0	3.7	4.5	6.1	4.0	7.5
7	4.2	7.0	9.9	5.6	1.5	1.8	0.7	0.0	2.7	1.8	0.0	0.0	0.0	0.0	1.7	4.7	5.4	3.9	1.5	2.0	4.4	3.6	1.2	1.2	2.7	9.9
8	1.5	1.9	1.5	0.6	4.6	5.4	5.0	4.0	3.2	7.9	7.4	10.3	6.9	7.2	6.7	10.4	8.6	7.1	10.6	6.4	4.5	6.3	6.2	6.4	5.9	10.6
9	4.5	6.5	4.5	5.8	5.8	6.2	5.8	6.0	17.7	10.8	11.2	12.0	23.7	14.3	13.1	22.4	4.4	12.4	8.3	7.7	9.5	12.1	14.7	14.7	10.3	23.7
10	12.0	12.8	8.2	12.9	18.4	10.6	13.3	13.1	14.1	14.5	9.4	16.0	10.3	6.7	9.2	11.4	9.4	8.8	11.4	15.4	13.2	18.9	13.7	12.6	12.3	18.9
11	11.3	9.9	12.7	13.9	11.2	11.5	11.2	12.2	11.5	10.9	12.2	11.8	17.1	5.2	6.4	11.1	8.2	6.5	6.5	5.2	7.6	8.1	9.9	13.6	10.2	17.1
12	17.8	12.9	9.8	9.5	11.9	10.6	13.4	14.1	15.1	13.7	13.0	13.9	16.4	5.5	6.9	7.1	4.4	4.1	5.5	7.4	10.1	9.6	6.4	9.7	10.4	17.8
13	7.4	3.2	0.6	3.9	7.9	7.5	12.2	9.8	11.4	14.8	13.9	9.0	7.8	13.5	31.6	14.3	12.9	25.4	13.9	10.4	7.7	9.9	12.8	15.6	11.6	31.6
14	10.7	9.3	6.1	5.4	5.2	8.1	10.8	9.0	7.2	6.9	8.0	9.5	19.0	23.9	19.5	12.7	12.8	7.4	3.8	5.8	5.1	4.3	3.5	8.7	9.3	23.9
15	16.0	10.4	8.3	8.7	8.0	7.7	9.0	8.1	11.6	12.5	10.1	9.5	12.0	24.0	29.1	35.1	29.2	16.0	10.3	6.6	9.0	11.6	12.7	13.9	13.7	35.1
16	11.4	14.7	12.1	9.2	12.1	8.7	8.2	12.2	11.6	13.5	15.4	12.8	15.9	15.8	14.0	12.9	9.7	7.6	5.9	6.6	8.7	8.9	8.5	11.3	11.1	15.9
17	14.2	9.0	8.6	7.7	9.3	8.1	10.4	9.4	8.7	9.3	7.4	9.2	5.0	2.8	6.5	5.8	6.1	5.9	6.9	6.1	3.3	2.3	3.5	7.2	7.2	14.2
18	6.1	11.9	11.4	8.2	5.9	8.0	8.2	13.8	14.2	9.9	11.9	12.0	20.9	14.0	11.5	10.4	9.3	8.0	7.7	8.5	11.9	11.5	17.6	23.0	11.5	23.0
19	13.7	13.0	12.9	17.0	11.4	15.3	17.4	13.2	25.7	21.8	24.8	24.6	20.4	16.7	19.5	20.2	13.0	12.5	10.5	9.9	11.6	13.3	11.7	15.6	16.1	25.7
20	17.0	11.9	18.4	19.2	28.1	20.3	15.6	18.5	27.8	22.4	15.6	16.8	15.1	28.9	16.3	17.4	25.7	13.1	15.0	12.7	12.9	10.7	14.1	13.1	17.8	28.9
21	17.1	19.9	13.7	12.9	11.5	17.9	16.1	14.2	31.1	22.4	8.8	10.8	8.9	6.7	9.8	9.5	12.3	12.8	9.0	8.2	6.5	5.9	7.6	7.7	12.6	31.1
22	9.0	8.0	9.3	7.0	9.1	9.7	7.5	13.2	10.4	9.5	12.0	14.6	9.9	11.9	10.8	10.9	11.2	10.4	9.6	13.2	10.1	9.1	11.0	7.9	10.2	14.6
23	6.9	6.0	2.9	2.2	2.4	5.1	4.0	3.7	4.8	6.2	7.2	6.3	6.9	6.0	2.9	2.5	7.5	5.7	3.8	6.9	7.1	4.3	2.7	3.7	4.9	7.5
24	3.6	2.6	3.2	7.6	7.8	5.1	4.1	6.3	9.2	12.2	10.7	7.5	5.5	5.9	7.3	8.6	7.2	6.1	4.5	8.0	8.4	9.3	6.3	8.4	6.9	12.2
25	10.8	9.3	8.3	15.2	15.9	9.7	8.5	11.8	10.2	11.2	12.4	14.0	11.7	8.0	8.3	7.9	6.9	6.5	5.1	5.5	5.7	10.6	9.0	7.6	9.6	15.9
26	7.2	6.4	4.4	4.7	4.1	5.4	4.3	2.0	3.4	5.8	5.4	4.8	6.1	5.1	4.0	5.3	23.6	4.1	5.0	2.2	1.3	3.3	2.8	0.0	5.0	23.6
27	1.2	3.0	3.8	6.9	6.0	2.3	3.3	3.0	3.7	4.0	2.6	3.6	2.1	0.0	0.0	2.0	2.8	0.0	0.0	0.0	0.0	0.0	1.6	3.0	2.3	6.9
28	3.3	2.2	1.2	2.1	5.9	4.3	2.9	1.8	0.4	0.0	0.0	0.0	0.8	0.1	0.8	1.4	0.0	0.0	0.0	0.0	0.0	1.8	1.0	0.0	1.3	5.9
29	5.4	4.6	1.5	1.0	5.0	3.2	2.1	3.0	4.0	6.8	5.3	2.1	0.1	0.0	2.9	8.6	6.8	5.1	3.9	1.7	0.0	0.0	3.8	4.6	3.4	8.6
30	2.2	1.5	5.8	4.6	1.9	2.2	1.3	3.7	5.3	2.6	1.0	5.1	4.5	0.3	0.0	0.0	0.0	0.0	0.8	1.2	3.0	4.2	8.0	8.0	2.5	8.0
31	7.9	5.3	2.6	2.3	4.8	5.5	7.0	8.6	7.1	11.8	8.2	5.2	6.8	5.4	12.0	13.7	12.8	15.7	11.4	8.3	8.4	8.9	6.5	5.1	8.0	15.7
NO.	31	30	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.9%
MEAN	8.6	7.9	7.0	7.6	8.2	7.4	7.8	8.4	10.5	10.3	9.1	9.2	9.8	8.4	9.2	9.8	9.3	7.6	6.5	6.3	6.1	6.7	7.2	8.4		
MAX	17.8	19.9	18.4	19.2	28.1	20.3	17.4	18.5	31.1	22.4	24.8	24.6	23.7	28.9	31.6	35.1	29.2	25.4	15.0	15.4	13.2	18.9	17.6	23.0		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	703
Maximum 1-HR Average	35.1 UG/M3
Maximum 24-HR Average	17.8 UG/M3
Monthly Calibration	4
Standard Deviation	5.667
Operational Time	743 HRS
Operational Uptime	99.9 %
Monthly Average	8.2 UG/M3

Lagoon PM₁₀ (µg/m³) – August 2022

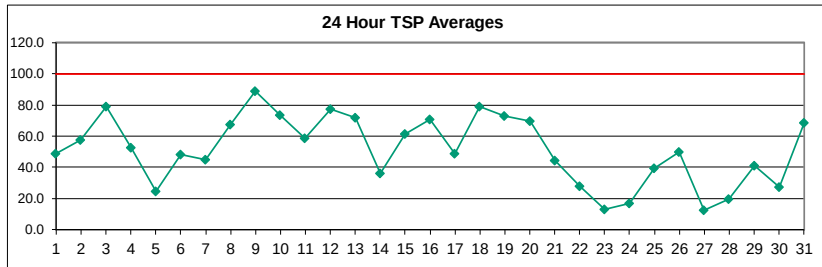
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	15.8	21.6	20.3	20.8	18.0	13.8	17.5	16.5	24.3	24.1	32.0	23.6	23.0	25.4	63.2	85.9	35.7	22.7	18.9	33.2	32.7	11.6	27.4	8.8	26.5	85.9
2	10.7	10.0	9.3	8.8	35.5	1.4	1.7	4.4	13.6	C	C	C	C	70.1	86.1	57.0	66.8	60.3	63.7	32.4	32.8	15.5	16.3	18.9	30.8	86.1
3	41.9	X	17.1	35.5	17.9	12.0	23.2	30.6	75.7	45.1	28.8	66.6	84.7	46.3	79.6	77.1	146.0	45.8	55.2	21.8	25.6	24.1	20.0	29.7	45.7	146.0
4	28.4	27.4	22.2	19.6	13.6	17.0	21.6	52.0	90.2	54.0	65.2	53.7	29.8	29.4	9.2	19.5	18.7	14.4	18.8	3.4	19.2	0.0	33.0	30.2	28.8	90.2
5	25.6	38.0	26.1	6.8	7.9	3.5	11.8	4.5	1.1	10.6	7.8	28.7	6.8	9.1	17.0	6.5	3.7	9.4	7.4	7.5	11.2	6.0	5.7	13.7	11.5	38.0
6	5.7	5.9	4.1	5.6	10.1	10.0	12.0	9.4	10.9	29.0	38.4	33.7	5.2	16.5	36.7	55.1	75.9	76.4	20.7	55.0	17.2	23.3	4.2	35.7	24.9	76.4
7	21.2	69.7	68.6	17.7	7.2	3.1	6.5	3.3	3.9	16.1	14.7	5.0	12.8	13.2	21.6	34.8	42.4	38.8	27.4	35.4	39.1	9.5	12.7	22.5	22.8	69.7
8	12.9	26.8	6.6	15.6	2.7	4.1	6.2	25.0	39.5	46.5	43.0	66.4	82.4	89.4	59.7	38.8	31.9	48.4	31.9	33.9	23.5	33.7	18.9	18.5	33.6	89.4
9	15.2	22.8	19.3	14.0	11.0	17.7	21.0	25.7	96.8	69.1	43.8	40.9	48.8	50.3	49.7	257.1	57.9	37.9	41.9	27.7	35.4	29.2	62.3	63.1	48.3	257.1
10	39.0	35.3	25.3	46.7	72.6	49.3	74.0	52.0	79.5	101.8	103.8	38.4	45.6	9.0	26.8	22.3	24.1	35.1	48.1	34.5	35.3	39.6	34.8	39.4	46.3	103.8
11	14.2	27.2	16.8	16.3	18.1	15.5	29.1	31.9	75.6	58.2	69.5	51.7	56.5	23.2	28.7	48.8	22.2	26.2	23.8	27.8	15.0	17.8	22.3	24.4	31.7	75.6
12	26.8	35.8	24.6	30.9	40.2	21.4	51.0	42.0	56.0	63.5	74.5	73.9	34.5	21.9	16.9	16.2	18.1	17.7	36.9	49.1	98.2	67.1	15.2	35.3	40.3	98.2
13	23.4	6.7	20.4	23.0	17.0	18.7	14.4	19.7	24.2	80.0	86.2	34.2	16.3	60.3	45.6	41.7	118.4	72.8	25.5	49.0	14.8	28.9	26.2	22.9	37.1	118.4
14	23.4	19.2	23.6	20.9	8.2	25.4	21.6	34.8	26.9	23.6	23.0	36.8	28.9	27.3	34.0	25.2	29.8	16.5	10.6	22.2	19.8	9.7	15.2	22.0	22.9	36.8
15	30.2	25.9	18.1	17.9	53.0	29.8	32.0	25.3	47.0	52.2	38.3	33.4	24.5	28.7	36.8	44.0	47.2	58.1	55.5	27.9	58.9	33.8	57.5	29.5	37.7	58.9
16	25.0	25.5	22.3	21.9	42.8	45.4	50.5	90.5	114.2	81.8	65.4	35.0	60.5	50.8	76.3	17.4	54.5	29.9	10.8	30.0	21.6	32.3	29.0	14.4	43.7	114.2
17	21.0	24.2	20.5	24.8	20.2	19.0	23.0	38.2	32.5	45.6	20.5	39.3	26.8	23.4	32.8	40.0	28.0	32.6	22.7	17.2	23.3	18.0	25.6	23.2	26.8	45.6
18	29.3	36.2	43.2	21.1	26.1	35.2	50.6	49.7	71.7	58.3	61.5	49.3	37.5	124.8	59.0	61.7	47.4	35.4	40.6	27.0	28.3	49.4	50.4	42.1	47.3	124.8
19	25.8	28.2	25.9	44.5	28.2	39.7	35.6	45.6	68.4	86.1	103.5	86.5	70.1	63.3	42.6	28.9	26.3	25.1	27.9	19.9	26.9	25.3	32.0	50.6	44.0	103.5
20	46.1	37.2	64.2	47.8	57.2	36.3	31.5	27.8	57.2	64.5	41.8	53.8	48.7	91.2	58.7	40.4	23.3	15.8	22.7	18.0	27.0	14.2	29.1	23.3	40.7	91.2
21	30.3	27.5	30.7	25.6	24.5	28.4	15.4	19.5	128.8	83.8	36.9	17.4	15.8	36.8	70.2	22.9	13.6	14.4	17.5	12.0	8.8	9.9	7.8	17.1	29.8	128.8
22	9.6	15.3	19.7	23.1	25.5	22.3	23.0	22.7	18.0	27.4	21.3	28.3	12.4	19.4	16.9	19.4	29.4	21.9	14.7	12.6	8.8	9.9	10.2	11.4	18.5	29.4
23	8.8	10.6	7.3	7.3	3.9	2.7	4.7	6.0	6.3	11.8	6.5	14.9	2.2	7.2	5.3	6.2	9.5	11.3	7.3	4.7	6.0	5.8	15.2	6.7	7.4	15.2
24	7.2	4.3	8.8	9.4	9.4	8.8	10.7	10.1	11.5	23.3	14.0	10.9	14.0	10.0	9.5	11.3	10.1	11.3	8.3	12.1	10.9	12.4	16.8	15.4	11.3	23.3
25	21.8	14.3	20.0	58.2	58.5	24.4	42.2	48.7	35.9	38.4	63.4	58.1	27.7	15.2	15.9	8.0	8.1	10.9	10.9	12.1	11.7	29.5	11.8	18.8	27.7	63.4
26	15.3	10.0	7.2	4.5	14.6	10.1	10.1	12.7	25.5	36.6	50.4	16.0	11.5	12.4	18.0	29.1	329.9	10.1	10.6	7.4	7.3	4.5	2.2	6.2	27.6	329.9
27	11.9	8.5	16.8	15.3	10.6	7.2	3.4	5.7	2.7	4.4	14.5	20.1	3.2	0.0	0.0	2.2	4.6	3.2	0.6	0.7	2.0	3.9	3.1	3.5	6.2	20.1
28	33.6	0.8	6.5	18.0	41.2	11.1	5.9	17.8	0.0	1.4	5.3	4.1	8.8	24.3	24.2	6.5	16.5	22.8	4.6	1.9	2.2	20.5	9.0	1.1	12.0	41.2
29	0.0	21.2	23.7	25.7	11.9	6.7	7.6	27.8	69.1	25.7	0.0	4.8	20.3	24.2	50.7	36.6	54.5	60.2	32.2	27.3	5.5	7.8	15.0	16.8	24.0	69.1
30	13.8	6.9	10.7	7.2	3.3	4.7	6.3	12.2	15.5	17.3	37.7	33.7	30.9	25.0	12.1	12.8	26.8	6.7	5.4	7.8	4.1	7.2	18.7	18.7	14.4	37.7
31	42.0	14.8	14.0	24.5	18.6	13.5	28.7	35.8	36.1	42.5	32.5	47.5	35.8	22.4	68.9	109.9	99.8	101.5	24.8	35.5	28.5	16.8	15.8	22.6	38.9	109.9
NO.	31	30	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	739	99.9%
MEAN	21.8	21.9	21.4	21.9	23.5	18.0	22.4	27.4	43.8	44.1	41.5	36.9	30.9	34.5	37.8	41.4	49.1	32.0	24.1	22.8	22.6	19.9	21.4	22.8		
MAX	46.1	69.7	68.6	58.2	72.6	49.3	74.0	90.5	128.8	101.8	103.8	86.5	84.7	124.8	86.1	257.1	329.9	101.5	63.7	55.0	98.2	67.1	62.3	63.1		



Number of Non-Zero Readings	733		
Maximum 1-HR Average	329.9 UG/M3		
Maximum 24-HR Average	48.3 UG/M3		
Monthly Calibration	4	Operational Time	743 HRS
Standard Deviation	26.33	Operational Uptime	99.9 %
		Monthly Average	29.3 UG/M3

