

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

OCTOBER 2022

NOVEMBER 25, 2022





AMBIENT AIR QUALITY MONTHLY REPORT

OCTOBER 2022

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: NOVEMBER 25, 2022

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November 25, 2022

LAFARGE CANADA INC.
Highway 1A
Exshaw, AB T0L 2C0

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – October 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 October 2022.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	99.9%	-	2
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 October 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%	0	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 October 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	73.7%	0	0	0
Berm	38.7%	4	2	5
Entrance	43%	0	1	6

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

Sincerely,



Tyler Abel, M.Sc.
Senior Air Quality Specialist,
Vancouver Region

SIGNATURES

PREPARED BY



November 25, 2022

Dylan Weyell, B.A.
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Date

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



November 25, 2022

Tyler Abel, M.Sc.
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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 October 1, 2022 and October 31, 2022.

This monthly report was prepared by Dylan Weyell, Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Tyler Abel, Senior Air Quality Specialist at WSP.

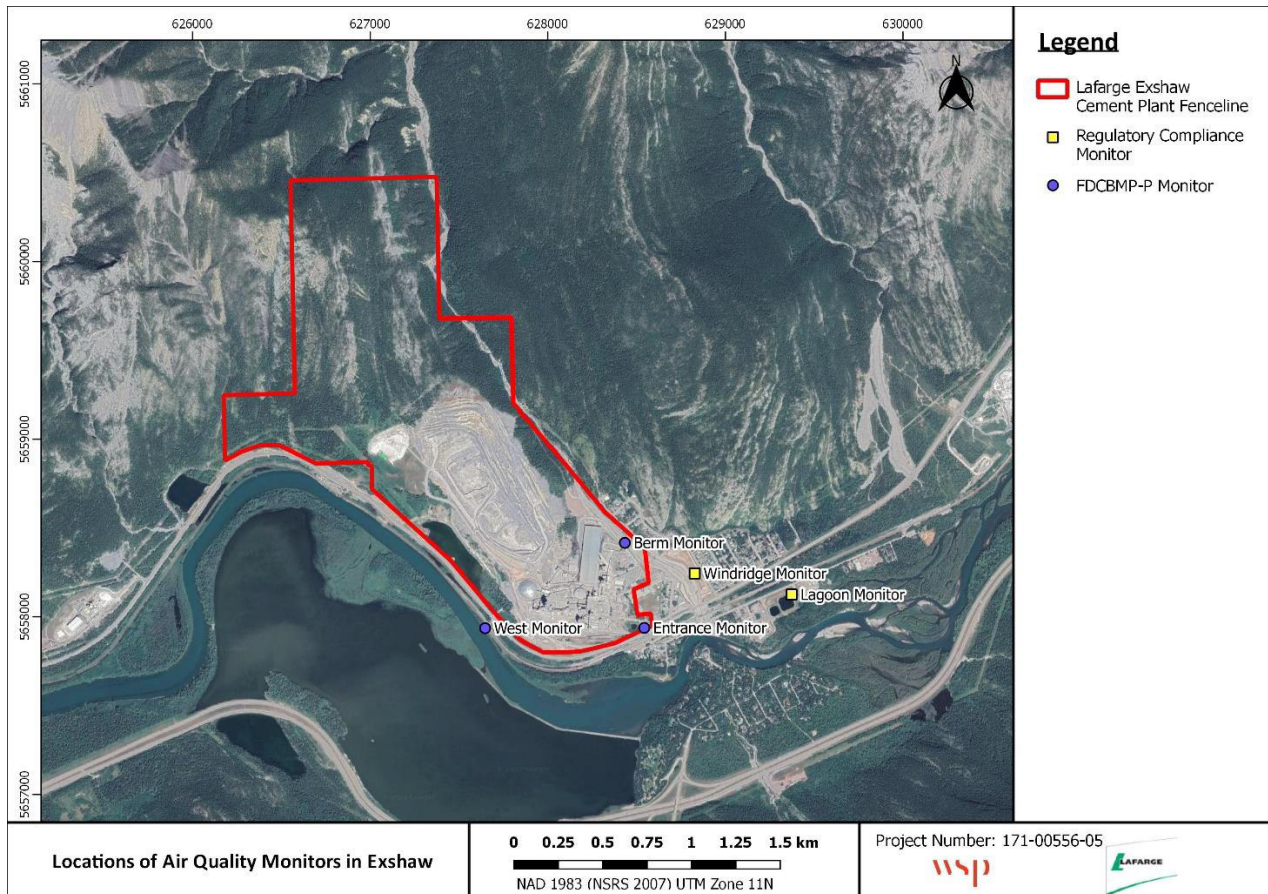


Figure 1-1 Locations of Air Quality Monitors in Exshaw

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 OCTOBER 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	27.2	0	14.2	-
SO ₂ (ppb)	100.0	20.9	0	6.5	0
PM _{2.5} (µg/m ³)	99.9	30.0	0 ¹	17.7	0
PM ₁₀ (µg/m ³)	99.9	479.8	-	122.1	-
TSP (µg/m ³)	99.9	994.7	-	168.5	2
Temperature (°C)	100.0	24.3	-	14.9	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	56.4/W	-	38.2/WSW	-
Precipitation (mm)	100.0	1.4 ²	-	13.2 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 two days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station the SO₂, NO₂, and meteorological sensors recorded 100% uptime for the month of October.
- The PM_{2.5}, PM₁₀ and TSP analyzer recorded 99.9% uptime for the month of October due to one hour of equipment malfunction occurring on October 7th 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	55.0	0*	19.8	0
PM ₁₀ (µg/m ³)	100.0	485.0	-	163.3	-
TSP (µg/m ³)	100.0	985.0	-	243.3	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 were zero hours exceeding the 1-hour PM_{2.5} AAAQG.
- There were seven 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 October.

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)	73.7	31.8	0*	23.7	0
PM ₁₀ (µg/m ³)	73.7	41.3	-	27.9	-
TSP (µg/m ³)	73.7	125.8	-	45.0	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 73.7% uptime for the month of October due to 133 hours of routine maintenance occurring from October 1st at 1:00 – October 6th at 13:00. Additionally, 63 hours of communication error occurring from October 13th at 3:00 – October 14th at 23:00, October 15th at 1:00, October 15th at 3:00 – 9:00, October 17th at 1:00 – 7:00, October 17th at 10:00 & 11:00 and October 25th at 12:00.

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)	38.7	229.0	4*	46.1	2
PM ₁₀ (µg/m ³)	38.7	2066.4	-	400.6	-
TSP (µg/m ³)	38.7	3886.8	-	1205.6	5

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

- The analyzer had 38.7% uptime for the month of October due to one hour of equipment malfunction occurring on October 1st at 1:00. Additionally, 455 hours of routine maintenance occurred from October 6th at 16:00 – October 25th at 14:00.

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)	43.0	77.6	0*	39.6	1
PM ₁₀ (µg/m ³)	43.0	489.3	-	183.9	-
TSP (µg/m ³)	43.0	1788.5	-	499.9	6

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

- The analyzer had 43% uptime for the month of October due to 424 hours of routine maintenance that occurred from October 1st at 1:00 to October 18th at 16:00.

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 October 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 October 6 th . The monitor had 99.9% uptime for the month of October due to one hour of equipment malfunction occurring on October 7 th at 2:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on October 6 th . The monitor had 99.9% uptime for the month of October due to one hour of equipment malfunction occurring on October 7 th at 2:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on October 6 th . The monitor had 99.9% uptime for the month of October due to one hour of equipment malfunction occurring on October 7 th at 2:00.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on October 6 th . The monitor had 100% uptime for the month of October.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on October 6 th . The monitor had 100% uptime for the month of October.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime for the month of October.
Wind Speed	MetOne Wind Sensor	

Wind Direction		The monitor had 100% uptime for the month of October.
Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 100% uptime for the month of October.



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 October 2022, and Table 3-3 summarizes the recorded exceedances. 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 October 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 were two 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 October, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances are zero.

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 October 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/hr)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO ₂ (ppb)	159	-	Lagoon	0	-	1.1	9.1	27.2	11	22	17.2	69.7	14.2	12	100.0
SO ₂ (ppb)	172	48	Lagoon	0	0	0.6	3.1	20.9	4	11	10.9	243.7	6.5	17	100.0
PM _{2.5} (µg/m ³)	80	29	Lagoon	0	0	0.0	5.6	30.0	10	13	33.6	274.8	17.7	19	99.9
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	30.3	479.8	10	13	33.6	274.8	122.1	27	99.9
TSP (µg/m ³)	-	100	Lagoon	-	2	0.0	50.9	994.7	10	13	33.6	274.8	168.5	27	99.9
Temperature (°C)	-	-	Lagoon	-	-	-1.9	8.5	24.3	4	16	6.1	114.2	14.9	4	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.4	16.2	56.4/W	27	14	56.4	246.2	38.2/WSW	29	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	1.4	21	5	8.5	52.1	13.2	-	100.0

¹ Maximum Daily Total Accumulation of Precipitation (mm)

² Monthly Total Accumulation of Precipitation (mm)

Table 3-3 Days exceeding the TSP AAAQO or PM_{2.5} AAAQO at the Lagoon 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)
Lagoon						
2022-10-10	143.9	-	280.2	21.5	44.9	High wind event.
2022-10-27	168.5	-	252.0	33.1	39.9	High wind event.
Total # of Exceedances	2	0				
Maximum # of Exceedances (October)	1 (2012, 2014, 2019)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021)				
Average # of Exceedances (October)	0	0				
Minimum # of Exceedances (October)	0 (2010, 2011, 2013, 2015, 2016, 2017, 2018, 2020, 2021)	0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021)				

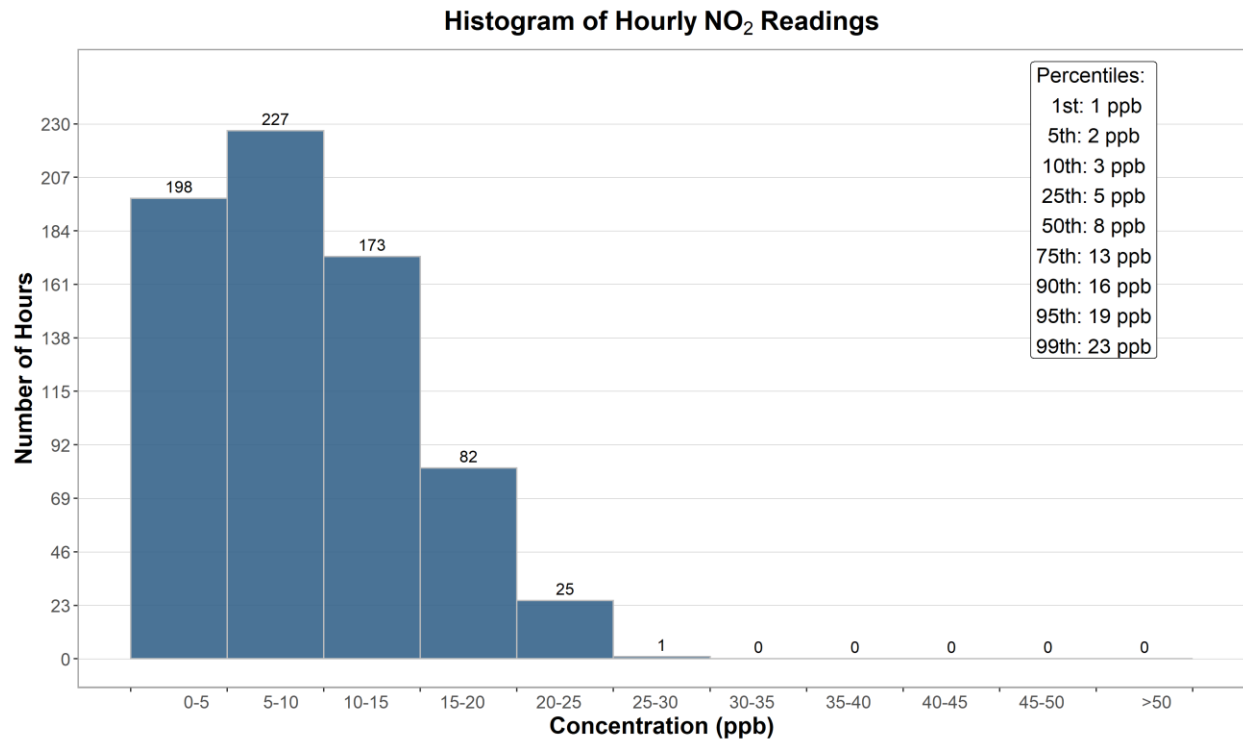


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

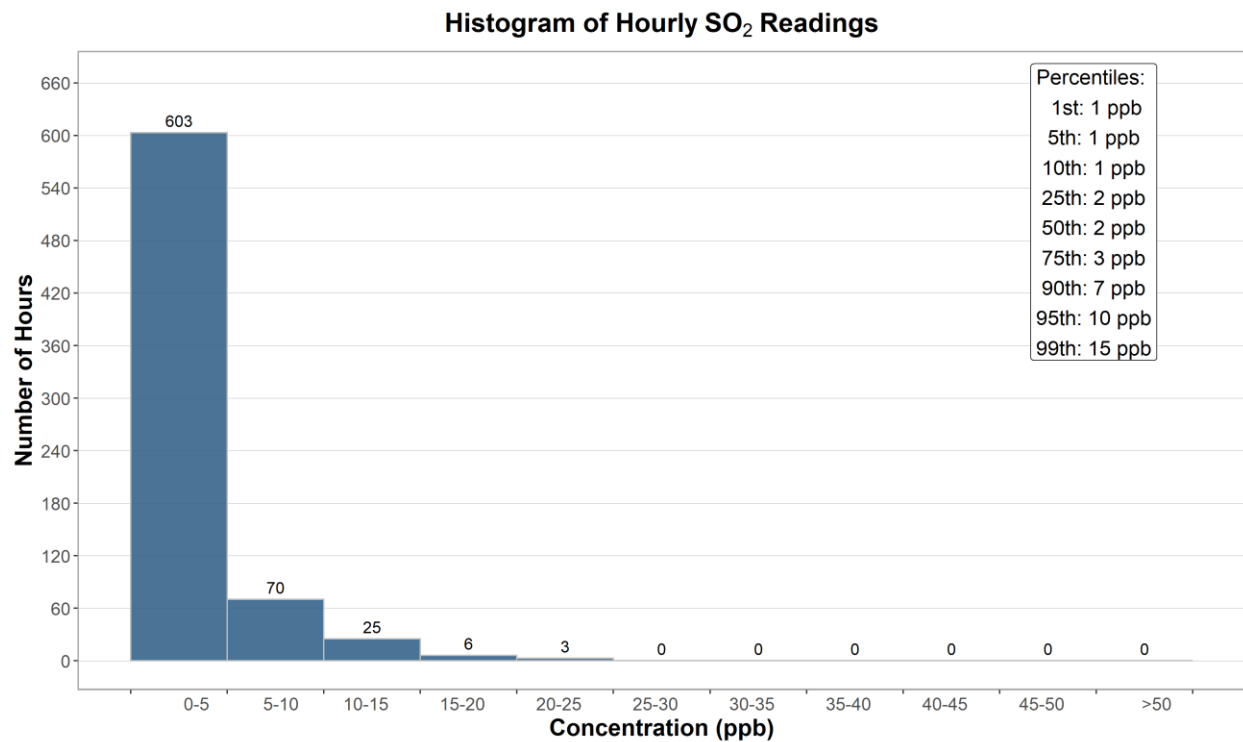


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

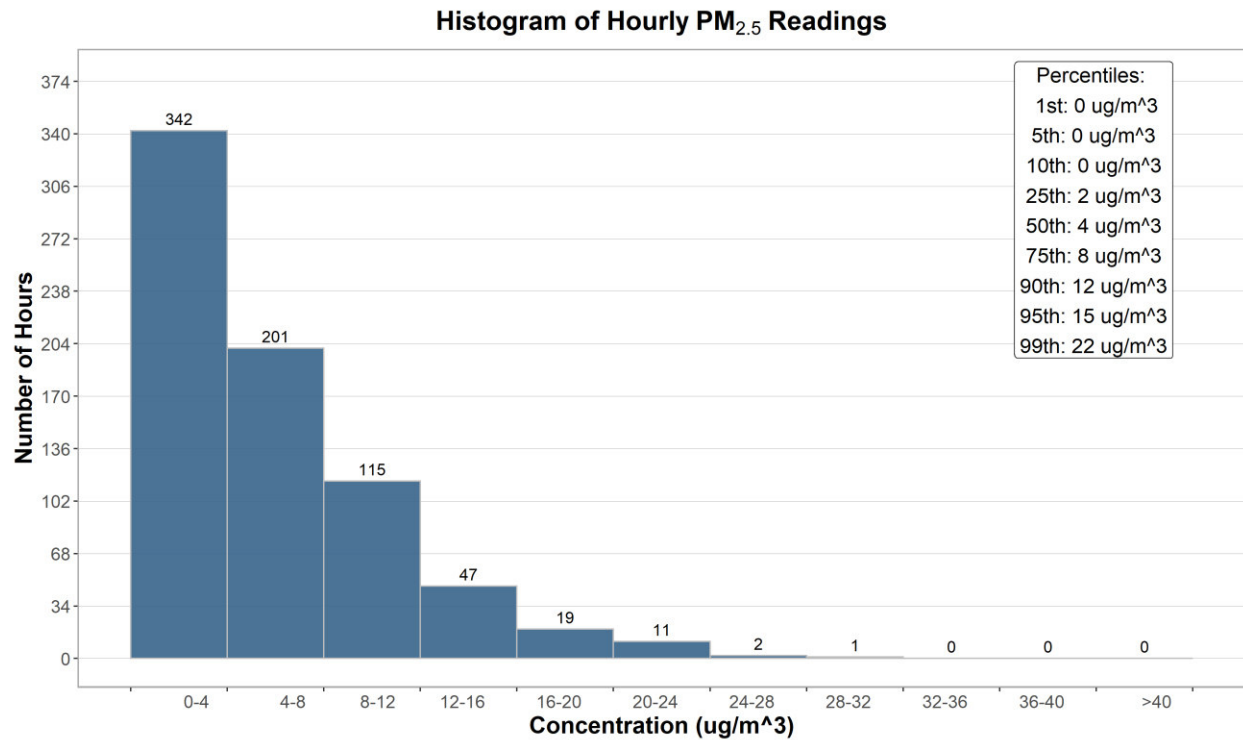


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

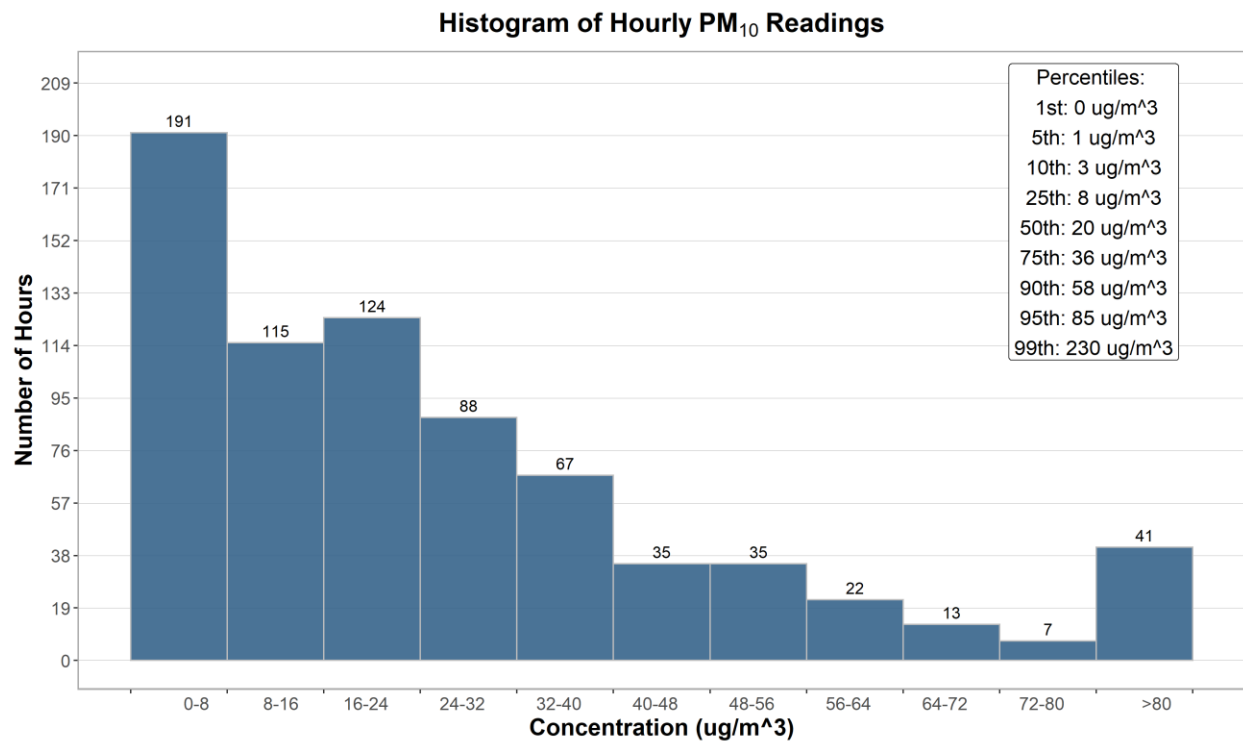


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

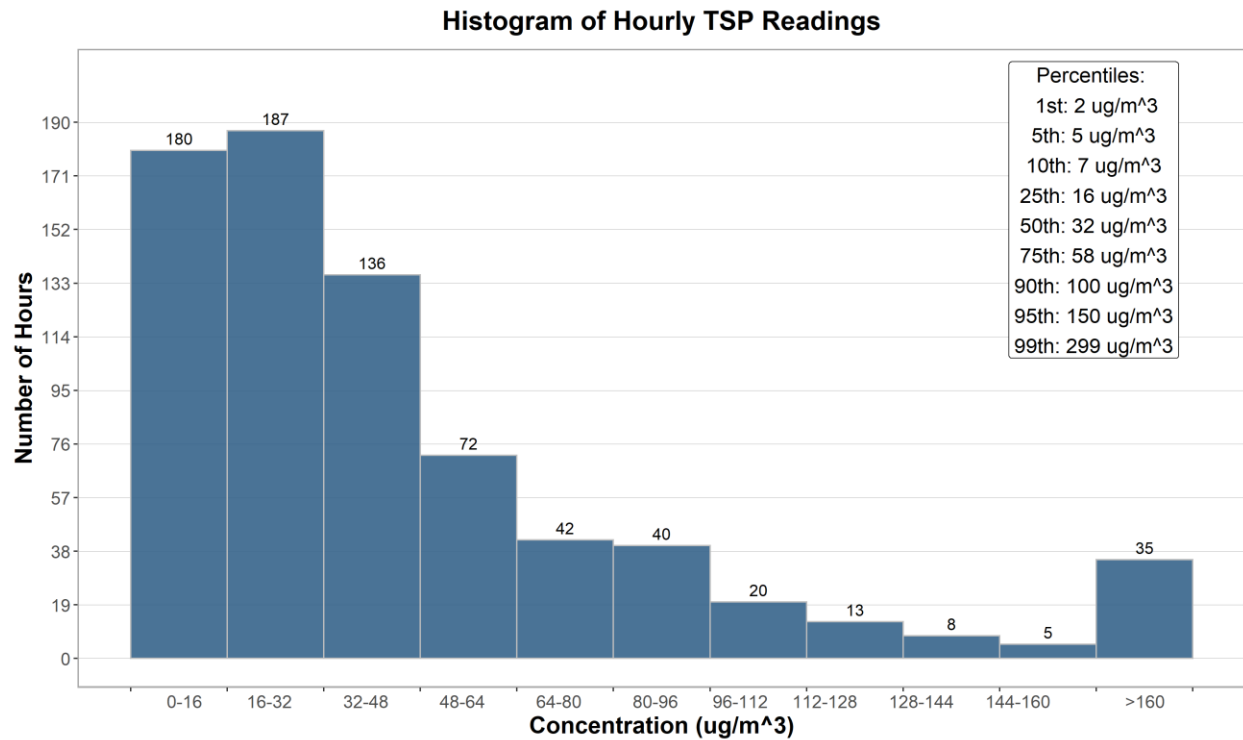


Figure 3-7 **Histogram of hourly TSP concentrations at the Lagoon station**

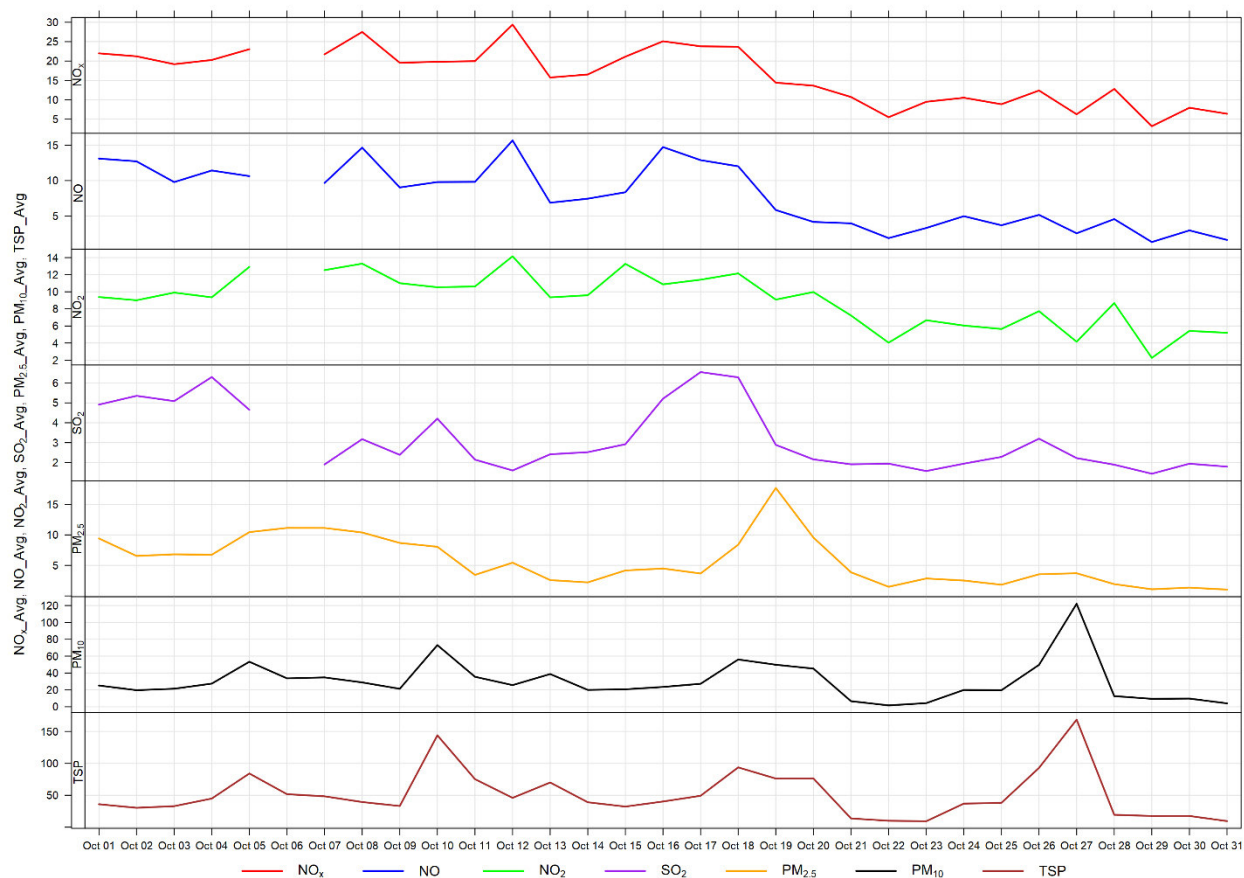


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

The following wind rose (Figure 3-9) shows the wind rose for the two days of TSP exceedance. The wind roses 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.