Lagoon TSP (µg/m³) – August 2022

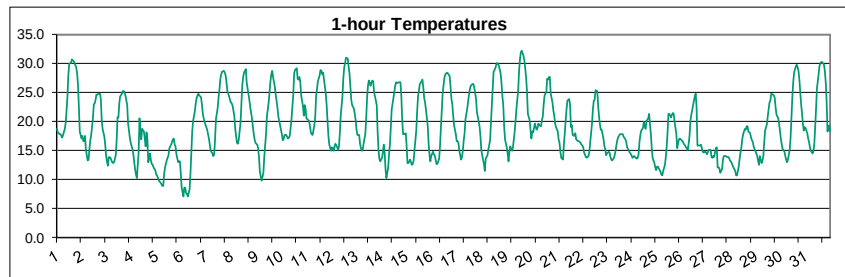
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	26.7	31.6	26.5	27.8	27.4	22.2	21.0	22.6	29.1	26.8	34.4	27.4	46.7	67.7	133.7	200.8	64.2	44.1	38.8	66.1	82.6	17.2	52.6	27.3	48.5	200.8
2	15.1	10.3	19.4	20.0	82.5	13.0	11.4	16.1	30.0	C	C	C	C	121.2	152.8	110.9	119.1	122.1	137.2	68.8	44.0	22.2	15.5	21.2	57.6	152.8
3	34.7	34.2	23.8	54.4	32.1	30.0	45.3	47.4	132.8	73.3	45.5	126.2	130.4	110.8	167.0	136.3	284.2	100.9	94.4	41.8	45.5	39.8	29.2	29.8	78.7	284.2
4	41.7	41.3	33.5	35.7	28.2	34.8	38.4	88.4	165.7	101.6	110.4	101.8	59.7	60.2	14.6	25.7	38.5	30.8	34.3	25.2	27.1	13.2	54.0	51.1	52.3	165.7
5	46.9	68.8	57.6	17.8	11.1	9.0	19.4	16.7	14.4	20.6	16.9	90.8	19.5	18.2	18.2	12.6	11.8	23.1	11.5	16.8	18.3	20.5	12.8	15.7	24.5	90.8
6	20.6	13.9	11.4	14.0	14.0	14.2	16.4	8.9	18.2	48.5	75.1	52.2	14.6	28.9	81.6	108.5	139.5	156.4	46.2	107.3	38.4	54.7	15.0	64.1	48.4	156.4
7	48.1	160.3	123.5	43.5	24.8	15.8	23.1	11.5	16.7	16.0	26.9	10.1	14.0	15.0	36.6	75.6	92.5	85.2	44.4	73.7	75.9	12.9	19.3	15.8	45.1	160.3
8	26.4	52.3	16.2	31.2	13.7	7.5	18.2	48.2	71.3	92.1	103.5	153.0	171.2	192.7	115.5	96.6	62.5	79.5	60.9	45.7	43.3	55.9	35.9	30.4	67.6	192.7
9	26.6	29.0	23.7	22.7	18.7	27.2	41.7	46.6	146.4	110.7	53.1	63.5	86.4	69.1	91.5	612.3	124.3	91.2	82.8	47.4	52.6	52.2	100.5	113.8	88.9	612.3
10	62.0	53.4	46.4	88.8	118.5	79.0	106.9	84.9	123.6	159.3	103.2	62.8	69.6	19.2	40.5	45.1	42.8	67.3	82.0	59.5	56.9	59.1	52.9	83.2	73.6	159.3
11	23.4	44.9	37.3	34.7	33.4	34.5	57.6	47.5	112.7	126.8	148.1	92.4	109.7	31.2	45.3	91.0	52.6	49.6	41.9	46.3	28.5	41.5	38.7	34.6	58.5	148.1
12	34.3	53.4	40.8	51.6	57.4	41.7	72.7	86.1	92.8	123.0	148.1	146.0	73.6	47.6	28.6	44.2	38.8	38.1	81.2	106.3	212.3	136.6	42.7	62.9	77.5	212.3
13	43.3	20.5	40.7	48.9	26.8	33.0	26.7	32.3	43.5	140.6	157.0	80.3	27.5	135.6	105.5	89.5	219.8	128.8	47.2	103.1	31.8	56.3	44.0	35.0	71.6	219.8
14	39.8	29.6	37.6	39.6	26.4	50.7	37.9	45.4	36.0	33.3	33.0	52.9	32.4	37.8	42.5	32.7	48.0	33.9	17.3	42.7	35.7	26.3	23.4	36.8	36.3	52.9
15	50.2	30.5	27.7	29.3	114.5	49.7	43.9	35.5	80.6	84.4	52.8	54.1	25.8	41.0	55.1	48.1	68.7	114.3	101.1	46.9	96.3	58.2	112.2	54.7	61.5	114.5
16	38.5	30.3	25.0	25.7	67.9	68.2	77.4	133.8	179.1	134.0	97.2	47.2	104.8	99.1	139.8	29.7	95.9	44.6	22.1	74.2	34.5	58.0	51.3	21.7	70.8	179.1
17	38.8	37.3	35.4	48.3	39.4	25.7	41.4	92.4	56.7	79.6	36.4	42.5	58.1	31.9	65.8	77.6	49.3	63.2	36.2	39.1	42.3	32.9	46.0	48.3	48.5	92.4
18	43.9	62.4	60.8	37.6	39.3	48.7	80.8	71.1	106.9	84.9	92.1	76.5	63.4	248.6	99.1	115.4	93.9	61.4	68.7	55.6	58.6	67.5	88.1	75.8	79.2	248.6
19	39.1	43.5	54.0	80.2	48.9	58.6	65.6	75.1	112.1	143.3	159.8	144.6	129.2	108.3	57.2	36.7	47.8	32.7	46.3	29.0	51.1	46.4	59.5	87.2	73.2	159.8
20	85.0	62.3	119.1	94.2	120.3	64.1	42.5	61.3	97.1	99.7	71.8	94.0	66.4	148.5	98.4	70.3	34.4	28.2	35.4	22.4	51.7	30.7	32.5	38.3	69.5	148.5
21	53.4	36.2	38.9	39.2	45.4	43.4	21.9	20.8	161.3	118.8	55.6	29.0	26.4	58.9	128.6	39.3	18.8	23.6	15.4	15.4	15.6	19.4	15.6	18.7	44.2	161.3
22	21.7	35.7	27.7	24.2	29.1	26.4	25.8	33.1	27.3	45.2	32.7	39.6	26.2	21.1	25.2	28.6	46.1	24.1	24.9	22.1	18.5	25.1	18.4	14.0	27.6	46.1
23	13.9	11.1	8.6	11.3	10.5	5.5	6.0	11.3	12.8	15.5	18.6	27.3	15.3	13.5	3.5	13.2	8.8	15.7	21.7	10.2	16.4	9.2	27.0	8.6	13.1	27.3
24	11.4	13.9	10.4	20.4	10.1	15.0	7.5	16.9	20.2	34.2	22.1	17.9	12.9	18.0	15.2	11.4	14.1	15.2	11.6	19.7	22.5	26.1	19.6	21.0	17.0	34.2
25	20.9	21.1	27.2	72.2	74.1	30.6	59.9	68.0	41.0	57.1	91.4	88.7	31.9	29.3	31.6	23.1	11.1	8.9	18.4	23.2	24.4	38.2	24.2	34.1	39.6	91.4
26	19.3	14.1	16.5	10.8	29.9	15.5	18.1	17.4	32.4	71.5	89.3	14.2	18.7	19.3	14.0	44.0	678.9	9.9	11.2	9.9	11.1	7.2	8.3	8.9	49.6	678.9
27	17.8	10.4	22.2	18.7	20.5	9.9	9.9	9.9	10.0	14.6	26.6	28.4	11.1	7.5	14.8	3.3	10.6	4.3	3.2	8.3	8.6	10.7	7.0	7.2	12.3	28.4
28	37.4	5.8	7.7	21.5	60.1	13.0	21.2	26.7	7.3	11.4	14.1	15.4	16.0	27.9	29.8	13.4	30.9	38.9	8.5	8.7	14.9	32.4	10.9	3.1	19.9	60.1
29	2.0	39.9	32.4	39.5	23.3	26.5	28.8	52.6	106.6	46.7	7.3	12.2	32.4	41.9	78.0	59.2	80.8	89.8	56.4	45.6	12.7	14.6	28.1	34.4	41.3	106.6
30	27.3	12.9	18.8	32.1	6.0	11.3	11.6	20.0	29.8	42.6	63.7	61.4	46.8	38.0	18.6	21.9	40.7	20.3	7.7	19.5	19.9	27.8	26.5	27.7	27.2	63.7
31	53.9	20.9	23.2	74.1	56.5	19.7	45.2	61.6	46.7	64.5	51.2	77.0	63.9	39.6	123.4	215.5	181.2	175.1	45.0	58.1	54.0	22.6	29.5	35.8	68.3	215.5
NO.	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	740	100.0%
MEAN	34.3	36.5	35.3	39.0	42.3	30.5	36.9	45.5	69.7	74.0	67.9	64.3	53.5	62.8	66.8	81.7	92.0	58.7	43.7	43.8	43.4	36.6	36.8	37.5		
MAX	85.0	160.3	123.5	94.2	120.3	79.0	106.9	133.8	179.1	159.3	159.8	153.0	171.2	248.6	167.0	612.3	678.9	175.1	137.2	107.3	212.3	136.6	112.2	113.8		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	740
Maximum 1-HR Average	678.9 UG/M3
Maximum 24-HR Average	88.9 UG/M3
Monthly Calibration	4
Standard Deviation	50.8
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	51.3 UG/M3

Lagoon Temperature (°C) – August 2022

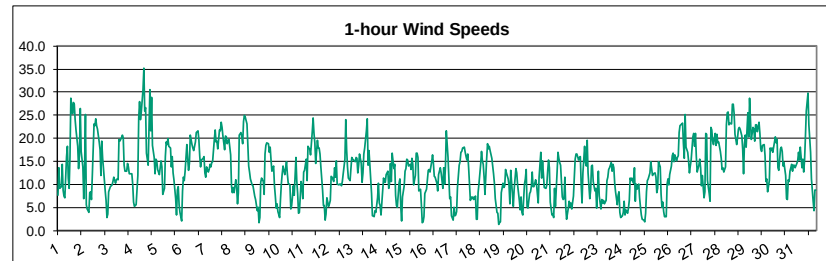
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	18.7	18.2	17.9	17.8	17.5	17.2	17.6	18.8	19.8	21.9	24.3	27.9	30.0	30.2	30.7	30.5	30.4	30.1	29.4	28.3	26.2	22.5	18.3	17.0	23.4	30.7
2	17.6	16.6	16.6	17.5	15.1	13.4	13.4	15.3	16.8	17.7	20.5	23.0	23.1	23.8	24.7	24.7	24.7	24.8	23.9	20.2	18.7	17.4	16.0	14.1	19.1	24.8
3	13.1	12.4	13.9	13.8	13.3	13.0	12.8	12.9	14.2	16.8	20.7	20.8	23.1	24.3	24.8	25.2	25.2	25.1	24.5	22.8	19.7	18.4	17.3	16.3	18.5	25.2
4	15.2	14.3	13.0	11.7	10.9	10.3	14.7	20.5	18.6	17.0	18.7	18.2	17.1	15.7	18.1	16.9	13.0	14.6	13.3	12.7	12.5	12.1	11.6	10.8	14.7	20.5
5	10.7	10.3	9.8	9.6	9.1	9.0	9.0	10.9	12.1	13.4	13.8	14.1	15.4	15.8	16.0	16.9	17.1	16.0	15.7	14.4	12.9	13.2	13.1	11.1	12.9	17.1
6	8.5	7.1	8.6	8.6	7.7	7.6	7.1	8.3	11.0	14.6	18.2	20.2	21.8	23.2	24.0	24.5	24.8	24.5	24.2	23.0	21.4	20.5	20.0	19.1	16.6	24.8
7	18.5	17.9	17.0	16.0	15.0	14.6	14.1	14.4	16.9	20.4	22.3	24.1	25.6	27.4	28.1	28.6	28.7	28.4	28.0	26.7	25.2	24.4	23.7	23.3	22.0	28.7
8	23.1	22.7	20.8	18.8	17.3	16.3	16.1	17.0	19.7	23.2	26.3	27.7	28.4	29.1	26.7	25.6	24.8	23.8	22.5	20.6	19.1	17.8	16.9	16.4	21.7	29.1
9	16.0	15.4	13.9	11.4	10.5	9.8	11.2	13.8	15.8	17.8	20.8	23.3	25.1	27.0	28.1	28.7	27.7	26.0	24.7	23.6	22.3	20.8	19.3	18.6	19.6	28.7
10	17.8	16.8	16.9	17.6	17.7	17.4	17.1	17.2	17.5	20.3	22.5	24.6	28.3	28.9	29.2	27.4	27.2	27.6	26.8	24.5	22.7	21.0	22.8	22.2	22.2	29.2
11	20.6	20.2	20.1	19.2	18.2	17.8	17.6	19.4	20.9	24.3	25.5	26.9	28.0	28.9	28.7	28.2	28.4	27.2	24.7	22.9	20.1	17.6	16.1	14.9	22.4	28.9
12	15.5	15.5	14.9	15.7	16.2	15.5	15.1	15.8	17.9	21.1	24.3	27.5	29.4	30.1	31.1	30.9	29.4	28.3	26.0	23.7	22.8	22.3	21.4	20.2	22.1	31.1
13	18.5	17.7	17.6	16.2	15.4	15.0	15.1	16.2	17.9	20.5	24.0	26.1	27.1	26.2	26.7	27.1	26.9	24.9	24.3	22.8	18.2	15.1	13.6	13.1	20.3	27.1
14	13.7	14.7	16.0	14.6	11.7	10.2	12.1	14.3	16.0	18.9	22.1	24.0	25.2	26.2	26.7	26.6	26.8	26.8	26.7	24.3	20.3	17.8	17.8	17.9	19.6	26.8
15	15.9	12.9	12.9	13.4	13.0	12.5	12.6	13.3	15.1	18.4	21.8	24.3	25.3	26.5	26.8	27.3	25.9	24.0	23.2	22.1	19.4	16.4	14.3	13.1	18.8	27.3
16	14.1	14.7	14.4	14.1	13.5	12.8	12.7	13.6	15.7	18.9	21.8	24.8	27.6	28.1	28.3	28.4	28.2	27.8	26.0	23.9	23.0	21.0	19.4	17.8	20.4	28.4
17	16.6	16.7	16.3	15.0	13.5	13.9	15.0	16.8	18.0	20.4	22.3	23.5	24.6	25.6	26.2	26.5	26.5	25.9	25.0	23.9	21.7	20.1	19.2	17.5	20.4	26.5
18	15.2	14.2	12.8	11.5	13.6	13.9	14.2	15.1	16.7	19.7	22.9	25.7	28.6	29.2	29.8	30.0	30.0	29.6	28.3	26.6	24.4	22.8	19.3	16.9	21.3	30.0
19	15.5	14.5	13.2	14.8	15.7	14.9	15.5	17.0	18.4	20.1	22.2	25.4	28.8	30.7	31.9	32.2	31.2	30.5	29.2	27.6	25.3	21.4	20.2	18.7	22.3	32.2
20	17.1	18.2	18.1	19.7	19.0	18.5	18.8	19.6	19.3	19.2	20.2	20.9	23.0	24.6	25.2	27.4	27.2	27.7	27.6	24.7	23.3	22.0	20.9	19.7	21.8	27.7
21	19.1	18.3	16.9	16.4	14.7	13.8	13.5	16.0	18.0	20.1	22.1	23.6	23.8	22.9	19.1	19.3	17.7	17.6	17.9	17.0	16.8	16.7	16.6	16.3	18.1	23.8
22	16.1	15.9	15.5	14.7	13.9	13.7	13.9	14.1	14.8	16.4	19.6	22.0	23.6	23.7	25.5	25.2	22.7	20.9	19.4	18.6	18.6	17.1	15.9	15.2	18.2	25.5
23	14.2	14.5	14.7	14.6	13.9	13.5	13.3	13.8	14.3	15.1	16.2	16.9	17.5	17.9	17.9	17.8	17.8	17.4	16.9	16.4	15.5	15.2	15.0	14.6	15.6	17.9
24	14.2	13.8	13.8	14.0	13.8	13.5	13.8	14.3	16.4	17.7	18.5	18.9	20.0	19.2	18.7	20.0	20.5	21.3	19.6	17.8	15.4	13.7	12.9	12.1	16.4	21.3
25	11.6	12.2	12.2	11.7	11.4	10.9	10.7	11.5	12.6	13.8	15.7	18.1	21.3	21.3	20.7	21.1	21.5	21.4	19.9	17.9	15.4	16.4	16.9	17.1	16.0	21.5
26	16.9	16.7	16.3	16.1	15.8	15.5	15.2	16.2	17.5	20.0	21.1	21.9	23.6	24.4	24.8	22.6	15.9	15.9	15.9	16.0	15.4	14.9	14.7	14.8	17.8	24.8
27	14.7	14.4	14.8	15.1	15.1	13.9	13.8	14.1	13.9	15.4	15.6	12.1	12.1	11.9	11.1	11.8	13.4	14.1	14.1	14.0	14.0	13.9	13.8	13.4	13.8	15.6
28	13.2	12.8	12.2	11.8	11.5	10.7	10.8	12.2	13.6	14.7	15.6	16.9	17.8	18.8	18.7	19.2	19.2	18.3	18.0	17.2	16.8	16.5	15.7	15.3	15.3	19.2
29	14.5	14.1	13.3	12.5	14.0	12.9	13.2	14.1	16.4	18.5	19.5	20.9	22.1	23.2	23.6	24.8	24.7	24.5	24.0	22.3	21.2	20.6	19.4	18.3	18.9	24.8
30	16.9	16.1	15.3	14.8	14.1	13.4	13.0	13.5	15.1	17.2	20.7	24.2	26.8	28.5	29.4	29.8	29.4	28.7	27.2	23.0	21.5	19.6	18.5	19.0	20.7	29.8
31	19.0	18.0	17.0	16.5	15.5	15.0	14.6	14.8	16.2	19.1	22.2	25.7	28.2	29.7	30.1	30.3	30.3	29.8	28.8	26.7	23.6	18.2	19.4	18.2	21.9	30.3
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	15.9	15.4	15.1	14.7	14.1	13.6	13.8	15.0	16.4	18.5	20.7	22.4	23.9	24.6	24.9	25.0	24.4	24.0	23.1	21.5	19.8	18.3	17.4	16.5		
MAX	23.1	22.7	20.8	19.7	19.0	18.5	18.8	20.5	20.9	24.3	26.3	27.9	30.0	30.7	31.9	32.2	31.2	30.5	29.4	28.3	26.2	24.4	23.7	23.3		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	32.2 C		
Maximum 24-HR Average	23.4 C		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	5.408	Operational Uptime	100.0 %
		Monthly Average	19.1 C

Lagoon Wind Speed (km/hr) – August 2022

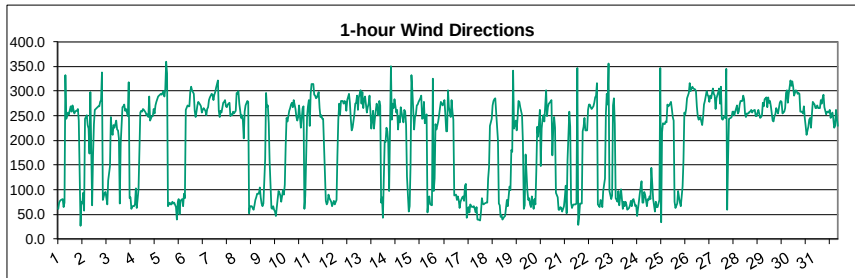
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	7.7	13.7	9.1	9.5	14.5	8.7	7.5	7.2	16.0	18.4	11.4	9.1	16.0	28.8	25.4	27.7	27.4	24.1	21.7	18.2	13.5	16.4	26.4	17.2	16.5	28.8
2	13.8	7.0	13.5	25.2	5.6	4.7	3.9	8.2	8.5	6.7	11.9	23.2	22.8	24.2	22.7	22.0	19.2	17.6	12.0	19.4	15.7	13.5	8.7	6.5	14.0	25.2
3	2.8	3.6	8.5	9.5	9.7	9.8	10.7	11.6	10.2	11.0	11.2	11.1	19.7	19.4	20.1	20.7	20.1	14.3	12.8	12.9	14.6	13.8	12.3	12.3	12.6	20.7
4	12.3	10.2	6.1	5.2	5.4	5.6	11.9	24.3	28.0	24.1	25.8	30.6	35.3	25.9	26.6	16.9	14.2	22.4	30.5	21.6	28.9	18.4	15.9	12.4	19.1	35.3
5	15.5	15.1	13.2	12.2	13.7	15.1	13.8	7.8	9.2	16.1	19.1	18.6	19.9	18.2	18.0	13.8	16.1	12.5	11.0	6.9	3.4	8.9	9.5	5.6	13.0	19.9
6	4.0	2.0	8.6	11.6	10.9	13.0	18.7	15.7	13.1	14.6	20.7	18.6	17.8	17.4	18.3	19.1	21.3	21.7	19.8	16.3	13.9	15.4	15.7	16.0	15.2	21.7
7	12.5	11.7	13.8	12.7	13.2	14.4	13.8	14.7	14.9	19.8	21.8	19.2	19.4	17.6	21.7	21.7	23.5	22.3	20.5	17.6	20.5	20.3	18.9	19.3	17.7	23.5
8	19.7	16.5	9.8	8.2	9.4	8.3	11.0	9.4	5.9	8.3	20.7	21.3	20.2	18.8	23.7	25.0	24.6	23.1	18.7	14.0	12.8	11.2	9.8	9.7	15.0	25.0
9	8.5	7.5	6.8	4.3	5.1	1.7	2.8	10.4	11.4	10.7	7.9	16.7	18.5	19.0	18.8	17.0	18.2	15.4	13.0	14.1	9.8	7.5	4.9	5.9	10.6	19.0
10	4.2	2.9	6.8	10.0	12.4	14.0	12.1	13.5	14.9	12.4	10.3	9.9	4.7	5.5	7.6	9.7	7.7	15.8	10.7	8.1	3.8	4.0	10.6	9.6	9.2	15.8
11	7.0	12.6	13.1	15.5	10.8	18.3	18.0	17.8	16.4	21.5	24.5	21.0	18.9	14.5	19.6	18.0	17.9	16.6	13.9	8.9	5.4	5.5	2.3	3.6	14.2	24.5
12	7.2	5.3	5.9	6.5	11.7	11.6	10.7	13.7	11.6	15.1	10.1	9.9	10.0	10.1	9.8	10.6	12.3	15.5	24.0	17.6	13.7	11.4	10.8	13.5	11.6	24.0
13	15.9	15.6	15.4	15.0	15.8	15.6	12.6	14.1	16.5	14.6	10.5	12.6	16.6	18.0	21.7	24.2	14.1	17.3	14.5	8.0	3.2	3.2	3.1	4.3	13.4	24.2
14	4.0	7.1	10.2	6.1	5.4	3.3	8.8	11.5	10.5	10.4	12.1	12.8	9.1	10.2	14.5	10.7	16.9	13.5	14.4	7.7	5.4	5.1	10.2	11.2	9.6	16.9
15	5.3	2.1	7.2	9.7	13.0	13.5	15.4	15.3	14.0	14.3	13.2	15.6	14.4	9.9	12.0	16.8	16.8	16.0	8.6	8.9	5.7	1.6	2.0	3.1	10.6	16.8
16	8.1	9.1	11.1	13.0	13.2	12.7	14.9	16.4	14.5	11.8	11.6	10.2	8.6	12.2	12.9	13.7	12.4	9.2	13.5	10.1	13.8	21.7	15.9	11.3	12.6	21.7
17	7.0	7.3	3.1	2.2	5.0	3.2	3.4	4.2	9.3	14.3	14.9	17.0	17.2	17.9	18.1	16.9	16.0	15.4	16.6	13.6	6.5	7.3	6.9	7.4	10.4	18.1
18	6.8	7.5	2.4	2.5	8.2	10.1	14.4	17.2	15.1	14.3	11.5	7.8	15.7	18.9	17.7	18.2	17.3	15.7	13.9	12.4	10.2	7.0	3.9	3.7	11.4	18.9
19	1.3	1.7	1.9	8.2	10.4	9.4	9.8	13.3	12.5	11.2	10.0	5.8	13.1	10.4	5.3	9.1	11.2	13.4	12.4	9.8	6.5	4.5	7.3	4.0	8.4	13.4
20	3.4	10.0	11.2	13.3	5.3	5.0	8.1	8.5	9.5	12.6	9.5	9.5	11.1	10.1	8.0	6.0	11.5	16.9	11.5	15.1	12.4	9.4	9.1	9.9	9.9	16.9
21	12.8	15.4	13.7	6.3	3.4	3.6	2.8	9.2	5.3	13.0	16.9	15.6	14.8	14.2	7.3	6.7	6.9	11.5	5.3	2.4	5.0	6.4	5.3	6.0	8.7	16.9
22	4.8	7.5	11.6	15.5	16.6	16.6	15.2	15.8	16.0	9.9	5.9	12.6	18.2	14.7	14.1	19.6	12.5	6.9	8.8	14.0	14.2	10.7	8.7	9.1	12.5	19.6
23	4.9	8.9	12.9	7.5	4.7	6.7	6.1	6.6	5.8	6.6	10.8	11.7	13.2	13.6	14.8	12.9	14.4	13.7	10.3	8.3	5.7	7.7	8.4	3.9	9.2	14.8
24	2.9	3.2	3.9	6.3	3.4	4.5	3.9	4.8	6.6	11.4	10.9	11.4	10.4	13.6	6.3	10.1	9.1	10.0	7.1	5.1	3.4	2.5	2.4	2.0	6.5	13.6
25	3.9	8.5	10.9	11.3	12.5	15.0	13.5	12.0	12.3	12.5	11.6	8.2	9.1	15.0	13.8	7.9	5.1	6.2	4.1	3.0	3.1	10.1	11.1	9.9	9.6	15.0
26	12.2	14.0	16.3	16.8	15.0	16.5	15.2	15.9	16.2	21.3	22.7	23.0	23.4	18.9	15.7	25.1	18.2	16.9	15.1	12.6	14.0	15.3	20.3	21.2	17.6	25.1
27	18.4	21.1	16.0	12.6	14.2	15.4	13.7	9.7	12.0	7.2	8.5	21.0	21.0	10.8	8.1	6.4	22.4	21.7	19.4	18.6	21.0	18.5	20.8	19.1	15.7	22.4
28	19.2	17.1	15.7	13.2	13.6	12.6	13.7	23.0	25.6	25.7	22.9	23.3	23.1	27.4	27.3	25.3	20.9	18.6	20.2	21.9	22.4	22.1	20.5	17.5	20.5	27.4
29	12.3	18.7	20.7	18.0	25.6	20.2	28.7	24.0	19.8	22.3	22.0	19.4	23.0	23.0	21.5	23.5	21.1	17.8	17.1	18.5	18.6	16.2	10.6	11.1	19.7	28.7
30	8.5	10.8	17.8	17.4	17.9	17.1	18.0	20.3	19.0	19.7	13.6	13.0	17.6	18.1	17.1	14.1	14.8	12.0	6.9	6.7	11.0	10.6	12.9	14.3	14.5	20.3
31	13.0	14.2	14.3	13.7	14.6	15.2	17.0	15.3	18.1	13.5	15.5	12.6	15.3	20.4	25.8	29.7	23.0	19.9	17.1	11.3	6.4	4.3	8.8	8.7	15.3	29.7
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	9.0	9.9	10.7	10.9	11.0	11.0	11.9	13.3	13.5	14.4	14.5	15.2	16.7	16.7	16.6	16.7	16.4	15.9	14.4	12.4	11.1	10.7	10.8	10.0		
MAX	19.7	21.1	20.7	25.2	25.6	20.2	28.7	24.3	28.0	25.7	25.8	30.6	35.3	28.8	27.3	29.7	27.4	24.1	30.5	21.9	28.9	22.1	26.4	21.2		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	35.3 KM/HR		
Maximum 24-HR Average	20.5 KM/HR		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	6.018	Operational Uptime	100.0 %
		Monthly Average	13.1 KM/HR

Lagoon Wind Direction (°) – August 2022

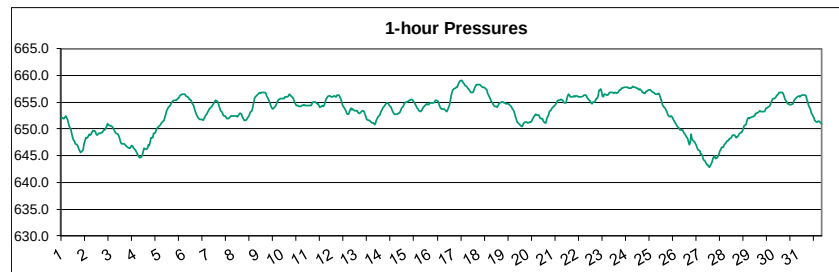
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	61.0	73.6	77.5	79.9	81.8	65.0	73.0	332.8	242.9	257.1	252.4	262.4	269.1	258.9	271.2	255.4	259.0	259.6	259.2	264.1	239.5	26.8	74.8	72.5	270.7	332.8
2	93.8	58.2	244.3	251.0	231.6	223.4	173.7	298.4	68.0	169.2	232.7	261.5	264.3	265.3	268.5	270.0	278.8	281.9	337.0	80.0	94.6	95.4	82.5	70.9	262.9	337.0
3	119.1	148.3	247.9	217.5	211.9	230.4	226.0	240.5	221.4	220.8	203.8	72.0	193.3	266.4	269.6	273.3	259.6	263.7	249.3	317.4	82.1	84.5	62.0	66.2	238.6	317.4
4	67.4	69.8	102.1	63.6	80.5	100.1	256.2	259.6	258.4	264.5	261.0	256.3	251.1	253.6	246.7	289.8	239.8	250.1	248.4	263.5	255.5	271.6	278.5	289.5	258.9	289.8
5	290.9	292.0	293.7	292.8	300.4	289.6	302.8	359.6	336.9	66.3	73.0	69.4	69.9	76.5	72.6	74.5	64.8	39.4	73.6	81.9	49.6	77.4	80.6	67.0	35.9	359.6
6	91.7	83.2	261.2	270.7	268.9	268.6	298.7	308.3	302.0	294.4	260.5	247.3	259.1	270.2	278.6	273.6	269.8	257.3	261.6	265.1	260.2	250.6	264.2	267.6	270.2	308.3
7	282.2	286.3	294.1	292.3	281.3	291.9	298.1	306.3	321.3	259.4	247.8	260.0	256.3	275.8	278.8	281.2	269.5	266.4	273.3	275.8	249.5	252.4	251.6	258.4	272.7	321.3
8	255.4	259.9	296.7	293.9	299.8	275.0	245.6	251.5	240.1	204.2	258.6	270.9	280.0	278.2	53.0	66.9	66.5	66.4	58.8	67.9	79.6	84.9	91.7	92.5	340.5	299.8
9	104.0	83.8	72.8	67.3	71.2	162.8	297.1	266.8	271.6	235.5	156.8	62.2	61.7	67.2	60.2	55.2	46.4	81.5	97.6	93.2	88.6	75.5	99.2	90.4	74.0	297.1
10	110.6	189.0	245.3	238.9	259.4	264.6	272.8	276.0	267.9	280.9	263.6	247.5	239.7	248.0	271.6	225.3	243.4	265.3	268.4	61.7	88.4	249.5	268.9	281.9	260.8	281.9
11	229.5	293.9	314.2	314.2	293.0	290.6	285.5	286.8	298.1	265.3	247.2	250.3	243.6	244.4	133.2	77.2	69.6	73.6	90.9	82.1	76.1	66.2	71.5	77.9	282.7	314.2
12	70.9	78.5	169.3	241.3	275.0	252.0	279.7	280.6	274.4	279.7	277.5	260.4	281.9	294.5	276.5	243.3	220.9	226.0	252.8	273.9	277.1	290.4	261.4	287.5	266.1	294.5
13	301.2	275.2	297.4	264.8	283.7	289.3	257.0	267.9	274.3	290.3	258.1	223.5	260.2	223.7	243.2	260.4	275.2	251.7	280.8	271.4	73.4	85.2	43.5	198.2	266.8	301.2
14	197.4	226.0	218.7	195.6	97.9	350.4	241.3	274.3	265.4	283.5	255.7	262.7	222.5	249.1	236.0	267.5	246.3	237.4	262.7	257.4	230.8	125.6	55.5	66.0	247.5	350.4
15	149.2	332.3	301.5	222.0	247.9	252.6	270.2	273.2	278.1	285.6	291.6	244.3	246.4	278.3	234.4	253.3	54.1	76.6	86.2	70.4	69.1	325.3	96.8	121.8	266.1	332.3
16	233.7	222.6	238.5	250.7	266.2	277.5	274.0	271.3	281.1	253.7	219.0	219.2	302.5	267.7	247.0	281.0	257.9	242.8	88.3	90.6	79.4	86.3	79.3	63.0	255.1	302.5
17	76.1	84.8	86.0	77.2	107.6	112.0	43.6	63.9	53.6	69.7	67.4	64.9	66.0	60.3	54.2	64.1	39.9	38.8	37.5	56.2	82.3	71.9	70.2	71.6	61.7	112.0
18	73.1	73.3	122.1	145.9	229.0	243.3	271.6	279.9	283.6	285.9	255.8	199.7	72.3	68.9	45.7	48.0	39.9	44.9	45.8	62.2	79.9	66.0	107.2	98.7	37.6	285.9
19	180.1	177.7	341.4	224.8	239.3	220.1	245.6	279.5	277.7	268.0	251.8	194.5	60.3	68.5	171.0	98.1	78.8	82.0	71.1	65.5	86.1	60.6	81.8	70.7	112.0	341.4
20	136.6	228.4	208.3	261.9	147.5	223.2	243.6	251.4	238.5	301.9	250.0	267.8	273.7	275.8	282.3	170.1	224.5	247.9	225.1	93.0	84.6	59.3	59.9	65.0	240.1	301.9
21	62.6	55.8	66.1	84.1	107.8	52.6	160.0	257.6	227.9	74.5	63.5	68.8	69.6	70.4	72.7	346.4	28.7	45.5	72.1	71.8	218.7	228.3	245.2	220.5	66.1	346.4
22	220.2	262.1	272.0	272.3	266.6	264.0	269.3	277.1	287.8	290.3	315.9	70.6	65.1	79.3	77.3	64.1	96.9	123.1	253.9	293.9	273.0	355.7	98.1	81.8	307.7	355.7
23	87.4	270.5	284.6	232.2	82.3	74.8	98.1	67.5	84.7	100.8	61.2	75.1	67.0	74.9	71.0	59.8	63.7	69.1	77.6	67.0	79.7	81.2	66.9	69.1	70.4	284.6
24	46.1	61.5	76.3	92.5	117.1	73.8	73.6	96.0	89.8	67.3	80.9	79.1	87.3	81.3	144.5	81.7	68.0	56.5	75.7	64.5	65.4	78.6	346.5	33.5	77.9	346.5
25	216.8	234.3	233.8	239.1	237.1	272.7	268.8	270.8	277.7	264.4	248.3	239.4	76.0	62.9	71.2	97.9	84.8	73.8	66.1	106.7	158.7	256.1	252.4	263.7	252.2	277.7
26	284.9	296.7	315.3	299.7	304.7	309.1	305.4	303.8	299.9	269.1	248.5	242.2	248.0	239.2	231.1	246.7	272.7	279.7	299.9	292.8	289.9	278.2	290.4	286.2	277.9	315.3
27	305.1	294.0	291.5	263.5	285.0	298.4	305.2	274.6	309.5	244.3	241.1	248.7	244.9	345.9	59.8	162.2	242.9	246.1	248.0	257.4	259.1	251.4	257.4	271.8	268.4	345.9
28	255.3	258.2	273.1	280.2	280.2	291.0	283.6	254.7	246.6	254.0	254.2	258.8	258.9	261.9	257.2	259.3	262.2	249.1	249.5	256.3	261.3	246.5	247.5	251.7	258.7	291.0
29	276.4	269.2	283.3	286.5	267.6	287.5	275.7	280.5	268.4	240.7	238.9	249.4	253.1	265.3	255.0	264.7	276.7	279.3	277.3	253.9	257.4	266.0	295.7	301.2	268.1	301.2
30	276.5	294.1	322.3	310.2	320.3	308.4	290.5	301.4	299.8	295.0	296.0	295.0	258.5	257.5	254.0	269.2	245.2	229.1	211.8	226.8	242.6	245.3	225.2	253.5	277.9	322.3
31	278.8	272.3	266.2	265.9	270.6	265.3	265.9	282.0	275.1	285.9	292.8	267.2	252.4	258.6	258.0	256.4	262.2	246.2	256.2	243.5	225.7	228.6	261.5	228.5	263.0	292.8
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	175.3	197.0	229.6	222.3	219.8	231.6	240.4	261.1	249.1	233.0	223.4	202.9	195.3	202.9	185.4	191.5	174.5	175.8	182.5	168.6	159.9	168.4	163.5	159.3		
MAX	305.1	332.3	341.4	314.2	320.3	350.4	305.4	359.6	336.9	301.9	315.9	295.0	302.5	345.9	282.3	346.4	278.8	281.9	337.0	317.4	289.9	355.7	346.5	301.2		



Number of Non-Zero Readings	744
Maximum 1-HR Average	360 degrees
Maximum 24-HR Average	340 degrees
Monthly Calibration	0
Standard Deviation	92.15
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	200.5 degrees