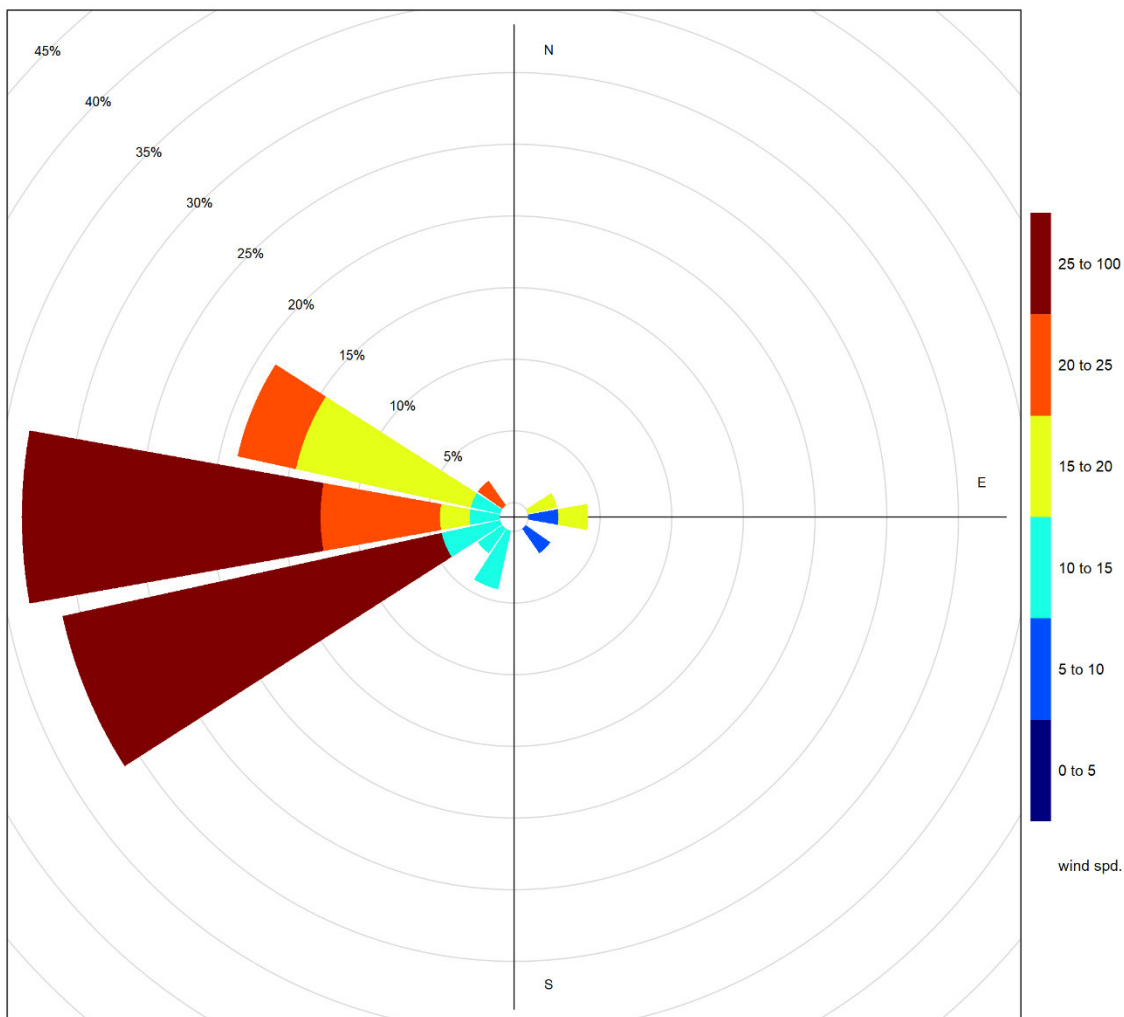


Figure 3-9 Wind rose for TSP exceedance day recorded at the Lagoon Station

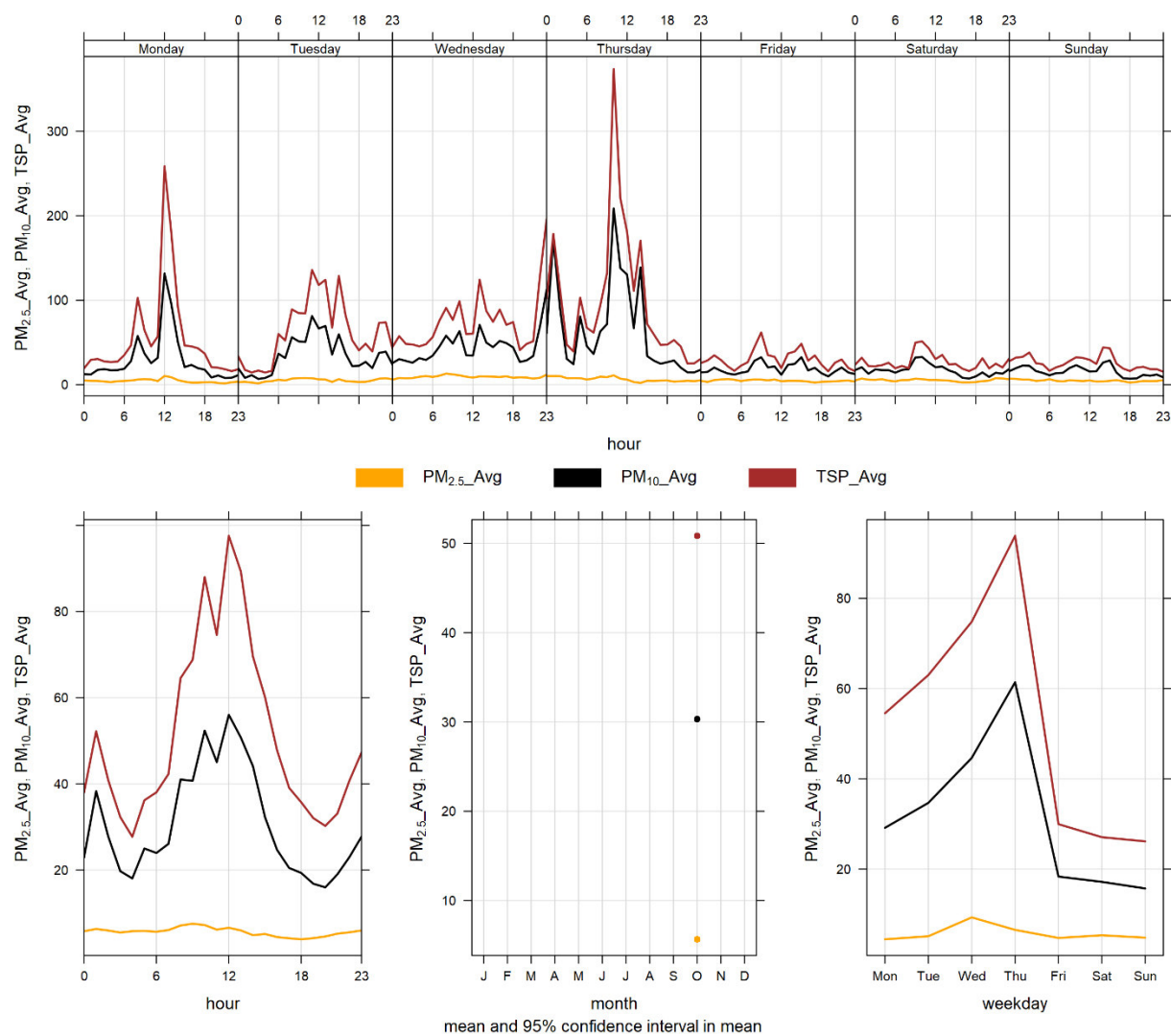


Figure 3-10 Lagoon monitor particulate matter time variation

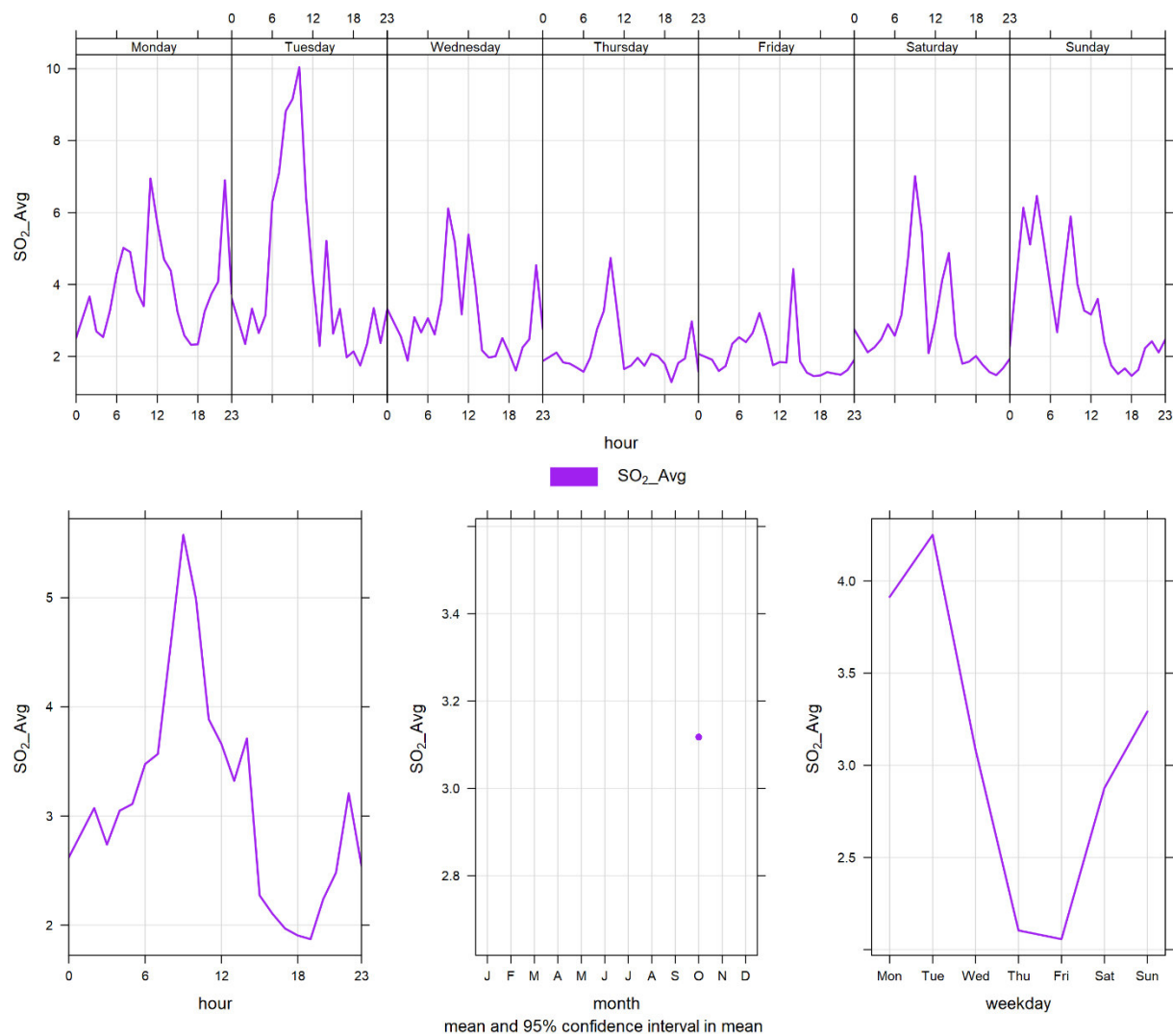


Figure 3-11 Lagoon monitor SO₂ time variation

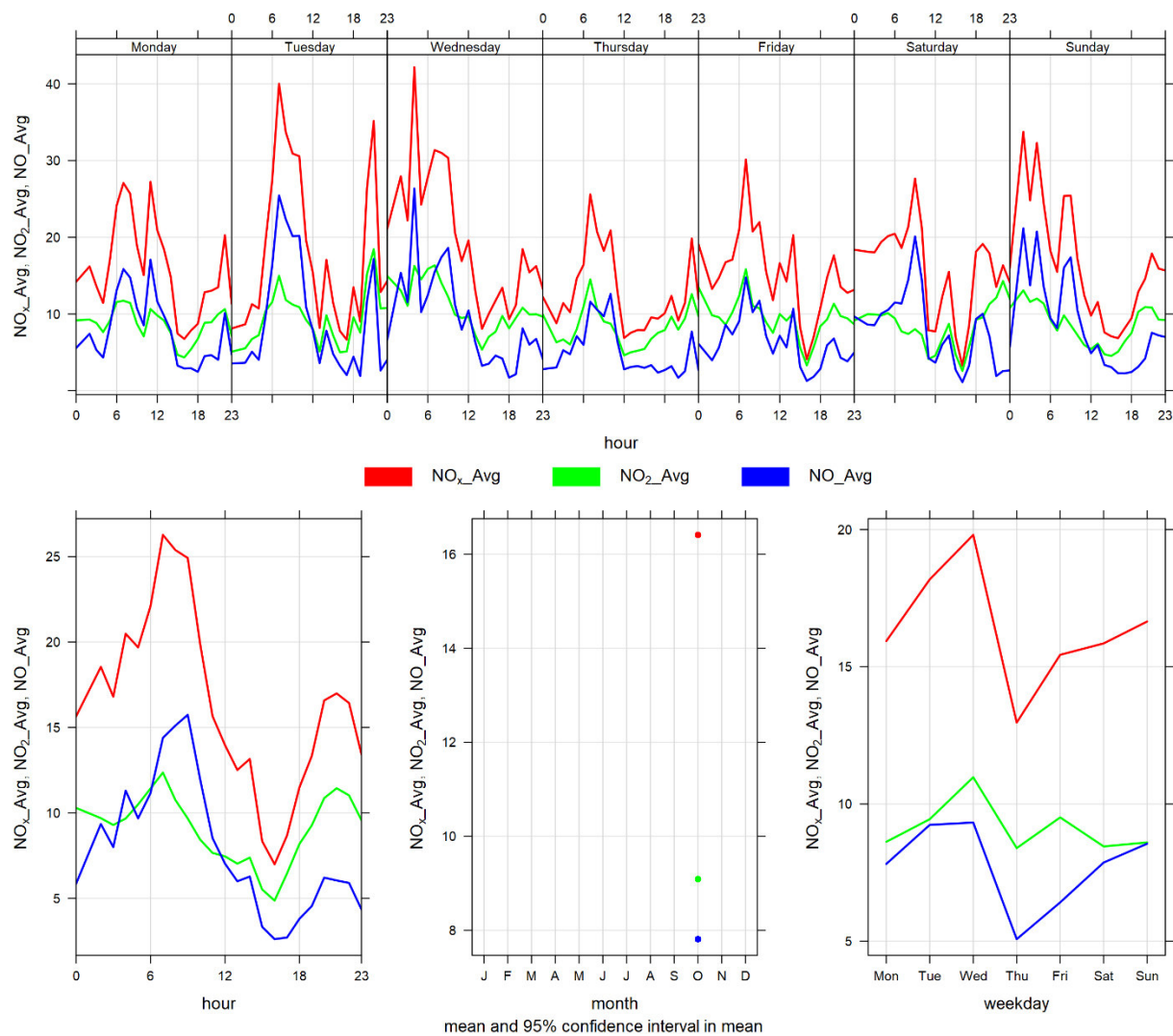


Figure 3-12 Lagoon monitor NO_x time variation

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 October 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 October 6 th . The monitor recorded 100% uptime for the month of October.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on October 6 th . The monitor recorded 100% uptime for the month of October.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on October 6 th . The monitor recorded 100% uptime for the month of October.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in October 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, zero exceedances of the 1-hour PM_{2.5} AAAQG, and 7 exceedances of the 24-hour TSP AAAQO.

Historically in October, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances is 5 and 0, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in October was 10 days in 2021.

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 October 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 October 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/m ³)	80	29	Windridge	0	0	0.0	4.5	55.0	10	12	30.3	266.2	19.8	19	100.0
PM₁₀ (µg/m ³)	-	-	Windridge	-	-	0.0	48.4	485.0	10	22	7.0	101.0	163.3	27	100.0
TSP (µg/m ³)	-	100	Windridge	-	7	0.0	73.1	985.0	10	12	30.3	266.2	243.3	27	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						
2022-10-10	120.4	-	280.2	21.5	44.9	High wind event
2022-10-11	123.8	-	266.1	18.4	55.0	Winds predominately from the west
2022-10-19	201.1	-	268.0	20.3	27.8	High wind event
2022-10-20	116.5	-	55.9	16.4	50.8	Winds predominately from the north
2022-10-26	186.3	-	266.9	26.1	41.1	High wind event
2022-10-27	243.3	-	252.0	33.1	39.9	High wind event
2022-10-29	127.0	-	247.4	38.2	35.0	High wind event
Total # of Exceedances	7	0				
Maximum # of Exceedances (October)	10 (2021)	0 (2018, 2020, 2021)				
Average # of Exceedances (October)	5	0				
Minimum # of Exceedances (October)	2 (2020)	0 (2018, 2020, 2021)				

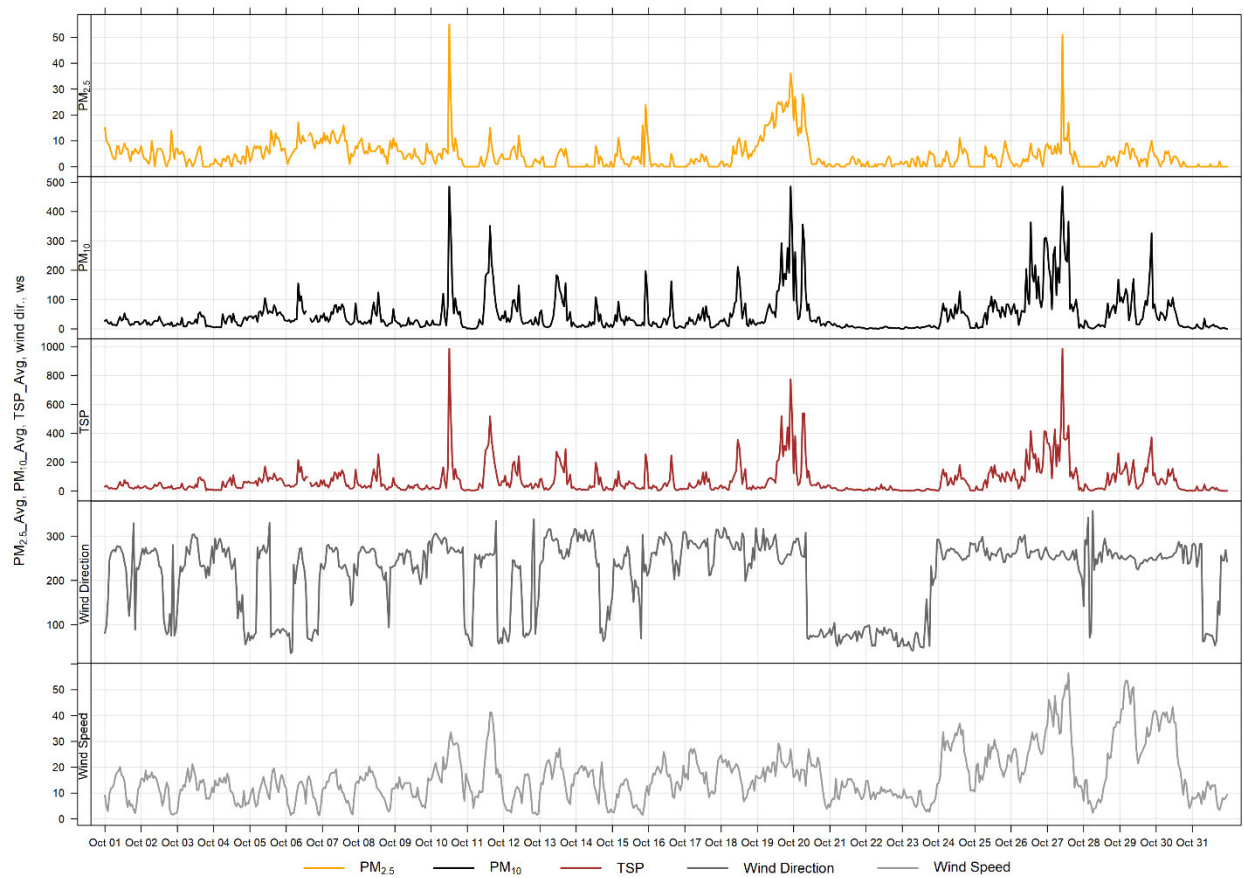


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

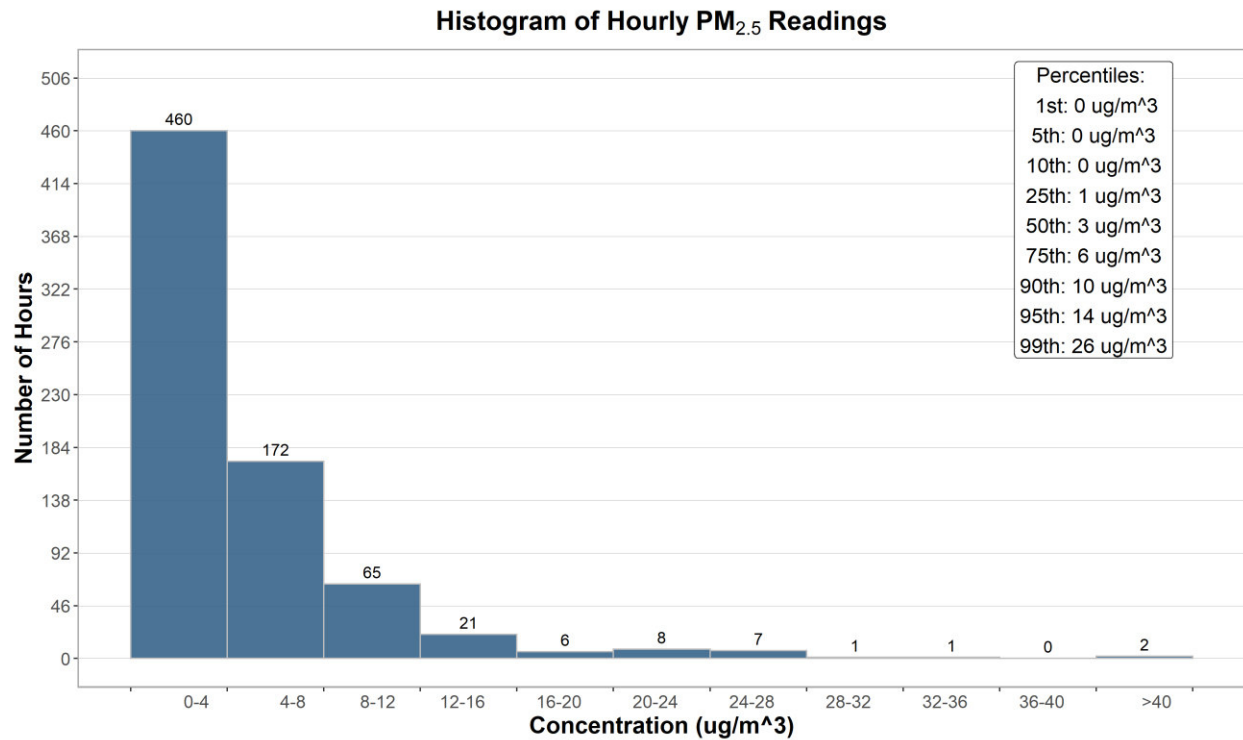


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

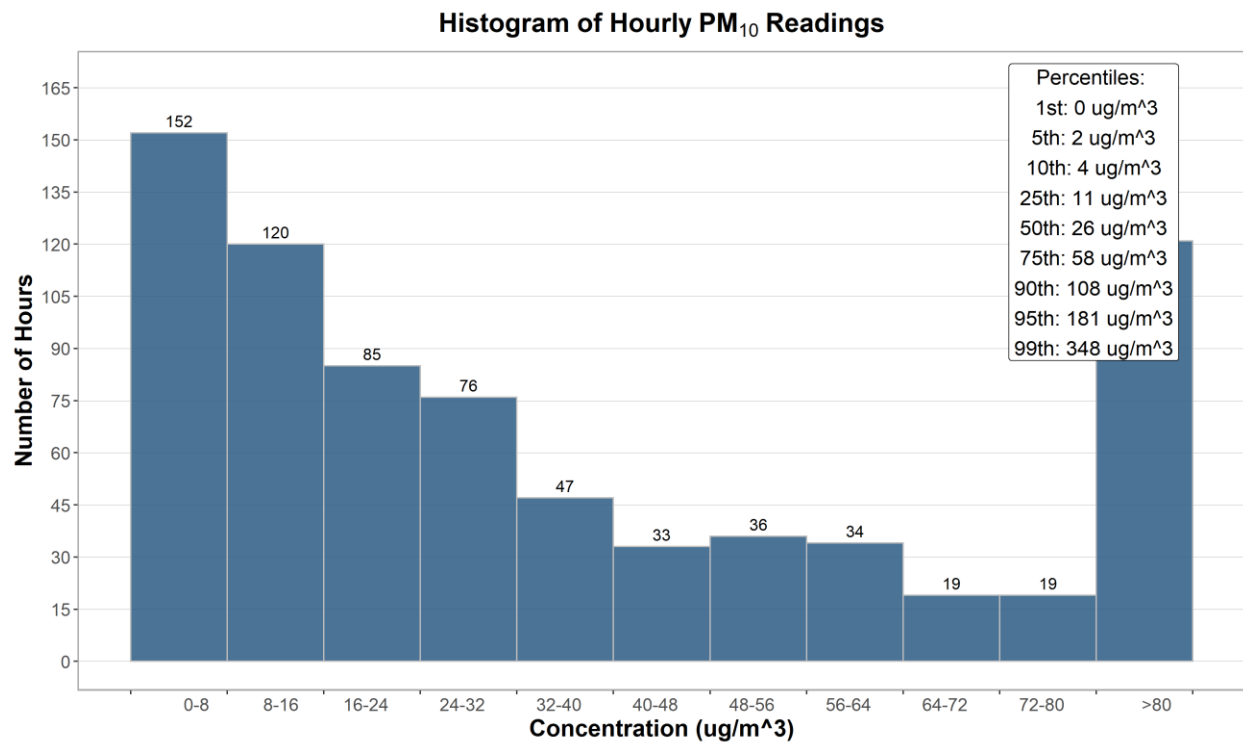


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

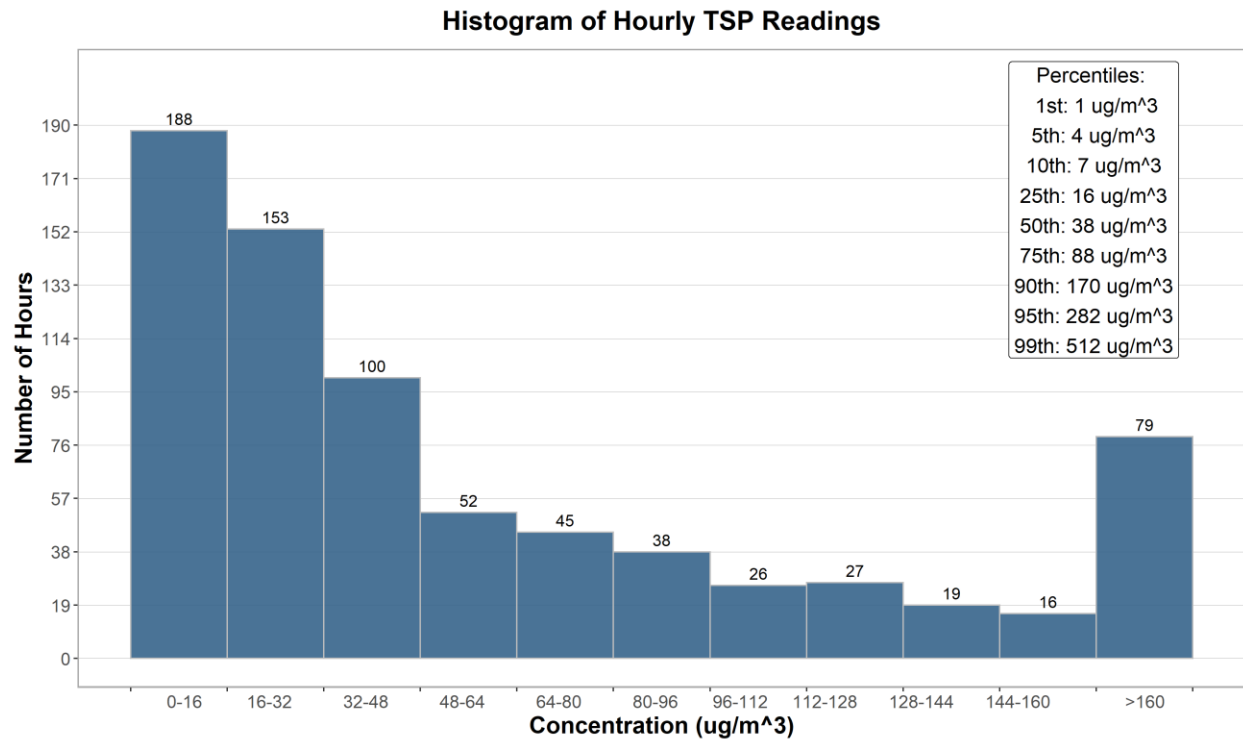


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

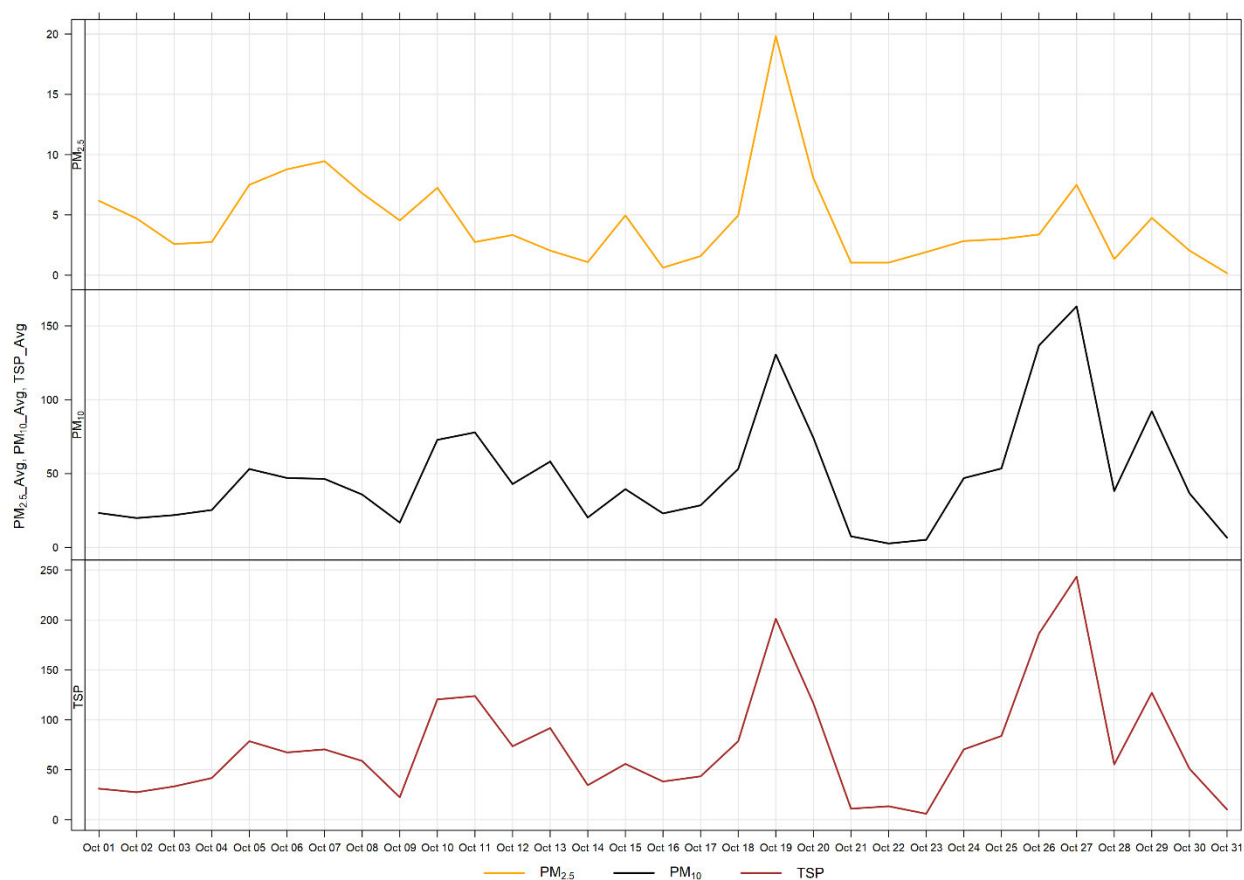


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 7 days of TSP exceedances. The wind roses 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 October 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.

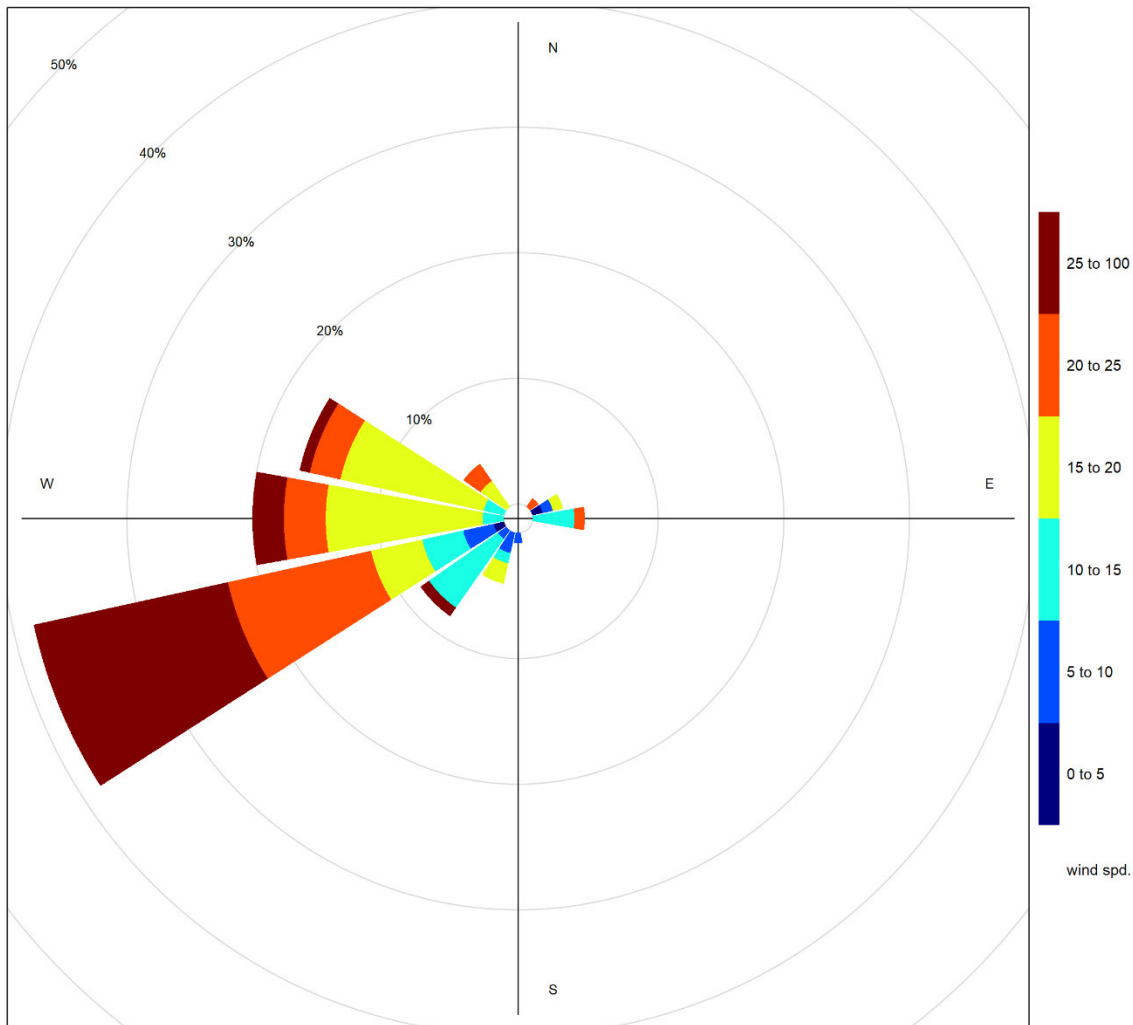


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

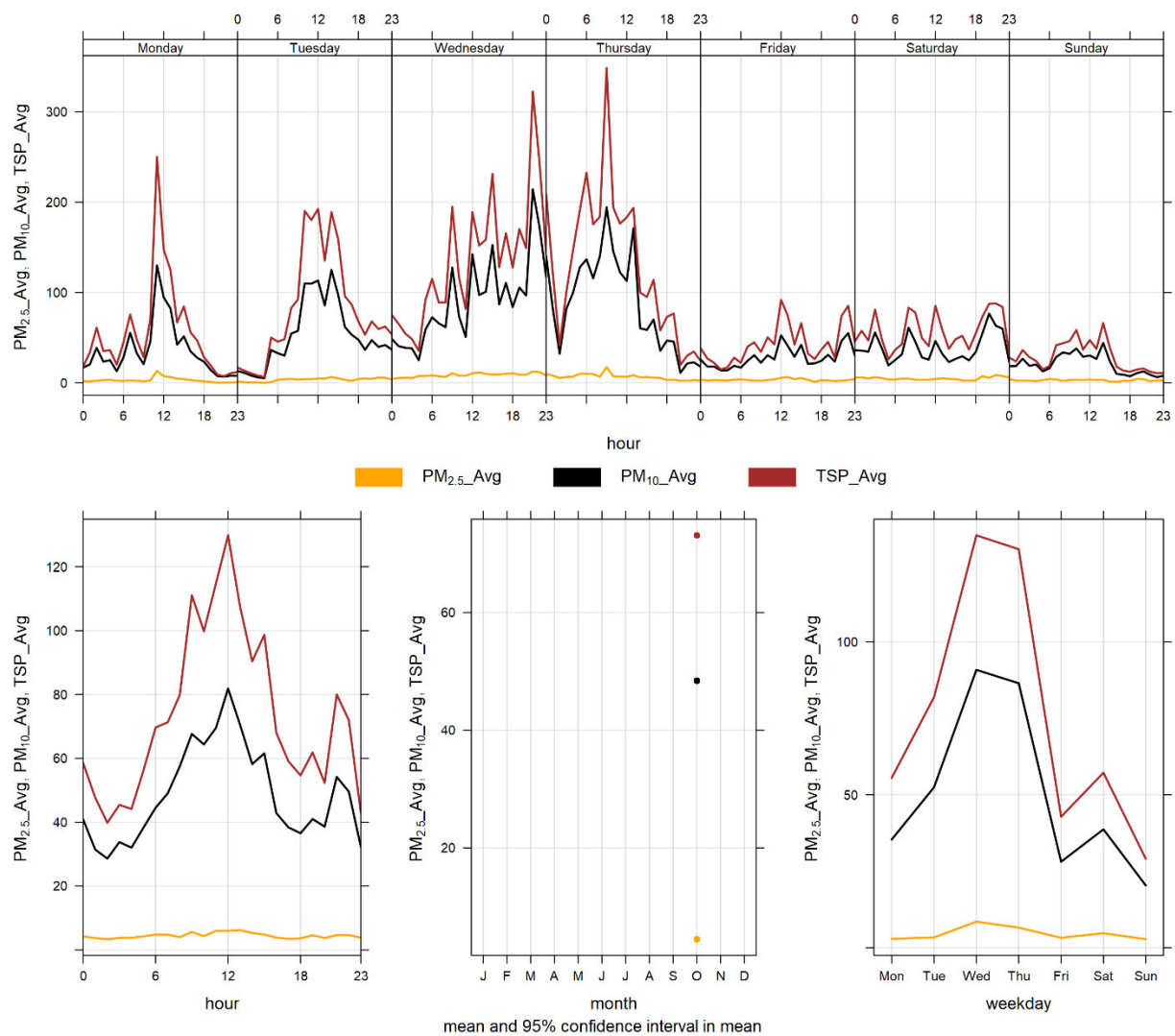


Figure 4-7 Windridge particulate matter time variation

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} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 73.7% uptime for the month of October due to 133 hours of routine maintenance occurring from October 1 st at 1:00 – October 6 th at 13:00. Additionally, 63 hours of communication error occurring from October 13 th at 3:00 – October 14 th at 23:00, October 15 th at 1:00, October 15 th at 3:00 – 9:00, October 17 th at 1:00 – 7:00, October 17 th at 10:00 & 11:00 and October 25 th at 12:00.

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 September, the West monitor records an average of zero exceedances of the 24-hour TSP and PM_{2.5} guidelines. The maximum number of 24-hour TSP AAAQO exceedances recorded in September was one day in 2013.

Table 5-2 Summary of October 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	6.8	31.8	19	9	18.0	276.3	23.7	19	73.7
PM₁₀ (µg/m ³)	-	-	West	-	-	0.4	9.0	41.3	19	9	18.0	276.3	27.9	19	73.7
TSP (µg/m ³)	-	100	West	-	0	0.2	9.5	125.8	22	11	10.6	76.7	45.0	22	73.7

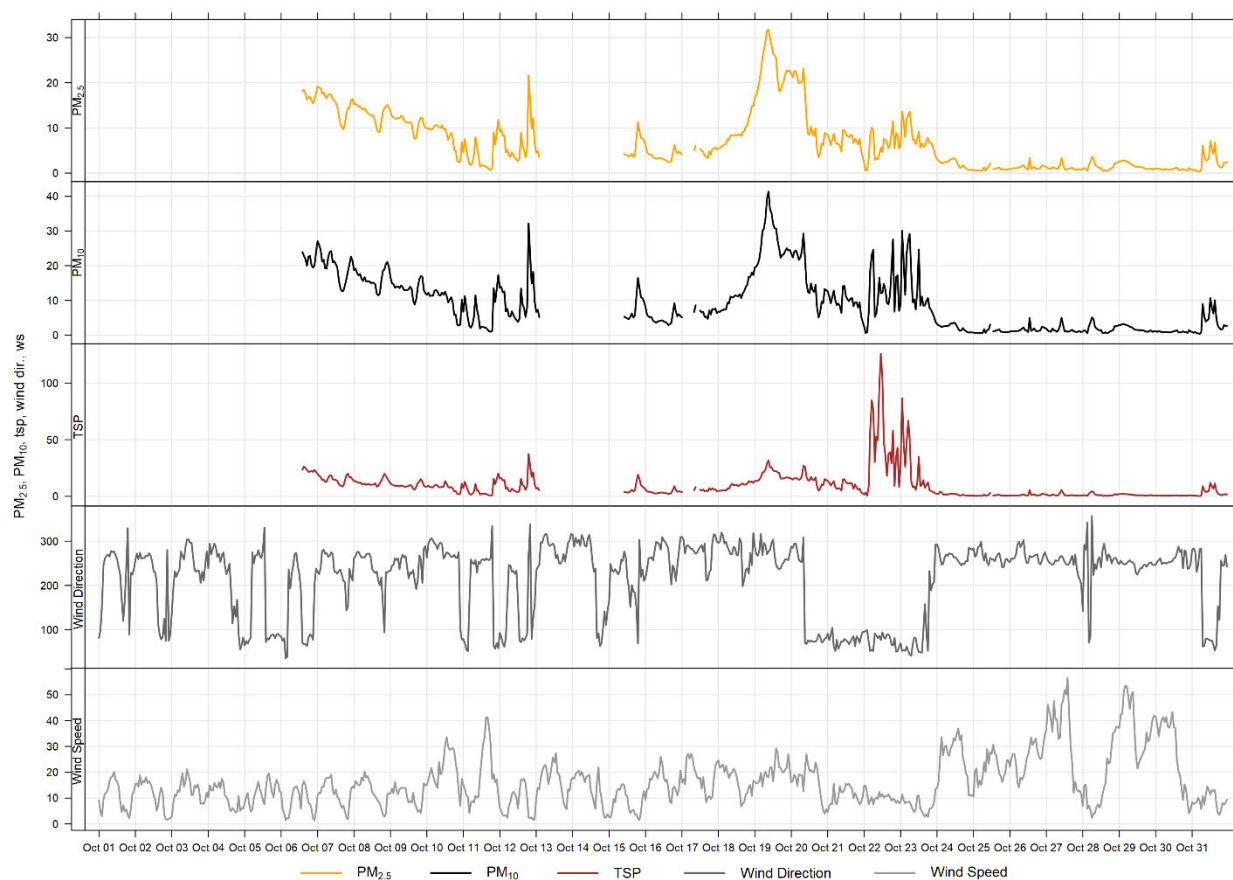


Figure 5-1 1-hour particulate matter concentrations at the West monitor

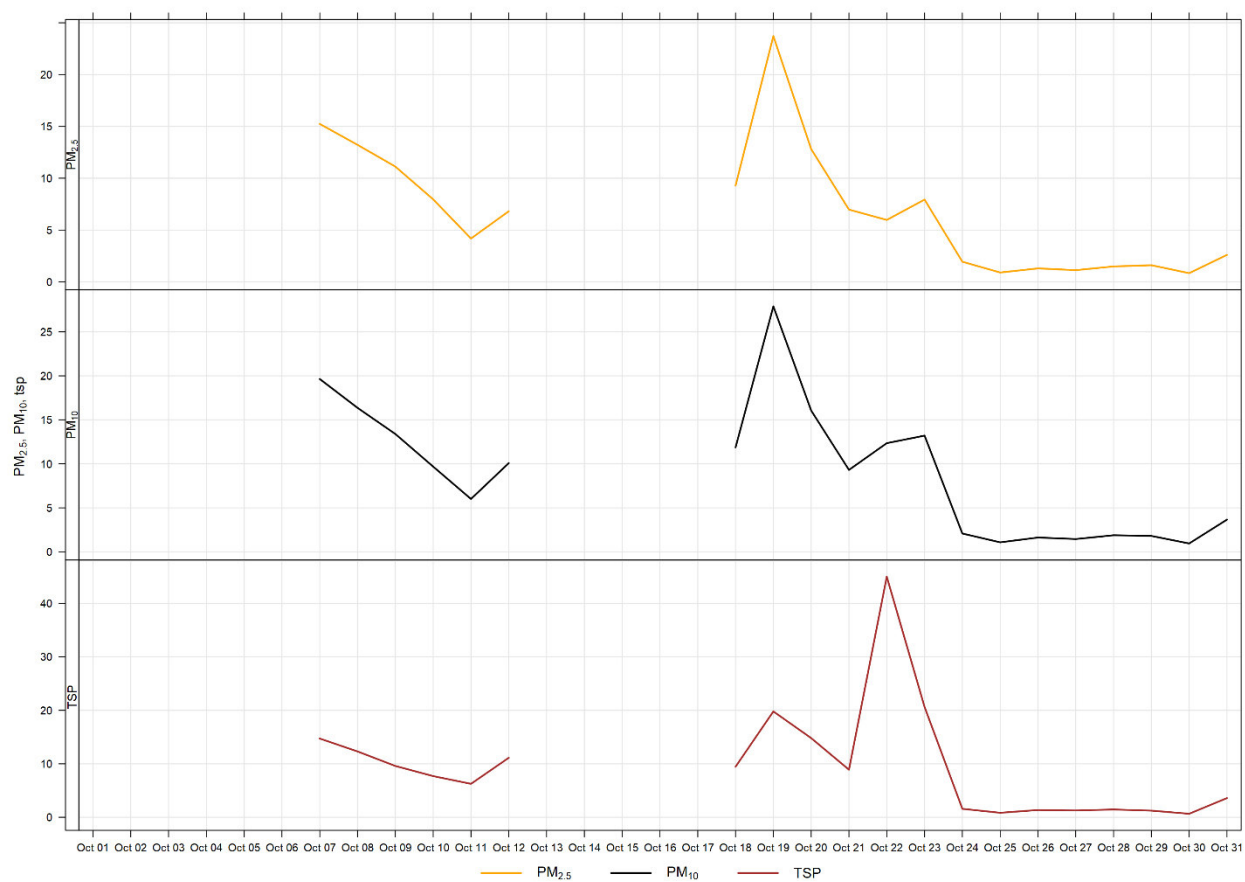


Figure 5-2 24-hour particulate matter concentrations at the West monitor

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 October 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.

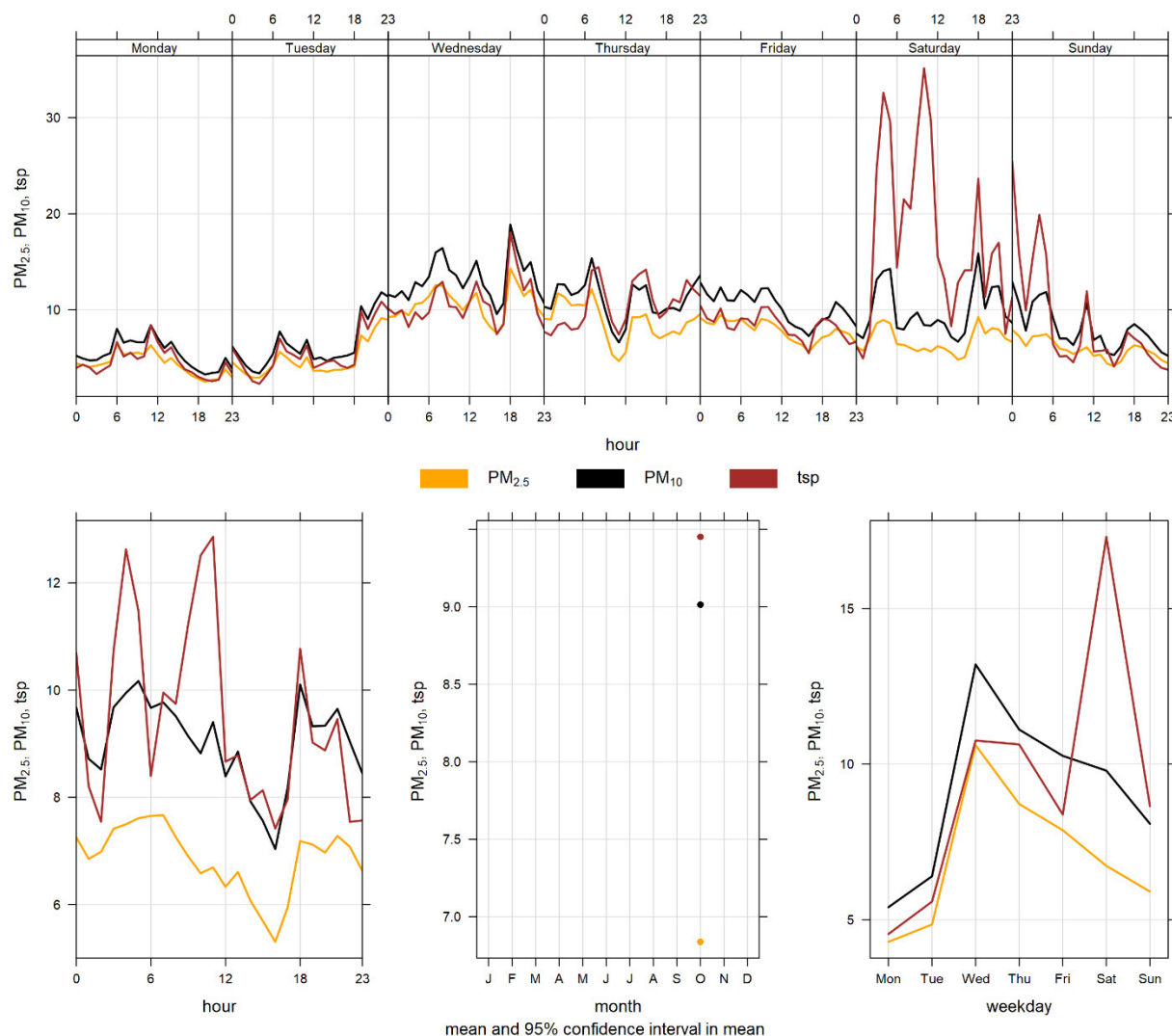


Figure 5-3 West monitor particulate matter time variation

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 38.7% uptime for the month of October due to one hour of equipment malfunction occurring on October 1 st at 1:00. Additionally, 455 hours of routine maintenance occurred from October 6 th at 16:00 – October 25 th at 14:00.

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. 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 5 and 2 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) Guidelines, respectively. There were four hours exceeding the 1-hour PM_{2.5} Guideline.

Historically during the month of October, the Berm monitor records an average of 14 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during October occurred in 2014 where there were 21 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in October was 1 day in 2012. However, it should be noted that the monitor had low uptime this month due to the GRIMM monitor being removed for annual calibration and maintenance. Due to low operational uptime for the month of October, only the short tabular summaries in Table 6-2 and 6-3 are provided.

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 September 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.

Figure 6-1 shows the wind rose for the 5 days of TSP exceedances. Figure 6-2 shows the wind rose for the 2 days of PM_{2.5} 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.

Table 6-2 Summary of October 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	4	2	0.4	14.3	229.0	27	10	46.1	266.7	46.1	27	38.7
PM₁₀ (µg/m ³)	-	-	Berm	-	-	0.5	100.3	2066.4	27	10	46.1	266.7	400.6	27	38.7
TSP (µg/m ³)	-	100	Berm	-	5	0.4	301.7	3886.8	27	10	46.1	266.7	1205.6	27	38.7

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						
2022-10-26	861.0	31.3	266.9	26.1	41.1	High wind event
2022-10-27	1205.6	46.1	252.0	33.1	39.9	High wind event
2022-10-28	146.7	-	262.6	17.3	66.6	Winds predominately from the west.
2022-10-29	700.4	-	247.4	38.2	35.0	High wind event
2022-10-30	203.6	-	258.1	27.0	49.4	High wind event
Total # of Exceedances	5	2				
Maximum # of Exceedances (October)	21 (2014)	1 (2012)				
Average # of Exceedances (October)	14	0				
Minimum # of Exceedances (October)	3 (2021)	0 (2010, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021)				

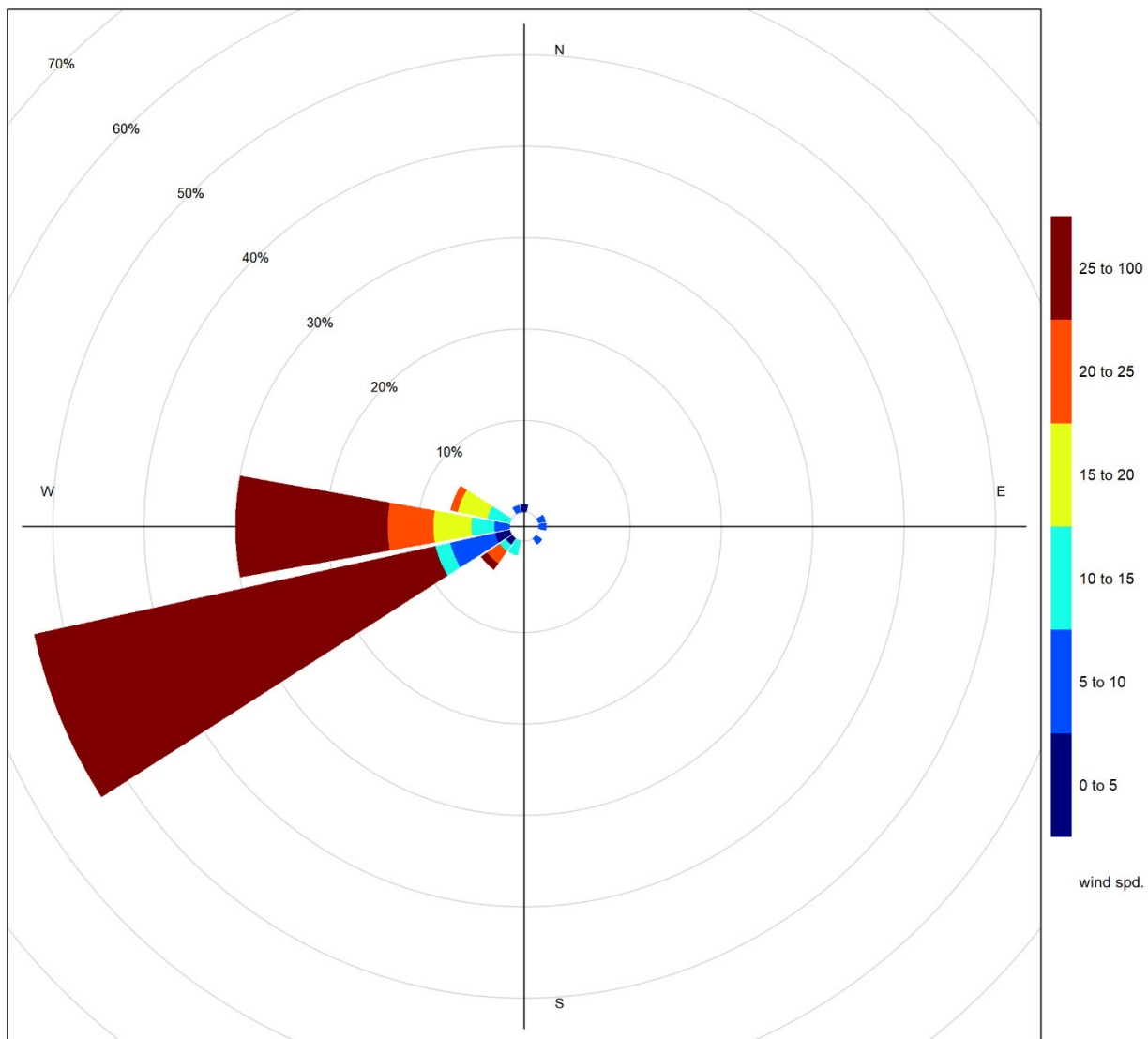


Figure 6-1 Wind rose for TSP exceedance days recorded at the Berm GRIMM

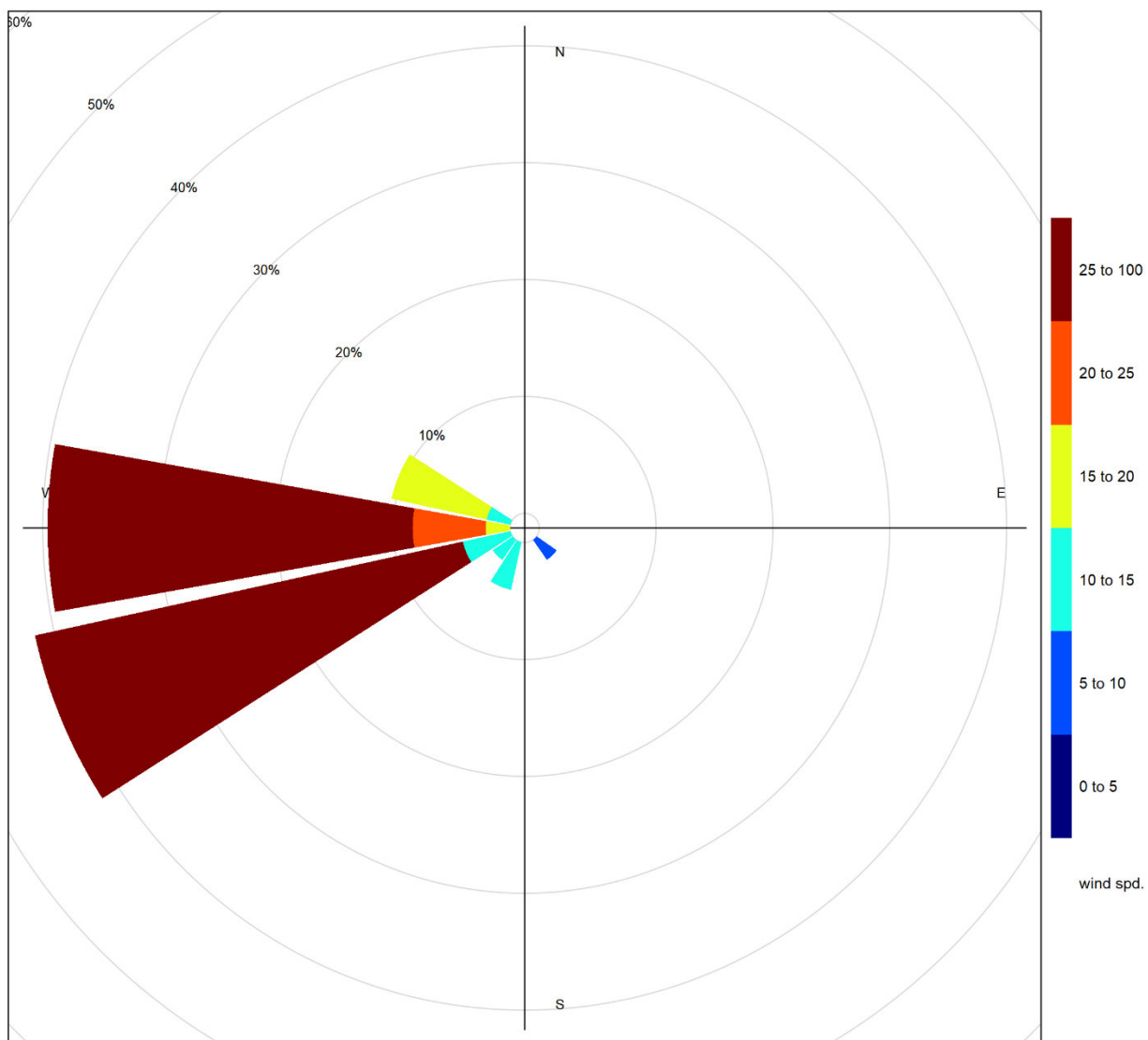


Figure 6-2 Wind rose for PM_{2.5} exceedance days recorded at the Berm GRIMM

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 43% uptime for the month of October due to 424 hours of routine maintenance that occurred from October 1 st at 1:00 to October 18 th at 16:00.

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. 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 October, there were 6 and 1 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. However, it should be noted that the monitor had low uptime this month due to the GRIMM monitor being removed for annual calibration and maintenance. Due to low operational uptime for the month of October, only the short tabular summaries in Table 7-2 and 7-3 are provided.

Historically, the Entrance monitor records an average of 13 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines respectively, during the month of October. The maximum number of TSP exceedances recorded during October occurred in 2014, which had 26 days that exceeded the guideline. The minimum number of TSP exceedances recorded during October occurred in 2021, which had zero days that exceeded the guideline. The maximum number of PM_{2.5} exceedances recorded during October is 2 days in 2010 and 2012.

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 7-1 shows the wind rose for the 6 days that exceeded the TSP Guideline. Figure 7-2 shows the wind rose for the one day that exceeded the PM_{2.5} Guideline. The wind roses show that the winds predominantly came from the westerly directions.