Lagoon Pressure (mmHg) – August 2022

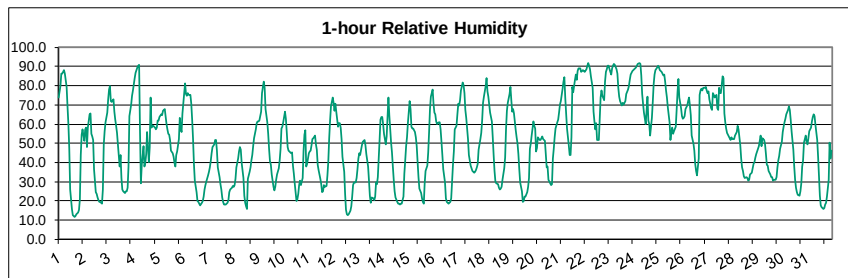
HOUR																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	
1	652.0	652.1	651.9	652.0	652.4	652.1	651.7	651.2	650.5	649.8	649.1	648.3	647.9	647.7	647.3	647.0	646.7	646.3	645.8	645.5	645.7	646.1	647.2	647.8	648.9	652.4	
2	648.3	648.4	648.3	649.1	648.8	649.1	649.3	649.7	649.6	649.5	649.0	648.9	649.1	649.2	649.2	649.3	649.4	649.7	649.7	649.9	650.4	650.9	650.8	650.7	649.4	650.9	
3	650.6	650.4	650.3	650.0	649.6	649.3	649.1	649.1	648.7	648.1	647.6	647.1	647.1	647.2	647.0	646.8	646.8	646.6	646.4	646.4	646.7	646.9	646.7	646.4	648.0	650.6	
4	646.1	645.7	645.4	645.1	644.8	644.7	644.8	645.1	645.8	646.4	646.2	646.2	646.5	647.1	647.0	647.5	648.4	648.6	649.2	649.2	649.3	649.8	650.1	650.4	647.0	650.4	
5	650.6	650.7	651.1	651.3	651.7	652.2	652.7	653.4	653.7	654.0	654.4	654.8	655.0	655.1	655.3	655.4	655.4	655.6	655.6	655.9	656.2	656.3	656.4	656.5	654.1	656.5	
6	656.4	656.5	656.2	656.0	655.9	655.6	655.5	655.4	654.9	654.3	653.7	653.3	652.7	652.4	652.0	651.8	651.7	651.8	651.7	651.7	652.2	652.5	652.7	653.0	653.7	656.5	
7	653.3	653.7	654.0	654.2	654.5	654.7	655.0	655.3	655.2	654.9	654.4	653.9	653.4	653.0	652.6	652.4	652.3	652.2	652.0	651.9	652.1	652.3	652.5	652.5	653.4	655.3	
8	652.5	652.4	652.4	652.4	652.3	652.4	652.9	652.9	652.7	652.3	652.0	651.7	651.6	651.7	652.0	652.2	652.6	653.1	653.4	654.0	654.8	655.6	656.1	656.4	653.0	656.4	
9	656.5	656.6	656.7	656.7	656.8	656.8	656.8	656.8	656.6	656.2	655.8	655.3	654.7	654.2	654.0	653.8	653.9	654.3	654.6	655.0	655.3	655.5	655.6	655.6	655.6	656.8	
10	655.6	655.6	655.7	655.9	656.0	656.1	656.2	656.4	656.3	656.1	655.9	655.5	655.0	654.6	654.4	654.4	654.2	654.2	654.3	654.3	654.4	654.5	654.4	654.4	655.2	656.4	
11	654.4	654.3	654.3	654.3	654.4	654.7	655.0	655.1	655.0	654.9	654.7	654.7	654.3	654.1	654.3	654.4	654.2	654.3	654.9	655.5	655.9	656.2	656.2	656.2	654.8	656.2	
12	656.1	656.0	656.1	656.1	656.0	656.0	656.3	656.4	656.0	655.6	655.2	654.6	654.2	653.8	653.4	653.0	652.7	652.7	653.6	653.9	653.6	653.6	653.6	653.3	654.7	656.4	
13	653.4	653.4	653.1	652.9	652.9	653.0	653.3	653.4	653.2	652.8	652.2	651.8	651.5	651.6	651.5	651.3	651.1	651.1	650.9	651.0	651.5	652.0	652.2	652.5	652.2	653.4	
14	653.0	653.4	653.6	654.0	654.3	654.7	654.9	654.8	654.7	654.4	654.0	653.6	653.2	652.9	652.8	652.7	652.8	652.8	652.8	653.0	653.4	653.8	654.3	654.7	653.7	654.9	
15	654.9	655.0	655.0	655.2	655.3	655.4	655.5	655.5	655.3	654.9	654.6	654.2	653.8	653.7	653.5	653.3	653.4	653.8	654.1	654.2	654.5	654.6	654.6	654.6	654.5	655.5	
16	654.7	654.8	654.8	654.8	654.9	655.1	655.3	655.4	655.1	654.7	654.3	653.9	653.7	653.7	653.7	653.6	653.3	653.3	653.6	654.3	655.2	656.2	656.9	657.2	654.7	657.2	
17	657.5	657.6	657.7	657.8	658.3	658.6	658.9	659.0	659.0	658.7	658.5	658.2	657.9	657.7	657.5	657.3	656.9	656.8	656.8	657.1	657.6	657.9	658.2	658.3	657.9	659.0	
18	658.2	658.2	658.1	658.0	657.9	657.7	657.7	657.4	657.2	656.7	656.3	655.7	655.2	655.1	654.7	654.4	654.2	654.2	654.1	654.3	654.7	654.9	655.0	655.0	656.0	658.2	
19	655.0	654.8	654.8	654.7	654.6	654.6	654.6	654.4	654.2	653.8	653.4	652.8	652.2	651.8	651.3	651.0	650.8	650.6	650.5	650.5	651.0	651.3	651.2	651.2	652.7	655.0	
20	651.1	651.2	651.2	651.3	651.6	651.9	652.2	652.4	652.8	652.6	652.6	652.6	652.2	652.0	651.9	651.5	651.2	651.1	651.1	651.9	652.6	653.2	653.3	653.5	652.0	653.5	
21	653.9	654.1	654.3	654.5	654.8	655.1	655.3	655.4	655.5	655.5	655.4	655.1	654.8	654.8	655.6	656.2	656.5	656.4	656.0	655.9	656.0	656.1	656.0	656.1	655.4	656.5	
22	656.2	656.0	656.0	656.0	656.1	656.0	656.2	656.3	656.3	656.4	656.1	655.7	655.3	655.1	654.8	654.7	655.0	655.1	655.3	655.7	655.7	656.2	657.1	657.5	655.9	657.5	
23	657.0	656.2	656.1	656.6	656.6	656.4	656.3	656.5	656.8	656.8	656.9	656.8	656.7	656.7	656.8	656.7	656.8	657.1	657.2	657.4	657.6	657.7	657.8	657.7	656.9	657.8	
24	657.8	657.7	657.7	657.7	657.7	657.7	657.8	658.0	657.9	657.7	657.7	657.7	657.7	657.4	657.4	657.5	657.5	657.2	656.9	656.8	656.7	656.7	657.0	657.3	657.3	657.4	658.0
25	657.3	657.2	656.9	656.8	656.6	656.4	656.5	656.6	656.6	656.1	655.6	655.2	654.5	654.2	653.9	653.5	653.2	652.8	652.4	652.3	652.2	652.2	651.9	651.6	654.7	657.3	
26	651.3	650.9	650.5	650.2	650.1	649.9	649.8	649.8	649.6	649.1	648.9	648.7	648.2	647.5	647.0	647.5	649.0	648.0	647.6	647.5	647.2	646.8	646.4	646.1	648.7	651.3	
27	645.9	645.3	645.3	644.9	644.3	644.0	643.7	643.4	643.3	643.0	642.8	643.5	643.8	644.4	644.8	644.9	644.5	644.6	645.0	645.3	645.8	646.1	646.5	646.6	644.6	646.6	
28	647.1	647.3	647.4	647.7	647.9	648.1	648.2	648.4	648.6	648.9	648.9	648.5	648.4	648.6	648.7	649.1	649.3	649.4	649.7	650.2	650.6	650.9	651.4	651.9	649.0	651.9	
29	652.0	652.0	652.1	652.2	652.3	652.5	652.5	652.9	652.9	653.1	653.3	653.3	653.2	653.2	653.2	653.3	653.4	653.8	653.9	654.0	654.2	654.6	655.0	655.3	653.3	655.3	
30	655.6	655.7	655.9	656.1	656.4	656.5	656.8	656.9	656.8	656.8	656.6	656.0	655.4	655.1	654.8	654.6	654.5	654.5	654.5	654.7	655.2	655.5	655.7	655.9	655.7	656.9	
31	656.0	656.1	656.1	656.2	656.3	656.3	656.4	656.4	656.1	655.6	655.0	654.3	653.7	653.1	652.8	652.4	652.1	651.6	651.3	651.3	651.4	651.3	650.9	653.9	653.9	656.4	
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%	
MEAN	653.6	653.5	653.5	653.6	653.6	653.7	653.8	653.9	653.8	653.5	653.2	653.0	652.7	652.5	652.4	652.4	652.4	652.3	652.3	652.4	652.9	653.2	653.4	653.5			
MAX	658.2	658.2	658.1	658.0	658.3	658.6	658.9	659.0	659.0	658.7	658.5	658.2	657.9	657.7	657.5	657.3	656.9	657.1	657.2	657.4	657.6	657.9	658.2	658.3			



Number of Non-Zero Readings	744
Maximum 1-HR Average	659 MMHg
Maximum 24-HR Average	658 MMHg
Monthly Calibration	0
Standard Deviation	3.432
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	653.1 MMHg

Lagoon Relative Humidity (%) – August 2022

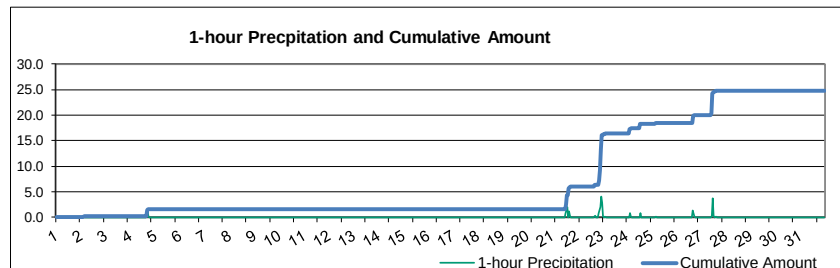
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	74.0	79.6	86.4	86.2	87.1	87.9	86.1	79.4	69.4	59.9	47.3	25.9	16.0	12.7	12.0	11.9	12.3	12.9	13.8	15.2	21.0	43.8	54.6	57.5	48.0	87.9
2	51.4	57.0	58.0	48.0	58.2	65.3	65.6	54.9	53.7	51.5	36.6	24.5	23.6	21.7	20.3	19.6	19.5	18.7	25.9	49.3	56.4	60.9	65.8	73.0	45.0	73.0
3	77.7	80.0	71.8	71.7	72.7	66.4	62.1	59.0	55.5	49.3	38.0	44.1	31.8	25.9	25.0	24.3	25.2	25.2	26.7	37.9	63.9	70.1	74.6	77.6	52.4	80.0
4	80.9	83.8	86.6	89.2	90.4	91.0	56.5	29.3	38.9	48.5	38.0	39.8	44.4	55.9	40.1	47.9	73.8	58.1	59.1	59.2	58.0	57.1	58.1	61.8	60.3	91.0
5	61.9	63.5	65.2	64.6	67.0	67.6	67.7	60.2	57.2	54.7	54.6	51.9	46.2	44.7	43.0	39.7	37.9	43.8	45.7	52.0	63.2	58.0	55.7	65.5	55.5	67.7
6	76.2	81.0	75.5	74.6	76.3	75.3	75.1	70.6	62.4	52.3	39.4	30.4	24.4	20.1	19.4	18.4	17.8	19.0	19.8	22.4	26.0	28.3	30.0	33.1	44.5	81.0
7	35.0	37.4	40.6	44.6	48.0	49.6	51.7	51.8	46.2	37.3	32.3	28.9	26.1	22.0	19.5	18.2	18.1	18.7	19.1	20.6	24.7	25.8	26.8	27.7	32.1	51.8
8	27.4	28.2	31.4	37.4	42.2	45.9	47.9	46.7	39.6	31.9	22.8	19.0	17.2	15.7	31.2	35.0	37.6	41.1	44.0	48.3	52.6	57.1	60.5	61.2	38.4	61.2
9	61.6	62.1	66.6	76.1	79.2	82.2	79.0	68.0	60.7	55.1	47.0	40.8	38.8	33.8	27.2	25.4	27.5	31.1	34.0	37.0	41.2	47.1	57.8	58.8	51.6	82.2
10	60.9	66.5	62.8	55.8	48.0	46.2	45.6	44.8	45.2	38.5	34.1	29.1	20.1	20.9	23.5	28.1	30.6	28.3	32.1	46.2	54.3	56.9	38.1	39.2	41.5	66.5
11	44.8	45.8	46.2	49.0	52.4	52.8	53.8	49.4	46.9	38.6	36.0	31.7	28.6	24.8	25.2	28.3	27.2	27.7	33.1	40.7	52.7	61.9	69.1	73.7	43.3	73.7
12	70.8	67.0	70.5	66.3	58.6	60.3	60.5	58.2	52.0	43.2	34.9	23.8	15.3	13.1	12.4	13.1	14.7	17.0	22.2	28.0	29.6	29.7	31.9	36.6	38.7	70.8
13	42.0	45.0	44.1	49.1	50.9	51.4	51.8	49.0	44.2	38.1	30.4	22.5	19.2	22.0	21.4	20.2	22.3	29.5	28.8	32.2	51.6	62.4	63.9	63.8	39.8	63.9
14	60.2	54.8	49.2	53.7	63.7	73.7	64.5	50.3	45.4	38.0	30.8	24.8	21.8	19.7	18.5	18.4	18.3	18.8	18.4	22.5	34.0	41.0	48.7	53.0	39.3	73.7
15	60.3	71.8	67.9	58.7	57.5	57.9	55.7	52.9	48.4	40.1	32.3	26.2	24.0	21.5	19.3	18.4	29.0	35.8	38.4	45.4	55.7	68.0	74.1	77.9	47.4	77.9
16	70.7	66.1	65.1	61.5	60.1	60.8	60.7	57.1	50.6	43.8	36.6	29.8	21.3	19.7	19.1	18.6	19.4	21.5	30.2	39.0	45.6	57.3	59.1	65.2	44.9	70.7
17	70.4	69.8	72.5	77.7	81.7	80.0	76.1	67.4	63.1	52.1	43.7	41.3	38.2	36.8	35.6	34.9	35.1	36.1	37.5	39.4	46.7	52.1	55.2	62.1	54.4	81.7
18	71.2	74.3	79.8	83.9	77.0	74.5	70.3	66.2	61.4	53.0	43.8	35.4	30.0	29.2	28.7	26.9	25.8	26.2	27.2	31.2	36.8	42.5	57.2	66.8	50.8	83.9
19	71.1	75.5	79.3	72.6	66.3	67.9	65.7	56.8	52.9	49.9	44.4	36.4	29.6	24.9	19.5	20.2	22.2	22.5	24.6	27.1	31.8	47.1	49.9	54.0	46.3	79.3
20	61.3	59.2	57.9	45.7	47.4	53.3	51.9	51.5	52.4	53.6	52.2	51.4	44.3	37.5	37.8	31.1	30.1	28.3	28.5	41.8	47.2	53.0	57.8	61.1	47.3	61.3
21	62.5	65.8	70.3	72.0	78.3	82.2	84.4	73.9	65.5	57.6	48.8	43.8	44.0	53.0	79.5	76.6	83.0	85.9	83.2	87.8	88.9	88.9	87.2	87.7	73.0	88.9
22	87.9	87.8	87.1	88.7	90.3	91.6	90.5	88.6	84.8	78.7	66.3	61.5	57.2	60.7	51.9	51.6	62.7	73.7	77.7	74.6	72.3	82.1	87.0	88.6	76.8	91.6
23	90.3	90.2	87.1	86.0	89.0	90.6	91.3	90.8	88.4	86.2	78.7	74.2	72.0	69.6	71.0	70.4	71.2	72.0	75.8	78.2	79.7	82.8	85.8	86.5	81.6	91.3
24	87.6	88.5	88.8	89.5	90.4	91.2	91.7	91.3	85.1	75.8	70.8	65.8	60.0	67.0	74.2	62.0	60.1	54.1	63.3	71.3	80.9	85.9	88.3	89.5	78.0	91.7
25	90.6	89.5	88.3	87.7	87.3	85.4	85.6	82.3	77.5	73.6	68.7	61.1	51.7	56.1	58.0	54.7	56.5	58.8	67.3	76.6	83.7	73.8	68.4	64.3	72.8	90.6
26	62.7	63.3	64.2	67.6	69.6	71.8	73.7	69.5	64.6	54.0	49.8	46.4	39.2	35.7	33.3	41.8	75.3	77.6	78.4	77.4	78.7	79.1	79.5	77.6	63.8	79.5
27	76.1	77.2	72.8	68.2	67.4	76.2	75.3	73.9	75.2	68.3	67.3	79.0	76.0	76.1	85.1	83.8	65.3	61.0	57.8	55.6	53.7	52.7	51.8	53.3	68.7	85.1
28	52.3	52.4	53.8	54.8	55.7	59.0	57.1	49.1	42.0	37.5	35.6	32.9	32.0	32.2	32.1	30.7	30.9	33.7	34.6	37.0	39.2	40.3	42.7	44.4	42.2	59.0
29	46.9	48.5	51.1	54.1	48.3	52.5	51.6	49.5	44.2	39.0	38.2	35.4	34.0	32.6	32.2	30.5	30.9	31.1	32.2	37.6	41.2	43.2	46.9	50.7	41.8	54.1
30	55.9	58.7	60.8	62.8	65.0	67.4	69.2	67.3	62.2	56.3	46.7	37.7	31.0	27.0	24.4	23.2	22.7	25.0	29.3	38.0	41.2	50.4	54.1	51.0	47.0	69.2
31	49.5	52.5	56.2	58.1	61.4	63.7	65.1	64.0	59.7	51.9	42.9	33.0	22.9	17.6	16.7	15.9	16.1	18.0	19.0	22.4	31.0	50.3	42.1	46.2	40.7	65.1
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	64.3	65.9	66.4	66.3	67.3	69.1	67.2	62.0	57.9	51.9	44.8	39.6	34.9	33.9	34.1	33.5	36.1	37.1	39.6	44.9	51.1	56.4	58.8	61.6		
MAX	90.6	90.2	88.8	89.5	90.4	91.6	91.7	91.3	88.4	86.2	78.7	79.0	76.0	76.1	85.1	83.8	83.0	85.9	83.2	87.8	88.9	88.9	88.3	89.5		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	91.7 %		
Maximum 24-HR Average	81.6 %		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	20.9	Operational Uptime	100.0 %
		Monthly Average	51.9 %

Lagoon Precipitation (mm) – August 2022

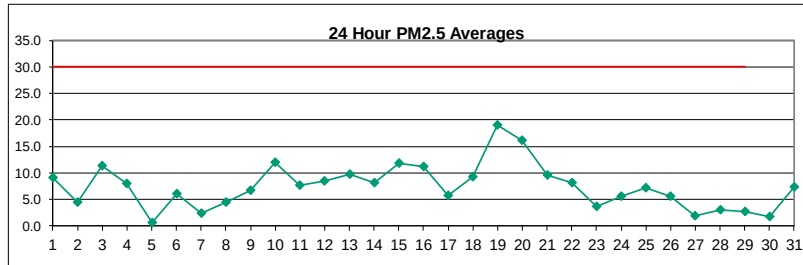
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	0.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	2.0	4.0	0.0	0.0	
23	2.8	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.8	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744
MEAN	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	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	
MAX	2.8	0.2	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.4	3.8	0.4	0.8	2.0	0.0	1.4	0.4	0.0	0.0	0.0	0.8	2.0	4.0	0.0	



Number of Non-Zero Readings	24
Maximum 1-HR Average	4.0 MM
Maximum 24-HR Average	0.3 MM
Monthly Calibration	0
Standard Deviation	0.269
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	0.03 MM