Table 7-2 Summary of October 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	1	0.2	10.6	77.6	19	7	20.3	290.7	39.6	19	43.0
PM₁₀ (µg/m ³)	-	-	Entrance	-	-	0.3	50.4	489.3	19	7	20.3	290.7	183.9	19	43.0
TSP (µg/m ³)	-	100	Entrance	-	6	0.2	151.9	1788.5	27	10	46.1	266.7	499.9	27	43.0

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						
2022-10-19	474.1	39.6	268.0	20.3	27.8	High wind event / influences from wildfire smoke on PM _{2.5}
2022-10-20	173.1	-	55.9	16.4	50.8	Winds predominately from the northeast
2022-10-24	116.7	-	261.1	25.4	55.9	High wind event
2022-10-25	143.4	-	261.7	22.0	48.7	High wind event
2022-10-26	273.9	-	266.9	26.1	41.1	High wind event
2022-10-27	499.9	-	252.0	33.1	39.9	High wind event
Total # of Exceedances	6	1				
Maximum # of Exceedances (October)	26 (2014)	2 (2010, 2012)				
Average # of Exceedances (October)	13	0				
Minimum # of Exceedances (October)	0 (2021)	0 (2011, 2013, 2014, 2015, 2016, 2018, 2019, 2020, 2021)				

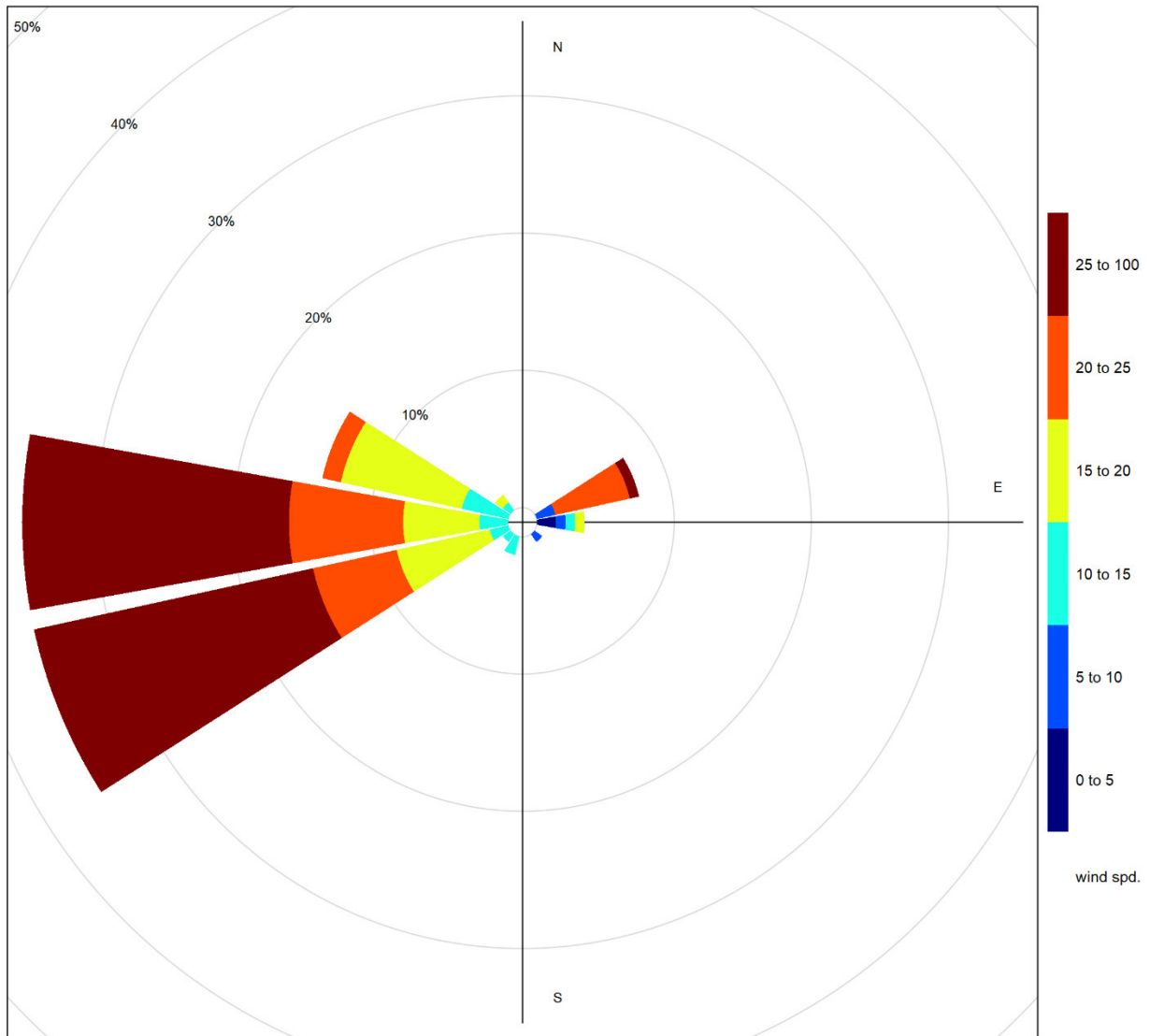


Figure 7-1 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

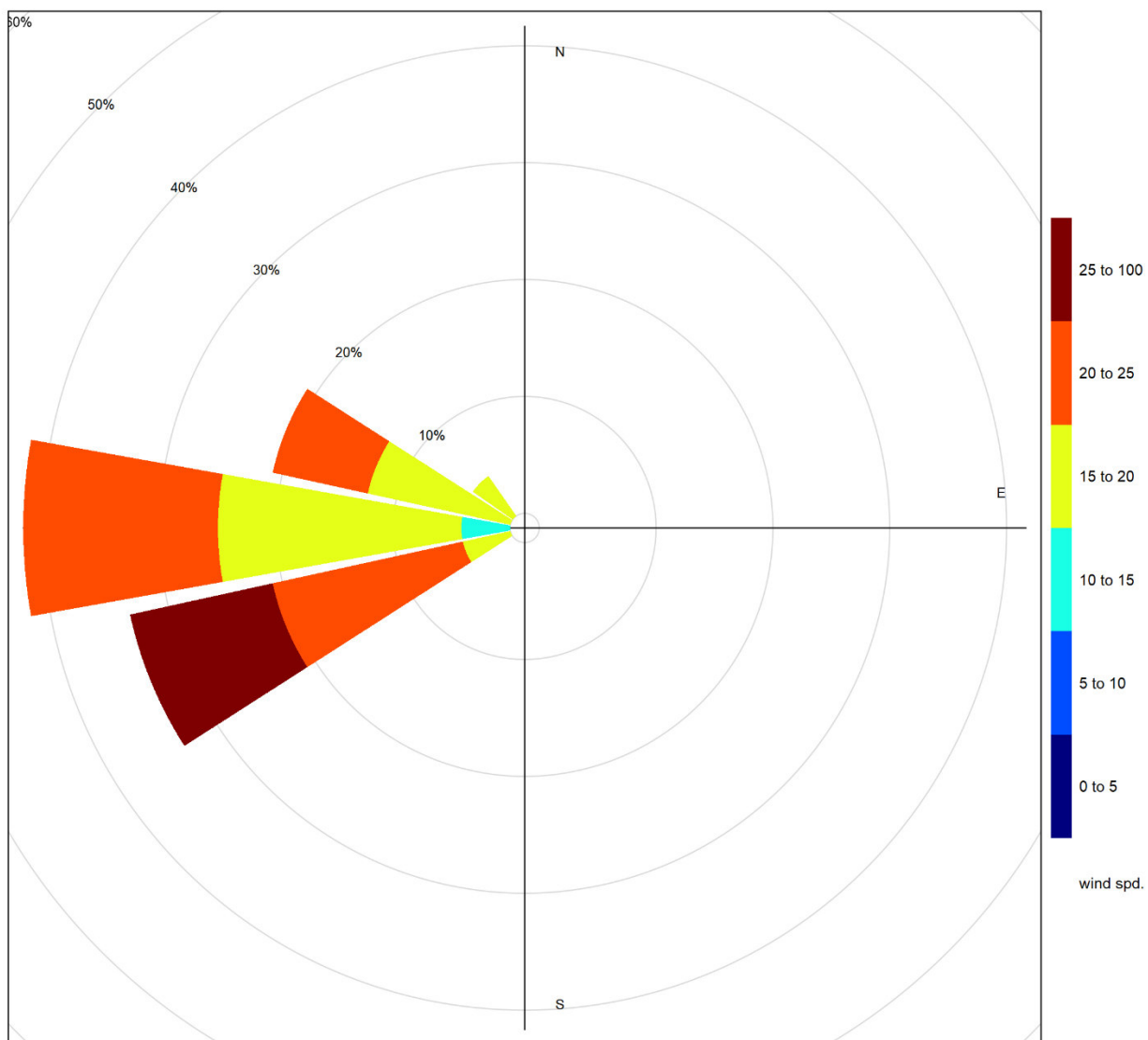


Figure 7-2 Wind rose for PM_{2.5} exceedance days recorded at the Entrance GRIMM

BIBLIOGRAPHY

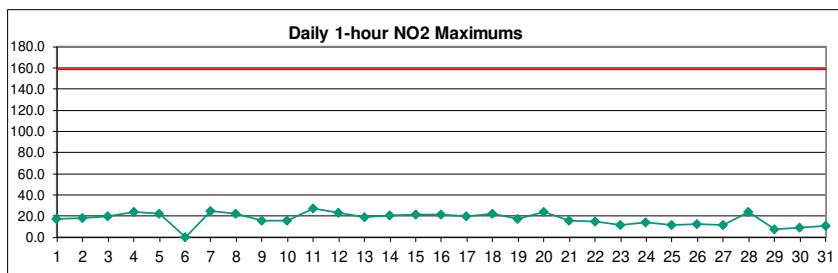
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APPENDIX

A DATA & CALIBRATION REPORTS

Lagoon NO₂ (ppb) – October 2022

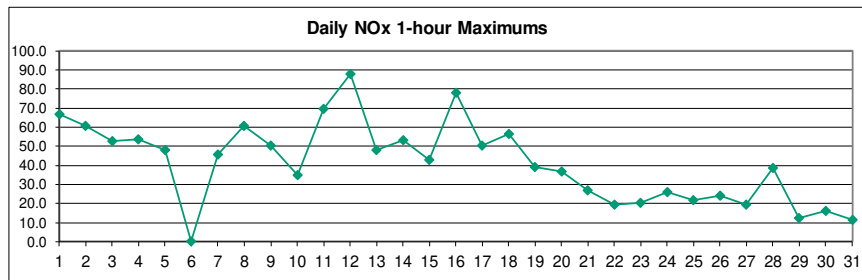
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	11.4	S	12.8	13.3	11.4	9.7	9.5	9.6	9.6	12.0	7.9	6.9	4.7	5.0	17.1	4.8	2.3	3.4	5.3	9.4	9.0	12.4	15.2	13.2	9.4	17.1
2	11.6	S	15.0	14.7	17.8	18.0	16.8	9.9	12.0	9.5	7.2	4.5	2.7	3.3	1.9	2.8	3.6	4.4	4.3	7.4	8.7	9.9	11.3	10.0	9.0	18.0
3	12.2	S	16.3	16.6	15.6	13.1	13.6	14.8	9.0	8.6	5.9	11.3	9.8	4.9	2.7	2.9	3.1	2.5	7.6	6.6	7.4	14.7	20.4	8.4	9.9	20.4
4	7.0	S	6.8	8.2	5.7	11.2	15.3	12.8	11.8	12.3	11.4	5.2	4.2	2.5	10.4	4.4	2.1	2.6	5.6	4.8	23.8	22.6	12.6	11.9	9.4	23.8
5	22.2	S	15.3	15.8	19.3	18.1	16.3	15.3	14.3	12.6	12.4	14.6	14.8	13.8	5.7	13.2	14.7	15.0	11.2	13.0	6.9	5.3	3.6	3.8	12.9	22.2
6	8.6	S	10.3	9.5	7.7	10.7	15.6	16.5	12.5	C	C	C	C	C	C	C	5.5	6.0	8.4	9.6	9.9	10.6	14.8	17.1	-	-
7	17.4	S	14.1	15.2	18.4	16.4	15.8	14.5	12.4	14.2	8.7	5.5	4.3	4.1	3.5	2.6	2.8	4.4	11.0	16.0	20.7	21.1	24.8	20.5	12.5	24.8
8	22.8	S	14.5	18.5	18.3	18.1	15.6	12.7	13.4	12.4	14.2	6.2	4.4	5.2	2.3	2.0	1.6	5.4	21.1	20.6	17.1	21.4	18.0	20.0	13.3	22.8
9	14.3	S	13.2	15.0	15.2	15.4	13.9	13.4	15.6	14.4	12.1	10.0	6.5	7.4	2.9	2.0	1.7	6.1	11.4	14.7	14.9	11.5	8.6	13.0	11.0	15.6
10	10.7	S	10.7	7.1	7.3	11.9	16.2	14.0	16.0	12.2	7.2	11.9	15.2	12.7	14.3	8.8	9.6	12.1	10.1	8.7	10.4	11.6	2.2	1.2	10.5	16.2
11	1.6	S	2.5	4.7	8.8	12.7	12.4	14.2	10.4	12.8	8.1	8.7	9.0	6.0	7.0	6.1	3.5	6.6	17.0	9.7	21.5	27.2	17.8	16.2	10.6	27.2
12	19.3	S	18.0	16.5	18.6	19.9	23.6	23.6	17.2	11.8	11.9	11.7	8.5	6.5	2.5	2.4	6.1	12.3	12.1	13.8	19.3	18.3	16.1	15.4	14.2	23.6
13	19.2	S	6.6	8.3	6.2	5.1	5.7	8.8	8.0	9.0	17.0	11.0	3.2	6.1	3.0	2.3	8.6	15.1	13.3	13.5	8.8	10.5	19.0	6.6	9.4	19.2
14	7.7	S	7.6	5.0	5.7	3.5	5.5	14.2	10.3	6.8	7.6	10.7	15.9	13.1	20.6	7.9	1.3	6.8	15.5	14.9	13.2	9.6	8.3	9.0	9.6	20.6
15	7.4	S	14.1	13.6	10.9	10.0	12.0	10.0	11.6	10.8	4.9	11.3	20.4	21.3	12.7	4.8	12.3	15.0	13.4	18.1	18.2	20.6	19.7	13.3	21.3	
16	16.5	S	21.9	16.0	17.7	12.8	8.1	9.8	12.0	11.9	9.1	7.9	10.2	12.6	10.0	4.2	2.8	2.9	7.5	14.7	12.7	13.4	8.4	6.9	10.9	21.9
17	6.5	S	12.3	11.4	7.5	9.7	11.4	11.1	15.4	10.7	10.5	17.2	15.2	20.0	13.6	7.1	3.3	7.1	7.5	16.8	14.4	8.2	12.4	13.1	11.4	20.0
18	7.8	S	5.9	7.8	8.3	11.9	15.0	22.2	19.7	17.1	17.4	19.0	15.6	7.4	13.5	6.2	3.2	6.6	11.4	13.5	9.2	18.8	9.4	12.6	12.2	22.2
19	15.4	S	10.9	7.3	14.9	10.7	11.3	13.8	12.2	17.2	11.5	8.4	9.9	4.1	4.8	4.3	2.8	3.1	7.3	8.7	5.0	7.3	8.3	9.9	9.1	17.2
20	9.0	S	6.8	7.0	8.4	12.8	18.9	24.0	10.3	8.1	3.2	7.8	8.5	6.1	9.0	9.1	5.4	2.8	3.3	13.4	11.9	15.2	15.3	13.0	10.0	24.0
21	14.5	S	10.5	14.2	6.7	8.3	15.5	10.9	7.7	5.6	3.4	4.7	6.0	12.2	7.9	4.5	3.0	5.2	4.7	3.5	6.1	5.7	3.0	2.2	7.2	15.5
22	1.5	S	6.9	3.0	6.4	9.6	2.2	1.6	1.4	1.5	2.1	1.4	1.3	1.6	1.5	1.5	2.0	5.9	3.1	1.5	10.4	6.3	14.7	5.6	4.0	14.7
23	9.5	S	7.0	9.5	7.4	8.9	5.2	2.7	5.0	4.8	4.8	3.9	3.6	2.6	1.6	4.4	7.9	9.7	8.8	7.5	12.1	10.3	8.4	7.9	6.7	12.1
24	7.0	S	2.5	2.9	3.3	5.7	11.4	12.8	13.9	9.5	9.2	9.5	5.1	4.7	2.3	1.6	3.3	2.4	2.7	3.8	4.3	7.8	7.4	5.9	6.0	13.9
25	3.9	S	6.9	6.3	6.2	5.7	3.5	10.7	5.4	2.6	6.7	4.0	3.5	4.6	8.4	12.1	11.3	4.6	4.2	2.3	6.4	5.2	3.1	2.3	5.6	12.1
26	3.0	S	7.9	4.6	12.2	9.3	12.3	12.7	12.5	7.3	3.8	3.2	5.5	4.6	8.3	8.2	7.2	8.5	1.9	2.5	12.0	8.9	11.9	9.5	7.7	12.7
27	2.7	S	1.5	1.8	1.8	3.5	3.5	8.7	11.9	9.9	5.9	2.5	2.1	2.8	3.6	4.9	7.5	6.2	6.5	2.1	1.1	1.3	1.3	2.1	4.2	11.9
28	14.2	S	7.1	3.9	3.7	12.6	12.7	23.8	13.7	16.5	15.9	9.2	13.8	7.1	8.4	7.7	6.0	6.1	2.3	2.8	5.3	2.5	1.6	2.9	8.7	23.8
29	2.6	S	1.7	1.4	2.1	3.1	7.9	2.7	2.6	2.6	1.3	1.2	1.1	1.1	1.2	2.5	2.1	1.8	1.8	2.7	1.9	2.2	2.9	1.4	2.3	7.9
30	2.0	S	8.3	2.8	2.0	1.7	2.3	3.3	4.5	2.0	3.0	3.5	4.0	4.7	7.3	9.2	9.3	9.0	5.6	7.1	6.1	9.1	9.5	8.2	5.4	9.5
31	9.4	S	4.6	6.2	4.4	5.1	5.3	5.9	2.9	2.6	2.6	3.3	3.7	3.4	4.6	3.0	2.3	2.9	5.8	8.3	8.0	7.5	10.8	7.1	5.2	10.8
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	706	100.0%
MEAN	10.3	-	9.7	9.3	9.7	10.5	11.4	12.4	10.8	9.7	8.4	7.7	7.5	7.0	7.4	5.5	4.9	6.5	8.2	9.3	10.9	11.4	11.0	9.6		
MAX	22.8	-	21.9	18.5	19.3	19.9	23.6	24.0	19.7	17.2	17.4	19.0	15.9	20.4	21.3	13.2	14.7	15.1	21.1	20.6	23.8	27.2	24.8	20.5		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	706
Maximum 1-HR Average	27.2 PPB
Maximum 24-HR Average	14.2 PPB
Monthly Calibration	7
Standard Deviation	5.4
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	9.1 PPB

Lagoon NOx (ppb) – October 2022

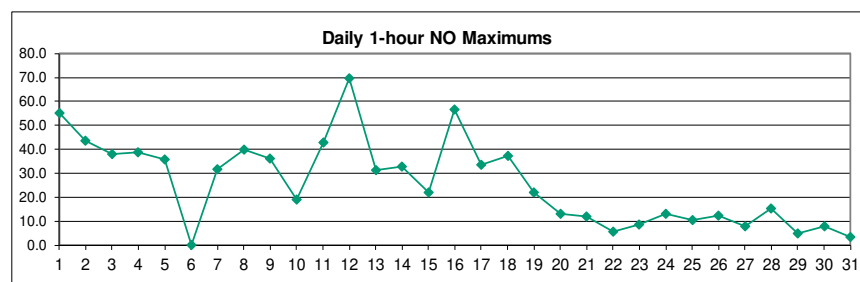
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	20.7	S	30.4	23.7	25.1	30.7	36.0	43.1	45.0	66.8	28.6	16.0	7.3	7.4	27.7	6.1	2.7	3.8	6.7	19.7	10.8	12.8	17.5	16.6	22.0	66.8
2	20.8	S	44.4	37.0	60.8	52.3	50.3	20.5	36.4	24.7	15.5	7.1	3.6	4.3	2.3	3.9	4.8	5.4	4.6	7.7	9.2	18.1	28.5	25.3	21.2	60.8
3	19.5	S	20.3	21.8	20.1	17.6	38.5	52.6	25.1	24.0	12.7	34.0	22.3	6.7	3.4	3.9	4.3	2.9	8.0	7.1	7.8	23.6	52.6	12.3	19.2	52.6
4	11.3	S	11.4	17.5	9.7	23.4	53.7	40.8	44.7	41.8	46.0	9.4	6.6	3.5	18.8	6.7	2.6	2.9	6.7	5.1	40.1	37.3	13.1	12.9	20.3	53.7
5	24.3	S	17.5	21.2	35.2	32.1	31.0	32.1	45.2	47.8	30.8	29.1	40.2	28.8	7.1	18.0	22.5	18.2	11.9	14.5	8.4	6.1	3.9	4.1	23.0	47.8
6	9.4	S	15.6	20.1	18.0	28.2	23.4	36.0	30.1	C	C	C	C	C	C	C	6.9	6.6	11.5	11.7	11.0	11.6	23.1	19.5	-	-
7	18.8	S	17.8	20.6	43.0	33.4	33.1	35.9	35.1	45.7	18.0	8.9	5.9	5.4	4.4	3.1	3.3	4.9	14.4	27.5	28.6	23.9	32.6	35.3	21.7	45.7
8	52.8	S	29.6	43.6	45.3	44.0	33.7	20.8	37.0	35.3	44.3	10.4	6.6	7.8	2.9	2.4	2.0	12.5	60.8	48.0	27.4	23.5	18.4	23.3	27.5	60.8
9	19.4	S	21.6	25.3	26.7	18.2	17.7	23.1	37.3	50.2	33.8	20.4	10.5	11.2	3.8	2.5	2.1	8.1	17.7	22.6	19.0	22.3	12.4	23.3	19.5	50.2
10	19.1	S	23.5	11.3	14.7	22.8	30.1	26.1	34.8	22.3	11.5	25.2	29.9	26.8	31.1	17.8	18.1	21.9	15.9	17.3	18.9	12.3	2.5	1.6	19.8	34.8
11	1.9	S	3.4	6.5	10.3	24.5	22.8	45.8	25.7	31.1	14.6	14.0	15.0	9.8	11.9	9.3	5.3	9.9	28.8	13.7	45.4	69.7	20.6	19.2	20.0	69.7
12	31.9	S	65.0	50.4	87.7	38.5	43.6	52.3	38.0	24.0	24.4	21.1	13.5	10.4	3.4	3.2	9.1	17.1	13.2	14.5	39.2	29.7	28.0	17.9	29.4	87.7
13	22.8	S	9.3	15.4	10.6	7.0	7.2	16.6	15.9	24.6	48.2	24.0	4.6	9.6	4.4	3.1	12.5	19.4	16.0	16.7	11.2	14.9	37.5	10.5	15.7	48.2
14	11.0	S	13.1	9.2	8.3	5.1	9.4	24.7	20.1	11.2	15.1	17.8	26.8	19.7	52.9	10.3	1.7	8.5	20.2	24.2	27.0	20.7	12.8	10.5	16.5	52.9
15	13.1	S	16.6	17.0	11.8	11.0	17.6	23.5	19.4	30.5	28.5	9.2	21.2	42.3	43.0	20.5	5.8	14.5	17.0	22.3	35.9	20.5	22.2	22.2	21.1	43.0
16	20.2	S	77.9	47.1	61.2	39.1	14.1	25.7	38.8	41.7	23.8	19.8	22.6	30.6	16.8	5.9	3.7	4.1	8.1	15.6	17.0	22.1	13.2	7.9	25.1	77.9
17	7.5	S	29.2	24.2	13.0	25.6	26.4	25.2	38.5	28.6	26.6	50.2	36.6	45.5	28.2	9.4	3.9	8.2	7.9	25.1	24.2	11.0	24.0	28.2	23.8	50.2
18	13.1	S	7.4	11.9	14.1	22.5	28.4	55.7	56.5	46.6	49.1	48.9	34.5	11.7	22.2	7.9	3.8	7.8	13.4	14.4	11.6	26.7	13.7	22.2	23.7	56.5
19	24.7	S	16.5	11.6	25.7	15.0	18.7	23.9	20.3	39.0	21.9	12.8	14.7	5.7	6.8	5.5	3.3	3.4	9.9	12.3	6.3	10.3	9.1	14.1	14.4	39.0
20	12.9	S	8.2	7.8	9.9	18.0	30.0	36.5	17.4	13.2	3.8	11.5	12.9	8.6	13.8	13.8	7.3	3.4	3.7	18.4	12.7	17.6	17.0	15.0	13.6	36.5
21	19.4	S	13.7	24.1	11.1	11.3	27.0	21.1	10.5	7.4	4.9	7.3	8.9	21.1	11.2	6.3	3.8	7.4	5.6	3.9	7.5	6.5	3.5	2.8	10.7	27.0
22	1.9	S	11.7	3.9	11.7	10.6	2.6	2.4	1.9	2.1	3.0	1.9	2.0	2.0	2.1	2.0	2.7	9.4	3.7	2.1	12.8	7.8	19.5	6.6	5.5	19.5
23	16.9	S	9.3	11.0	10.1	10.6	6.1	3.2	7.1	7.7	8.2	9.8	6.2	3.9	2.3	7.0	10.9	12.5	9.9	8.0	20.4	11.9	13.8	11.0	9.5	20.4
24	13.5	S	3.0	3.8	4.3	11.5	19.7	24.6	26.2	16.5	21.2	22.1	9.8	7.9	4.0	2.3	4.7	3.0	3.1	5.4	5.3	12.3	10.8	7.1	10.5	26.2
25	6.0	S	12.3	9.2	8.8	7.5	5.2	17.8	7.9	4.2	12.6	6.2	5.4	7.7	15.3	21.9	19.5	5.9	5.0	2.8	8.5	6.9	3.9	2.9	8.8	21.9
26	3.6	S	12.8	5.6	20.1	11.4	18.3	17.1	20.7	10.7	5.4	4.5	10.0	7.3	15.0	13.3	12.1	14.9	2.2	3.3	20.0	15.7	23.9	16.9	12.4	23.9
27	3.7	S	2.1	2.4	2.5	5.4	5.0	13.2	19.4	16.9	10.7	3.6	3.1	4.5	5.5	6.8	11.4	8.2	9.2	2.6	1.6	1.7	1.7	2.6	6.2	19.4
28	27.1	S	8.5	5.0	4.6	18.5	14.3	38.9	17.3	23.6	23.8	13.1	24.9	10.8	12.5	13.5	7.5	7.1	2.9	3.5	7.5	3.1	2.2	4.0	12.8	38.9
29	3.3	S	2.3	2.0	3.0	4.5	12.4	3.3	3.5	3.5	1.9	1.6	1.6	1.5	1.8	3.7	2.9	2.7	2.4	3.6	2.6	3.0	4.0	1.9	3.2	12.4
30	2.6	S	15.5	3.7	2.6	2.3	3.0	4.9	7.3	2.8	4.6	5.1	5.9	7.7	12.7	16.1	12.6	10.7	6.9	10.6	7.3	15.1	11.6	10.8	7.9	16.1
31	11.3	S	5.0	7.1	5.1	7.7	5.9	6.9	4.0	3.1	3.3	4.7	6.2	5.2	7.3	3.7	2.7	3.3	8.7	9.2	8.9	8.2	11.5	7.6	6.4	11.5
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	706	100.0%
MEAN	15.6	-	18.5	16.8	20.5	19.7	22.1	26.3	25.4	24.9	19.9	15.7	14.0	12.5	13.2	8.3	7.0	8.7	11.5	13.3	16.6	17.0	16.4	13.4		
MAX	52.8	-	77.9	50.4	87.7	52.3	53.7	55.7	56.5	66.8	49.1	50.2	40.2	45.5	52.9	21.9	22.5	21.9	60.8	48.0	45.4	69.7	52.6	35.3		



Number of Non-Zero Readings	706		
Maximum 1-HR Average	87.7 PPB		
Maximum 24-HR Average	29.4 PPB		
Monthly Calibration	7	Operational Time	744 HRS
Standard Deviation	13.43	Operational Uptime	100.0 %
		Monthly Average	16.4 PPB

Lagoon NO (ppb) – October 2022

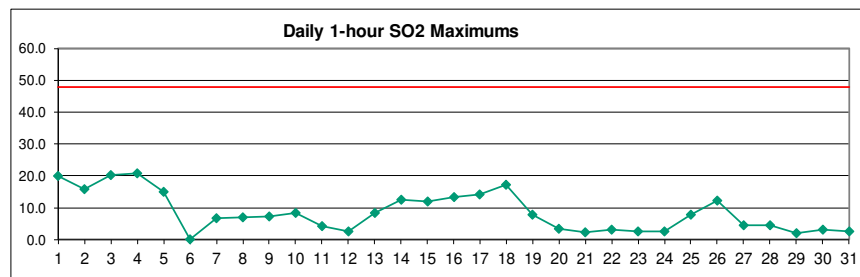
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.9	S	18.1	11.1	14.3	21.5	27.0	33.9	36.0	55.3	21.3	9.7	3.2	2.9	11.0	1.7	0.9	0.9	2.0	10.8	2.3	0.9	2.8	4.0	13.1	55.3
2	9.7	S	29.9	22.9	43.5	34.8	33.9	11.2	24.9	15.8	8.9	3.2	1.4	1.5	0.9	1.6	1.7	1.5	0.8	0.9	1.1	8.7	17.7	15.9	12.7	43.5
3	7.9	S	4.6	5.8	5.0	5.1	25.4	38.2	16.6	16.0	7.4	23.2	13.1	2.4	1.2	1.5	1.7	0.8	0.9	1.0	0.9	9.4	32.6	4.5	9.8	38.2
4	4.9	S	5.1	9.9	4.6	12.7	38.8	28.4	33.4	29.9	35.2	4.8	2.9	1.5	9.0	2.8	0.9	0.8	1.6	0.8	16.8	15.2	1.0	1.6	11.4	38.8
5	2.7	S	2.7	5.9	16.3	14.4	15.2	17.3	31.3	35.7	18.9	15.0	25.8	15.6	2.0	5.4	8.3	3.7	1.3	2.0	2.0	1.3	0.7	0.8	10.6	35.7
6	1.3	S	6.0	11.2	10.9	18.0	8.4	19.9	18.1	C	C	C	C	C	C	C	1.9	1.1	3.6	2.5	1.6	1.5	8.8	2.9	-	-
7	1.9	S	4.2	5.9	25.1	17.4	17.8	21.8	23.1	31.9	9.9	4.0	2.1	1.8	1.3	1.0	1.0	0.9	3.9	12.0	8.4	3.2	8.3	15.2	9.7	31.9
8	30.3	S	15.6	25.5	27.4	26.3	18.6	8.6	24.1	23.4	30.5	4.8	2.6	3.1	1.0	0.8	0.8	7.5	40.0	27.7	10.8	2.7	0.9	3.7	14.6	40.0
9	5.6	S	8.9	10.8	12.0	3.3	4.3	10.2	22.1	36.3	22.2	11.0	4.5	4.4	1.4	1.0	0.9	2.5	6.8	8.5	4.6	11.3	4.4	10.8	9.0	36.3
10	9.0	S	13.3	4.8	7.9	11.4	14.5	12.6	19.3	10.7	4.8	13.7	15.2	14.6	17.3	9.6	9.0	10.3	6.2	9.0	9.0	1.2	0.8	0.9	9.8	19.3
11	0.8	S	1.3	2.2	2.0	12.3	10.9	31.9	15.8	18.8	7.0	5.8	6.6	4.4	5.4	3.7	2.3	3.8	12.3	4.5	24.3	42.9	3.3	3.4	9.8	42.9
12	13.1	S	47.2	34.1	69.5	19.0	20.2	28.9	21.1	12.6	12.9	9.9	5.6	4.4	1.3	1.3	3.5	5.3	1.7	1.1	20.2	11.9	12.4	2.9	15.7	69.5
13	4.1	S	3.2	7.6	4.9	2.3	2.0	8.3	8.5	16.0	31.5	13.5	1.9	4.1	1.8	1.3	4.4	4.8	3.2	3.7	3.0	5.0	18.9	4.4	6.9	31.5
14	3.8	S	6.0	4.7	3.1	2.0	4.4	11.0	10.3	5.0	8.1	7.7	11.4	7.1	32.7	3.0	0.8	2.2	5.2	9.8	14.3	11.7	5.1	2.1	7.4	32.7
15	6.2	S	3.0	3.9	1.5	1.5	6.2	12.0	10.0	19.4	18.2	4.9	10.5	22.2	22.1	8.4	1.6	2.8	2.5	9.3	18.2	2.8	2.2	3.0	8.4	22.2
16	4.2	S	56.5	31.6	43.8	26.8	6.5	16.5	27.3	30.3	15.2	12.5	13.0	18.4	7.3	2.3	1.3	1.6	1.2	1.4	4.9	9.2	5.4	1.5	14.7	56.5
17	1.5	S	17.4	13.3	6.1	16.4	15.6	14.7	23.5	18.4	16.6	33.4	21.8	25.9	15.1	2.9	1.2	1.6	0.9	8.8	10.2	3.3	12.1	15.6	12.9	33.4
18	5.9	S	2.1	4.7	6.4	11.1	13.8	33.8	37.2	29.9	32.0	30.3	19.4	4.9	9.2	2.2	1.0	1.8	2.6	1.4	3.0	8.4	4.9	10.1	12.0	37.2
19	9.9	S	6.2	4.7	11.3	4.8	8.0	10.7	8.6	22.2	11.0	5.1	5.4	2.1	2.5	1.7	1.0	0.8	3.1	4.2	1.8	3.5	1.4	4.8	5.8	22.2
20	4.4	S	1.9	1.3	2.0	5.7	11.6	13.0	7.7	5.6	1.0	4.2	5.0	3.0	5.3	5.2	2.5	1.0	0.9	5.5	1.3	2.9	2.2	2.5	4.2	13.0
21	5.4	S	3.8	10.3	4.9	3.5	12.0	10.8	3.4	2.4	2.0	3.1	3.5	9.4	3.9	2.3	1.3	2.6	1.3	0.8	1.9	1.2	0.9	1.0	4.0	12.0
22	0.8	S	5.3	1.3	5.7	1.5	0.8	1.2	0.9	1.1	1.3	0.9	1.1	0.9	0.9	0.9	1.1	4.0	1.1	1.0	2.9	2.0	5.3	1.5	1.9	5.7
23	7.9	S	2.8	2.1	3.2	2.2	1.4	0.9	2.6	3.4	4.0	6.4	3.1	1.8	1.2	3.1	3.6	3.4	1.6	1.1	8.8	2.2	6.0	3.7	3.3	8.8
24	7.0	S	0.9	1.3	1.5	6.2	8.9	12.3	12.8	7.7	12.6	13.2	5.2	3.7	2.2	1.1	1.8	1.0	0.9	2.1	1.5	5.1	3.8	1.7	5.0	13.2
25	2.5	S	6.0	3.5	3.1	2.3	2.1	7.6	3.0	2.0	6.5	2.6	2.4	3.6	7.6	10.4	8.6	1.8	1.2	1.0	2.6	2.2	1.3	1.0	3.7	10.4
26	1.0	S	5.3	1.4	8.4	2.7	6.5	5.0	8.7	4.0	2.1	1.9	5.0	3.3	7.2	5.6	5.5	6.9	0.8	1.3	8.4	7.2	12.5	7.9	5.2	12.5
27	1.4	S	1.0	1.0	1.2	2.4	2.0	5.1	8.0	7.5	5.3	1.6	1.4	2.2	2.4	2.4	4.4	2.5	3.1	1.0	0.8	0.7	0.8	0.9	2.6	8.0
28	13.3	S	1.8	1.5	1.3	6.4	2.0	15.5	4.1	7.6	8.4	4.5	11.6	4.3	4.8	6.2	2.0	1.5	1.0	1.1	2.6	1.0	1.0	1.5	4.6	15.5
29	1.2	S	1.1	0.9	1.3	1.8	4.9	1.0	1.4	1.4	1.0	0.8	0.9	0.8	1.0	1.7	1.1	1.3	1.1	1.3	1.1	1.2	1.6	0.9	1.3	4.9
30	1.0	S	7.8	1.4	1.1	1.0	1.2	2.0	3.1	1.2	2.0	2.1	2.4	3.6	5.9	7.4	3.8	2.2	1.8	3.9	1.6	6.4	2.5	3.1	3.0	7.8
31	2.4	S	0.9	1.4	1.0	3.0	1.1	1.4	1.5	1.0	1.2	1.9	2.9	2.2	3.2	1.2	0.8	0.8	3.3	1.5	1.4	1.1	1.3	1.0	1.6	3.3
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	706	100.0%
MEAN	5.8	-	9.3	8.0	11.3	9.7	11.2	14.4	15.1	15.7	12.0	8.5	7.0	6.0	6.3	3.3	2.6	2.7	3.8	4.5	6.2	6.0	5.9	4.3		
MAX	30.3	-	56.5	34.1	69.5	34.8	38.8	38.2	37.2	55.3	35.2	33.4	25.8	25.9	32.7	10.4	9.0	10.3	40.0	27.7	24.3	42.9	32.6	15.9		