Windridge PM_{2.5} (µg/m³) – August 2022

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.0	8.0	12.0	15.0	13.0	11.0	11.0	8.0	14.0	13.0	17.0	14.0	10.0	10.0	9.0	6.0	3.0	3.0	5.0	4.0	8.0	7.0	3.0	1.0	9.0	17.0
2	1.0	2.0	3.0	3.0	2.0	2.0	0.0	0.0	0.0	2.0	3.0	C	12.0	13.0	8.0	7.0	9.0	8.0	8.0	6.0	3.0	2.0	4.0	5.0	4.5	13.0
3	3.0	2.0	5.0	5.0	6.0	5.0	5.0	15.0	11.0	19.0	11.0	14.0	17.0	7.0	15.0	18.0	24.0	15.0	17.0	19.0	13.0	7.0	15.0	5.0	11.4	24.0
4	6.0	6.0	8.0	11.0	8.0	11.0	8.0	19.0	13.0	13.0	16.0	7.0	11.0	7.0	8.0	8.0	4.0	4.0	4.0	4.0	6.0	5.0	2.0	2.0	8.0	19.0
5	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	3.0	2.0	1.0	2.0	2.0	0.7	3.0
6	2.0	2.0	3.0	1.0	4.0	3.0	1.0	0.0	0.0	2.0	4.0	4.0	3.0	4.0	6.0	13.0	24.0	16.0	9.0	4.0	5.0	22.0	7.0	5.0	6.0	24.0
7	5.0	4.0	1.0	2.0	2.0	2.0	1.0	0.0	1.0	2.0	2.0	4.0	2.0	1.0	1.0	0.0	6.0	5.0	3.0	5.0	5.0	4.0	1.0	0.0	2.5	6.0
8	1.0	3.0	4.0	2.0	1.0	1.0	1.0	4.0	5.0	7.0	7.0	7.0	6.0	9.0	8.0	9.0	6.0	5.0	4.0	4.0	5.0	3.0	2.0	3.0	4.5	9.0
9	5.0	4.0	2.0	4.0	3.0	2.0	2.0	9.0	9.0	6.0	6.0	9.0	7.0	6.0	5.0	5.0	3.0	9.0	13.0	15.0	9.0	9.0	8.0	12.0	6.8	15.0
10	10.0	11.0	8.0	9.0	6.0	6.0	9.0	9.0	10.0	69.0	6.0	6.0	16.0	11.0	8.0	8.0	9.0	17.0	19.0	10.0	9.0	10.0	8.0	5.0	12.0	69.0
11	4.0	5.0	7.0	8.0	9.0	8.0	6.0	8.0	10.0	13.0	13.0	17.0	6.0	7.0	8.0	5.0	3.0	3.0	2.0	7.0	9.0	8.0	11.0	7.0	7.7	17.0
12	6.0	9.0	13.0	10.0	9.0	6.0	6.0	7.0	10.0	11.0	13.0	8.0	5.0	10.0	23.0	3.0	2.0	10.0	11.0	13.0	10.0	5.0	2.0	3.0	8.5	23.0
13	1.0	0.0	0.0	2.0	3.0	6.0	8.0	8.0	10.0	9.0	7.0	9.0	13.0	29.0	17.0	22.0	30.0	14.0	10.0	5.0	7.0	7.0	11.0	6.0	9.8	30.0
14	3.0	4.0	4.0	4.0	5.0	8.0	9.0	7.0	5.0	8.0	11.0	19.0	23.0	19.0	15.0	17.0	5.0	6.0	6.0	2.0	1.0	1.0	4.0	9.0	8.1	23.0
15	6.0	4.0	4.0	4.0	3.0	3.0	7.0	6.0	10.0	8.0	11.0	14.0	22.0	48.0	36.0	38.0	10.0	7.0	4.0	9.0	11.0	7.0	5.0	6.0	11.8	48.0
16	7.0	9.0	6.0	6.0	7.0	7.0	8.0	7.0	15.0	20.0	16.0	33.0	20.0	24.0	9.0	11.0	9.0	11.0	8.0	5.0	11.0	8.0	4.0	8.0	11.2	33.0
17	6.0	8.0	6.0	3.0	8.0	6.0	5.0	13.0	10.0	6.0	4.0	4.0	5.0	4.0	3.0	4.0	2.0	5.0	6.0	3.0	4.0	8.0	8.0	7.0	5.8	13.0
18	8.0	8.0	13.0	7.0	5.0	7.0	12.0	10.0	9.0	11.0	14.0	12.0	7.0	8.0	6.0	4.0	7.0	9.0	9.0	11.0	8.0	15.0	16.0	5.0	9.2	16.0
19	6.0	12.0	8.0	5.0	9.0	12.0	13.0	12.0	22.0	99.0	29.0	28.0	22.0	25.0	27.0	25.0	12.0	13.0	12.0	12.0	11.0	18.0	10.0	15.0	19.0	99.0
20	17.0	19.0	15.0	14.0	9.0	15.0	14.0	24.0	19.0	8.0	16.0	11.0	17.0	16.0	19.0	12.0	15.0	14.0	27.0	11.0	11.0	22.0	25.0	18.0	16.2	27.0
21	14.0	11.0	11.0	7.0	6.0	10.0	11.0	23.0	17.0	8.0	11.0	9.0	6.0	9.0	10.0	11.0	9.0	8.0	7.0	4.0	5.0	6.0	9.0	8.0	9.6	23.0
22	6.0	4.0	7.0	9.0	8.0	7.0	11.0	8.0	8.0	7.0	11.0	11.0	10.0	9.0	10.0	10.0	9.0	15.0	10.0	8.0	7.0	6.0	4.0	2.0	8.2	15.0
23	5.0	4.0	4.0	5.0	4.0	4.0	3.0	1.0	4.0	9.0	6.0	5.0	5.0	3.0	3.0	2.0	1.0	3.0	2.0	0.0	3.0	4.0	6.0	4.0	3.8	9.0
24	2.0	2.0	2.0	2.0	3.0	4.0	3.0	6.0	7.0	9.0	7.0	8.0	10.0	6.0	6.0	8.0	7.0	6.0	5.0	5.0	7.0	7.0	6.0	8.0	5.7	10.0
25	8.0	9.0	6.0	7.0	14.0	10.0	11.0	9.0	7.0	6.0	8.0	10.0	9.0	10.0	9.0	5.0	4.0	3.0	4.0	3.0	4.0	5.0	7.0	5.0	7.2	14.0
26	2.0	3.0	3.0	2.0	3.0	4.0	1.0	0.0	5.0	10.0	9.0	6.0	10.0	8.0	17.0	37.0	0.0	3.0	3.0	3.0	3.0	2.0	0.0	0.0	5.6	37.0
27	0.0	2.0	4.0	4.0	1.0	0.0	1.0	0.0	0.0	1.0	2.0	2.0	0.0	1.0	1.0	3.0	2.0	2.0	6.0	3.0	2.0	3.0	3.0	2.0	1.9	6.0
28	1.0	0.0	0.0	2.0	3.0	0.0	0.0	2.0	3.0	5.0	7.0	4.0	3.0	9.0	8.0	3.0	2.0	5.0	4.0	3.0	1.0	0.0	3.0	4.0	3.0	9.0
29	0.0	0.0	5.0	3.0	3.0	0.0	0.0	1.0	2.0	8.0	6.0	6.0	4.0	3.0	1.0	2.0	4.0	4.0	3.0	3.0	2.0	3.0	2.0	0.0	2.7	8.0
30	4.0	3.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	2.0	2.0	3.0	3.0	3.0	6.0	8.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.0
31	1.0	2.0	4.0	4.0	3.0	2.0	3.0	3.0	2.0	3.0	0.0	2.0	14.0	17.0	19.0	23.0	15.0	14.0	15.0	11.0	6.0	4.0	4.0	7.0	7.4	23.0
NO.	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	743	100.0%
MEAN	5.0	5.2	5.5	5.2	5.2	5.3	5.5	7.1	7.7	12.7	8.9	9.6	9.6	10.8	10.4	10.6	7.7	7.7	7.6	6.3	6.1	6.7	6.2	5.3	7.5	
MAX	17.0	19.0	15.0	15.0	14.0	15.0	14.0	24.0	22.0	99.0	29.0	33.0	23.0	48.0	36.0	38.0	30.0	17.0	27.0	19.0	13.0	22.0	25.0	18.0	17.4	70.0



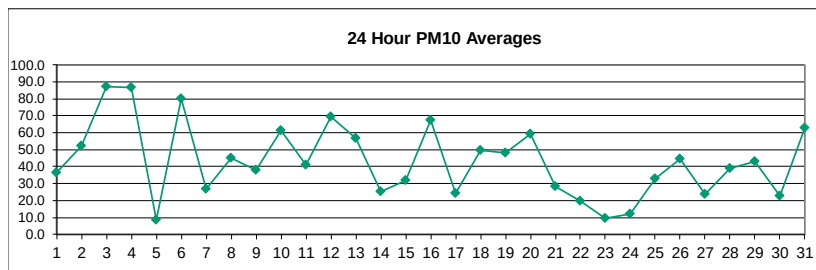
Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	687	
Maximum 1-HR Average	99.0 UG/M3	
Maximum 24-HR Average	19.0 UG/M3	
Monthly Calibration	1	Operational Time
Standard Deviation	7.3	Operational Uptime
		Monthly Average
		744 HRS
		100.0 %
		7.4 UG/M3

Windridge PM₁₀ (µg/m³) – August 2022

Day	HOUR																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	16.0	22.0	23.0	20.0	11.0	12.0	20.0	20.0	35.0	60.0	15.0	25.0	38.0	146.0	100.0	49.0	55.0	51.0	48.0	28.0	34.0	20.0	15.0	10.0
2	6.0	3.0	8.0	71.0	4.0	3.0	4.0	6.0	10.0	13.0	63.0	C	164.0	177.0	169.0	130.0	88.0	96.0	79.0	33.0	18.0	10.0	16.0	28.0
3	14.0	9.0	39.0	31.0	18.0	9.0	61.0	156.0	73.0	155.0	115.0	74.0	129.0	142.0	123.0	274.0	172.0	144.0	125.0	130.0	27.0	22.0	28.0	23.0
4	22.0	22.0	17.0	15.0	23.0	56.0	43.0	224.0	178.0	195.0	236.0	103.0	200.0	81.0	120.0	82.0	27.0	36.0	62.0	108.0	97.0	56.0	47.0	29.0
5	25.0	20.0	0.0	3.0	1.0	0.0	1.0	2.0	7.0	9.0	12.0	7.0	7.0	11.0	6.0	4.0	8.0	6.0	5.0	12.0	10.0	17.0	12.0	15.0
6	8.0	6.0	7.0	6.0	2.0	9.0	7.0	4.0	16.0	54.0	102.0	22.0	59.0	130.0	141.0	256.0	308.0	214.0	266.0	32.0	34.0	131.0	64.0	42.0
7	37.0	20.0	3.0	5.0	5.0	8.0	5.0	1.0	5.0	34.0	32.0	20.0	17.0	22.0	50.0	56.0	92.0	40.0	41.0	29.0	31.0	37.0	28.0	23.0
8	77.0	37.0	5.0	5.0	4.0	5.0	23.0	32.0	15.0	29.0	125.0	119.0	153.0	102.0	75.0	53.0	66.0	40.0	22.0	14.0	24.0	23.0	19.0	17.0
9	21.0	23.0	13.0	16.0	24.0	12.0	15.0	110.0	131.0	48.0	38.0	41.0	39.0	30.0	24.0	18.0	22.0	37.0	37.0	33.0	34.0	51.0	45.0	50.0
10	35.0	33.0	35.0	42.0	32.0	38.0	37.0	98.0	133.0	118.0	67.0	61.0	11.0	40.0	41.0	49.0	74.0	176.0	179.0	36.0	47.0	50.0	25.0	17.0
11	15.0	20.0	18.0	19.0	20.0	28.0	23.0	47.0	77.0	108.0	112.0	96.0	69.0	52.0	47.0	24.0	28.0	24.0	11.0	20.0	28.0	23.0	42.0	32.0
12	36.0	22.0	37.0	46.0	18.0	27.0	47.0	61.0	102.0	100.0	224.0	51.0	47.0	13.0	26.0	31.0	25.0	278.0	177.0	180.0	78.0	8.0	8.0	26.0
13	17.0	13.0	44.0	18.0	22.0	17.0	16.0	28.0	71.0	130.0	75.0	63.0	116.0	53.0	83.0	230.0	110.0	68.0	97.0	13.0	15.0	15.0	30.0	17.0
14	13.0	10.0	8.0	10.0	21.0	20.0	52.0	17.0	11.0	12.0	52.0	31.0	33.0	51.0	36.0	82.0	38.0	24.0	28.0	8.0	4.0	6.0	27.0	18.0
15	10.0	10.0	13.0	13.0	19.0	20.0	24.0	65.0	61.0	47.0	32.0	31.0	41.0	42.0	48.0	59.0	28.0	32.0	23.0	38.0	54.0	19.0	18.0	12.0
16	13.0	24.0	13.0	21.0	35.0	43.0	91.0	99.0	134.0	128.0	138.0	146.0	102.0	194.0	45.0	109.0	49.0	52.0	52.0	22.0	44.0	36.0	15.0	16.0
17	15.0	29.0	22.0	9.0	17.0	33.0	42.0	56.0	35.0	19.0	25.0	23.0	14.0	17.0	19.0	21.0	20.0	21.0	20.0	17.0	21.0	35.0	25.0	22.0
18	26.0	55.0	63.0	16.0	19.0	24.0	53.0	80.0	80.0	69.0	223.0	36.0	50.0	48.0	30.0	29.0	21.0	24.0	29.0	35.0	34.0	52.0	51.0	39.0
19	27.0	32.0	23.0	21.0	40.0	32.0	41.0	94.0	137.0	89.0	146.0	94.0	50.0	43.0	30.0	27.0	26.0	26.0	32.0	22.0	27.0	28.0	39.0	32.0
20	65.0	63.0	30.0	33.0	24.0	26.0	24.0	132.0	125.0	33.0	95.0	60.0	162.0	87.0	34.0	19.0	66.0	40.0	151.0	28.0	24.0	32.0	40.0	28.0
21	20.0	24.0	17.0	15.0	20.0	23.0	24.0	190.0	63.0	43.0	21.0	21.0	14.0	50.0	23.0	17.0	14.0	9.0	10.0	13.0	9.0	11.0	9.0	17.0
22	14.0	16.0	23.0	25.0	23.0	23.0	19.0	18.0	29.0	25.0	25.0	22.0	25.0	21.0	21.0	27.0	20.0	24.0	16.0	10.0	8.0	16.0	13.0	10.0
23	7.0	10.0	7.0	6.0	4.0	7.0	8.0	10.0	23.0	24.0	10.0	13.0	12.0	7.0	6.0	7.0	7.0	9.0	8.0	9.0	8.0	10.0	10.0	6.0
24	5.0	2.0	6.0	8.0	6.0	7.0	9.0	12.0	19.0	19.0	22.0	15.0	9.0	23.0	12.0	17.0	14.0	9.0	16.0	11.0	9.0	13.0	16.0	17.0
25	22.0	72.0	40.0	32.0	58.0	30.0	50.0	25.0	41.0	101.0	100.0	45.0	22.0	21.0	20.0	18.0	12.0	13.0	19.0	7.0	7.0	7.0	13.0	11.0
26	7.0	8.0	7.0	8.0	8.0	13.0	8.0	24.0	57.0	138.0	76.0	48.0	54.0	48.0	48.0	466.0	15.0	11.0	8.0	5.0	3.0	3.0	5.0	6.0
27	4.0	11.0	15.0	8.0	4.0	4.0	6.0	4.0	4.0	15.0	17.0	21.0	23.0	18.0	5.0	11.0	30.0	52.0	48.0	76.0	60.0	38.0	78.0	13.0
28	23.0	20.0	6.0	40.0	2.0	4.0	8.0	39.0	47.0	48.0	42.0	29.0	92.0	129.0	89.0	54.0	28.0	25.0	32.0	21.0	31.0	52.0	42.0	29.0
29	11.0	22.0	12.0	9.0	28.0	7.0	67.0	83.0	60.0	86.0	35.0	48.0	57.0	75.0	82.0	80.0	75.0	46.0	30.0	45.0	33.0	27.0	10.0	6.0
30	5.0	7.0	7.0	4.0	3.0	4.0	7.0	15.0	15.0	41.0	26.0	22.0	56.0	32.0	43.0	41.0	56.0	61.0	3.0	5.0	4.0	38.0	27.0	27.0
31	3.0	4.0	16.0	5.0	3.0	10.0	19.0	20.0	31.0	22.0	43.0	41.0	39.0	134.0	245.0	285.0	170.0	134.0	150.0	57.0	11.0	7.0	21.0	33.0

MEAN	MAX
36.4	146.0
52.1	177.0
87.2	274.0
86.6	236.0
8.3	25.0
80.0	308.0
26.7	92.0
45.2	153.0
38.0	131.0
61.4	179.0
41.0	112.0
69.5	278.0
56.7	230.0
25.5	82.0
31.6	65.0
67.5	194.0
24.0	56.0
49.4	223.0
48.3	146.0
59.2	162.0
28.2	190.0
19.7	29.0
9.5	24.0
12.3	23.0
32.8	101.0
44.8	466.0
23.5	78.0
38.8	129.0
43.1	86.0
22.9	61.0
62.6	285.0

NO.	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	
MEAN	20.0	21.6	18.6	18.7	16.7	17.9	27.5	57.2	58.9	64.9	75.6	47.6	61.4	65.8	59.4	84.7	56.9	58.8	58.8	35.4	28.0	28.8	27.0	21.6
MAX	77.0	72.0	63.0	71.0	58.0	56.0	91.0	224.0	178.0	195.0	236.0	146.0	200.0	194.0	245.0	466.0	308.0	278.0	266.0	180.0	97.0	131.0	78.0	50.0



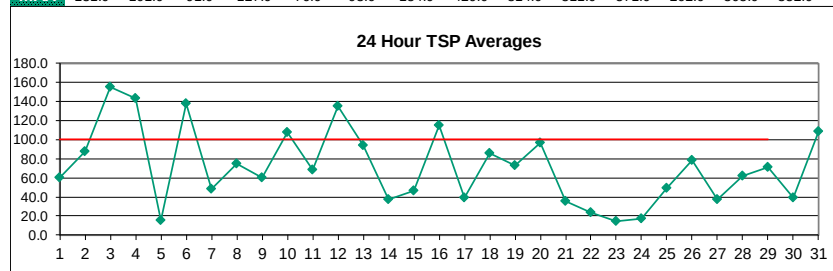
Number of Non-Zero Readings	741
Maximum 1-HR Average	466.0 UG/M3
Maximum 24-HR Average	87.2 UG/M3
Monthly Calibration	1
Standard Deviation	49.8
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	43.0 UG/M3

Windridge TSP ($\mu\text{g}/\text{m}^3$) – August 2022

HOUR																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	23.0	26.0	28.0	29.0	16.0	21.0	20.0	26.0	44.0	115.0	25.0	35.0	67.0	266.0	174.0	92.0	92.0	80.0	72.0	51.0	54.0	39.0	30.0	17.0
2	7.0	10.0	7.0	127.0	3.0	7.0	6.0	15.0	21.0	32.0	106.0	C	262.0	290.0	266.0	215.0	143.0	178.0	151.0	59.0	28.0	17.0	28.0	36.0
3	16.0	15.0	56.0	57.0	22.0	21.0	111.0	273.0	131.0	291.0	209.0	104.0	247.0	259.0	229.0	493.0	302.0	268.0	232.0	255.0	29.0	28.0	36.0	28.0
4	24.0	33.0	26.0	22.0	41.0	93.0	73.0	429.0	314.0	311.0	408.0	177.0	305.0	112.0	201.0	124.0	41.0	52.0	108.0	161.0	157.0	101.0	84.0	44.0
5	44.0	37.0	6.0	3.0	0.0	2.0	3.0	3.0	27.0	11.0	28.0	12.0	21.0	15.0	8.0	16.0	20.0	4.0	6.0	23.0	16.0	27.0	18.0	17.0
6	12.0	7.0	9.0	9.0	6.0	8.0	7.0	9.0	27.0	104.0	180.0	43.0	111.0	244.0	239.0	441.0	515.0	351.0	452.0	65.0	65.0	227.0	103.0	68.0
7	66.0	39.0	14.0	8.0	12.0	9.0	11.0	10.0	10.0	64.0	50.0	33.0	34.0	43.0	79.0	90.0	140.0	78.0	85.0	63.0	54.0	71.0	52.0	44.0
8	131.0	72.0	9.0	6.0	6.0	6.0	33.0	59.0	38.0	51.0	206.0	188.0	255.0	174.0	118.0	71.0	116.0	63.0	36.0	31.0	32.0	34.0	24.0	25.0
9	25.0	35.0	23.0	30.0	30.0	20.0	14.0	180.0	204.0	84.0	71.0	60.0	58.0	51.0	40.0	36.0	41.0	69.0	51.0	51.0	51.0	77.0	72.0	80.0
10	63.0	54.0	54.0	64.0	40.0	53.0	54.0	169.0	225.0	247.0	115.0	103.0	19.0	64.0	76.0	89.0	146.0	344.0	360.0	43.0	67.0	65.0	44.0	20.0
11	14.0	40.0	43.0	44.0	33.0	44.0	41.0	76.0	132.0	174.0	189.0	149.0	95.0	80.0	108.0	35.0	43.0	38.0	28.0	26.0	53.0	37.0	71.0	36.0
12	52.0	45.0	46.0	65.0	26.0	50.0	81.0	99.0	180.0	175.0	571.0	103.0	87.0	32.0	48.0	48.0	48.0	599.0	342.0	333.0	131.0	14.0	13.0	45.0
13	17.0	24.0	55.0	23.0	26.0	20.0	19.0	17.0	129.0	220.0	143.0	112.0	234.0	82.0	129.0	395.0	183.0	115.0	174.0	22.0	22.0	20.0	42.0	24.0
14	15.0	9.0	12.0	12.0	31.0	25.0	75.0	32.0	17.0	17.0	67.0	40.0	44.0	67.0	47.0	127.0	61.0	42.0	51.0	14.0	10.0	18.0	31.0	29.0
15	16.0	11.0	20.0	16.0	19.0	23.0	31.0	101.0	116.0	64.0	50.0	41.0	55.0	53.0	61.0	84.0	51.0	48.0	43.0	63.0	87.0	26.0	24.0	19.0
16	17.0	24.0	19.0	27.0	49.0	69.0	154.0	166.0	212.0	216.0	236.0	262.0	194.0	352.0	80.0	186.0	83.0	75.0	117.0	36.0	59.0	80.0	17.0	20.0
17	27.0	44.0	34.0	9.0	32.0	45.0	90.0	99.0	48.0	31.0	39.0	39.0	32.0	31.0	36.0	31.0	27.0	27.0	24.0	26.0	35.0	62.0	42.0	34.0
18	41.0	84.0	91.0	25.0	27.0	35.0	77.0	120.0	117.0	107.0	571.0	69.0	79.0	74.0	54.0	42.0	37.0	42.0	39.0	51.0	53.0	82.0	73.0	68.0
19	40.0	44.0	27.0	28.0	50.0	45.0	73.0	146.0	172.0	151.0	254.0	157.0	82.0	62.0	41.0	42.0	37.0	33.0	29.0	34.0	42.0	45.0	59.0	49.0
20	107.0	101.0	50.0	50.0	29.0	30.0	37.0	204.0	196.0	67.0	181.0	95.0	273.0	183.0	56.0	36.0	129.0	58.0	250.0	37.0	28.0	38.0	44.0	30.0
21	31.0	26.0	14.0	18.0	30.0	35.0	35.0	240.0	77.0	47.0	31.0	21.0	25.0	92.0	34.0	21.0	16.0	8.0	7.0	9.0	6.0	9.0	11.0	10.0
22	17.0	23.0	25.0	24.0	25.0	18.0	14.0	20.0	33.0	26.0	38.0	25.0	36.0	34.0	27.0	38.0	33.0	29.0	23.0	10.0	10.0	17.0	13.0	10.0
23	6.0	15.0	8.0	4.0	7.0	4.0	8.0	19.0	38.0	43.0	13.0	25.0	15.0	15.0	15.0	12.0	10.0	17.0	12.0	12.0	14.0	15.0	9.0	3.0
24	2.0	6.0	16.0	7.0	6.0	9.0	13.0	19.0	38.0	23.0	18.0	21.0	19.0	33.0	15.0	27.0	23.0	8.0	22.0	16.0	14.0	10.0	21.0	19.0
25	22.0	83.0	46.0	38.0	76.0	39.0	74.0	35.0	76.0	174.0	183.0	79.0	41.0	43.0	30.0	22.0	21.0	21.0	24.0	9.0	14.0	16.0	14.0	10.0
26	17.0	16.0	10.0	14.0	11.0	17.0	8.0	21.0	93.0	238.0	118.0	69.0	93.0	87.0	80.0	899.0	19.0	25.0	6.0	8.0	4.0	5.0	5.0	7.0
27	7.0	17.0	18.0	13.0	9.0	6.0	2.0	4.0	6.0	29.0	33.0	28.0	37.0	33.0	3.0	22.0	51.0	97.0	88.0	107.0	78.0	68.0	123.0	22.0
28	34.0	29.0	4.0	59.0	1.0	1.0	17.0	57.0	91.0	90.0	70.0	42.0	169.0	190.0	133.0	84.0	43.0	44.0	49.0	27.0	41.0	83.0	79.0	41.0
29	27.0	37.0	14.0	16.0	55.0	4.0	107.0	117.0	94.0	168.0	54.0	79.0	97.0	127.0	146.0	141.0	113.0	72.0	47.0	75.0	42.0	50.0	23.0	11.0
30	11.0	9.0	8.0	5.0	4.0	6.0	7.0	22.0	29.0	65.0	39.0	47.0	100.0	59.0	76.0	69.0	99.0	115.0	7.0	5.0	4.0	64.0	50.0	47.0
31	9.0	10.0	20.0	10.0	6.0	15.0	30.0	15.0	53.0	29.0	77.0	68.0	65.0	258.0	417.0	520.0	290.0	229.0	273.0	116.0	14.0	11.0	24.0	47.0

MEAN	MAX
60.1	266.0
87.6	290.0
154.7	493.0
143.4	429.0
15.3	44.0
137.6	515.0
48.3	140.0
74.3	255.0
60.5	204.0
107.4	360.0
67.9	189.0
134.7	599.0
93.6	395.0
37.2	127.0
46.8	116.0
114.6	352.0
39.3	99.0
85.8	571.0
72.6	254.0
96.2	273.0
35.5	240.0
23.7	38.0
14.1	43.0
16.9	10.0
49.6	183.0
77.9	899.0
37.5	123.0
61.6	190.0
71.5	168.0
39.5	115.0
108.6	520.0
743	100.0%

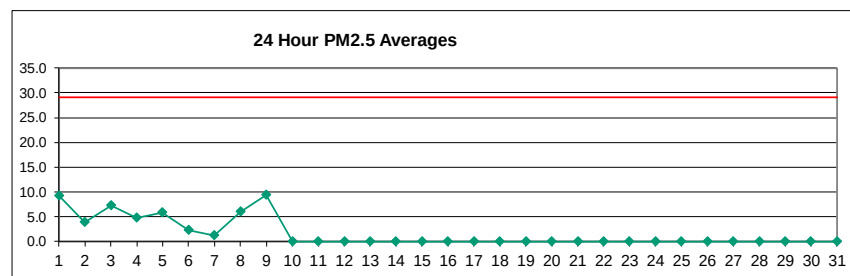
	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31	31
NO MEAN	30.3	33.1	26.2	27.8	23.5	25.2	42.7	90.4	96.4	111.7	141.1	77.5	104.9	113.1	98.9	146.7	95.9	104.2	103.5	59.3	42.4	47.0	41.3	31.0
MAX	131.0	101.0	91.0	127.0	76.0	93.0	154.0	429.0	314.0	311.0	571.0	262.0	305.0	352.0	417.0	899.0	515.0	599.0	452.0	333.0	157.0	227.0	123.0	80.0



Number of 24HR Exceedences	7	Proposed Guideline	
Number of Non-Zero Readings	742		
Maximum 1-HR Average	899.0	UG/M3	
Maximum 24-HR Average	154.7	UG/M3	
IZS Calibration Time		Operational Time	744 HRS
Down Time	0	Operational Uptime	100.0 %
Standard Deviation	91.6	Monthly Average	71.4 UG/M3

West PM_{2.5} (µg/m³) – August 2022

HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	14.8	15.2	17.0	20.3	14.9	15.6	16.7	15.3	12.7	11.3	9.9	8.1	4.5	3.0	2.9	2.5	2.3	2.0	2.1	2.4	2.5	7.3	8.6	8.2	9.2	20.3
2	3.1	7.4	3.3	3.1	3.3	4.7	6.3	3.6	5.5	4.1	3.6	2.9	2.7	2.6	2.6	2.4	2.3	2.3	2.3	5.0	5.0	4.6	4.4	7.3	3.9	7.4
3	7.5	8.3	6.2	6.8	7.5	7.7	8.4	8.5	8.2	7.4	7.6	11.7	6.3	5.3	5.0	4.3	3.7	4.2	5.1	6.2	8.1	8.0	10.3	9.9	7.2	11.7
4	9.3	9.6	10.8	9.4	10.2	10.2	8.8	9.7	8.0	6.3	4.1	3.8	2.6	1.9	2.3	1.8	1.5	0.7	0.4	0.3	0.4	0.5	0.4	0.4	4.7	10.8
5	0.4	0.4	0.4	0.4	0.5	0.8	0.8	2.1	2.0	11.8	14.8	11.0	9.3	7.1	6.5	8.8	15.4	10.1	6.2	7.1	4.4	10.4	4.7	4.1	5.8	15.4
6	8.0	5.5	3.8	3.7	2.6	2.6	2.8	2.6	2.7	2.7	1.9	1.3	1.0	1.0	1.0	1.0	0.9	0.6	0.7	0.9	1.3	1.3	1.3	1.3	2.2	8.0
7	1.3	1.2	1.3	1.5	1.6	1.7	1.7	2.0	1.9	1.3	1.2	1.1	1.0	0.8	1.3	1.0	1.0	0.8	0.9	1.0	0.9	1.0	1.1	1.1	1.2	2.0
8	1.2	1.1	1.5	2.3	2.4	3.5	3.8	4.0	4.6	4.7	2.7	2.0	1.6	1.5	10.3	13.3	16.1	17.5	12.8	11.4	8.8	6.0	5.2	5.3	6.0	17.5
9	5.2	5.4	5.0	6.5	9.8	9.9	7.3	6.4	6.0	5.5	5.8	11.3	14.2	15.6	13.7	17.9	18.3	9.6	7.5	6.8	8.1	9.4	12.3	9.9	9.5	18.3
10	13.3	7.1	7.1	7.1	7.7	8.5	9.1	8.9	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
11	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
12	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
13	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
15	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
16	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
17	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
18	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
19	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
20	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
21	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
22	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
23	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
24	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
25	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
26	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
27	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
28	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
29	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
30	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
31	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
NO.	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	224	30%
MEAN	6.4	6.1	5.6	6.1	6.0	6.5	6.6	6.3	5.7	6.1	5.7	4.8	4.3	5.1	5.9	6.8	5.3	4.2	4.6	4.4	5.4	5.4	5.3			
MAX	14.8	15.2	17.0	20.3	14.9	15.6	16.7	15.3	12.7	11.8	14.8	11.7	14.2	15.6	13.7	17.9	18.3	17.5	12.8	11.4	8.8	10.4	12.3	9.9		

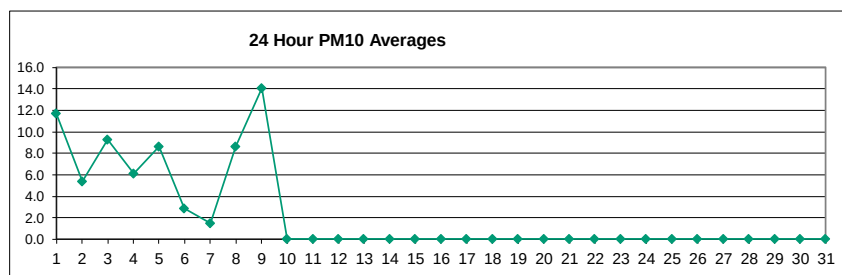


Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	224		
Maximum 1-HR Average	20.3	UG/M3	
Maximum 24-HR Average	9.5	UG/M3	
IZS Calibration Time		Operational Time	224 HRS
Down Time	0	Operational Uptime	30.1 %
Standard Deviation	4.514	Monthly Average	5.6 UG/M3

West PM₁₀ (µg/m³) – August 2022

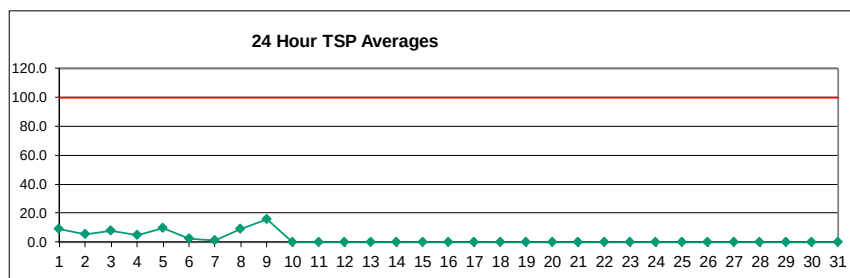
Hour																								
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	20.8	19.8	20.6	26.1	17.7	18.5	21.5	20.9	14.9	13.5	12.1	10.3	5.6	4.0	4.0	3.2	2.7	2.3	2.7	3.0	3.0	9.3	12.5	12.0
2	3.9	10.8	4.1	3.9	3.9	6.1	9.2	4.8	8.1	5.6	4.9	3.9	4.4	3.3	3.4	3.1	2.9	2.8	2.6	7.4	7.3	6.4	6.2	10.6
3	11.0	12.4	8.5	9.4	10.0	9.2	10.5	11.3	10.8	9.6	9.9	14.4	7.5	6.4	6.0	5.2	4.4	4.8	5.6	7.0	10.9	11.0	14.4	13.4
4	12.7	13.0	14.8	12.1	13.4	13.6	11.5	12.8	10.0	7.3	4.6	4.5	3.1	2.2	2.7	2.3	1.8	0.8	0.5	0.4	0.5	0.6	0.5	0.5
5	0.4	0.4	0.5	0.5	0.6	0.9	1.0	3.0	2.9	17.7	22.1	16.5	14.0	10.6	9.7	13.1	23.0	15.2	9.3	10.6	6.5	15.1	6.9	6.0
6	12.0	8.1	4.7	4.7	3.2	3.1	3.5	3.4	3.5	3.5	2.4	1.6	1.2	1.4	1.4	1.4	1.2	0.8	0.8	1.2	1.6	1.7	1.6	1.5
7	1.4	1.4	1.5	1.6	1.9	2.0	2.0	2.5	2.3	1.4	1.4	1.4	1.3	1.1	1.8	1.4	1.4	1.0	1.2	1.3	1.1	1.2	1.4	1.3
8	1.5	1.3	1.6	2.7	2.9	4.7	5.4	5.6	6.8	6.8	3.5	2.7	2.1	2.0	14.8	19.5	23.6	25.9	18.6	16.9	13.2	9.0	7.8	7.8
9	7.7	8.1	7.5	9.6	14.5	14.3	10.3	9.4	8.9	8.1	8.6	16.8	21.1	23.4	20.5	26.5	27.3	14.3	11.2	10.1	12.1	13.9	18.3	14.2
10	17.9	9.0	9.2	9.0	10.5	11.6	12.2	11.8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
11	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
12	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
13	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
15	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
16	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
17	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
18	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
19	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
20	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
21	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
22	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
23	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
24	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
25	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
26	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
27	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
28	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
29	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
30	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
31	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
No.	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Mean	8.9	8.4	7.3	8.0	7.8	8.4	8.7	8.5	7.6	8.2	7.7	8.0	6.7	6.0	7.1	8.4	9.8	7.5	5.8	6.4	6.2	7.6	7.7	7.5
Max	20.8	19.8	20.6	26.1	17.7	18.5	21.5	20.9	14.9	17.7	22.1	16.8	21.1	23.4	20.5	26.5	27.3	25.9	18.6	16.9	13.2	15.1	18.3	14.2

	MEAN	MAX
✓	11.7	✓ 26.1
✓	5.4	✓ 10.8
✓	9.3	✓ 14.4
✓	6.1	✓ 14.8
✓	8.6	✓ 23.0
✓	2.9	✓ 12.0
✓	1.5	✓ 2.5
✓	8.6	✓ 25.9
✓	14.0	✓ 27.3
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
224		30%



Number of Non-Zero Readings	224		
Maximum 1-HR Average	27.3 UG/M3		
Maximum 24-HR Average	14.0 UG/M3		
IZS Calibration Time		OperatioEI Time	224 HRS
Down Time	0	OperatioEI Uptime	30.1 %
Standard Deviation	6.4	Monthly Average	7.7 UG/M3

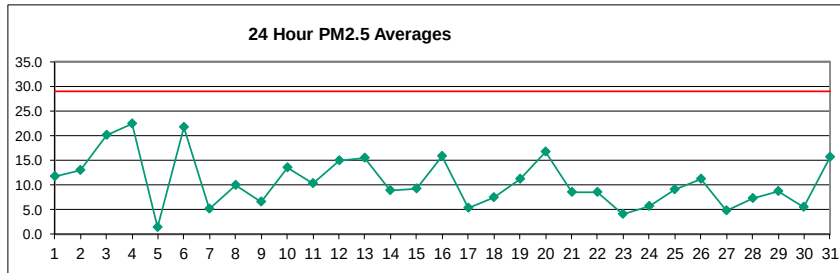
West TSP ($\mu\text{g}/\text{m}^3$) – August 2022

[illegible]

Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	224		
Maximum 1-HR Average	31.7	UG/M3	
Maximum 24-HR Average	15.7	UG/M3	
IZS Calibration Time		Operational Time	224 HRS
Down Time	0	Operational Uptime	30.1 %
Standard Deviation	7.004	Monthly Average	7.5 UG/M3