Number of Non-Zero Readings	706		
Maximum 1-HR Average	69.5 PPB		
Maximum 24-HR Average	15.7 PPB		
Monthly Calibration	7	Operational Time	744 HRS
Standard Deviation	9.319	Operational Uptime	100.0 %
		Monthly Average	7.8 PPB

Lagoon SO₂ (ppb) – October 2022

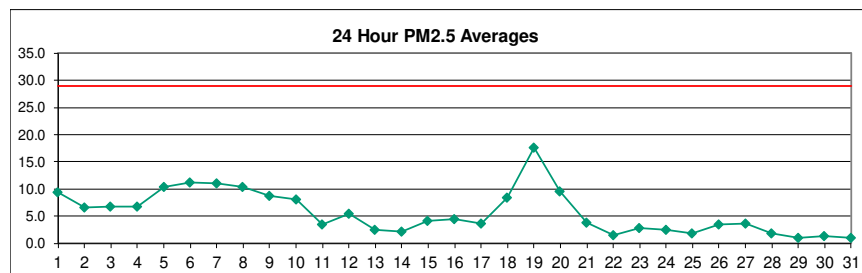
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.2	S	2.3	2.3	2.4	3.9	4.8	7.7	12.2	20.0	10.8	4.1	3.3	3.9	10.0	3.5	2.5	2.8	2.5	3.0	2.5	1.6	2.2	2.5	4.9	20.0
2	5.4	S	9.6	10.8	15.9	12.3	14.0	5.2	8.5	7.0	5.3	3.1	2.6	2.4	2.4	2.7	2.0	2.0	1.6	2.5	1.9	1.7	2.1	2.2	5.4	15.9
3	2.0	S	1.9	1.6	1.9	2.3	7.7	11.9	6.7	5.1	3.3	11.7	10.7	2.8	1.7	1.8	2.3	1.3	1.9	1.9	2.8	8.6	20.4	4.8	5.1	20.4
4	4.9	S	3.8	5.8	2.8	5.1	15.1	12.3	16.8	16.2	20.9	3.6	2.8	2.1	8.0	3.1	2.5	2.5	2.4	2.7	2.3	2.8	2.7	3.5	6.3	20.9
5	2.8	S	2.8	1.8	2.6	2.8	3.6	1.8	4.8	14.0	12.9	6.0	15.0	11.2	3.6	2.4	2.1	2.0	3.1	2.3	2.7	2.1	2.2	2.0	4.6	15.0
6	1.5	S	1.8	1.8	2.2	2.0	1.2	2.0	2.2	C	C	C	C	C	C	1.2	1.1	1.4	1.4	0.9	1.0	1.2	1.0	0.9	-	-
7	0.7	S	0.6	1.2	2.2	3.6	2.9	3.1	3.6	6.6	3.1	1.0	0.9	0.8	1.1	1.2	0.7	1.0	1.4	1.2	0.9	0.7	1.5	3.7	1.9	6.6
8	6.9	S	4.2	4.9	6.0	5.7	4.1	2.5	5.0	6.2	7.1	1.5	1.7	1.5	1.2	1.7	1.5	1.3	2.3	1.8	1.0	1.3	1.4	2.3	3.2	7.1
9	1.3	S	3.7	2.9	2.4	1.7	1.3	1.5	2.2	7.2	5.5	3.6	2.4	1.7	0.7	1.2	1.3	1.7	1.5	1.4	1.0	2.5	2.1	4.0	2.4	7.2
10	3.8	S	4.7	2.7	3.2	3.3	3.1	4.0	4.3	4.5	2.2	5.4	6.5	7.1	8.5	7.2	5.2	5.6	4.7	2.3	2.9	2.4	1.9	1.1	4.2	8.5
11	1.9	S	1.3	1.8	0.9	2.1	1.9	2.6	1.9	4.1	2.2	3.0	3.0	2.9	2.2	1.5	1.7	2.1	3.2	2.0	2.3	2.5	1.3	1.1	2.1	4.1
12	1.5	S	1.8	2.0	2.4	1.6	1.3	1.4	1.1	1.4	1.5	2.1	1.7	1.6	1.4	1.6	1.4	2.2	1.9	1.3	1.9	0.8	1.6	1.1	1.6	2.4
13	1.4	S	1.5	1.7	1.5	1.1	1.2	1.7	1.9	3.0	8.4	5.5	1.6	1.5	1.5	1.4	1.5	2.2	1.5	1.4	2.4	2.8	6.8	2.2	2.4	8.4
14	1.8	S	2.9	1.9	2.2	1.6	3.7	3.0	2.7	1.9	3.0	2.2	2.1	2.0	12.6	2.9	1.7	1.8	1.5	1.5	1.4	1.4	1.2	0.9	2.5	12.6
15	1.7	S	0.9	1.3	1.3	1.6	0.8	1.9	1.7	4.3	5.6	2.1	6.3	11.9	9.8	5.2	1.9	2.0	1.3	1.0	1.5	1.2	1.0	0.9	2.9	11.9
16	1.6	S	13.3	7.8	10.9	9.0	2.1	4.0	8.6	12.0	5.3	6.1	7.7	9.4	4.2	1.9	1.1	0.9	1.1	1.0	4.0	4.1	2.3	1.4	5.2	13.3
17	2.2	S	7.8	6.2	4.5	6.8	7.8	5.3	9.6	6.0	6.8	14.1	7.7	10.2	8.3	3.2	1.4	1.4	1.7	8.4	9.2	5.5	7.7	8.6	6.5	14.1
18	5.6	S	2.0	3.6	3.9	3.5	6.3	11.2	14.4	14.5	15.5	17.1	9.8	2.9	6.1	2.3	1.4	1.3	1.5	1.4	2.9	6.4	3.9	6.9	6.3	17.1
19	7.8	S	4.0	1.9	5.2	3.5	4.1	4.1	3.4	7.4	4.2	2.4	2.4	1.2	1.1	0.9	2.0	1.0	1.2	0.9	1.1	1.0	2.2	3.6	2.9	7.8
20	3.1	S	3.4	2.5	1.2	2.0	2.1	2.4	2.3	2.5	2.2	2.2	2.3	2.1	2.4	2.6	2.2	1.6	1.3	1.3	2.1	2.2	1.9	1.9	2.2	3.4
21	1.2	S	2.0	1.5	1.6	2.1	2.0	1.6	2.0	1.9	2.0	2.2	2.0	2.3	2.3	1.9	2.3	1.9	1.4	2.0	1.7	2.1	2.2	1.8	1.9	2.3
22	1.6	S	2.1	1.7	1.8	1.9	1.6	2.3	3.1	3.1	2.5	1.6	1.9	2.2	1.9	1.1	1.9	1.6	2.2	1.3	1.5	1.8	2.0	2.0	1.9	3.1
23	1.6	S	1.9	1.9	1.5	1.9	1.2	1.6	1.0	1.5	2.1	1.5	1.9	1.5	1.4	0.7	0.9	1.5	1.4	1.6	1.8	1.7	1.7	2.5	1.6	2.5
24	2.5	S	1.4	1.2	1.4	2.2	1.6	1.9	2.1	1.5	2.6	2.2	2.1	1.5	2.0	2.3	2.4	1.9	1.6	1.4	2.2	2.1	2.4	2.1	1.9	2.6
25	2.1	S	2.2	2.1	2.9	1.9	1.8	2.3	2.2	1.8	1.6	2.0	1.0	1.2	4.6	3.6	7.8	2.0	1.4	0.9	1.9	1.7	1.5	1.8	2.3	7.8
26	1.3	S	1.6	1.7	2.1	2.8	3.2	3.1	4.8	1.6	1.9	2.2	2.5	1.9	2.6	3.0	2.5	4.8	2.2	1.9	3.3	6.1	12.2	4.3	3.2	12.2
27	1.6	S	1.7	1.3	2.4	1.7	1.8	1.8	4.6	4.3	3.7	2.0	1.1	1.6	2.1	1.7	3.5	2.8	3.0	1.6	1.8	1.6	2.2	1.3	2.2	4.6
28	4.5	S	2.2	1.7	0.9	2.1	1.5	1.9	2.3	2.4	2.1	1.6	2.3	2.3	1.7	1.5	1.5	1.1	1.6	1.5	2.1	1.8	1.5	1.2	1.9	4.5
29	1.3	S	1.1	1.1	0.9	1.5	1.5	1.4	2.0	1.5	1.4	1.2	1.7	1.1	1.4	1.1	1.3	1.6	1.6	1.7	1.4	1.4	1.8	1.9	1.4	2.0
30	1.5	S	2.1	2.2	1.5	1.2	0.9	1.1	1.4	1.8	1.9	2.1	1.4	3.1	3.2	2.3	2.2	2.2	1.8	1.7	2.5	2.1	2.3	2.3	1.9	3.2
31	2.0	S	2.5	1.7	1.6	1.7	1.3	1.9	1.8	1.9	2.1	1.3	1.5	1.9	1.6	1.6	1.6	1.4	1.8	2.2	1.7	1.9	2.2	2.1	1.8	2.5
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	2.6	-	3.1	2.7	3.0	3.1	3.5	3.6	4.6	5.6	5.0	3.9	3.7	3.3	3.7	2.3	2.1	2.0	1.9	1.9	2.2	2.5	3.2	2.5		
MAX	7.8	-	13.3	10.8	15.9	12.3	15.1	12.3	16.8	20.0	20.9	17.1	15.0	11.9	12.6	7.2	7.8	5.6	4.7	8.4	9.2	8.6	20.4	8.6		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	707
Maximum 1-HR Average	20.9 PPB
Maximum 24-HR Average	6.5 PPB
Monthly Calibration	6
Standard Deviation	2.993
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	3.1 PPB

Lagoon PM_{2.5} (µg/m³) – October 2022

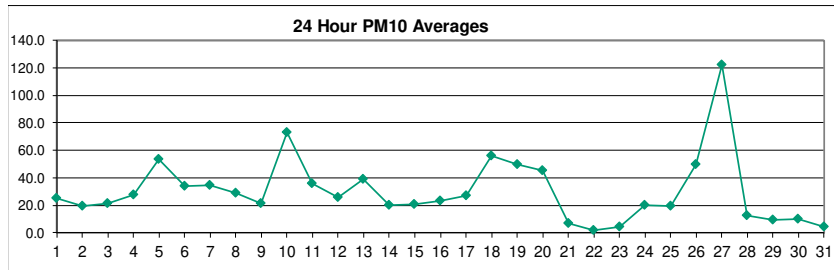
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	13.0	13.3	12.2	10.9	11.8	9.8	9.8	10.1	9.9	13.4	14.3	10.5	9.7	9.0	8.2	5.7	2.5	1.6	3.0	5.1	5.8	13.6	9.9	12.6	9.4	14.3
2	10.8	8.4	10.0	6.4	4.4	11.1	9.3	7.8	10.9	10.7	8.0	7.9	6.0	3.8	6.2	4.6	2.2	2.5	0.0	2.7	5.5	5.1	5.2	7.6	6.5	11.1
3	7.3	7.7	9.3	6.9	7.8	11.4	6.9	7.4	9.7	8.0	9.0	7.7	9.3	6.5	5.7	2.1	0.0	3.4	6.5	5.8	4.4	3.8	6.8	10.3	6.8	11.4
4	6.9	4.7	2.9	1.8	7.9	6.2	13.2	9.6	12.5	8.8	10.6	12.7	6.8	4.1	5.7	3.9	1.3	4.6	3.2	0.6	5.7	10.9	10.7	6.8	6.7	13.2
5	4.7	11.2	10.1	9.7	8.4	9.2	11.8	9.9	13.2	8.8	11.5	10.1	8.7	8.5	11.3	14.0	12.6	12.4	15.8	13.3	10.8	9.0	8.0	8.0	10.5	15.8
6	7.6	8.0	7.9	6.7	9.4	9.1	8.8	10.3	13.2	16.6	C	C	C	C	C	15.5	14.1	11.6	11.2	11.2	13.7	11.4	11.4	14.1	11.1	16.6
7	13.7	X	12.8	15.5	13.8	14.4	12.8	16.9	15.1	14.0	11.3	14.2	9.7	8.8	10.0	6.6	6.5	5.4	4.9	8.2	12.2	9.5	10.1	9.8	11.1	16.9
8	10.5	18.1	10.5	10.7	13.9	10.4	9.0	12.2	10.5	11.6	11.1	8.7	9.6	6.9	5.8	5.8	4.5	4.5	6.7	10.2	12.1	16.3	16.8	13.1	10.4	18.1
9	14.0	11.1	9.6	14.3	11.0	6.0	10.4	7.9	5.6	9.0	7.0	8.5	13.1	8.2	6.2	6.7	9.0	7.2	5.3	6.9	6.2	7.7	9.0	8.4	8.7	14.3
10	9.3	6.8	4.3	3.3	2.7	4.1	6.6	7.8	10.1	8.7	8.2	5.8	30.0	25.3	10.7	9.0	8.7	8.3	7.2	6.9	5.0	2.2	1.8	0.4	8.1	30.0
11	0.0	1.1	0.4	0.0	2.3	4.0	2.9	1.3	3.9	7.9	6.0	2.6	1.8	0.4	0.3	5.7	3.6	1.2	2.0	4.4	4.9	8.8	9.7	7.5	3.4	9.7
12	6.9	7.6	7.4	9.8	9.0	7.5	4.8	6.0	8.6	6.5	5.8	5.4	4.6	4.0	3.2	2.0	5.0	3.2	0.5	2.7	4.1	5.1	4.8	6.1	5.4	9.8
13	4.8	6.2	6.1	4.7	2.9	1.8	0.0	0.5	1.1	0.8	1.6	4.9	6.7	2.5	1.5	1.1	0.0	0.2	4.0	2.9	2.6	2.5	1.5	1.1	2.6	6.7
14	0.2	2.5	1.1	0.1	1.6	2.9	1.2	0.0	1.2	2.9	2.6	2.2	1.7	5.5	5.2	6.8	3.5	0.8	1.8	0.0	0.2	3.7	3.9	1.4	2.2	6.8
15	0.0	3.7	5.1	4.1	4.3	2.8	0.3	4.6	4.9	6.9	6.4	4.0	4.1	6.2	5.7	2.9	2.8	3.2	0.9	2.7	4.5	7.0	7.9	5.2	4.2	7.9
16	7.7	10.4	7.3	7.6	6.9	7.0	8.9	5.0	1.6	4.0	4.0	2.6	3.6	2.5	1.3	4.5	7.5	2.7	0.0	0.0	2.9	2.6	2.0	5.1	4.5	10.4
17	5.0	3.0	3.5	3.4	4.8	4.7	4.3	3.0	4.1	7.9	5.4	3.8	7.6	6.8	5.4	2.9	1.1	0.0	0.0	0.8	0.8	1.6	4.0	4.1	3.7	7.9
18	5.2	7.9	6.1	3.4	3.3	3.7	5.2	8.4	10.9	11.2	11.9	10.6	13.2	17.5	5.1	12.4	7.9	5.5	5.9	8.4	9.0	8.7	9.8	10.2	8.4	17.5
19	10.9	13.0	12.9	9.7	16.8	20.0	16.2	23.8	23.2	26.5	23.6	19.1	18.2	21.2	19.4	18.9	15.0	19.1	12.2	17.7	18.2	14.7	13.0	21.3	17.7	26.5
20	21.6	21.3	22.9	18.4	19.1	18.2	13.2	17.9	21.8	10.0	7.9	5.1	4.8	5.7	2.8	0.0	0.6	3.3	2.4	0.0	0.0	4.7	4.0	3.9	9.6	22.9
21	3.4	5.1	4.1	5.3	8.5	4.3	3.0	5.1	4.0	3.0	4.7	4.0	2.7	4.0	2.9	2.7	4.3	3.3	3.4	5.2	3.3	3.3	2.5	0.7	3.9	8.5
22	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	4.4	4.4	3.6	2.6	2.3	2.6	2.7	4.3	2.9	0.8	1.5	1.9	1.6	1.5	4.4
23	3.0	4.6	2.9	1.5	0.0	0.0	1.5	2.0	1.2	2.0	4.0	2.5	1.2	1.6	2.6	3.0	3.7	4.0	3.0	4.1	5.3	5.8	5.4	3.6	2.9	5.8
24	2.7	5.4	5.4	3.5	0.0	0.0	4.4	4.0	5.2	6.9	7.1	4.1	4.7	4.3	2.5	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.5	7.1
25	0.0	0.0	0.5	1.1	0.9	2.9	2.2	0.5	1.6	3.3	3.0	4.7	3.5	2.2	2.0	4.0	4.0	3.4	1.8	0.1	0.4	0.1	0.1	1.4	1.8	4.7
26	1.1	0.0	0.0	2.2	3.0	4.4	3.6	2.8	7.3	6.8	3.3	3.3	2.0	5.4	4.7	2.9	3.7	4.7	4.0	1.1	0.4	0.0	6.8	11.7	3.5	11.7
27	6.8	5.4	3.9	1.1	0.0	1.9	2.5	0.5	1.8	8.3	23.6	11.4	6.3	1.2	1.9	1.9	3.3	4.0	2.1	0.0	0.0	0.0	0.0	1.1	3.7	23.6
28	0.8	2.0	4.0	3.6	2.9	1.8	0.0	0.3	4.0	3.9	2.0	4.0	2.5	0.1	0.2	1.8	0.0	0.2	3.6	1.1	0.0	1.9	2.9	2.8	1.9	4.0
29	1.5	1.2	1.6	2.9	2.2	0.8	0.4	0.5	2.3	3.6	1.1	0.1	0.4	0.1	1.6	1.8	0.8	1.5	0.7	0.0	0.8	0.3	0.0	0.0	1.1	3.6
30	0.0	0.0	0.0	0.0	0.0	0.8	2.1	0.0	0.0	0.1	0.7	0.0	0.9	2.2	2.7	4.0	4.4	4.0	4.0	2.8	2.1	0.1	0.1	1.5	1.4	4.4
31	0.0	0.0	0.0	1.5	0.1	0.0	0.2	2.2	1.2	1.5	1.1	0.0	0.0	1.2	2.6	3.6	2.1	0.1	0.8	1.8	0.0	0.0	1.6	3.3	1.0	3.6
NO.	31	30	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	738	99.9%
MEAN	5.8	6.3	6.0	5.5	5.8	5.9	5.7	6.1	7.1	7.5	7.2	6.2	6.6	6.0	4.9	5.1	4.4	4.1	3.9	4.2	4.6	5.2	5.5	6.0		
MAX	21.6	21.3	22.9	18.4	19.1	20.0	16.2	23.8	23.2	26.5	23.6	19.1	30.0	25.3	19.4	18.9	15.0	19.1	15.8	17.7	18.2	16.3	16.8	21.3		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	676
Maximum 1-HR Average	30.0 UG/M3
Maximum 24-HR Average	17.7 UG/M3
Monthly Calibration	5
Standard Deviation	5.04
Operational Time	743 HRS
Operational Uptime	99.9 %
Monthly Average	5.6 UG/M3

Lagoon PM₁₀ (µg/m³) – October 2022

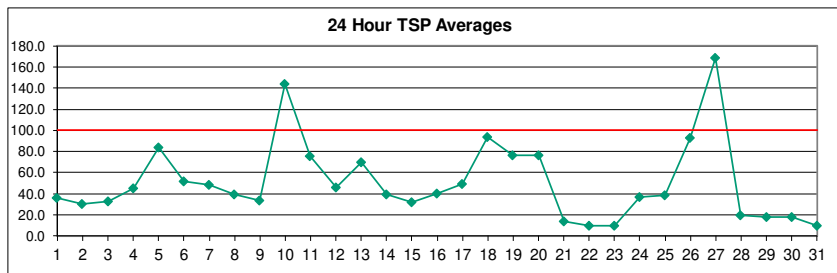
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	27.6	25.7	21.3	29.1	28.2	23.9	15.7	20.0	28.9	25.5	51.8	44.7	44.8	33.2	19.7	29.6	11.2	9.1	18.5	9.4	8.4	14.4	17.0	47.1	25.2	51.8
2	27.6	25.8	44.4	22.4	24.7	17.0	19.6	26.7	35.2	35.8	34.8	26.7	17.3	13.1	20.7	16.2	4.8	7.2	3.5	0.9	6.9	11.6	16.0	12.2	19.6	44.4
3	12.5	5.4	22.2	20.0	29.4	22.5	18.7	28.3	41.9	25.6	24.4	27.1	44.6	27.8	28.3	11.2	21.9	13.0	2.0	3.6	25.9	16.8	17.8	22.4	21.4	44.6
4	38.5	8.0	22.2	4.1	6.3	13.9	54.1	38.5	53.2	46.9	51.7	55.4	23.9	28.5	14.9	15.8	7.2	4.6	3.6	11.9	36.2	48.1	37.6	33.3	27.4	55.4
5	39.5	64.9	62.1	41.4	43.0	38.2	47.0	54.4	74.4	59.1	107.1	49.7	56.8	54.6	51.4	48.6	62.2	60.1	43.4	47.9	61.2	53.4	36.0	24.3	53.4	107.1
6	24.5	28.9	25.2	30.2	24.2	22.3	23.4	33.8	63.5	75.1	C	C	C	C	C	34.1	53.2	35.1	35.7	33.7	22.9	22.7	20.4	31.1	33.7	75.1
7	33.1	X	45.9	45.2	26.0	34.8	42.8	49.5	80.9	56.8	56.1	39.1	21.7	25.7	27.1	34.5	20.8	16.9	17.7	21.0	23.8	28.3	26.9	24.9	34.8	80.9
8	37.9	38.5	23.1	25.8	28.1	21.2	28.6	32.7	26.3	57.1	63.0	48.1	32.5	32.8	26.5	14.8	14.0	12.3	15.9	19.7	23.9	22.5	26.7	20.3	28.8	63.0
9	37.7	33.4	25.2	29.8	14.5	7.1	18.2	32.1	25.2	30.0	21.8	24.4	26.7	19.0	36.4	17.9	11.2	8.9	13.3	10.6	19.4	17.0	19.8	11.6	21.3	37.7
10	29.9	21.0	21.5	20.7	14.7	10.2	14.3	52.9	159.8	50.6	16.6	46.3	479.8	382.0	118.0	47.5	66.5	71.2	72.2	28.0	19.1	7.3	3.7	0.0	73.1	479.8
11	1.4	3.8	0.0	0.9	5.3	9.5	9.9	8.0	36.6	23.4	17.3	27.7	86.1	58.0	57.2	109.1	69.5	34.5	35.7	46.4	14.8	75.1	85.2	38.0	35.5	109.1
12	39.1	33.9	22.5	43.0	32.4	37.6	29.3	21.5	33.1	26.3	24.8	21.8	25.3	18.1	16.6	11.5	15.1	21.8	26.0	19.8	26.2	22.5	26.8	20.7	25.7	43.0
13	16.6	55.6	26.9	8.8	10.6	7.7	14.1	12.1	26.0	44.9	99.6	148.0	138.3	34.6	52.1	20.3	6.1	22.5	43.7	51.7	43.0	21.2	12.3	14.0	38.8	148.0
14	10.0	8.0	7.9	4.4	2.1	6.1	6.8	9.2	22.9	64.9	17.4	29.9	18.2	49.4	50.1	50.5	29.9	19.0	5.5	7.2	18.3	19.0	12.5	10.0	20.0	64.9
15	7.4	23.1	10.5	19.1	7.9	16.7	11.2	20.8	20.1	48.4	45.7	37.1	21.5	34.4	31.4	22.4	9.3	7.9	7.4	38.7	11.6	14.1	16.1	13.9	20.7	48.4
16	6.4	28.6	19.3	27.5	37.7	33.5	11.2	6.2	9.5	25.7	40.9	30.7	21.9	28.8	40.8	91.0	33.5	9.0	8.7	9.2	13.8	7.0	13.9	9.4	23.5	91.0
17	10.2	11.0	18.3	36.2	29.9	20.1	17.7	20.7	31.4	52.1	32.3	46.9	81.8	36.5	82.0	35.2	20.2	3.6	10.1	7.4	7.5	10.9	12.4	19.5	27.2	82.0
18	33.1	16.1	12.9	14.6	8.8	14.1	75.0	58.8	115.9	118.8	127.4	173.6	117.9	147.7	45.1	51.2	15.3	11.2	36.4	49.7	27.6	25.1	28.1	20.2	56.0	173.6
19	20.3	19.9	24.6	14.3	32.5	20.3	38.8	60.5	67.1	69.7	69.8	55.3	36.8	75.8	64.6	56.8	41.9	56.6	32.6	35.4	24.1	36.8	64.1	177.1	49.8	177.1
20	95.9	134.1	118.4	55.6	43.9	42.9	36.4	69.3	135.6	47.0	52.8	22.2	20.9	34.5	19.0	20.8	31.3	19.9	9.3	5.4	8.2	11.4	25.2	25.9	45.2	135.6
21	15.3	10.1	10.8	11.9	21.6	6.0	5.2	2.6	3.4	4.6	2.6	2.9	6.8	10.2	12.7	11.2	5.8	0.5	0.0	2.6	2.0	4.0	3.9	2.5	6.6	21.6
22	0.0	0.0	0.0	0.0	0.0	4.7	3.2	1.9	1.2	0.0	0.7	0.8	4.5	2.0	3.3	2.7	2.8	4.6	3.2	1.3	0.7	1.2	0.0	0.0	1.6	4.7
23	0.0	2.5	8.0	5.3	2.4	4.7	2.7	2.5	0.0	7.4	6.6	3.2	1.3	1.4	3.1	0.2	7.3	5.4	3.5	7.5	10.7	8.0	5.4	4.3	4.3	10.7
24	4.7	19.1	21.1	10.8	11.3	24.9	39.6	33.9	48.6	50.8	50.9	38.3	47.2	27.9	17.4	0.0	0.0	5.3	4.6	3.6	0.7	2.8	6.1	8.6	19.9	50.9
25	4.3	4.3	10.0	7.6	11.4	8.0	7.3	20.9	18.9	16.3	5.4	68.4	38.1	43.8	25.6	62.7	55.5	37.6	13.5	0.0	0.0	2.1	5.3	3.9	19.6	68.4
26	3.3	2.3	3.4	5.2	17.7	21.0	22.6	43.9	57.5	39.8	51.8	12.8	19.1	134.5	66.7	60.8	88.0	58.3	74.3	4.6	3.3	23.4	149.2	228.4	49.7	228.4
27	107.1	471.7	188.8	27.6	18.3	250.1	107.7	30.1	26.9	119.8	473.8	243.4	231.6	131.5	345.5	60.0	23.0	21.5	17.8	23.6	6.6	3.1	0.0	0.0	122.1	473.8
28	0.0	27.2	16.3	4.0	3.3	0.7	1.3	0.9	5.9	3.7	5.7	14.2	0.0	8.7	8.5	34.1	10.8	43.4	30.8	8.5	18.1	29.8	14.1	12.7	12.6	43.4
29	12.9	15.9	9.7	16.0	22.2	19.3	12.1	11.6	14.8	30.0	3.2	0.0	0.2	4.6	3.3	1.4	3.7	2.0	3.8	3.2	1.3	18.3	4.9	11.3	9.4	30.0
30	8.0	7.2	16.1	26.6	0.9	7.2	3.9	0.5	0.0	0.0	11.4	11.4	10.4	17.4	30.0	18.1	14.5	7.3	6.1	8.7	7.4	9.2	4.7	6.0	9.7	30.0
31	5.3	3.3	4.0	4.1	0.0	8.5	3.9	3.4	6.5	5.9	3.2	0.8	4.7	5.3	4.9	10.0	8.5	4.5	0.0	0.0	1.4	1.9	0.8	5.9	4.0	10.0
NO.	31	30	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	738	99.9%
MEAN	22.9	38.3	27.8	19.7	18.0	25.0	24.0	26.1	41.0	40.7	52.4	45.0	56.0	50.7	44.1	32.3	24.7	20.5	19.3	16.8	16.0	19.0	23.0	27.7		
MAX	107.1	471.7	188.8	55.6	43.9	250.1	107.7	69.3	159.8	119.8	473.8	243.4	479.8	382.0	345.5	109.1	88.0	71.2	74.3	51.7	61.2	75.1	149.2	228.4		



Number of Non-Zero Readings	712
Maximum 1-HR Average	479.8 UG/M3
Maximum 24-HR Average	122.1 UG/M3
Monthly Calibration	5
Standard Deviation	45.84
Operational Time	743 HRS
Operational Uptime	99.9 %
Monthly Average	30.3 UG/M3

Lagoon TSP (µg/m³) – October 2022

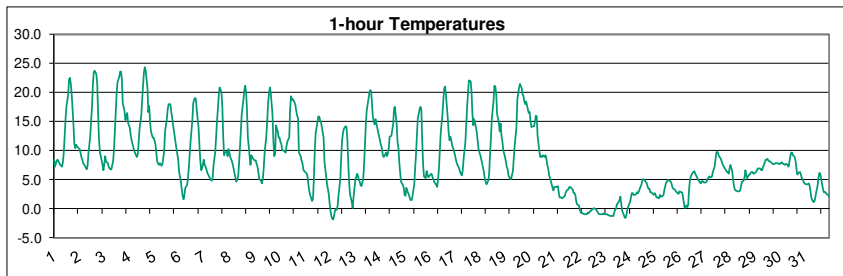
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	34.6	30.6	31.0	39.9	29.5	29.1	21.2	27.8	26.9	37.9	77.1	66.6	68.3	44.7	20.5	40.7	19.4	15.6	21.1	25.0	22.6	27.6	24.9	81.3	36.0	81.3
2	41.1	29.2	58.7	37.6	38.6	31.8	26.8	34.1	50.0	50.8	38.7	34.4	27.2	14.9	33.9	19.6	21.0	21.8	11.7	22.2	19.6	21.0	23.5	19.5	30.3	58.7
3	18.7	29.2	27.6	21.4	32.0	31.6	22.7	33.1	57.3	36.2	37.5	39.1	72.0	36.7	47.4	21.4	32.2	33.6	9.1	23.2	36.0	33.3	30.5	29.3	33.0	72.0
4	59.1	16.2	23.3	15.1	8.6	14.4	83.1	54.3	88.2	77.6	78.2	90.3	34.0	45.9	17.1	23.2	12.5	8.7	13.3	25.1	57.5	101.1	70.2	59.9	44.9	101.1
5	66.8	102.1	95.3	58.2	58.0	53.7	76.5	84.6	115.5	88.8	170.5	86.1	91.4	90.6	73.4	73.6	107.8	102.3	69.7	80.5	112.8	66.3	59.9	34.2	84.1	170.5
6	31.3	46.1	52.4	38.6	31.0	39.3	48.6	50.5	93.9	117.7	C	C	C	C	C	48.8	94.1	65.1	51.3	44.4	38.8	23.7	25.2	41.7	51.7	117.7
7	51.4	X	60.7	57.0	28.3	38.4	57.8	80.4	111.3	91.2	84.8	59.6	28.0	30.8	35.3	47.7	28.9	22.6	29.2	29.6	38.9	38.6	30.6	31.4	48.4	111.3
8	49.1	60.0	37.3	32.2	35.7	25.1	26.8	34.6	30.2	85.3	101.2	69.7	47.2	47.6	26.2	19.4	16.7	14.6	28.4	41.3	33.4	33.0	23.8	26.7	39.4	101.2
9	62.3	58.9	41.8	47.6	24.9	19.9	27.2	43.7	28.6	44.0	33.3	32.7	49.2	32.7	47.1	13.7	6.4	20.3	18.5	26.8	34.5	29.4	32.8	20.4	33.2	62.3
10	40.3	52.1	38.4	26.3	23.5	18.9	37.1	99.7	302.3	96.9	39.7	98.2	994.7	739.5	234.5	96.8	126.5	139.8	137.1	46.7	35.0	8.6	11.2	9.8	143.9	994.7
11	6.9	2.9	0.5	7.5	15.5	18.2	18.4	23.4	46.5	31.9	31.1	47.9	186.7	121.7	115.2	275.6	188.2	95.4	63.7	91.9	44.3	136.8	158.4	77.5	75.3	275.6
12	74.9	75.1	49.9	77.0	48.2	69.2	34.6	28.6	45.6	40.4	42.7	36.3	39.1	44.3	42.2	23.8	26.7	34.2	53.1	29.4	32.3	40.4	72.2	42.6	45.9	77.0
13	32.8	67.9	35.4	18.2	16.7	15.7	22.4	26.1	51.6	93.3	199.6	268.2	228.5	48.3	72.7	24.7	14.8	34.2	85.6	110.5	102.1	49.3	34.5	27.3	70.0	268.2
14	15.7	11.5	18.2	19.5	18.1	17.0	22.3	19.1	43.2	135.4	36.6	46.5	34.3	85.9	85.5	83.6	63.0	44.2	7.6	18.8	33.9	43.6	19.3	14.3	39.0	135.4
15	19.7	23.9	27.5	17.9	12.0	27.4	17.0	21.1	25.4	62.3	60.0	67.3	22.1	48.1	50.6	32.7	17.1	25.3	32.5	73.2	19.8	25.2	27.5	19.4	32.3	73.2
16	18.1	47.8	30.0	47.4	52.6	48.8	21.7	9.1	23.9	30.7	63.4	53.8	46.0	52.1	72.7	148.5	60.2	11.7	22.4	23.7	23.8	24.8	18.0	14.0	40.2	148.5
17	13.2	25.6	38.3	55.2	48.1	37.5	36.3	40.8	54.4	91.4	60.9	92.0	133.8	62.9	135.5	66.4	30.9	17.0	22.3	22.4	18.3	22.3	21.4	34.3	49.2	135.5
18	55.9	33.1	27.8	25.9	12.8	19.8	119.4	98.1	188.8	202.1	206.6	276.4	180.5	248.7	85.2	99.5	31.3	26.3	54.8	71.3	52.4	45.1	58.3	28.1	93.7	276.4
19	33.6	38.6	32.4	41.7	41.3	37.2	64.5	111.4	113.6	112.6	91.3	86.3	66.0	116.5	95.4	92.4	49.5	40.5	45.7	42.6	32.9	54.3	98.6	289.6	76.2	289.6
20	145.8	189.0	203.9	89.1	67.8	64.5	52.0	103.2	180.0	90.1	121.5	49.6	41.5	68.3	45.9	48.1	68.0	38.1	19.4	17.1	24.9	20.1	34.1	50.6	76.4	203.9
21	31.8	26.4	25.3	29.5	33.8	8.4	5.6	2.0	11.3	12.2	7.2	9.5	10.1	15.8	23.5	17.8	9.4	6.0	12.6	9.8	5.6	3.0	4.5	8.4	13.7	33.8
22	5.1	16.2	3.0	4.4	5.7	5.7	5.6	1.5	0.2	0.7	12.5	8.5	9.4	29.0	19.8	26.8	33.3	16.5	8.4	7.0	4.4	4.5	7.2	6.0	10.1	33.3
23	11.3	11.3	12.5	9.7	5.7	5.6	3.3	11.2	8.6	9.8	8.5	8.3	4.2	1.6	1.6	3.4	13.0	20.5	10.0	12.7	12.5	10.0	12.8	15.3	9.3	20.5
24	13.3	32.5	43.3	17.0	21.9	44.3	72.5	52.7	84.8	90.3	88.6	56.9	88.5	54.3	25.9	12.5	8.8	16.4	8.4	5.7	4.9	17.9	10.1	15.3	37.0	90.3
25	12.9	17.7	6.3	18.3	20.6	12.9	18.8	33.4	33.2	27.4	21.6	129.0	71.2	80.4	52.8	116.9	97.6	79.7	30.9	5.6	3.3	9.8	8.4	6.8	38.1	129.0
26	3.5	14.1	15.3	13.5	33.9	31.4	49.8	78.1	89.0	65.1	90.2	30.8	44.9	245.9	138.4	108.0	171.5	106.4	127.9	11.4	14.9	44.8	284.1	417.5	92.9	417.5
27	199.3	411.0	158.3	43.9	41.8	292.5	146.1	66.9	49.5	226.1	800.6	344.0	272.4	216.8	392.8	165.7	60.6	50.6	33.7	39.3	15.1	7.1	6.9	2.9	168.5	800.6
28	3.5	48.1	35.1	11.1	6.9	1.7	4.4	4.9	12.5	8.6	11.5	16.3	6.1	15.2	12.7	44.3	12.2	65.8	45.4	5.2	25.5	34.4	24.5	9.8	19.4	65.8
29	9.4	28.8	11.4	14.8	32.5	42.4	26.5	25.9	14.8	62.7	5.6	3.0	4.5	6.9	2.9	3.2	8.5	8.5	8.5	10.1	16.2	34.1	18.3	21.6	17.5	62.7
30	6.0	13.1	21.7	48.1	4.8	14.9	3.0	4.3	4.3	4.9	18.6	28.9	20.5	21.5	65.0	30.3	23.6	20.8	18.1	15.5	15.2	7.0	4.5	7.3	17.6	65.0
31	11.1	7.0	5.2	17.8	8.3	4.5	6.9	6.1	15.2	8.2	0.1	0.0	4.6	10.1	14.9	34.5	28.4	8.4	7.0	5.7	5.9	9.4	6.8	2.5	9.5	34.5
NO	31	30	31	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	738	99.9%
MEAN	38.0	52.2	40.9	32.3	27.7	36.2	38.0	42.3	64.5	68.8	88.0	74.5	97.6	89.2	69.5	60.1	47.8	39.1	35.7	32.1	30.2	33.1	40.7	47.3		
MAX	199.3	411.0	203.9	89.1	67.8	292.5	146.1	111.4	302.3	226.1	800.6	344.0	994.7	739.5	392.8	275.6	188.2	139.8	137.1	110.5	112.8	136.8	284.1	417.5		



Number of 24HR Exceedences	2
Number of Non-Zero Readings	737
Maximum 1-HR Average	994.7 UG/M3
Maximum 24-HR Average	168.5 UG/M3
Monthly Calibration	5
Standard Deviation	74.4
Operational Time	743 HRS
Operational Uptime	99.9 %
Monthly Average	50.9 UG/M3

Lagoon Temperature (°C) – October 2022

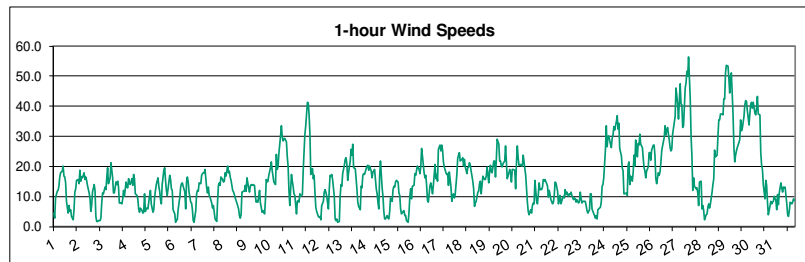
Day	HOURLY																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	8.5	7.2	8.3	8.5	8.2	7.8	7.6	7.2	8.0	9.7	12.5	15.3	17.5	19.6	22.3	22.5	21.4	19.7	14.5	11.2	10.3	11.0	10.7	10.5	12.5	22.5
2	10.3	9.6	8.9	8.4	7.9	7.4	7.0	6.7	7.4	9.4	12.3	14.9	17.4	21.1	23.5	23.7	23.1	21.4	16.3	12.0	9.8	8.3	7.5	6.7	12.5	23.7
3	7.7	9.1	8.2	7.8	7.3	6.9	6.8	6.8	8.1	10.1	13.3	16.6	19.7	21.7	22.7	23.5	23.6	22.2	18.1	16.8	15.3	15.9	16.5	14.8	14.1	23.6
4	13.9	12.7	11.8	11.1	10.5	10.0	9.2	8.8	9.3	11.3	13.8	16.0	18.7	21.2	23.5	24.3	23.8	20.9	16.6	17.7	15.0	13.3	12.3	12.2	14.9	24.3
5	11.7	11.2	9.9	8.2	7.6	7.9	7.7	7.3	7.8	10.0	13.4	14.4	15.4	17.1	18.0	18.0	16.8	15.6	14.6	13.4	11.2	10.3	9.3	8.3	11.9	18.0
6	6.4	4.7	3.3	2.3	1.6	2.3	3.7	4.0	5.3	7.1	9.5	11.7	15.2	18.1	18.7	19.0	18.8	16.9	14.1	11.0	8.2	6.7	6.9	8.4	9.3	19.0
7	7.5	7.3	6.7	6.1	5.8	5.3	4.9	4.8	5.3	7.3	9.8	12.3	15.1	17.3	19.4	20.9	20.1	17.7	12.5	9.2	9.7	9.8	9.1	10.2	10.6	20.9
8	9.6	8.9	8.2	7.5	6.8	6.0	5.3	4.7	5.5	7.6	10.4	13.1	16.1	18.8	20.3	21.2	20.1	17.1	12.3	9.0	7.5	9.2	8.9	8.6	10.9	21.2
9	8.3	8.3	7.7	7.2	6.2	5.1	4.9	4.3	5.2	7.0	9.5	12.5	15.1	18.2	19.7	20.8	20.0	16.2	11.8	9.0	9.5	14.4	13.3	12.3	11.1	20.8
10	12.2	11.4	11.2	10.0	9.9	9.9	9.6	10.9	11.7	12.2	17.0	19.3	18.8	18.9	18.3	17.9	16.7	16.1	15.5	9.6	9.1	8.2	7.8	6.8	12.9	19.3
11	6.5	6.2	6.0	5.3	3.9	2.9	2.2	1.4	1.7	5.3	10.0	13.0	14.7	15.9	15.8	15.3	14.9	14.0	12.2	8.2	6.8	5.4	4.2	2.4	8.1	15.9
12	0.7	-0.5	-1.5	-1.7	-1.9	-0.3	0.0	-0.2	0.6	2.4	5.0	8.8	11.7	12.9	13.7	14.2	14.0	12.0	8.0	4.6	2.5	1.1	0.1	2.0	4.5	14.2
13	3.5	4.8	6.0	5.8	5.0	4.7	4.1	4.0	5.1	7.6	11.0	14.6	16.8	18.9	20.0	20.4	20.3	18.0	15.7	14.5	15.4	14.6	14.0	13.1	11.6	20.4
14	11.8	11.0	10.5	9.6	8.9	9.1	9.6	9.1	9.5	10.5	12.3	12.6	13.6	14.5	17.3	17.5	14.6	11.5	10.4	7.8	6.1	4.6	4.1	3.7	10.4	17.5
15	2.4	2.2	3.5	2.6	2.4	1.8	1.4	1.5	2.3	4.2	7.0	9.5	12.6	15.6	17.0	17.5	17.1	11.8	7.5	5.5	5.2	6.4	5.9	5.5	7.0	17.5
16	5.6	6.0	5.9	5.3	5.0	4.6	4.3	3.8	5.1	7.0	10.0	13.0	16.4	18.8	20.7	21.0	19.5	15.6	13.2	11.8	12.3	11.8	10.9	10.0	10.7	21.0
17	9.3	8.6	8.0	7.6	6.9	6.4	6.0	5.8	6.7	8.6	11.5	14.4	17.6	20.0	22.0	21.9	20.1	16.4	14.3	15.5	14.8	13.2	11.7	10.3	12.4	22.0
18	9.7	9.2	7.8	7.1	6.3	5.3	4.6	4.3	4.8	6.1	9.4	12.1	15.5	18.6	21.2	21.0	19.8	16.3	14.9	13.2	14.7	12.6	11.6	10.1	11.5	21.2
19	8.8	8.1	7.2	6.8	5.6	5.1	5.1	5.8	6.5	8.7	10.9	14.0	18.7	19.7	20.8	21.5	20.7	19.6	19.3	18.4	18.0	18.4	17.1	16.5	13.4	21.5
20	16.6	15.0	14.0	14.1	14.1	15.0	16.0	15.8	12.6	9.9	8.9	9.1	8.9	9.2	8.9	9.2	8.5	7.5	7.0	5.8	4.8	4.2	3.5	3.1	10.1	16.6
21	3.8	3.8	3.8	4.0	2.8	2.0	1.9	1.8	2.0	2.1	2.3	2.8	3.3	3.3	3.7	3.8	3.6	3.3	2.7	2.7	2.3	1.1	0.8	0.5	2.7	4.0
22	-0.1	-0.6	-0.7	-0.8	-0.9	-0.9	-0.9	-0.9	-0.7	-0.7	-0.4	-0.4	0.0	0.0	0.1	0.0	-0.3	-0.4	-0.7	-0.9	-0.9	-1.0	-0.9	-0.8	-0.6	0.1
23	-0.9	-0.9	-1.0	-1.1	-1.1	-1.2	-1.3	-1.3	-1.3	-0.7	-0.2	0.0	0.8	1.2	1.6	2.1	0.8	-0.3	-1.1	-1.5	-1.5	-1.0	0.0	0.4	-0.4	2.1
24	1.2	1.9	2.7	2.7	2.4	2.4	2.5	2.9	2.7	2.9	3.5	4.2	5.0	5.2	5.0	4.8	4.4	3.8	3.4	3.4	2.9	2.9	2.6	2.4	3.2	5.2
25	2.7	2.3	2.0	1.9	1.8	2.4	2.0	2.0	2.5	3.3	4.0	4.5	4.6	5.0	4.8	4.6	4.3	3.8	3.4	3.2	3.0	2.9	2.7	2.6	3.2	5.0
26	3.0	2.9	2.9	2.1	1.2	0.2	0.5	0.2	0.8	3.3	4.9	5.6	6.2	6.3	6.4	6.1	5.7	5.1	4.8	4.7	4.4	4.6	4.7	4.5	3.8	6.4
27	4.6	4.6	4.7	5.1	5.5	5.4	5.4	5.6	6.3	7.3	8.5	9.7	9.7	9.5	9.1	8.6	8.2	7.7	7.5	7.1	6.6	6.3	6.4	6.0	6.9	9.7
28	6.9	7.5	6.4	5.0	3.8	3.3	3.1	3.0	3.0	2.9	3.2	4.0	4.7	4.8	5.4	6.6	5.8	5.3	5.9	5.9	6.1	6.3	6.3	6.1	5.1	7.5
29	6.2	6.3	6.6	6.9	7.0	6.9	6.7	6.7	7.3	7.6	8.4	8.5	8.6	8.2	8.2	8.1	7.9	7.7	7.7	7.8	7.9	7.8	7.8	7.7	7.5	8.6
30	7.8	7.8	8.0	7.6	7.6	7.5	7.7	7.6	7.2	8.1	9.1	9.6	9.6	9.2	8.9	8.2	6.8	5.9	6.2	6.3	5.9	5.3	5.1	4.7	7.4	9.6
31	4.3	4.2	4.2	4.1	4.3	3.9	1.7	1.4	1.2	1.1	1.6	2.5	4.1	5.4	6.1	6.0	5.1	3.5	2.9	2.9	2.9	2.6	2.4	2.1	3.4	6.1
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	6.8	6.5	6.2	5.7	5.2	5.0	4.8	4.7	5.1	6.4	8.5	10.3	12.0	13.4	14.3	14.5	13.8	12.0	10.0	8.6	7.9	7.7	7.2	6.8		
MAX	16.6	15.0	14.0	14.1	14.1	15.0	16.0	15.8	12.6	12.2	17.0	19.3	19.7	21.7	23.5	24.3	23.8	22.2	19.3	18.4	18.0	18.4	17.1	16.5		



Number of Non-Zero Readings	744
Maximum 1-HR Average	24.3 C
Maximum 24-HR Average	14.9 C
Monthly Calibration	0
Standard Deviation	5.966
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	8.5 C

Lagoon Wind Speed (km/hr) – October 2022

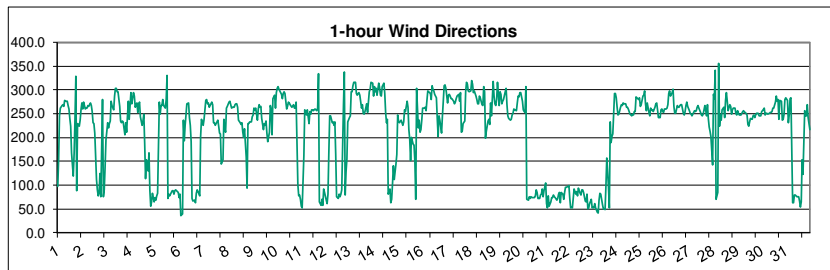
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	4.7	3.0	9.7	11.7	12.2	13.6	16.6	18.1	18.5	20.1	16.9	16.4	14.5	8.6	4.6	7.2	5.0	5.6	3.5	2.3	5.7	11.5	12.6	15.5	10.7	20.1
2	15.6	14.4	18.8	15.1	16.7	16.2	18.0	15.8	16.5	15.5	13.6	11.1	9.5	5.1	7.2	11.4	14.1	12.0	3.5	1.9	1.6	2.1	2.1	2.9	10.9	18.8
3	8.0	11.3	10.9	13.1	12.5	16.4	19.6	14.4	16.3	21.2	18.8	16.4	11.1	11.3	14.8	14.0	15.3	13.2	7.8	8.0	7.7	9.3	12.2	10.2	13.1	21.2
4	14.9	13.1	12.9	15.9	14.5	14.1	16.1	13.9	17.5	15.9	10.9	10.4	9.3	6.1	4.9	6.1	5.4	4.4	4.8	10.9	5.1	6.2	5.9	8.2	10.3	17.5
5	10.5	12.0	7.5	4.8	5.7	9.9	12.1	14.0	16.3	13.5	11.7	9.1	7.6	14.1	18.7	19.5	15.5	12.1	10.4	15.0	17.1	15.7	12.8	12.0	12.4	19.5
6	5.6	4.1	1.4	2.3	2.3	5.6	9.9	13.1	14.2	14.6	13.4	11.5	5.9	14.9	16.5	15.0	11.6	8.3	7.8	5.8	2.1	1.4	5.3	11.1	8.5	16.5
7	12.1	11.9	14.5	14.3	17.0	17.8	17.9	18.0	19.2	13.1	11.3	13.3	10.5	9.8	7.8	6.2	7.1	4.9	2.5	1.7	8.4	13.6	14.5	13.8	11.7	19.2
8	16.4	15.7	14.9	15.0	17.9	16.8	20.3	18.0	18.5	16.6	15.4	12.1	11.5	10.7	9.7	8.6	7.9	5.9	3.7	2.8	4.0	11.5	11.9	11.8	12.4	20.3
9	13.7	11.8	16.2	12.9	11.5	13.4	14.0	13.9	14.0	13.9	10.1	8.3	8.8	8.3	12.1	7.9	6.6	4.8	5.3	4.2	9.0	15.8	14.9	15.2	11.1	16.2
10	17.0	19.6	21.7	18.7	16.8	15.0	13.9	24.0	19.2	20.0	24.5	30.3	33.6	30.0	28.7	29.0	29.4	28.4	23.4	20.0	12.2	7.0	17.4	15.1	21.5	33.6
11	13.4	11.0	10.3	4.2	8.3	8.8	8.2	10.9	10.2	10.6	18.6	24.9	30.8	33.4	41.3	41.2	37.1	30.6	17.4	19.3	16.0	17.2	11.3	6.4	18.4	41.3
12	5.0	3.3	3.3	3.3	2.5	6.9	8.5	11.6	12.4	11.6	10.0	6.0	12.3	17.2	16.9	17.4	15.7	10.2	2.5	2.1	2.5	1.6	1.9	10.1	8.1	17.4
13	14.0	13.4	17.6	20.5	22.3	22.8	20.8	15.4	18.0	21.7	25.6	23.8	27.4	19.6	19.4	16.1	12.4	8.2	6.6	5.7	13.4	12.8	17.2	17.8	17.2	27.4
14	17.5	19.4	20.0	20.6	18.7	20.2	18.6	16.1	18.1	18.6	19.0	12.8	10.9	8.2	5.9	16.5	21.9	12.9	10.1	5.1	2.6	2.5	3.8	2.7	13.4	21.9
15	2.5	5.0	9.7	8.4	12.5	13.6	13.1	14.8	15.5	14.8	11.2	10.5	6.0	4.1	5.0	5.5	3.7	3.7	2.1	1.5	4.7	10.1	12.7	9.3	8.3	15.5
16	13.4	13.7	17.6	17.1	18.8	20.3	19.1	17.6	20.0	25.9	23.6	18.0	16.4	17.2	13.8	8.6	8.1	13.7	14.5	13.0	11.1	13.6	20.7	16.0	16.3	25.9
17	17.4	15.2	25.8	27.1	25.3	27.2	25.6	21.6	20.0	18.0	17.4	17.8	13.6	18.1	13.2	8.4	10.1	10.8	9.6	10.5	17.4	22.5	23.9	24.6	18.4	27.2
18	21.8	22.4	22.9	20.0	22.4	20.0	17.7	19.5	19.9	21.3	20.4	18.4	15.1	12.7	6.7	7.8	8.5	11.4	11.9	14.2	15.0	10.8	16.7	16.2	16.4	22.9
19	15.6	15.8	16.8	19.8	14.5	18.6	20.3	18.3	18.0	21.8	21.9	16.5	22.0	29.2	27.5	21.9	21.7	20.2	19.9	21.1	21.7	27.0	21.5	16.0	20.3	29.2
20	16.9	19.0	17.9	14.8	19.1	19.0	18.8	12.7	11.1	26.9	23.1	20.5	20.9	20.1	20.0	23.8	21.7	17.1	12.6	8.3	5.2	4.0	5.6	4.5	16.4	26.9
21	6.9	7.9	7.7	15.5	8.5	7.5	10.7	14.6	12.3	12.3	13.2	15.6	15.2	15.6	14.4	13.6	10.0	12.0	10.6	9.0	7.6	8.3	10.5	14.7	11.4	15.6
22	14.7	11.7	7.5	9.1	10.3	7.6	9.7	10.2	9.7	12.3	10.6	11.5	10.2	10.9	10.7	11.4	10.4	9.0	9.7	9.4	8.1	9.0	8.0	8.4	10.0	14.7
23	11.4	9.4	8.0	8.5	8.5	8.5	7.2	5.5	4.6	5.8	10.9	11.0	5.9	5.0	3.6	2.8	3.7	2.7	5.7	6.0	6.6	8.2	13.4	13.9	7.4	13.9
24	16.2	25.7	33.6	26.6	29.8	30.3	27.4	26.3	29.2	30.4	33.2	32.2	34.8	36.9	33.5	34.4	25.9	23.4	19.6	18.5	11.0	11.0	11.2	10.5	25.4	36.9
25	20.5	21.5	14.2	16.7	15.1	17.9	23.8	20.1	28.9	23.3	27.8	27.1	30.6	27.5	26.4	22.7	19.6	18.4	16.2	18.4	19.9	24.7	24.6	22.1	22.0	30.6
26	25.6	27.2	27.0	23.4	16.0	14.2	18.0	17.2	18.3	21.2	25.2	26.8	29.8	33.5	30.6	31.8	33.0	28.7	26.4	25.1	25.7	30.8	34.6	36.6	26.1	36.6
27	46.1	43.5	40.4	35.8	47.6	40.7	40.5	32.9	33.5	46.1	47.8	51.8	50.1	56.4	42.4	30.0	23.6	12.1	16.3	13.3	12.5	12.9	11.3	7.0	33.1	56.4
28	14.9	15.2	5.9	7.0	5.5	2.4	4.1	4.2	6.6	7.6	6.3	7.6	11.6	13.9	15.9	25.4	23.4	23.8	30.3	35.4	35.6	37.5	37.6	37.1	17.3	37.6
29	42.4	42.6	51.2	53.6	53.3	49.3	44.5	50.0	51.0	37.2	26.5	21.5	23.7	25.2	26.4	27.9	29.1	35.4	31.8	32.8	36.8	40.7	41.8	41.5	38.2	53.6
30	38.6	33.8	37.5	40.4	41.3	39.5	41.3	37.7	37.2	39.3	43.3	37.4	37.1	24.7	20.5	19.0	14.0	9.3	15.3	13.7	8.1	4.1	5.5	8.4	27.0	43.3
31	7.7	8.1	8.5	10.1	8.8	5.8	10.8	7.5	11.2	14.5	13.0	11.4	13.1	12.8	13.1	7.6	4.0	3.5	5.4	8.1	7.5	8.2	9.4	8.8	9.1	14.5
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	16.2	16.2	17.2	17.0	17.3	17.4	18.3	17.7	18.9	19.5	19.2	18.1	18.1	18.1	17.1	16.7	15.3	13.4	11.9	11.7	11.7	13.3	14.6	14.5		
MAX	46.1	43.5	51.2	53.6	53.3	49.3	44.5	50.0	51.0	46.1	47.8	51.8	50.1	56.4	42.4	41.2	37.1	35.4	31.8	35.4	36.8	40.7	41.8	41.5		



Number of Non-Zero Readings	744	
Maximum 1-HR Average	56.4 KM/HR	
Maximum 24-HR Average	38.2 KM/HR	
Monthly Calibration	0	Operational Time
Standard Deviation	10.09	Operational Uptime
		Monthly Average
		744 HRS
		100.0 %
		16.2 KM/HR

Lagoon Wind Direction (°) – October 2022

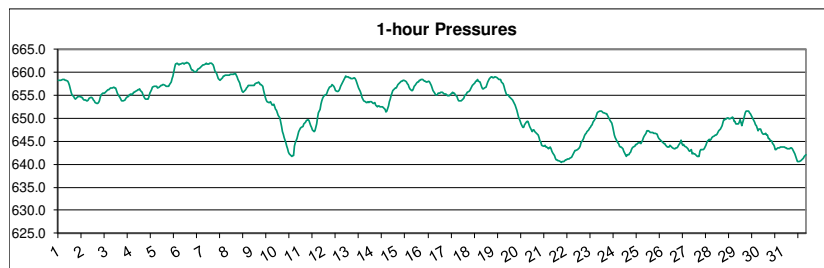
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	98.2	154.6	246.2	261.3	267.0	269.5	265.3	277.6	275.6	276.3	267.6	259.3	240.4	224.7	168.0	119.7	166.4	238.5	329.0	88.9	228.5	224.4	236.8	257.5	254.0	329.0
2	271.9	259.4	273.9	260.6	261.8	262.0	267.4	266.1	272.7	267.9	254.8	231.6	230.0	209.2	112.6	89.2	78.3	83.3	124.4	75.1	279.9	75.6	90.0	139.7	257.2	279.9
3	194.2	231.8	219.9	229.2	235.0	276.2	266.8	258.8	286.6	303.4	304.2	296.1	296.0	265.3	234.5	231.0	234.1	232.2	206.0	230.6	211.3	245.8	276.8	238.9	256.3	304.2
4	294.3	270.8	282.9	294.5	286.7	264.3	271.9	252.9	268.6	274.2	243.7	225.6	235.2	249.2	188.2	114.2	152.5	129.6	167.2	90.6	55.3	65.2	82.3	64.7	263.9	294.5
5	74.6	68.5	77.0	82.1	274.8	249.8	267.8	267.7	279.7	266.4	261.7	279.4	330.4	72.1	80.5	77.8	85.0	88.9	88.8	81.0	89.0	90.6	86.3	84.7	72.4	330.4
6	74.7	81.0	35.7	39.7	236.1	193.1	226.3	246.7	271.5	273.0	242.8	225.3	190.7	71.2	67.1	67.5	63.2	82.0	89.2	86.8	77.3	202.7	238.0	230.5	169.7	273.0
7	225.8	238.9	278.0	280.6	271.5	273.5	264.1	267.3	274.8	269.9	231.0	230.3	226.4	232.8	235.7	223.7	210.2	208.1	143.8	153.4	237.6	220.8	211.0	262.2	249.1	280.6
8	265.3	275.4	275.9	268.5	262.6	263.7	263.4	269.4	271.7	271.6	263.9	236.2	232.0	228.0	231.5	210.5	200.6	218.3	158.4	93.8	230.2	229.5	232.3	233.1	252.6	275.9
9	244.2	246.6	261.2	257.6	261.2	236.7	259.5	269.7	263.3	266.0	240.0	216.1	229.3	226.5	234.7	209.9	191.6	212.0	267.6	258.7	205.7	282.5	288.8	262.3	250.8	288.8
10	294.5	302.6	306.3	301.7	295.1	291.0	281.9	293.3	296.7	292.6	260.7	266.2	274.8	273.1	269.5	264.5	264.7	269.2	262.5	262.4	275.0	101.0	77.8	78.9	280.2	306.3
11	69.4	55.4	51.7	161.6	258.8	250.4	248.3	257.6	228.8	253.8	249.4	257.8	259.1	256.6	260.6	258.3	257.3	261.6	334.1	63.9	57.2	69.7	58.3	92.7	266.1	334.1
12	84.1	69.2	61.5	80.6	168.1	246.0	244.9	231.3	232.4	226.5	233.2	164.0	75.8	71.9	80.8	75.9	81.4	89.9	267.0	337.8	79.4	127.3	155.9	232.9	120.9	337.8
13	241.3	245.7	296.6	296.8	309.6	315.7	315.4	293.0	289.3	292.1	294.4	288.4	261.5	268.8	250.4	248.9	255.5	271.1	253.7	274.6	296.5	301.0	316.5	314.2	286.1	316.5
14	287.4	307.5	296.0	303.0	289.6	313.6	305.5	289.7	287.5	306.3	313.9	292.3	253.7	231.5	237.8	80.6	92.0	63.2	70.4	102.0	141.4	111.0	144.0	164.7	305.3	313.9
15	248.3	234.0	231.0	236.6	230.9	225.2	233.6	258.4	255.3	276.5	263.8	217.3	195.9	151.3	200.8	186.3	184.1	149.8	69.3	303.0	219.6	235.9	210.5	217.5	231.7	303.0
16	236.8	261.8	261.6	263.6	256.6	278.6	298.2	296.6	292.7	280.8	309.0	302.4	297.5	291.2	283.1	240.4	202.4	244.9	236.3	210.2	246.3	275.9	308.7	309.8	276.5	309.8
17	303.4	271.9	289.5	290.2	286.3	282.0	282.0	276.7	271.8	273.9	281.8	286.4	291.3	276.4	294.2	211.1	213.0	228.9	235.6	296.9	315.3	313.4	298.6	296.1	283.8	315.3
18	298.8	319.2	312.6	294.6	298.8	286.5	279.1	270.6	270.8	287.3	284.1	268.8	267.8	306.8	296.8	198.5	212.9	235.4	238.8	227.3	273.3	245.8	318.0	287.0	281.3	319.2
19	270.1	267.1	279.7	316.1	268.0	295.9	290.7	270.4	276.3	280.3	295.8	303.7	269.3	246.3	239.6	236.4	238.7	247.2	251.8	259.3	258.7	257.0	272.2	287.7	268.0	316.1
20	284.8	294.5	294.6	276.6	258.1	254.0	252.9	307.9	70.3	67.7	76.2	72.5	75.6	73.2	73.7	73.0	77.7	90.1	84.2	71.4	72.9	79.6	81.5	91.1	55.9	307.9
21	76.5	89.0	104.2	61.7	52.1	77.0	56.6	65.1	73.8	73.1	78.9	76.4	73.6	67.5	72.6	80.9	85.2	62.4	85.0	80.2	70.6	85.3	94.8	95.1	75.8	104.2
22	97.6	98.6	72.3	51.8	54.8	52.3	91.6	86.7	81.4	86.3	76.7	94.1	83.2	79.9	89.4	89.7	84.3	66.2	64.6	81.9	50.6	51.3	61.4	69.6	77.5	98.6
23	52.4	53.9	52.5	61.7	52.6	43.4	41.3	67.6	82.6	80.2	59.3	49.9	49.5	48.3	97.3	157.7	95.3	52.3	232.3	188.9	202.8	207.2	291.9	292.4	52.9	292.4
24	283.2	263.0	246.8	248.8	263.7	269.7	266.8	272.5	271.0	270.6	263.6	263.7	259.8	254.9	249.8	245.3	249.3	247.9	254.7	254.1	285.0	282.6	280.8	283.6	261.1	285.0
25	265.1	268.5	287.0	288.1	298.5	270.4	255.9	272.9	252.0	245.6	262.1	259.1	258.7	254.9	264.1	270.2	273.1	257.5	241.1	241.9	258.1	260.1	254.2	253.0	261.7	298.5
26	260.8	259.7	261.8	269.8	292.4	298.9	286.7	294.6	302.1	265.3	250.7	251.1	266.6	263.9	264.5	267.2	269.1	269.9	251.8	247.3	255.3	267.4	274.7	265.0	266.9	302.1
27	256.2	251.3	249.2	246.3	249.5	256.8	255.2	256.3	264.5	266.7	262.1	252.9	248.3	246.2	248.9	257.8	266.7	246.2	269.5	239.5	221.3	213.3	202.8	141.8	252.0	269.5
28	291.5	281.1	341.7	71.0	84.6	356.8	223.8	248.2	236.9	258.2	263.9	241.2	278.2	294.1	276.3	256.4	269.9	265.2	249.4	258.6	262.2	261.3	251.5	248.3	262.6	356.8
29	256.0	250.2	248.1	247.4	250.6	254.1	256.6	252.6	252.1	246.9	228.0	224.3	232.9	239.6	238.9	245.9	246.8	242.4	247.3	251.0	251.7	246.2	246.3	246.0	247.4	256.6
30	253.9	257.1	261.4	248.2	250.6	250.9	249.5	251.6	252.6	253.2	255.3	261.4	262.5	274.2	287.5	275.6	280.6	238.6	278.7	276.3	237.4	238.8	248.5	280.2	258.1	287.5
31	283.5	277.5	230.4	246.7	281.8	283.1	62.1	63.2	80.0	79.6	77.8	75.6	76.1	66.1	53.2	64.8	153.1	122.5	256.2	245.2	244.8	268.6	242.5	217.2	68.8	283.5
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	217.4	219.5	225.4	220.5	239.0	249.7	239.7	243.6	238.2	239.7	233.9	224.8	220.1	203.7	199.4	181.6	185.0	184.4	203.5	191.4	199.7	198.0	207.5	210.9	261.1	285.0
MAX	303.4	319.2	341.7	316.1	309.6	356.8	315.4	307.9	302.1	306.3	313.9	303.7	330.4	306.8	296.8	275.6	280.6	271.1	334.1	337.8	315.3	313.4	318.0	314.2	261.7	298.5