Berm PM_{2.5} (µg/m³) – August 2022

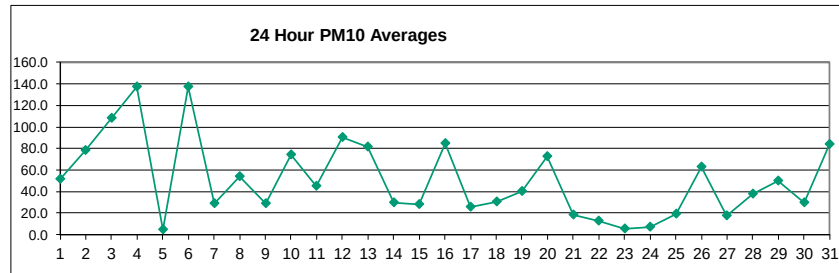
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.0	10.9	10.8	9.0	10.3	10.7	11.4	10.7	11.2	14.6	8.1	7.0	30.9	39.4	22.0	16.7	14.4	10.6	5.9	4.7	3.0	5.2	4.2	3.1	11.8	39.4
2	1.9	1.9	2.6	7.4	1.8	1.8	1.7	2.6	2.7	4.9	19.4	54.3	P	44.8	48.6	29.8	15.4	19.0	19.6	4.3	4.0	3.1	3.8	3.5	13.0	54.3
3	2.9	3.6	6.4	5.5	4.2	4.9	8.7	16.7	14.0	27.4	20.7	11.5	50.9	36.2	25.4	67.8	45.5	39.2	32.3	33.4	6.5	6.1	6.9	6.8	20.1	67.8
4	6.5	7.0	4.9	4.7	7.7	15.4	13.7	64.1	43.0	37.2	58.8	40.5	72.9	25.2	58.9	19.6	6.2	7.7	10.0	8.7	9.4	10.3	6.0	2.0	22.5	72.9
5	3.3	2.4	0.7	0.4	0.4	0.6	0.6	0.6	3.1	0.9	1.3	0.8	0.8	0.7	0.8	0.6	1.0	0.7	1.0	1.4	1.6	3.2	3.5	2.2	1.4	3.5
6	1.6	1.7	2.0	2.1	1.7	1.8	1.7	1.7	2.3	10.2	32.0	17.1	23.7	45.7	41.5	88.3	89.5	61.3	61.9	4.3	3.5	15.1	6.4	6.0	21.8	89.5
7	4.4	2.0	1.2	1.2	1.6	1.8	1.3	1.5	1.8	8.7	9.3	3.7	4.4	6.4	12.3	11.0	14.9	7.4	8.1	4.5	2.8	5.4	4.5	3.1	5.1	14.9
8	5.7	2.9	1.1	1.3	1.4	1.7	5.1	6.2	5.4	8.4	37.1	42.4	41.1	32.0	8.5	6.4	6.1	3.8	3.0	3.2	3.6	4.2	3.8	3.5	9.9	42.4
9	3.7	4.7	3.8	3.9	3.2	2.7	3.7	13.4	25.2	9.7	9.5	5.9	6.6	4.6	4.1	3.5	3.9	6.0	7.2	6.1	6.1	7.2	6.3	6.5	6.6	25.2
10	6.1	7.0	6.9	8.2	7.8	8.9	9.2	19.0	21.3	16.2	14.3	13.1	10.2	12.9	21.1	20.4	13.2	39.9	34.1	9.2	7.5	6.1	6.2	5.5	13.5	39.9
11	6.5	6.8	8.2	8.1	8.0	8.4	9.3	9.9	14.7	24.7	35.9	20.3	22.1	13.3	9.6	4.1	4.0	2.8	3.1	4.3	5.2	6.1	7.1	5.3	10.3	35.9
12	7.1	8.3	8.2	9.7	6.7	7.3	10.4	12.0	21.9	24.7	14.3	12.1	12.3	7.0	11.6	7.7	11.5	58.7	57.9	32.4	8.7	2.6	2.2	4.1	15.0	58.7
13	2.8	3.9	6.0	5.3	7.6	7.7	6.5	6.7	12.9	23.1	15.3	26.4	39.3	27.0	33.2	65.4	23.4	20.9	16.7	3.6	5.7	4.5	4.5	5.2	15.6	65.4
14	4.0	3.2	3.4	7.5	5.7	4.9	8.4	6.4	4.7	4.3	17.6	16.7	16.1	22.1	21.5	19.9	11.6	10.4	6.9	2.7	2.0	2.2	5.1	5.7	8.9	22.1
15	3.7	4.4	6.1	4.8	5.1	4.7	5.9	12.1	11.5	12.1	8.5	15.0	14.9	18.1	23.8	23.0	9.1	4.9	4.9	6.1	7.7	5.4	5.5	5.8	9.3	23.8
16	5.9	6.3	5.8	6.4	7.0	6.5	10.1	15.1	21.7	30.2	33.3	30.6	33.9	55.8	33.0	24.6	13.6	10.3	8.5	4.8	7.2	5.0	3.5	3.2	15.9	55.8
17	2.7	4.6	3.5	2.4	10.8	6.5	10.5	10.3	22.7	P	3.5	3.9	3.2	3.2	3.4	2.8	2.7	3.1	2.8	2.8	3.3	5.8	4.9	4.0	5.4	22.7
18	4.1	6.1	3.1	2.7	4.2	4.6	9.8	13.7	14.4	15.8	13.2	6.9	7.1	8.7	5.4	4.9	4.6	5.1	5.6	6.6	7.7	8.1	7.9	7.7	7.4	15.8
19	6.6	6.5	6.9	7.8	9.3	9.2	11.6	23.5	22.8	22.1	32.3	22.3	11.6	9.5	8.7	6.9	5.5	5.3	5.2	6.1	6.7	6.5	7.0	7.3	11.1	32.3
20	12.2	15.1	11.6	12.1	10.2	10.2	11.7	17.9	28.3	11.8	24.5	21.5	34.3	18.7	9.6	7.5	29.4	29.3	45.7	7.8	8.1	8.5	8.9	8.5	16.8	45.7
21	9.5	9.4	7.5	10.8	7.9	8.3	9.7	18.0	23.5	9.3	6.1	5.2	5.4	8.0	7.3	8.5	8.5	5.9	5.7	5.2	4.3	6.1	7.8	8.1	8.6	23.5
22	10.0	9.4	12.0	11.0	11.3	9.3	10.0	10.4	11.7	11.3	10.2	8.6	8.7	7.7	6.6	6.3	6.7	7.8	7.1	6.7	6.3	6.7	5.7	5.2	8.6	12.0
23	4.4	4.8	4.1	3.6	3.2	3.9	4.1	5.6	6.1	6.4	4.2	4.3	3.8	3.9	4.9	4.0	3.7	3.1	3.2	3.5	3.2	4.0	3.6	2.4	4.1	6.4
24	2.1	2.5	3.5	4.5	5.4	4.6	4.7	4.9	7.5	8.3	7.3	6.3	5.8	5.9	6.5	5.8	5.6	4.6	5.5	6.4	7.0	7.1	6.9	7.0	5.7	8.3
25	7.7	21.1	11.0	8.1	11.4	10.7	10.4	9.4	12.2	18.9	19.3	12.6	9.5	7.9	6.5	4.9	4.6	3.8	4.1	4.8	4.9	5.3	5.7	4.9	9.2	21.1
26	4.6	4.2	4.0	3.9	3.8	4.5	4.2	5.2	10.0	24.3	22.5	17.3	17.2	21.4	29.2	69.5	2.8	3.5	2.7	2.6	2.8	3.2	3.7	3.9	11.3	69.5
27	4.3	5.9	4.8	3.3	3.1	3.7	3.5	3.2	3.4	4.3	6.2	4.1	4.0	4.3	1.2	2.8	7.7	12.3	13.1	8.2	5.2	3.4	3.0	1.2	4.8	13.1
28	1.1	1.8	0.8	1.9	0.8	0.7	2.1	6.6	5.6	6.1	6.2	4.6	17.7	43.0	25.9	8.5	7.1	6.2	4.6	1.9	3.8	12.3	5.6	2.3	7.4	43.0
29	1.1	2.0	1.4	1.5	2.4	1.1	6.3	9.1	19.0	23.9	17.2	10.6	11.1	16.0	18.9	16.6	17.9	11.6	5.4	5.2	2.8	2.8	2.1	2.7	8.7	23.9
30	3.6	3.0	2.4	2.3	2.6	2.6	2.9	3.5	4.0	6.3	4.2	10.7	15.6	7.7	8.0	5.9	11.5	17.0	0.9	1.0	1.3	5.4	3.7	6.2	5.5	17.0
31	3.9	4.0	5.3	4.6	3.9	4.6	7.0	5.3	7.1	5.8	8.1	10.1	14.5	34.9	65.1	62.2	31.5	37.7	32.7	7.7	4.2	4.8	6.0	5.4	15.7	65.1
NO. MEAN MAX	31 4.9 12.2	31 5.7 21.1	31 5.2 12.0	31 5.3 12.1	31 5.5 11.4	31 5.6 15.4	31 7.0 13.7	31 11.1 64.1	31 13.4 43.0	30 14.2 37.2	31 16.8 58.8	31 15.0 54.3	30 18.3 72.9	31 19.1 55.8	31 18.8 65.1	31 20.2 88.3	31 14.0 89.5	31 14.8 61.3	31 13.7 61.9	31 6.8 33.4	31 5.0 9.4	31 5.9 15.1	31 5.2 8.9	31 4.8 8.5	742	100%



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	742	
Maximum 1-HR Average	89.5 UG/M3	
Maximum 24-HR Average	22.5 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	12.2	Operational Uptime
		Monthly Average
		742 HRS
		99.7 %
		10.7 UG/M3

Berm PM₁₀ (µg/m³) – August 2022

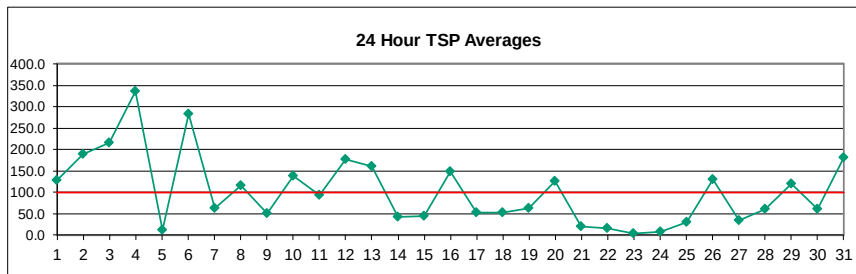
DAY	HOUR																								MEAN	MAX
1	10.8	13.3	12.2	9.8	11.0	11.4	12.5	12.8	25.8	46.8	15.8	19.2	251.9	311.5	156.5	94.4	75.3	52.8	34.0	22.9	8.4	16.2	11.3	5.9	51.8	311.5
2	2.6	2.3	6.1	38.0	2.0	2.0	2.2	6.3	7.6	23.4	124.8	352.5	P	292.9	323.2	202.8	98.8	128.3	121.7	18.7	13.4	6.1	9.8	7.4	78.0	352.5
3	4.2	6.6	19.2	13.4	6.0	10.5	31.6	65.2	59.5	167.0	119.1	41.2	315.1	211.3	153.1	427.7	274.0	237.0	194.8	196.4	14.6	11.5	12.7	12.1	108.5	427.7
4	9.1	12.9	9.4	8.9	22.1	70.2	88.1	451.4	265.0	236.9	412.8	240.0	451.1	135.1	399.7	104.1	31.1	46.1	62.3	47.6	61.7	73.1	47.7	10.6	137.4	451.4
5	16.7	13.9	1.7	0.7	0.7	2.1	1.3	2.0	15.8	2.9	6.2	2.8	2.9	2.8	2.2	1.7	3.2	1.5	2.4	4.5	3.8	9.2	12.0	5.4	4.9	16.7
6	2.3	2.1	2.5	2.6	2.0	2.2	2.2	3.0	9.2	75.5	215.1	110.1	166.4	331.1	255.6	563.0	568.0	370.0	417.6	32.2	16.9	83.8	34.9	31.0	137.5	568.0
7	24.4	7.5	2.6	2.4	4.0	3.5	2.2	2.8	4.5	49.2	52.3	17.1	22.5	37.7	81.1	69.5	91.8	49.2	49.3	28.7	15.4	34.2	24.7	14.0	28.8	91.8
8	30.7	13.4	2.2	2.3	2.1	2.4	27.6	32.4	25.6	47.2	220.7	247.0	261.9	199.8	44.3	26.3	26.9	15.2	11.3	10.8	11.9	14.6	11.3	10.1	54.1	261.9
9	10.3	14.6	10.1	11.2	7.9	4.4	8.6	72.4	161.7	51.9	49.3	27.3	26.4	18.4	17.1	14.2	16.5	26.5	30.8	26.3	22.8	28.3	22.5	22.3	29.2	161.7
10	19.7	21.6	19.2	24.1	20.2	26.5	30.0	90.6	117.6	103.6	89.7	79.4	60.9	77.5	127.3	117.4	87.8	299.9	262.5	35.1	23.2	18.6	13.9	8.5	74.0	299.9
11	10.0	13.0	15.8	13.2	13.0	15.7	19.5	31.3	86.9	154.0	200.4	123.5	132.2	80.0	53.1	12.7	13.5	7.0	7.7	11.9	13.6	17.4	20.0	11.7	44.9	200.4
12	18.2	21.7	21.0	31.2	12.2	16.5	42.1	59.8	142.8	156.3	90.8	81.4	96.0	35.0	72.3	53.1	64.8	422.9	415.3	230.2	53.1	7.1	3.8	15.2	90.1	422.9
13	5.2	11.0	20.3	7.9	11.5	9.4	9.2	10.0	71.6	149.9	108.1	149.6	245.0	126.6	194.5	402.2	130.0	126.2	124.4	8.5	6.9	5.9	8.1	10.6	81.4	402.2
14	6.6	3.9	4.1	38.3	12.9	9.7	24.2	17.5	7.6	7.2	70.4	44.0	43.4	85.3	86.6	89.6	48.1	46.8	35.1	6.5	3.4	4.3	9.9	12.1	29.9	89.6
15	5.2	5.6	16.3	8.0	9.8	9.9	16.2	65.4	55.1	57.1	39.2	49.4	30.5	38.3	67.7	61.5	29.2	16.0	16.2	20.0	29.5	10.2	8.0	8.0	28.0	67.7
16	8.2	10.4	8.5	13.5	21.1	22.3	42.6	90.0	140.0	184.0	218.4	189.5	186.3	327.7	174.9	144.1	68.1	57.4	54.6	16.5	24.7	17.7	9.6	7.6	84.9	327.7
17	5.3	12.9	9.5	3.3	40.0	27.2	72.5	56.0	178.4	P	15.4	16.8	15.1	13.2	14.6	11.9	10.3	11.4	10.3	8.7	11.1	23.4	15.8	11.0	25.8	178.4
18	11.6	24.5	6.7	4.5	9.2	11.3	47.6	61.5	76.0	90.2	70.2	31.1	33.8	37.9	19.9	17.5	14.5	17.5	18.1	22.1	27.4	26.2	22.5	20.6	30.1	90.2
19	13.1	11.5	12.0	16.2	21.1	20.0	35.8	107.3	108.0	100.1	177.6	109.0	47.0	28.4	21.7	18.1	13.2	15.4	12.7	13.4	20.0	14.3	15.7	10.6	40.1	177.6
20	36.8	40.1	22.3	23.1	16.8	13.5	22.6	57.3	125.2	26.9	124.0	98.9	216.2	95.3	33.6	21.7	186.4	180.9	321.9	18.7	13.9	13.6	14.5	12.1	72.3	321.9
21	14.8	13.3	9.1	69.5	9.7	12.1	20.3	49.0	79.5	19.9	11.5	10.1	12.5	31.4	12.7	11.3	9.5	6.1	5.9	5.4	4.5	6.5	8.5	8.6	18.4	79.5
22	12.7	11.5	16.3	14.9	14.5	10.5	11.7	12.5	16.0	15.0	24.8	20.4	13.8	13.4	11.5	12.5	10.6	11.2	8.6	7.7	7.1	8.0	6.9	5.7	12.4	24.8
23	4.9	5.8	4.6	4.1	3.6	4.4	4.7	7.6	8.6	9.0	4.9	5.7	5.4	5.1	8.0	5.6	4.7	4.5	3.8	4.0	3.9	4.8	4.1	2.7	5.2	9.0
24	2.5	2.9	4.6	6.1	7.3	5.3	5.2	5.8	9.5	10.5	9.0	9.0	9.5	9.3	8.6	7.7	7.6	5.3	7.0	7.6	8.3	8.0	7.8	8.3	7.2	10.5
25	9.8	30.8	14.5	9.3	15.2	14.6	14.0	12.6	17.6	59.4	98.8	45.9	24.8	17.7	10.8	6.8	7.4	8.0	6.5	6.4	5.8	7.6	8.1	6.3	19.1	98.8
26	5.5	5.4	5.1	5.5	4.4	6.7	4.7	10.0	62.4	172.3	145.4	116.7	100.9	119.4	176.7	526.4	6.8	4.7	3.0	2.9	3.0	3.5	4.1	4.3	62.5	526.4
27	4.9	7.9	6.0	6.9	6.1	4.4	3.8	3.5	3.7	10.3	26.4	9.6	16.2	22.5	1.5	4.1	38.2	74.5	69.7	40.0	18.0	19.1	15.3	3.5	17.3	74.5
28	3.1	6.1	1.3	6.2	1.2	1.3	8.0	32.5	35.6	35.8	32.1	22.2	98.6	226.8	125.0	44.7	34.1	34.1	26.1	6.6	21.5	63.3	26.4	9.3	37.6	226.8
29	2.9	7.5	4.1	4.8	13.8	2.2	40.7	61.5	133.5	137.0	100.5	51.6	62.4	99.2	124.5	111.5	100.2	53.7	28.6	26.6	9.5	12.4	7.1	6.1	50.1	137.0
30	8.1	5.5	4.1	2.6	3.3	3.6	4.9	9.1	14.2	33.7	17.8	71.0	118.3	47.8	50.8	45.7	81.5	121.2	1.9	1.6	1.8	27.3	13.7	19.5	29.5	121.2
31	5.4	6.2	10.7	8.0	5.1	7.6	15.4	11.0	24.6	16.7	34.8	56.2	75.3	229.3	378.4	383.2	202.5	235.6	232.6	44.2	7.1	6.2	13.4	8.5	84.1	383.2
NO.	31	31	31	31	31	31	31	31	31	31	30	31	31	30	31	31	31	31	31	31	31	31	31	31	742	100%
MEAN	10.5	11.8	9.7	13.2	10.6	11.7	21.7	48.7	67.4	75.0	94.4	79.0	104.7	106.7	103.5	116.6	76.0	86.7	83.8	30.1	15.7	19.4	14.3	10.6		
MAX	36.8	40.1	22.3	69.5	40.0	70.2	88.1	451.4	265.0	236.9	412.8	352.5	451.1	331.1	399.7	563.0	568.0	422.9	417.6	230.2	61.7	83.8	47.7	31.0		