Number of Non-Zero Readings	744
Maximum 1-HR Average	357 degrees
Maximum 24-HR Average	305 degrees
Monthly Calibration	0
Standard Deviation	81.65
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	215.7 degrees

Lagoon Pressure (mmHg) – October 2022

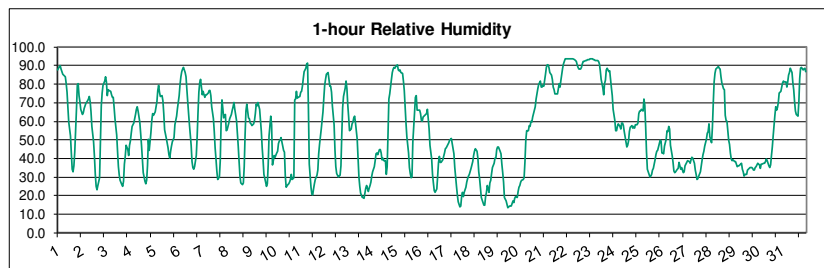
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	658.2	658.2	658.3	658.3	658.4	658.5	658.4	658.3	658.2	658.0	657.7	657.0	656.4	655.7	655.2	654.7	654.4	654.2	654.3	654.6	654.8	654.6	654.6	654.6	656.5	658.5
2	654.4	654.2	654.0	653.9	653.8	653.7	653.9	654.3	654.5	654.5	654.4	654.0	653.8	653.5	653.2	653.2	653.4	653.8	654.4	655.1	655.5	655.5	655.5	655.7	654.3	655.7
3	655.9	656.2	656.3	656.4	656.5	656.6	656.6	656.7	656.6	656.5	656.0	655.5	655.1	654.6	654.1	653.8	653.8	653.8	654.0	654.3	654.6	654.8	654.8	655.0	655.4	656.7
4	655.2	655.2	655.4	655.6	655.7	655.7	655.9	656.2	656.3	656.3	656.1	655.6	655.2	654.8	654.4	654.2	654.2	654.2	654.7	655.4	655.9	656.3	656.8	657.0	655.5	657.0
5	657.0	656.9	656.9	656.7	656.7	656.9	657.1	657.1	657.4	657.3	657.2	657.0	657.0	656.9	656.9	657.4	657.9	658.6	659.3	660.0	661.1	661.7	661.9	661.9	658.1	661.9
6	661.6	661.7	661.8	662.0	661.9	661.8	662.0	662.0	662.1	662.0	661.7	661.3	660.9	660.5	660.4	660.2	660.1	660.1	660.3	660.6	660.8	661.0	661.2	661.4	661.2	662.1
7	661.5	661.6	661.8	661.9	661.9	661.8	661.8	662.0	662.0	661.9	661.6	661.0	660.4	659.7	659.1	658.6	658.4	658.3	658.5	658.9	659.2	659.2	659.4	659.4	660.4	662.0
8	659.4	659.4	659.4	659.5	659.5	659.5	659.5	659.7	659.7	659.4	659.1	658.4	657.6	656.9	656.3	655.9	655.7	655.8	656.2	656.5	656.7	657.1	657.1	657.1	658.0	659.7
9	657.1	657.1	657.1	657.2	657.5	657.6	657.6	657.8	657.7	657.3	657.3	656.9	656.1	655.3	654.5	654.0	653.6	653.4	653.4	653.5	653.3	652.9	653.0	652.6	655.6	657.8
10	651.9	651.6	651.2	650.7	650.0	649.1	648.2	647.0	646.5	645.8	644.8	643.9	643.3	642.6	642.2	641.8	641.7	641.9	641.9	644.0	644.7	645.5	646.3	647.0	646.0	651.9
11	647.5	647.8	647.9	648.2	648.7	649.0	649.2	649.5	649.7	649.5	648.9	648.4	648.0	647.4	647.1	647.3	647.9	648.7	650.0	651.3	652.0	652.9	653.8	654.4	649.4	654.4
12	654.7	655.1	655.0	655.4	655.9	656.3	656.7	657.0	657.2	657.0	656.9	656.5	656.1	655.8	655.9	656.0	656.5	657.0	657.7	658.1	658.5	658.9	659.2	659.0	656.8	659.2
13	659.0	658.9	658.8	658.7	658.7	658.6	658.7	658.5	658.2	657.7	657.2	656.5	655.8	655.2	654.6	654.2	653.8	653.6	653.4	653.4	653.5	653.4	653.5	653.6	656.1	659.0
14	653.5	653.3	653.3	653.4	652.8	652.5	652.6	652.7	652.4	652.4	652.4	652.3	652.1	651.8	651.4	651.5	652.7	653.6	654.2	654.8	655.5	656.1	656.3	656.5	653.3	656.5
15	656.6	656.9	657.4	657.7	657.8	658.0	658.0	658.2	658.2	658.0	657.8	657.5	657.3	656.8	656.3	655.9	656.1	656.5	656.9	657.2	657.6	657.8	657.9	658.2	657.4	658.2
16	658.3	658.4	658.4	658.2	658.1	658.0	657.9	657.9	658.1	657.9	657.6	657.2	656.6	655.9	655.4	655.2	655.1	655.1	655.4	655.5	655.7	655.7	655.7	655.5	656.8	658.4
17	655.4	655.3	655.1	654.9	654.9	654.9	655.1	655.4	655.6	655.5	655.5	655.1	654.7	654.1	653.8	653.7	653.7	653.9	654.2	654.4	654.8	655.1	655.3	655.6	654.8	655.6
18	655.8	656.1	656.3	656.8	657.1	657.5	657.8	658.0	658.1	658.3	658.0	657.8	657.3	656.8	656.4	656.4	656.5	656.8	657.2	657.8	658.2	658.6	658.9	659.0	657.4	659.0
19	658.9	658.9	658.9	658.9	658.7	658.6	658.5	658.5	658.4	657.8	657.4	657.0	656.3	655.6	655.2	655.0	654.8	654.5	654.4	654.1	653.9	653.2	652.9	652.3	656.4	658.9
20	651.7	650.9	650.2	649.4	648.8	648.4	648.0	648.0	648.6	649.1	649.4	649.2	648.8	648.2	647.5	647.1	647.4	647.4	647.2	646.9	646.6	646.3	645.8	645.0	648.2	651.7
21	644.8	644.0	643.9	644.0	644.1	643.7	643.7	643.4	643.6	643.7	643.4	642.8	642.3	641.8	641.3	641.0	641.0	640.8	640.7	640.6	640.5	640.5	640.5	640.6	642.4	644.8
22	640.9	641.0	641.1	641.1	641.2	641.3	641.6	641.8	642.2	642.6	643.0	643.0	643.1	643.3	643.5	644.0	644.6	645.2	645.7	646.1	646.5	646.8	647.1	647.5	643.5	647.5
23	647.8	648.0	648.3	648.6	649.1	649.6	650.1	650.7	651.1	651.4	651.5	651.6	651.5	651.3	651.2	651.1	651.0	651.0	650.7	650.2	649.9	649.4	648.9	648.2	650.1	651.6
24	647.3	646.4	645.8	645.3	644.7	644.4	644.0	643.8	643.7	643.3	642.8	642.4	642.0	641.8	642.1	642.0	642.4	642.7	643.2	643.6	643.8	644.0	644.3	644.3	643.8	647.3
25	644.5	644.7	644.7	644.5	644.9	645.3	645.8	646.2	646.8	647.3	647.3	647.3	647.1	647.0	646.9	646.8	646.7	646.7	646.7	646.5	646.0	645.7	645.5	645.2	646.1	647.3
26	645.0	644.6	644.5	644.4	644.2	643.9	643.8	643.8	644.1	643.9	643.7	643.5	643.4	643.3	643.5	643.5	643.8	644.2	644.6	645.1	644.5	644.1	644.3	644.0	644.1	645.1
27	643.8	643.5	643.4	643.1	642.9	643.1	642.3	642.4	642.3	642.3	642.0	641.7	641.7	641.7	642.7	643.2	643.2	643.3	643.4	643.8	644.1	644.6	645.1	645.4	643.1	645.4
28	645.2	645.4	645.8	645.9	646.1	646.4	646.4	646.5	646.9	647.3	647.6	648.0	648.5	649.2	649.7	649.7	649.9	650.1	650.1	649.9	649.9	650.1	650.3	650.0	648.1	650.3
29	649.4	649.3	648.8	648.7	648.8	649.2	649.8	649.2	648.4	649.7	650.5	651.2	651.6	651.6	651.5	651.2	651.0	650.6	650.2	649.9	649.1	648.7	648.3	647.8	649.8	651.6
30	647.3	647.6	647.6	647.2	646.7	646.6	646.6	646.8	646.4	646.3	645.6	645.6	645.3	645.0	644.5	644.3	643.9	643.3	643.1	643.5	643.6	643.6	643.8	643.8	645.3	647.6
31	643.8	643.8	643.7	643.6	643.6	643.4	643.4	643.4	643.5	643.5	643.3	643.0	642.3	641.7	641.1	640.6	640.5	640.6	640.8	641.0	641.3	641.7	642.0	642.0	642.4	643.8
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	652.4	652.3	652.3	652.3	652.2	652.3	652.3	652.4	652.4	652.4	652.2	651.9	651.5	651.2	650.9	650.8	650.8	650.9	651.2	651.5	651.7	651.8	651.9	651.9		
MAX	661.6	661.7	661.8	662.0	661.9	661.8	662.0	662.0	662.1	662.0	661.7	661.3	660.9	660.5	660.4	660.2	660.1	660.1	660.3	660.6	661.1	661.7	661.9	661.9		



Number of Non-Zero Readings	744
Maximum 1-HR Average	662 MMHg
Maximum 24-HR Average	661 MMHg
Monthly Calibration	0
Standard Deviation	6.063
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	651.8 MMHg

Lagoon Relative Humidity (%) – October 2022

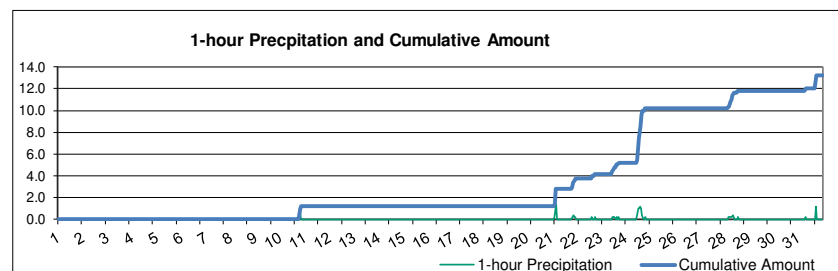
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	87.6	89.3	90.0	88.2	86.9	85.5	85.0	84.1	80.1	75.5	67.3	59.4	52.0	42.9	34.3	33.1	36.2	43.2	66.3	79.5	80.5	73.6	70.6	66.4	69.1	90.0
2	63.5	64.8	66.7	68.4	69.7	71.2	72.1	73.5	70.6	64.9	57.1	49.1	41.1	31.3	24.9	23.2	25.5	29.8	48.8	68.1	75.3	79.2	81.9	84.0	58.5	84.0
3	81.2	73.9	76.9	76.8	76.2	74.3	72.9	72.7	67.5	61.2	52.6	44.0	35.7	30.8	28.1	25.9	25.2	27.7	37.1	41.3	46.9	44.6	41.6	47.3	52.6	81.2
4	49.5	53.7	57.1	59.1	61.5	63.8	66.3	67.9	65.6	59.7	53.5	47.1	39.9	32.4	27.6	26.4	28.4	36.1	50.3	44.4	54.1	60.3	64.0	63.3	51.3	67.9
5	64.0	65.2	70.5	76.6	79.4	75.5	73.2	73.6	71.1	64.0	55.3	53.3	50.6	45.9	42.0	40.3	43.7	46.8	48.8	51.1	58.1	60.4	62.8	66.8	60.0	79.4
6	73.7	80.0	83.9	86.6	88.2	89.1	86.3	83.9	77.2	70.7	64.3	58.1	47.2	38.3	35.3	34.2	35.5	41.7	51.9	64.6	75.6	80.6	82.4	74.2	66.8	89.1
7	75.9	74.2	72.8	74.1	74.5	75.3	76.6	76.4	73.8	67.9	61.6	54.4	45.9	39.9	33.5	28.7	29.9	39.0	59.6	71.4	66.8	61.8	63.6	55.1	60.5	76.6
8	55.6	57.1	59.1	61.3	63.5	66.1	67.9	70.1	66.6	60.3	53.7	46.8	38.2	30.8	27.0	25.7	26.8	35.4	52.6	65.4	69.3	61.9	61.6	59.2	53.4	70.1
9	58.6	57.7	58.8	60.4	64.0	69.3	68.2	70.0	66.4	60.5	54.4	45.7	39.1	31.3	27.3	25.0	26.4	36.5	52.1	62.8	58.3	36.6	39.0	41.7	50.4	70.0
10	40.9	42.9	43.7	48.0	49.2	50.0	51.4	46.6	44.2	43.4	30.4	24.7	26.0	26.3	27.5	28.7	31.5	28.9	29.7	71.6	72.0	76.0	72.2	72.8	44.9	76.0
11	73.6	75.6	75.9	78.8	83.1	86.6	88.6	90.9	91.1	66.9	37.2	24.5	20.9	20.4	23.6	26.5	28.6	30.9	33.6	42.6	47.4	51.8	55.8	65.1	55.0	91.1
12	72.7	79.4	82.6	85.1	86.2	82.4	79.0	79.0	75.6	68.3	58.1	44.9	35.4	32.0	31.0	30.3	30.9	36.2	53.2	67.3	73.2	77.7	81.5	77.7	63.3	86.2
13	68.5	62.3	55.2	55.9	58.6	59.4	61.9	62.9	59.1	50.5	40.1	30.1	24.9	21.1	19.1	18.9	18.7	21.6	24.0	25.4	22.2	24.0	25.5	27.5	39.1	68.5
14	30.8	33.0	35.4	39.0	42.6	42.8	42.0	44.9	44.8	42.9	39.1	40.4	38.9	38.9	31.4	35.7	53.1	72.1	74.9	82.4	86.2	88.1	89.0	88.7	52.4	89.0
15	89.5	90.5	87.5	87.3	87.6	86.4	85.9	81.9	76.8	67.7	59.3	51.5	43.1	35.2	32.0	29.7	30.3	49.1	64.8	72.9	73.6	66.1	65.9	65.9	65.8	90.5
16	64.2	60.5	60.1	62.3	63.0	63.6	64.2	66.3	61.5	55.7	47.0	39.9	31.6	26.9	22.9	21.8	23.7	30.5	38.0	41.1	37.9	38.0	39.2	41.1	45.9	66.3
17	42.9	45.4	45.8	46.7	48.4	49.9	50.3	51.0	48.0	42.6	35.1	30.2	25.0	20.3	16.9	14.0	14.3	19.7	21.7	19.4	22.0	24.7	27.3	29.4	33.0	51.0
18	30.3	31.5	34.6	36.5	38.5	41.8	44.0	45.4	43.7	40.3	32.8	29.2	24.3	19.0	16.3	14.8	15.0	19.7	21.7	25.5	21.8	26.9	28.3	31.8	29.7	45.4
19	35.1	37.6	40.1	40.4	44.7	46.0	46.0	43.8	42.4	36.9	32.2	27.3	18.9	17.0	15.2	13.7	14.1	14.2	14.3	15.8	17.0	16.1	18.8	19.4	27.8	46.0
20	18.9	22.0	24.4	25.3	27.3	28.4	28.6	29.7	38.3	49.7	55.0	55.0	57.5	57.4	60.1	59.5	62.2	66.1	67.7	71.8	74.8	77.5	80.0	81.8	50.8	81.8
21	78.6	78.5	79.3	78.7	85.4	89.0	90.2	90.2	89.2	86.4	84.8	82.7	78.5	77.1	74.9	74.9	75.0	77.6	80.4	78.6	82.0	88.5	91.0	92.4	82.7	92.4
22	93.6	93.6	93.5	93.4	93.5	93.6	93.6	93.6	93.4	93.2	92.6	92.1	90.4	89.0	87.9	87.9	89.1	91.0	92.2	92.3	92.6	92.9	93.1	93.2	92.1	93.6
23	93.3	93.4	93.4	93.4	93.3	93.1	92.9	92.7	92.5	92.4	90.8	87.1	82.4	77.9	74.1	80.1	82.2	87.6	88.5	86.7	87.0	82.8	78.0	74.0	87.1	93.4
24	66.5	60.4	54.8	55.0	57.4	58.5	57.0	55.9	59.1	59.2	57.6	54.4	49.2	46.1	47.2	49.3	54.6	56.6	57.6	56.3	57.2	56.3	58.1	58.2	55.9	66.5
25	59.3	64.0	65.6	65.6	66.3	65.7	71.9	68.9	57.4	43.3	34.1	31.6	29.9	30.3	31.6	33.7	34.6	39.2	41.8	44.1	44.5	46.2	50.0	49.2	48.7	71.9
26	42.9	42.8	42.7	46.5	50.4	55.0	54.4	57.1	55.8	47.1	41.6	37.9	33.4	32.4	32.8	34.2	34.6	37.8	35.9	34.2	35.0	32.3	32.9	36.2	41.1	57.1
27	37.0	38.1	38.9	38.3	37.5	39.2	40.5	40.1	37.2	33.8	31.2	28.5	29.4	30.7	32.7	35.9	39.1	42.3	44.0	46.7	50.2	53.6	54.7	58.5	39.9	58.5
28	51.7	48.3	56.7	69.9	81.3	86.0	88.2	88.9	89.4	88.6	88.1	83.9	80.7	77.7	76.9	63.0	60.6	59.9	49.8	47.7	42.9	39.6	38.7	39.3	66.6	89.4
29	38.4	38.3	36.8	35.5	35.9	36.1	37.2	37.3	34.1	32.8	30.6	31.3	31.4	33.7	34.3	34.8	35.2	35.2	34.7	34.0	34.0	35.3	35.5	37.5	35.0	38.4
30	37.0	36.7	34.8	36.9	37.0	37.6	37.3	38.2	39.9	38.8	36.1	35.2	36.7	41.7	46.0	52.0	63.2	67.9	65.9	67.2	70.0	75.1	76.1	78.2	49.4	78.2
31	80.9	81.8	81.0	81.1	78.4	81.0	84.9	86.4	88.4	86.2	80.8	76.9	70.6	65.7	63.5	63.0	70.4	83.0	88.4	88.9	87.5	87.9	88.6	86.9	80.5	88.9
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	59.9	60.4	61.3	62.9	64.8	65.9	66.4	66.6	64.5	59.7	53.4	48.3	43.5	40.0	38.0	37.6	40.0	45.3	51.3	56.8	58.6	58.6	59.6	60.1		
MAX	93.6	93.6	93.5	93.4	93.5	93.6	93.6	93.6	93.4	93.2	92.6	92.1	90.4	89.0	87.9	87.9	89.1	91.0	92.2	92.3	92.6	92.9	93.1	93.2		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	93.6 %		
Maximum 24-HR Average	92.1 %		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	21.82	Operational Uptime	100.0 %
		Monthly Average	55.1 %

Lagoon Precipitation (mm) – October 2022

HOURLY																										MEAN	MAX		
Day	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	1.0	0.2	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.0	0.1	1.4	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	0.2	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
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	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
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	1.0	1.2	1.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4	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	0.1	0.4
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2	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	31	744	100%	
MEAN	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.2	1.4	0.2	0.2	0.2	0.4	0.2	0.0	0.2	1.0	1.0	1.2	1.0	0.4	1.2	0.2	1.0	0.2	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0

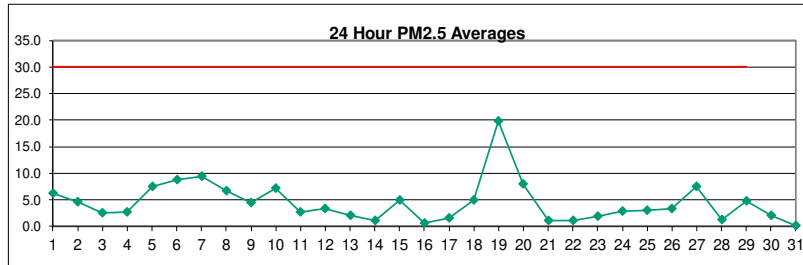


Number of Non-Zero Readings 31
 Maximum 1-HR Average 1.4 MM
 Maximum 24-HR Average 0.2 MM

Monthly Calibration 0
 Standard Deviation 0.116
 Operational Time 744 HRS
 Operational Uptime 100.0 %
 Monthly Average 0.02 MM

Windridge PM_{2.5} (µg/m³) – October 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	10.0	9.0	8.0	6.0	4.0	3.0	3.0	8.0	8.0	5.0	5.0	7.0	9.0	7.0	7.0	4.0	2.0	6.0	5.0	7.0	6.0	5.0	6.0	8.0	6.2	10.0
2	5.0	3.0	3.0	2.0	1.0	3.0	10.0	6.0	0.0	5.0	7.0	7.0	7.0	6.0	4.0	1.0	0.0	2.0	3.0	14.0	7.0	3.0	7.0	7.0	4.7	14.0
3	5.0	5.0	6.0	5.0	3.0	0.0	2.0	3.0	2.0	0.0	1.0	3.0	5.0	7.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.6	8.0
4	3.0	2.0	1.0	1.0	0.0	3.0	3.0	2.0	4.0	4.0	1.0	0.0	3.0	5.0	4.0	2.0	2.0	1.0	4.0	4.0	1.0	8.0	6.0	2.0	2.8	8.0
5	3.0	6.0	8.0	7.0	8.0	7.0	8.0	4.0	3.0	6.0	8.0	6.0	5.0	14.0	11.0	8.0	13.0	11.0	11.0	9.0	6.0	7.0	7.0	4.0	7.5	14.0
6	1.0	3.0	4.0	5.0	6.0	7.0	7.0	17.0	10.0	9.0	12.0	10.0	10.0	C	12.0	13.0	12.0	9.0	7.0	10.0	9.0	9.0	11.0	9.0	8.8	17.0
7	13.0	10.0	12.0	10.0	9.0	13.0	14.0	12.0	10.0	9.0	10.0	12.0	13.0	16.0	10.0	10.0	5.0	1.0	5.0	4.0	5.0	8.0	7.0	9.0	9.5	16.0
8	10.0	11.0	7.0	5.0	6.0	5.0	9.0	6.0	6.0	6.0	6.0	7.0	8.0	8.0	5.0	7.0	4.0	4.0	1.0	6.0	10.0	7.0	11.0	8.0	6.8	11.0
9	9.0	6.0	6.0	6.0	5.0	3.0	3.0	4.0	5.0	5.0	3.0	4.0	7.0	4.0	4.0	3.0	2.0	1.0	1.0	2.0	9.0	6.0	5.0	6.0	4.5	9.0
10	4.0	2.0	1.0	4.0	5.0	5.0	3.0	7.0	7.0	6.0	5.0	55.0	26.0	9.0	6.0	11.0	8.0	3.0	3.0	3.0	1.0	0.0	0.0	0.0	7.3	55.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	1.0	0.0	2.0	4.0	7.0	15.0	8.0	5.0	2.0	1.0	1.0	3.0	4.0	5.0	3.0	2.8	15.0
12	3.0	3.0	3.0	3.0	6.0	7.0	8.0	5.0	3.0	12.0	7.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	2.0	2.0	1.0	3.3	12.0
13	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	6.0	7.0	6.0	4.0	7.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.0
14	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	6.0	1.0	4.0	3.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	1.1	8.0
15	0.0	5.0	4.0	11.0	7.0	3.0	3.0	1.0	1.0	1.0	0.0	1.0	3.0	4.0	3.0	3.0	4.0	2.0	1.0	16.0	0.0	24.0	14.0	8.0	5.0	24.0
16	2.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	5.0
17	0.0	1.0	1.0	3.0	2.0	1.0	3.0	3.0	2.0	2.0	5.0	4.0	2.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	1.6	5.0
18	2.0	0.0	1.0	1.0	0.0	0.0	2.0	8.0	5.0	10.0	11.0	8.0	4.0	6.0	10.0	6.0	3.0	5.0	4.0	6.0	6.0	8.0	8.0	8.0	5.0	11.0
19	10.0	12.0	10.0	10.0	16.0	16.0	16.0	17.0	18.0	21.0	15.0	16.0	24.0	25.0	24.0	25.0	21.0	22.0	25.0	23.0	26.0	36.0	30.0	18.0	19.8	36.0
20	27.0	17.0	12.0	15.0	13.0	28.0	24.0	15.0	12.0	9.0	4.0	1.0	1.0	1.0	1.0	3.0	3.0	2.0	1.0	2.0	0.0	0.0	1.0	1.0	8.0	28.0
21	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	3.0	4.0	3.0	1.0	1.0	3.0	2.0	0.0	1.0	0.0	1.0	1.0	4.0
22	2.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	3.0	4.0	3.0	0.0	0.0	1.0	1.0	1.0	2.0	1.0	1.0	4.0
23	1.0	2.0	2.0	0.0	0.0	3.0	3.0	1.0	0.0	4.0	3.0	0.0	0.0	2.0	1.0	0.0	3.0	6.0	5.0	5.0	4.0	0.0	0.0	1.0	1.9	6.0
24	0.0	0.0	3.0	2.0	6.0	5.0	2.0	0.0	0.0	0.0	2.0	2.0	4.0	11.0	7.0	5.0	7.0	6.0	5.0	1.0	0.0	0.0	0.0	0.0	2.8	11.0
25	0.0	0.0	0.0	0.0	0.0	0.0	8.0	5.0	4.0	4.0	5.0	3.0	4.0	3.0	0.0	0.0	3.0	6.0	10.0	7.0	5.0	3.0	2.0	2.0	3.0	10.0
26	1.0	0.0	1.0	1.0	0.0	0.0	1.0	3.0	2.0	3.0	2.0	5.0	9.0	5.0	4.0	4.0	3.0	7.0	6.0	2.0	0.0	5.0	8.0	9.0	3.4	9.0
27	7.0	8.0	5.0	5.0	8.0	5.0	9.0	6.0	5.0	51.0	10.0	11.0	10.0	17.0	5.0	5.0	1.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	7.5	51.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	1.0	4.0	4.0	2.0	3.0	4.0	2.0	0.0	3.0	6.0	1.3	6.0
29	6.0	5.0	5.0	9.0	9.0	6.0	3.0	7.0	7.0	4.0	4.0	2.0	0.0	3.0	2.0	3.0	3.0	0.0	5.0	7.0	10.0	6.0	4.0	4.0	4.8	10.0
30	3.0	1.0	0.0	2.0	2.0	6.0	5.0	6.0	4.0	1.0	3.0	4.0	4.0	3.0	2.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0
31	0.0	0.0	0.0	1.0	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	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0
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	4.2	3.7	3.4	3.7	3.8	4.2	4.8	4.8	4.0	5.6	4.3	6.0	6.0	6.2	5.3	4.8	3.8	3.5	3.6	4.6	3.7	4.6	4.6	3.8	7.5	
MAX	27.0	17.0	12.0	15.0	16.0	28.0	24.0	17.0	18.0	51.0	15.0	55.0	26.0	25.0	24.0	25.0	21.0	22.0	25.0	23.0	26.0	36.0	30.0	18.0	17.4	70.0



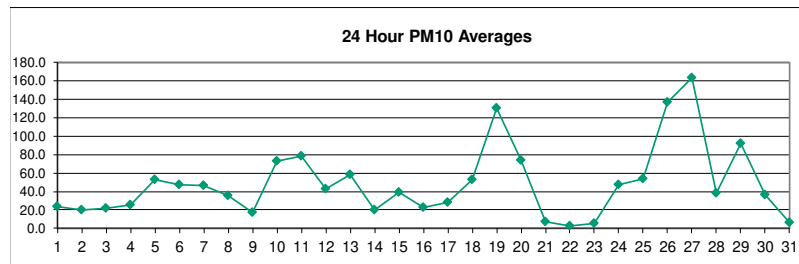
Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	559	
Maximum 1-HR Average	55.0 UG/M3	
Maximum 24-HR Average	19.8 UG/M3	
Monthly Calibration	1	
Standard Deviation	5.6	
Operational Time	744 HRS	
Operational Uptime	100.0 %	
Monthly Average	4.5 UG/M3	