Number of Non-Zero Readings	742
Maximum 1-HR Average	568.0 UG/M3
Maximum 24-HR Average	137.5 UG/M3
Monthly Calibration	0
Standard Deviation	83.73
Operational Time	742 HRS
Operational Uptime	99.7 %
Monthly Average	50.8 UG/M3

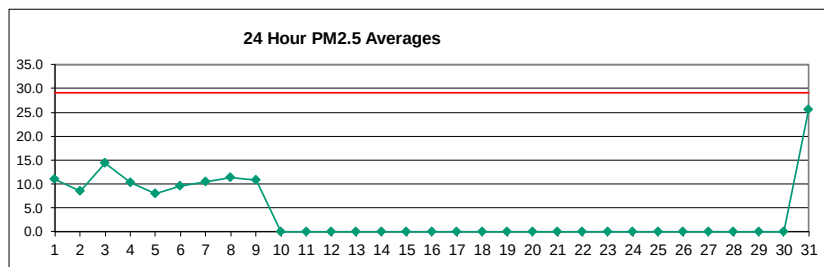
Berm TSP (µg/m³) – August 2022

HOUR																										
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	8.8	9.5	8.2	6.5	7.2	7.5	8.2	9.0	42.7	80.5	21.4	28.5	553.8	873.8	494.0	324.3	205.9	88.1	79.0	46.9	12.8	81.2	49.2	18.6	127.7	873.8
2	6.0	1.7	12.5	140.2	2.1	1.3	3.3	6.6	9.1	45.2	278.4	891.3	P	746.5	828.9	495.1	220.0	297.3	241.6	40.8	30.7	10.9	13.1	11.8	188.5	891.3
3	3.3	6.6	28.1	19.7	5.9	14.7	71.6	105.2	93.8	301.8	230.6	58.5	707.3	470.3	336.1	931.5	528.6	475.8	350.2	359.5	23.5	19.8	23.0	13.2	215.8	931.5
4	6.8	13.2	10.8	12.0	35.9	152.7	201.1	1044.0	579.0	585.0	1089.2	528.4	1169.9	269.7	1040.7	235.8	98.0	105.6	189.3	124.2	194.8	231.5	143.0	21.8	336.8	1169.9
5	42.9	52.3	2.4	0.7	2.0	3.3	2.3	4.1	33.0	7.0	22.3	8.5	8.7	6.3	5.4	5.6	5.5	1.6	2.6	12.9	5.8	16.1	22.0	5.8	11.6	52.3
6	1.6	1.4	2.0	1.8	1.4	1.6	2.0	7.8	26.6	203.6	439.8	187.8	338.7	693.2	486.9	1138.3	1215.0	716.1	853.1	76.6	35.5	189.4	87.2	68.2	282.3	1215.0
7	42.0	17.7	3.3	4.7	6.1	4.2	2.5	10.1	7.3	91.1	98.7	28.9	39.3	80.3	208.1	160.3	249.3	127.0	102.5	70.1	36.0	71.3	44.7	30.0	64.0	249.3
8	71.8	39.3	2.9	3.9	2.1	2.5	46.1	64.2	48.4	87.5	520.7	549.6	565.6	393.0	107.1	51.6	60.6	31.5	21.3	19.7	19.3	53.2	14.7	17.5	116.4	565.6
9	12.1	22.1	14.5	13.6	8.9	3.2	12.4	129.3	355.6	94.4	73.6	39.8	45.6	34.5	33.4	29.3	37.2	48.0	51.2	45.0	25.1	38.4	35.1	24.9	51.1	355.6
10	19.9	28.0	20.0	26.2	22.2	36.8	46.6	156.4	221.1	224.8	157.9	127.4	88.6	115.0	216.9	252.5	174.2	651.1	591.2	54.3	28.3	35.2	18.9	11.6	138.6	651.1
11	10.9	26.2	30.0	17.1	20.3	28.4	26.1	59.6	243.0	381.0	434.3	270.1	259.5	141.8	121.8	38.6	25.9	12.6	12.2	18.6	16.3	20.3	20.0	10.3	93.5	434.3
12	23.1	19.2	18.9	32.1	13.8	27.9	89.8	125.4	341.1	318.1	171.6	123.3	166.5	66.5	132.6	92.2	93.2	819.9	917.3	506.3	109.5	13.8	4.1	31.0	177.4	917.3
13	11.5	20.4	46.7	14.2	18.9	11.6	8.2	13.6	140.4	317.8	205.0	239.2	485.9	237.0	382.3	850.5	261.3	247.6	304.6	10.4	6.6	5.4	7.5	10.3	160.7	850.5
14	7.4	3.3	4.4	170.2	9.3	13.0	26.8	24.1	5.6	7.4	68.0	41.4	52.1	111.0	100.6	112.0	67.0	64.2	68.3	4.8	2.8	6.7	13.9	18.5	41.8	170.2
15	5.0	4.9	17.3	9.6	9.8	13.3	24.1	145.2	101.0	113.4	69.7	70.0	42.9	51.5	105.8	95.2	50.8	27.4	24.0	26.5	36.1	10.6	9.4	10.4	44.7	145.2
16	6.1	10.6	7.1	21.7	33.6	36.1	70.6	175.7	252.6	321.9	422.1	315.7	310.7	556.4	293.5	257.2	110.3	88.6	90.4	37.9	42.7	55.0	18.5	8.5	147.6	556.4
17	6.7	10.9	8.4	2.9	46.2	39.2	177.0	84.0	523.6	P	26.8	29.7	25.8	24.9	28.6	21.8	17.3	19.0	17.5	18.7	18.0	36.4	27.4	15.2	53.3	523.6
18	11.8	21.2	7.3	4.5	10.0	19.5	108.8	146.0	175.6	178.8	131.2	51.2	55.0	52.4	30.4	31.4	22.9	26.7	25.8	38.9	37.1	38.2	25.9	21.4	53.0	178.8
19	14.4	12.0	12.9	18.6	32.3	33.1	67.4	203.0	204.2	166.7	292.1	160.2	67.9	31.8	27.2	25.1	17.4	30.2	16.6	18.5	22.7	16.3	15.6	9.3	63.2	292.1
20	41.1	43.6	26.8	39.8	19.1	12.3	21.5	56.5	173.8	37.7	231.6	173.4	442.0	182.7	58.8	32.5	388.7	347.6	638.8	29.4	13.8	13.0	12.6	10.7	127.0	638.8
21	15.2	13.1	10.0	106.5	7.3	10.6	19.8	71.3	57.5	22.6	13.6	14.4	18.0	51.8	12.8	11.4	6.7	3.9	3.8	3.5	2.9	4.2	5.7	5.6	20.5	106.5
22	9.6	8.0	11.8	10.3	9.8	6.9	8.0	9.1	14.0	12.4	57.5	86.1	18.7	26.6	16.4	23.4	12.3	11.0	7.1	5.7	4.7	6.1	4.6	3.7	16.0	86.1
23	3.2	3.8	3.1	2.7	2.3	2.8	3.0	5.8	6.7	7.5	3.4	5.0	6.6	4.4	9.4	6.8	4.2	5.3	2.7	2.6	2.7	3.1	2.7	1.7	4.2	9.4
24	1.6	1.9	3.2	4.7	5.5	3.5	3.4	3.9	7.0	9.7	7.9	14.0	36.7	12.6	7.6	9.5	7.4	4.8	8.4	8.5	6.6	5.3	5.1	5.5	7.7	36.7
25	7.2	30.8	11.4	6.1	11.9	11.2	11.5	10.5	18.2	121.0	226.0	100.3	37.6	36.4	13.4	7.4	7.2	12.5	5.7	5.9	5.4	9.1	12.9	9.5	30.4	226.0
26	8.3	7.2	6.5	10.7	4.9	10.6	3.1	23.8	195.0	496.8	361.7	301.2	221.0	210.0	309.2	941.5	15.1	3.7	2.1	1.9	2.0	2.3	2.8	3.0	131.0	941.5
27	3.3	6.5	4.6	11.7	10.9	3.4	2.4	2.3	2.4	21.2	73.2	17.1	36.7	44.9	1.1	4.1	89.1	196.3	159.6	60.3	19.1	42.0	30.3	6.1	35.4	196.3
28	7.4	7.8	1.0	7.0	1.1	3.0	7.3	42.8	84.4	68.9	58.7	30.7	156.3	312.4	140.1	79.9	63.6	66.9	60.1	15.0	48.8	142.1	43.3	15.4	61.0	312.4
29	3.7	19.8	5.7	14.0	44.4	4.3	130.8	187.2	335.4	275.2	218.2	93.1	146.4	258.4	318.5	289.2	235.4	108.8	62.2	55.2	17.4	26.5	21.5	5.8	119.9	335.4
30	8.2	6.9	6.6	1.7	2.8	2.6	6.2	12.1	36.3	97.2	50.0	161.3	275.6	94.4	94.2	109.9	153.3	242.5	2.7	2.4	3.0	50.6	25.0	22.9	61.2	275.6
31	6.8	5.8	11.5	10.7	5.6	11.6	21.4	13.2	64.2	33.2	73.8	102.6	147.2	489.1	865.6	961.1	448.2	443.3	499.0	90.1	11.7	5.2	17.8	8.9	181.2	961.1
NO.	31	31	31	31	31	31	31	31	31	30	31	31	30	31	31	31	31	31	31	31	31	31	31	31	742	100%
MEAN	13.8	15.3	11.6	24.1	13.4	17.2	39.8	95.2	141.9	157.6	197.7	156.4	217.6	215.5	220.2	246.0	157.8	171.8	174.5	58.4	27.2	40.6	25.1	14.7		
MAX	71.8	52.3	46.7	170.2	46.2	152.7	201.1	1044.0	579.0	585.0	1089.2	891.3	1169.9	873.8	1040.7	1138.3	1215.0	819.9	917.3	506.3	194.8	231.5	143.0	68.2		



Number of 24HR Exceedences	14	Proposed Guideline
Number of Non-Zero Readings	742	
Maximum 1-HR Average	1215.0 UG/M3	
Maximum 24-HR Average	336.8 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	186.0	Monthly Average
		742 HRS
		99.7 %
		102.0 UG/M3

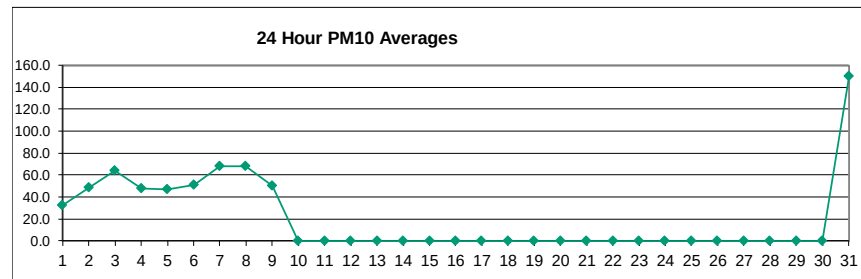
Entrance PM_{2.5} (µg/m³) – August 2022

[illegible]

Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	253		
Maximum 1-HR Average	45.1 UG/M3		
Maximum 24-HR Average	25.5 UG/M3		
Monthly Calibration	0	Operational Time	253 HRS
Standard Deviation	8.664	Operational Uptime	34.0 %
		Monthly Average	12.4 UG/M3

Entrance PM₁₀ (µg/m³) – August 2022

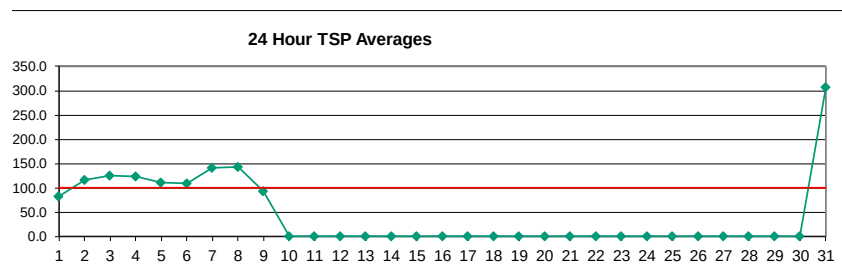
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	18.1	18.7	20.1	17.0	16.5	18.2	19.7	23.8	21.5	24.3	23.8	32.0	78.1	106.7	72.9	34.7	28.1	23.1	29.3	66.3	16.6	42.2	20.0	9.4	32.5	106.7
2	5.0	7.3	18.3	56.1	22.0	22.3	24.2	86.1	42.9	30.6	62.4	98.6	53.6	56.4	54.6	150.5	142.6	89.5	50.0	33.5	16.9	9.4	17.7	24.3	48.9	150.5
3	12.7	12.8	43.1	60.4	26.3	45.8	71.7	58.4	55.4	57.0	115.3	148.0	126.0	81.8	132.7	148.6	118.4	51.0	29.0	43.8	27.3	30.2	16.5	15.5	63.6	148.6
4	13.6	14.1	13.1	17.5	23.0	32.9	207.3	173.3	75.6	61.7	81.1	65.4	83.5	23.8	58.3	85.3	23.7	21.8	10.4	6.9	7.0	19.9	9.2	24.3	48.0	207.3
5	10.5	9.2	58.9	99.2	116.9	142.3	132.9	43.0	82.6	57.5	59.8	33.3	38.3	32.2	48.1	36.5	43.1	10.1	11.0	14.9	9.2	15.5	9.4	15.5	47.1	142.3
6	6.8	9.4	28.9	24.9	23.7	26.4	57.0	145.2	310.8	167.6	30.3	24.6	37.9	33.5	51.3	62.8	47.5	11.6	28.2	21.4	17.6	11.8	19.7	15.8	50.6	310.8
7	20.8	25.4	37.3	137.9	89.2	226.4	211.5	306.6	104.7	32.0	16.1	11.1	17.1	37.9	74.7	67.0	51.4	26.7	40.1	43.6	9.8	12.4	12.5	17.7	67.9	306.6
8	22.7	15.4	58.7	95.4	46.7	46.9	93.9	150.2	143.6	75.3	124.6	90.2	97.1	115.6	138.1	54.5	62.1	51.3	33.6	33.7	29.6	22.5	19.5	18.1	68.3	150.2
9	15.4	16.5	19.7	45.4	18.7	20.0	71.8	51.2	45.1	39.5	95.5	76.3	75.8	57.7	79.3	55.3	54.3	56.1	54.4	41.6	41.5	57.2	70.9	54.0	50.5	95.5
10	46.0	51.9	126.4	128.1	67.7	150.3	336.8	157.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	27.9	110.0	27.8	72.8	141.3	-	-
31	115.8	206.7	205.5	196.1	190.5	217.4	209.7	205.2	224.5	149.9	195.5	48.2	40.7	170.1	201.7	290.4	172.9	233.3	27.7	61.2	59.5	90.8	58.3	29.7	150.1	290.4
NO.	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11		253	34%
MEAN	26.1	35.2	57.3	79.8	58.3	86.3	130.6	127.3	110.7	69.5	80.4	62.8	64.8	71.6	91.2	98.6	74.4	57.4	31.4	35.9	31.4	30.9	29.7	33.2		
MAX	115.8	206.7	205.5	196.1	190.5	226.4	336.8	306.6	310.8	167.6	195.5	148.0	126.0	170.1	201.7	290.4	172.9	233.3	54.4	66.3	110.0	90.8	72.8	141.3		



Number of Non-Zero Readings	253
Maximum 1-HR Average	310.8 UG/M3
Maximum 24-HR Average	150.1 UG/M3
Monthly Calibration	0
Standard Deviation	62.11
Operational Time	253 HRS
Operational Uptime	34.0 %
Monthly Average	65.3 UG/M3

Entrance TSP (µg/m³) – August 2022

Day	HOUR																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	12.8	13.0	13.8	11.2	11.2	12.4	14.1	28.4	27.5	31.9	38.8	48.4	235.1	355.6	231.2	107.7	89.9	62.9	64.6	167.1	27.2	275.3	104.9	18.7
2	11.4	8.2	33.8	199.9	32.4	44.4	36.7	174.2	93.0	62.0	143.1	326.0	167.8	163.1	142.3	382.9	308.2	196.2	83.8	81.9	37.0	16.3	28.7	45.7
3	18.7	13.7	77.5	64.9	32.9	75.2	117.9	73.5	92.6	104.5	196.4	315.2	351.1	179.3	326.4	344.4	272.7	87.9	37.3	82.7	56.4	57.7	22.6	11.9
4	9.7	9.8	11.7	25.5	21.7	43.9	529.0	490.4	205.8	158.2	242.2	182.2	258.2	72.2	163.0	230.9	41.7	98.4	27.3	11.0	20.0	41.7	18.8	47.5
5	19.7	15.3	143.9	187.9	276.8	358.9	369.9	95.5	135.2	139.8	167.6	84.1	113.2	92.5	124.4	100.3	93.3	19.3	19.0	31.0	12.7	21.2	18.1	22.3
6	16.1	8.1	46.7	29.5	26.5	29.4	131.4	256.2	805.9	440.4	80.9	50.1	76.3	79.3	97.1	126.8	113.2	24.4	50.3	28.8	22.3	17.4	30.5	33.5
7	46.6	45.0	71.4	336.1	218.4	597.6	347.5	460.1	179.0	94.9	41.5	23.2	30.7	83.1	197.6	158.7	129.0	67.9	90.0	100.5	17.7	26.3	21.3	30.4
8	45.5	38.3	79.2	138.4	86.8	90.6	130.6	309.5	253.3	145.8	318.3	213.9	188.9	240.8	480.5	148.5	146.6	122.2	73.2	57.1	43.8	44.5	38.0	27.2
9	20.3	17.3	26.7	74.1	20.7	30.4	109.4	89.5	73.8	64.4	202.7	186.7	188.2	149.1	184.6	125.7	101.6	113.3	93.2	75.5	53.4	61.8	83.4	79.2
10	50.7	55.6	123.7	160.8	107.9	279.6	721.1	253.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	51.3	118.8	96.9	113.2	223.4
31	172.6	391.0	439.9	428.7	322.3	541.0	490.6	480.8	466.7	315.1	357.6	90.0	80.1	420.5	491.2	678.3	367.3	456.6	44.1	86.2	68.4	112.7	55.1	33.6
NO.	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11
MEAN	38.6	55.9	97.1	150.6	105.2	191.2	272.6	246.5	233.3	155.7	178.9	152.0	168.9	183.5	243.8	240.4	166.3	124.9	58.3	70.3	43.4	70.2	48.6	52.1
MAX	172.6	391.0	439.9	428.7	322.3	597.6	721.1	490.4	805.9	440.4	357.6	326.0	351.1	420.5	491.2	678.3	367.3	456.6	93.2	167.1	118.8	275.3	113.2	223.4



Number of 24HR Exceedences	8	Proposed Guideline
Number of Non-Zero Readings	253	
Maximum 1-HR Average	805.9 UG/M3	
Maximum 24-HR Average	307.9 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	144.3	Operational Uptime
		Monthly Average
		253 HRS
		34.0 %
		138.1 UG/M3