Windridge PM₁₀ (µg/m³) – October 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	31.0	21.0	17.0	23.0	13.0	15.0	12.0	13.0	29.0	41.0	28.0	32.0	53.0	32.0	34.0	18.0	12.0	17.0	15.0	24.0	23.0	25.0	14.0	18.0
2	20.0	29.0	29.0	14.0	22.0	13.0	14.0	22.0	28.0	27.0	27.0	42.0	28.0	19.0	10.0	14.0	16.0	18.0	13.0	23.0	9.0	11.0	11.0	19.0
3	14.0	15.0	38.0	9.0	8.0	9.0	22.0	24.0	18.0	18.0	20.0	32.0	19.0	51.0	57.0	42.0	45.0	37.0	8.0	11.0	9.0	8.0	7.0	5.0
4	5.0	6.0	7.0	5.0	5.0	50.0	26.0	17.0	35.0	42.0	45.0	22.0	52.0	27.0	23.0	12.0	12.0	9.0	21.0	36.0	40.0	29.0	40.0	43.0
5	43.0	35.0	42.0	45.0	24.0	57.0	60.0	45.0	63.0	105.0	75.0	52.0	61.0	57.0	54.0	81.0	70.0	46.0	54.0	57.0	48.0	44.0	29.0	28.0
6	27.0	31.0	22.0	28.0	26.0	33.0	33.0	155.0	96.0	111.0	63.0	51.0	60.0	C	C	35.0	24.0	26.0	36.0	46.0	23.0	26.0	45.0	38.0
7	53.0	28.0	40.0	24.0	34.0	58.0	51.0	79.0	82.0	56.0	75.0	66.0	84.0	74.0	42.0	26.0	24.0	16.0	15.0	18.0	25.0	87.0	35.0	22.0
8	26.0	18.0	16.0	24.0	18.0	22.0	29.0	17.0	61.0	90.0	54.0	44.0	124.0	65.0	23.0	31.0	23.0	11.0	10.0	17.0	19.0	21.0	68.0	29.0
9	25.0	19.0	19.0	7.0	13.0	11.0	11.0	15.0	38.0	14.0	21.0	15.0	25.0	30.0	28.0	16.0	5.0	6.0	9.0	10.0	27.0	16.0	11.0	14.0
10	29.0	14.0	15.0	14.0	13.0	15.0	62.0	120.0	42.0	12.0	77.0	485.0	344.0	142.0	52.0	104.0	65.0	49.0	59.0	18.0	6.0	7.0	4.0	1.0
11	2.0	1.0	0.0	1.0	1.0	2.0	10.0	32.0	20.0	15.0	74.0	180.0	189.0	192.0	351.0	227.0	181.0	120.0	75.0	53.0	34.0	29.0	45.0	36.0
12	61.0	23.0	36.0	24.0	38.0	95.0	99.0	74.0	59.0	148.0	54.0	27.0	17.0	19.0	21.0	20.0	26.0	30.0	15.0	16.0	40.0	21.0	13.0	55.0
13	63.0	18.0	8.0	7.0	5.0	7.0	11.0	25.0	46.0	97.0	183.0	176.0	134.0	119.0	91.0	77.0	156.0	28.0	35.0	58.0	8.0	22.0	13.0	9.0
14	5.0	9.0	7.0	14.0	11.0	6.0	8.0	8.0	24.0	11.0	23.0	16.0	108.0	74.0	25.0	50.0	18.0	6.0	4.0	20.0	12.0	7.0	15.0	6.0
15	16.0	47.0	25.0	93.0	46.0	28.0	31.0	13.0	43.0	28.0	39.0	30.0	30.0	28.0	22.0	11.0	13.0	12.0	11.0	21.0	12.0	197.0	134.0	18.0
16	12.0	9.0	24.0	17.0	19.0	7.0	5.0	5.0	17.0	35.0	32.0	14.0	36.0	45.0	162.0	69.0	8.0	3.0	3.0	8.0	9.0	6.0	4.0	4.0
17	21.0	16.0	39.0	26.0	31.0	16.0	16.0	31.0	50.0	30.0	43.0	71.0	27.0	77.0	40.0	43.0	5.0	4.0	6.0	9.0	15.0	15.0	25.0	29.0
18	25.0	35.0	21.0	11.0	9.0	53.0	40.0	55.0	87.0	95.0	211.0	179.0	113.0	35.0	64.0	87.0	16.0	9.0	34.0	16.0	31.0	18.0	13.0	19.0
19	20.0	19.0	24.0	19.0	25.0	49.0	69.0	85.0	67.0	54.0	58.0	40.0	128.0	130.0	167.0	292.0	147.0	188.0	169.0	276.0	191.0	485.0	337.0	97.0
20	262.0	99.0	32.0	40.0	89.0	356.0	295.0	126.0	62.0	84.0	31.0	25.0	28.0	29.0	22.0	39.0	40.0	11.0	16.0	17.0	10.0	22.0	25.0	22.0
21	16.0	12.0	18.0	13.0	8.0	10.0	6.0	3.0	5.0	6.0	16.0	9.0	7.0	9.0	9.0	5.0	4.0	5.0	5.0	5.0	4.0	4.0	2.0	0.0
22	0.0	2.0	3.0	2.0	1.0	2.0	1.0	0.0	2.0	4.0	3.0	7.0	8.0	6.0	3.0	4.0	3.0	3.0	3.0	2.0	3.0	3.0	0.0	0.0
23	1.0	6.0	5.0	3.0	3.0	2.0	3.0	3.0	5.0	7.0	4.0	2.0	7.0	5.0	7.0	9.0	10.0	12.0	6.0	6.0	10.0	6.0	2.0	1.0
24	18.0	53.0	86.0	61.0	70.0	24.0	38.0	67.0	44.0	35.0	83.0	52.0	72.0	127.0	54.0	59.0	53.0	46.0	43.0	30.0	3.0	3.0	3.0	3.0
25	20.0	2.0	4.0	7.0	5.0	40.0	55.0	16.0	76.0	78.0	110.0	58.0	99.0	88.0	62.0	63.0	38.0	75.0	61.0	41.0	84.0	83.0	69.0	49.0
26	70.0	85.0	53.0	64.0	13.0	34.0	62.0	59.0	57.0	204.0	108.0	84.0	363.0	183.0	161.0	217.0	104.0	178.0	97.0	73.0	108.0	307.0	311.0	288.0
27	209.0	176.0	67.0	252.0	279.0	115.0	208.0	157.0	357.0	485.0	304.0	237.0	229.0	366.0	68.0	83.0	60.0	77.0	100.0	61.0	3.0	15.0	8.0	2.0
28	29.0	23.0	7.0	4.0	2.0	1.0	2.0	7.0	11.0	16.0	8.0	12.0	11.0	6.0	39.0	87.0	38.0	59.0	73.0	81.0	53.0	87.0	168.0	93.0
29	107.0	90.0	111.0	136.0	115.0	29.0	53.0	114.0	170.0	64.0	16.0	15.0	16.0	30.0	33.0	68.0	96.0	81.0	131.0	209.0	326.0	70.0	83.0	50.0
30	34.0	29.0	56.0	53.0	44.0	30.0	47.0	98.0	80.0	77.0	106.0	71.0	55.0	33.0	14.0	10.0	10.0	6.0	5.0	6.0	8.0	5.0	3.0	1.0
31	2.0	4.0	16.0	7.0	3.0	0.0	2.0	35.0	8.0	8.0	4.0	10.0	11.0	15.0	8.0	9.0	6.0	2.0	1.0	3.0	4.0	1.0	0.0	0.0

MEAN	MAX
23.3	53.0
19.9	42.0
21.9	57.0
25.4	52.0
53.1	105.0
47.0	155.0
46.4	87.0
35.8	124.0
16.9	38.0
72.9	485.0
77.9	351.0
43.0	148.0
58.2	183.0
20.3	108.0
39.5	197.0
23.0	162.0
28.5	77.0
53.2	211.0
130.7	485.0
74.3	356.0
7.5	18.0
2.7	8.0
5.2	12.0
47.0	127.0
53.5	110.0
136.8	363.0
163.3	485.0
38.2	168.0
92.2	326.0
36.7	106.0
6.6	35.0

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
MEAN	40.8	31.4	28.6	33.8	32.0	38.4	44.5	49.0	57.5	67.6	64.4	69.5	81.9	70.4	58.2	61.5	42.8	38.4	36.5	41.0	38.6	54.2	49.6	32.2
MAX	262.0	176.0	111.0	252.0	279.0	356.0	295.0	157.0	357.0	485.0	304.0	485.0	363.0	366.0	351.0	292.0	181.0	188.0	169.0	276.0	326.0	485.0	337.0	288.0



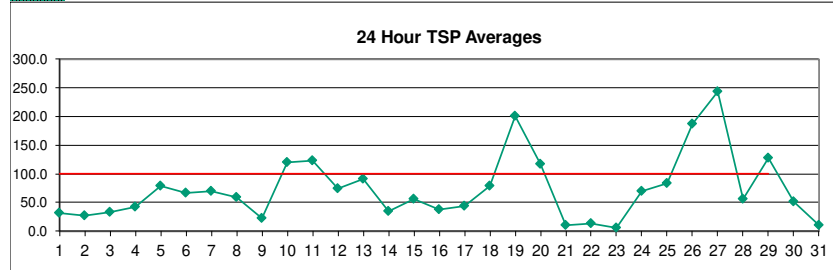
Number of Non-Zero Readings	733
Maximum 1-HR Average	485.0 UG/M3
Maximum 24-HR Average	163.3 UG/M3
Monthly Calibration	2
Standard Deviation	66.7
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	48.4 UG/M3

Windridge TSP ($\mu\text{g}/\text{m}^3$) – October 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	38.0	26.0	16.0	23.0	17.0	18.0	16.0	17.0	39.0	64.0	38.0	36.0	76.0	53.0	58.0	28.0	22.0	20.0	15.0	26.0	21.0	37.0	18.0	23.0
2	23.0	32.0	34.0	18.0	20.0	12.0	17.0	25.0	45.0	34.0	39.0	59.0	55.0	29.0	17.0	22.0	21.0	30.0	22.0	38.0	13.0	17.0	17.0	21.0
3	20.0	24.0	53.0	18.0	10.0	11.0	27.0	35.0	27.0	26.0	20.0	44.0	27.0	89.0	95.0	74.0	79.0	63.0	5.0	14.0	10.0	11.0	11.0	7.0
4	7.0	7.0	8.0	7.0	7.0	67.0	33.0	27.0	57.0	72.0	93.0	40.0	110.0	48.0	27.0	19.0	24.0	18.0	23.0	63.0	63.0	57.0	67.0	57.0
5	56.0	55.0	56.0	70.0	36.0	91.0	77.0	59.0	90.0	170.0	111.0	67.0	95.0	88.0	82.0	122.0	99.0	72.0	81.0	89.0	83.0	63.0	38.0	35.0
6	38.0	41.0	28.0	32.0	31.0	44.0	49.0	214.0	131.0	168.0	86.0	72.0	97.0	97.0	C	59.0	32.0	39.0	45.0	61.0	31.0	33.0	76.0	45.0
7	75.0	36.0	43.0	24.0	47.0	91.0	69.0	130.0	119.0	84.0	128.0	106.0	144.0	122.0	65.0	33.0	42.0	19.0	17.0	18.0	28.0	148.0	61.0	40.0
8	42.0	24.0	26.0	38.0	21.0	30.0	36.0	22.0	95.0	151.0	105.0	68.0	255.0	139.0	32.0	46.0	39.0	14.0	9.0	27.0	24.0	33.0	92.0	43.0
9	40.0	23.0	21.0	10.0	9.0	7.0	7.0	19.0	41.0	20.0	32.0	17.0	38.0	40.0	46.0	19.0	18.0	9.0	16.0	17.0	40.0	21.0	12.0	17.0
10	28.0	23.0	14.0	18.0	14.0	27.0	103.0	164.0	69.0	22.0	152.0	985.0	527.0	201.0	80.0	153.0	96.0	87.0	77.0	20.0	10.0	5.0	6.0	8.0
11	8.0	6.0	3.0	4.0	5.0	9.0	10.0	52.0	39.0	19.0	145.0	282.0	297.0	326.0	517.0	356.0	276.0	193.0	135.0	77.0	39.0	40.0	69.0	63.0
12	106.0	39.0	55.0	25.0	61.0	183.0	205.0	132.0	107.0	242.0	97.0	53.0	38.0	25.0	40.0	29.0	41.0	52.0	15.0	26.0	52.0	40.0	24.0	78.0
13	86.0	36.0	9.0	21.0	10.0	12.0	23.0	40.0	52.0	102.0	273.0	241.0	228.0	181.0	160.0	128.0	291.0	47.0	66.0	115.0	19.0	30.0	19.0	12.0
14	10.0	17.0	12.0	9.0	12.0	8.0	8.0	10.0	38.0	23.0	33.0	29.0	198.0	151.0	45.0	96.0	40.0	6.0	6.0	29.0	17.0	11.0	16.0	5.0
15	28.0	80.0	32.0	136.0	55.0	35.0	32.0	14.0	54.0	42.0	68.0	56.0	53.0	53.0	36.0	19.0	20.0	14.0	14.0	25.0	14.0	255.0	186.0	19.0
16	25.0	15.0	39.0	28.0	30.0	5.0	4.0	10.0	22.0	46.0	56.0	32.0	56.0	76.0	246.0	122.0	24.0	8.0	6.0	9.0	18.0	11.0	18.0	12.0
17	15.0	15.0	55.0	34.0	25.0	22.0	30.0	42.0	75.0	44.0	65.0	128.0	46.0	131.0	65.0	85.0	16.0	9.0	9.0	24.0	19.0	16.0	31.0	41.0
18	19.0	30.0	22.0	12.0	8.0	69.0	62.0	90.0	116.0	141.0	355.0	307.0	185.0	48.0	104.0	153.0	18.0	14.0	25.0	9.0	37.0	20.0	15.0	26.0
19	25.0	17.0	29.0	20.0	28.0	50.0	77.0	88.0	91.0	81.0	76.0	57.0	207.0	213.0	285.0	518.0	240.0	313.0	282.0	441.0	287.0	773.0	505.0	124.0
20	381.0	123.0	41.0	53.0	120.0	537.0	538.0	242.0	93.0	139.0	51.0	38.0	42.0	43.0	39.0	59.0	48.0	20.0	21.0	33.0	22.0	34.0	41.0	37.0
21	19.0	19.0	21.0	19.0	7.0	6.0	5.0	3.0	7.0	10.0	24.0	15.0	12.0	15.0	11.0	9.0	7.0	12.0	10.0	11.0	7.0	3.0	3.0	10.0
22	5.0	19.0	10.0	11.0	8.0	5.0	25.0	15.0	13.0	45.0	14.0	27.0	11.0	7.0	11.0	36.0	18.0	6.0	12.0	8.0	7.0	6.0	1.0	3.0
23	5.0	3.0	3.0	2.0	1.0	4.0	5.0	3.0	9.0	10.0	10.0	4.0	0.0	1.0	4.0	14.0	17.0	11.0	10.0	7.0	7.0	7.0	2.0	4.0
24	23.0	104.0	150.0	102.0	125.0	38.0	56.0	92.0	56.0	44.0	109.0	77.0	112.0	180.0	83.0	89.0	81.0	68.0	48.0	37.0	4.0	4.0	3.0	4.0
25	33.0	11.0	9.0	9.0	6.0	55.0	77.0	24.0	119.0	137.0	168.0	92.0	178.0	119.0	108.0	107.0	65.0	122.0	89.0	64.0	133.0	121.0	98.0	68.0
26	113.0	150.0	78.0	78.0	17.0	43.0	101.0	76.0	68.0	287.0	184.0	150.0	416.0	282.0	227.0	256.0	132.0	225.0	132.0	125.0	175.0	414.0	410.0	333.0
27	330.0	279.0	88.0	295.0	427.0	170.0	320.0	206.0	460.0	985.0	365.0	354.0	366.0	454.0	101.0	134.0	85.0	126.0	160.0	98.0	7.0	23.0	2.0	3.0
28	49.0	36.0	13.0	7.0	2.0	6.0	7.0	17.0	15.0	20.0	16.0	20.0	13.0	9.0	48.0	126.0	40.0	68.0	114.0	123.0	61.0	134.0	261.0	123.0
29	116.0	139.0	150.0	197.0	143.0	42.0	73.0	146.0	215.0	87.0	22.0	16.0	31.0	43.0	51.0	112.0	161.0	131.0	222.0	280.0	371.0	108.0	123.0	70.0
30	46.0	46.0	84.0	84.0	61.0	46.0	60.0	151.0	102.0	121.0	155.0	72.0	87.0	42.0	18.0	15.0	9.0	9.0	7.0	2.0	1.0	5.0	4.0	0.0
31	4.0	3.0	33.0	4.0	6.0	3.0	8.0	45.0	11.0	7.0	4.0	17.0	25.0	24.0	11.0	21.0	7.0	6.0	2.0	1.0	2.0	0.0	2.0	0.0

MEAN	MAX
31.0	76.0
27.5	59.0
33.3	95.0
41.7	110.0
78.5	170.0
67.3	214.0
70.4	148.0
58.8	255.0
22.5	46.0
120.4	985.0
123.8	517.0
73.5	242.0
91.7	291.0
34.5	198.0
55.8	255.0
38.3	246.0
43.4	131.0
78.5	355.0
201.1	773.0
116.5	538.0
11.0	24.0
13.5	45.0
6.0	17.0
70.4	68.0
83.8	178.0
186.3	416.0
243.3	985.0
55.3	261.0
127.0	371.0
51.1	155.0
10.3	45.0
743	100.0%

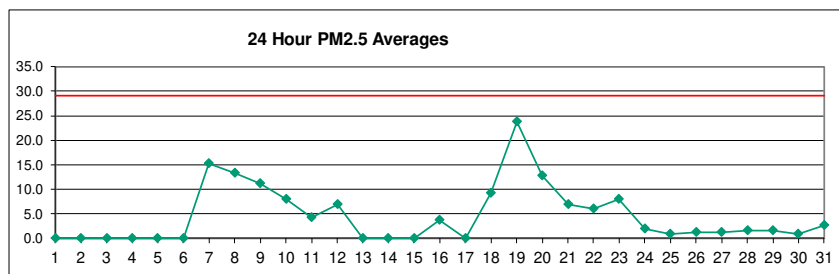
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
MEAN	58.5	47.7	39.8	45.4	44.2	56.3	69.7	71.3	79.8	111.1	99.8	114.9	129.8	107.4	90.4	98.7	68.0	59.1	54.7	61.8	52.3	80.0	72.0	42.9
MAX	381.0	279.0	150.0	295.0	427.0	537.0	538.0	242.0	460.0	985.0	365.0	985.0	527.0	454.0	517.0	518.0	291.0	313.0	282.0	441.0	371.0	773.0	505.0	333.0



Number of 24HR Exceedences	7	Proposed Guideline
Number of Non-Zero Readings	739	
Maximum 1-HR Average	985.0 UG/M3	
Maximum 24-HR Average	243.3 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	104.4	Monthly Average
		744 HRS
		100.0 %
		73.1 UG/M3

West PM_{2.5} (µg/m³) – October 2022

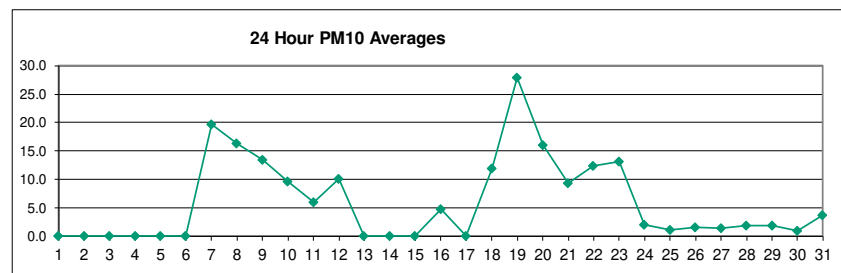
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	18.1	18.4	17.7	16.3	16.8	16.9	16.0	15.5	16.3	17.7	19.2	-	-
7	18.9	18.8	17.6	17.9	17.1	16.5	17.3	17.4	17.4	16.3	16.1	15.6	14.8	12.6	10.9	10.2	9.7	11.0	13.2	14.4	14.4	16.1	16.4	15.2	15.2	18.9
8	15.4	15.1	14.7	14.8	14.2	14.0	14.3	13.8	13.3	13.0	12.8	12.8	12.4	11.5	9.7	9.1	9.1	11.4	13.4	14.5	14.7	15.1	14.4	13.6	13.2	15.4
9	12.6	12.4	12.1	12.0	12.2	12.1	12.7	12.4	11.8	11.3	11.3	11.2	11.3	10.9	8.7	7.6	7.8	10.0	11.6	12.3	12.2	10.7	10.1	9.8	11.1	12.7
10	10.0	9.6	9.6	9.9	10.4	10.6	10.5	10.1	10.0	10.6	9.7	9.9	8.8	7.4	8.3	8.9	7.9	5.1	4.9	2.6	2.5	2.5	6.9	4.6	8.0	10.6
11	7.5	5.3	3.3	2.0	1.8	2.4	4.0	8.0	5.8	3.7	1.4	1.7	1.7	1.6	1.5	1.2	0.8	0.8	0.9	9.0	6.4	8.8	11.8	9.2	4.2	11.8
12	9.6	8.2	8.4	4.6	5.1	3.8	3.7	4.6	3.9	3.3	3.0	2.6	3.3	9.0	5.9	5.2	3.5	5.3	21.6	15.8	9.9	12.1	6.4	4.5	6.8	21.6
13	4.9	3.5	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	6.1	-	-
15	K	4.5	K	K	K	K	K	K	K	4.2	4.1	3.9	3.7	3.8	4.3	3.6	3.9	7.7	11.2	9.4	7.8	7.7	7.2	6.1	-	-
16	4.6	4.2	4.0	4.1	3.5	3.3	3.2	3.2	3.3	3.2	3.2	3.1	2.9	2.7	2.4	2.4	2.7	4.5	6.2	4.9	4.3	4.7	4.5	4.1	3.7	6.2
17	K	K	K	K	K	K	K	5.0	6.0	K	K	5.2	5.0	4.7	3.8	3.7	3.3	4.8	4.1	5.3	5.5	5.7	5.3	5.5	-	-
18	5.5	5.9	6.1	6.3	6.5	7.5	7.4	8.4	8.3	8.3	8.5	8.4	8.4	8.6	8.2	9.0	9.3	10.2	10.5	12.2	13.0	14.8	14.9	16.8	9.3	16.8
19	17.2	18.7	20.3	22.6	25.6	27.2	29.2	31.5	31.8	30.0	28.4	26.6	26.1	25.4	20.8	18.1	18.3	19.6	20.3	21.8	22.8	22.5	22.7	21.9	23.7	31.8
20	21.2	22.6	22.5	21.3	19.9	20.0	20.1	23.1	18.3	12.1	8.7	8.5	10.3	8.7	8.3	9.9	5.2	3.5	4.5	6.5	6.1	8.9	8.6	8.5	12.8	23.1
21	7.5	6.1	7.4	8.7	7.0	6.4	6.5	6.0	4.7	9.6	9.5	8.7	8.2	7.9	8.5	8.4	6.6	7.5	7.2	6.4	7.6	4.9	3.6	2.2	7.0	9.6
22	0.5	0.7	3.4	8.3	10.0	9.5	2.8	3.3	3.0	4.1	5.6	4.6	7.5	7.3	6.8	5.4	6.2	8.8	11.5	5.3	8.9	8.4	5.5	5.8	6.0	11.5
23	13.6	11.5	7.9	12.1	12.8	13.6	10.6	7.4	7.5	6.4	7.6	9.2	5.7	6.6	5.8	6.0	7.3	7.8	6.7	6.7	6.0	5.1	3.7	3.1	7.9	13.6
24	2.7	2.4	2.1	2.3	2.4	2.5	2.5	2.7	3.1	3.2	3.2	3.1	2.5	1.7	1.2	1.2	1.8	1.3	1.1	0.8	0.7	0.7	0.7	0.7	1.9	3.2
25	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.5	1.1	1.3	2.2	K	0.9	1.0	1.0	1.1	1.2	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	2.2
26	1.0	1.1	1.1	1.1	1.1	1.2	1.4	1.6	1.8	1.2	1.1	0.7	3.3	0.9	1.1	1.4	1.0	0.9	1.0	1.1	1.7	1.7	1.5	1.4	1.3	3.3
27	1.1	1.0	0.9	1.3	1.1	1.1	0.8	1.1	1.8	3.4	2.0	0.8	0.8	0.9	0.9	1.1	1.2	0.9	0.8	0.7	0.8	0.9	0.7	0.9	1.1	3.4
28	1.1	1.0	0.5	1.8	2.5	3.6	3.3	1.8	1.5	1.3	1.1	1.1	0.5	0.5	0.6	0.5	0.6	0.9	1.1	1.3	2.1	2.2	2.4	2.6	1.5	3.6
29	2.6	2.7	2.8	2.7	2.6	2.4	2.1	2.0	1.8	1.5	1.4	1.4	1.3	1.3	1.2	1.0	0.9	0.9	1.0	1.0	0.8	1.0	1.1	1.1	1.6	2.8
30	0.9	1.0	0.9	0.8	0.8	0.8	0.9	0.8	0.7	0.8	0.9	1.0	1.1	1.2	0.7	0.6	0.7	0.9	0.8	0.7	0.5	1.1	0.8	0.8	0.8	1.2
31	0.6	0.7	0.5	0.4	0.3	0.6	6.1	3.7	2.8	2.9	3.2	7.1	5.3	4.2	6.8	3.2	1.9	1.5	1.2	1.4	2.3	2.3	2.4	1.2	2.6	7.1
NO.	22	23	21	21	21	21	21	22	22	22	22	22	23	24	24	24	24	24	24	24	24	24	24	25	548	74%
MEAN	7.3	6.9	7.0	7.4	7.5	7.6	7.7	7.7	7.3	6.9	6.6	6.7	6.3	6.6	6.1	5.7	5.3	5.9	7.2	7.1	7.0	7.3	7.1	6.6		
MAX	21.2	22.6	22.5	22.6	25.6	27.2	29.2	31.5	31.8	30.0	28.4	26.6	26.1	25.4	20.8	18.1	18.3	19.6	21.6	21.8	22.8	22.5	22.7	21.9		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	548	
Maximum 1-HR Average	31.8 UG/M3	
Maximum 24-HR Average	23.7 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	6.326	Monthly Average
		548 HRS
		73.7 %
		6.8 UG/M3

West PM₁₀ (µg/m³) – October 2022

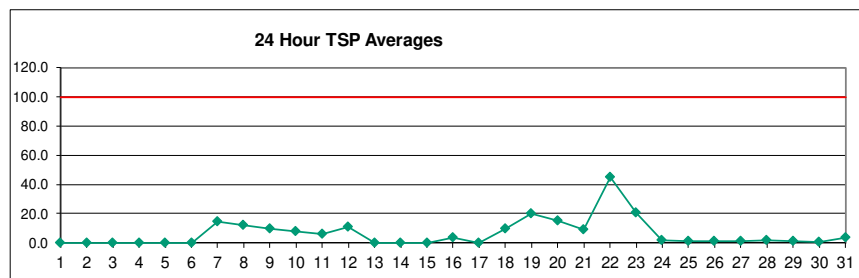
HOUR																											
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	
1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	23.9	22.8	21.9	20.0	22.6	22.8	20.1	19.5	20.1	23.9	27.1	-	-	
7	26.0	24.6	21.2	21.7	19.3	19.1	22.5	23.9	24.2	21.0	21.3	20.4	19.5	15.9	13.5	12.7	12.8	14.3	16.2	18.3	20.5	22.6	21.4	18.7	19.6	26.0	
8	19.1	17.9	17.2	17.6	16.1	15.6	16.7	15.4	15.5	15.5	15.0	15.1	15.0	14.6	11.9	11.5	12.0	15.7	18.4	18.9	20.5	21.1	19.6	16.6	16.4	21.1	
9	14.9	14.7	13.7	13.9	14.0	13.5	14.3	13.8	13.0	12.9	13.0	13.2	14.0	13.3	9.8	8.8	10.4	13.8	16.1	17.0	16.8	13.0	12.0	11.6	13.4	17.0	
10	12.2	11.3	11.4	11.3	12.7	13.0	12.6	11.5	11.5	12.3	11.6	12.5	11.3	9.5	10.2	10.9	9.5	5.8	5.9	3.0	2.8	3.1	10.2	6.7	9.7	13.0	
11	11.3	7.9	4.8	2.6	2.2	3.0	5.3	11.5	7.4	5.3	1.9	2.4	2.3	2.2	2.1	1.6	1.1	1.0	1.2	13.5	9.6	13.2	17.3	13.6	6.0	17.3	
12	13.9	12.3	12.6	6.8	7.5	5.4	5.3	6.8	5.8	4.9	4.4	3.8	4.8	13.4	8.8	7.8	5.2	7.9	32.1	23.2	14.9	18.2	9.6	6.7	10.1	32.1	
13	7.3	5.2	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	9.0	-	-	
15	K	6.3	K	K	K	K	K	K	K	5.3	5.1	4.8	4.6	5.3	6.2	5.1	5.7	11.2	16.5	13.7	11.0	10.6	9.6	8.1	-	-	
16	5.8	5.4	5.1	5.2	4.1	3.9	3.6	3.9	4.1	4.2	4.3	4.0	3.7	3.5	2.9	3.1	3.6	6.4	9.2	6.7	5.5	6.0	5.5	5.1	4.8	9.2	
17	K	K	K	K	K	K	K	6.7	8.6	K	K	7.1	6.5	6.6	5.2	5.3	4.7	7.1	5.9	7.5	7.4	7.6	6.3	6.8	-	-	
18	6.7	7.1	7.2	7.5	7.4	9.3	9.2	11.1	10.8	11.0	11.4	11.3	11.2	11.8	10.6	12.0	12.7	13.9	14.5	16.8	16.8	18.0	17.3	19.5	11.9	19.5	
19	19.7	20.5	22.1	25.1	29.9	30.7	33.5	39.2	41.3	36.2	35.1	32.1	30.8	30.7	27.2	25.0	22.3	23.1	23.2	24.2	25.0	24.4	24.5	23.5	27.9	41.3	
20	22.4	24.0	24.4	23.4	21.7	22.4	24.2	29.3	22.5	14.9	12.5	12.1	14.9	13.0	12.4	14.4	7.7	5.1	6.5	9.6	9.2	13.2	12.9	12.6	16.1	29.3	
21	11.2	9.2	10.9	12.8	10.0	8.6	9.1	8.3	6.4	14.1	14.2	11.2	10.3	9.8	10.5	10.7	8.3	9.4	9.4	8.0	9.4	5.4	3.8	2.5	9.3	14.2	
22	0.6	0.8	6.4	18.8	23.1	24.5	5.3	6.1	9.9	16.5	12.1	12.1	14.7	13.1	9.2	8.9	11.5	18.8	27.6	6.8	16.7	17.2	7.0	8.8	12.4	27.6	
23	30.0	21.5	11.6	23.5	27.3	29.1	18.0	9.5	10.3	7.4	13.0	24.6	8.5	11.1	8.5	8.5	9.8	10.7	7.9	7.3	6.4	5.3	3.8	3.2	13.2	30.0	
24	2.8	2.7	2.3	2.5	2.5	2.6	2.6	2.9	3.4	3.3	3.6	3.4	2.6	1.8	1.2	1.3	2.0	1.4	1.2	0.9	0.7	0.8	0.7	0.7	2.1	3.6	
25	0.6	0.6	0.6	0.6	0.6	0.6	1.7	0.7	1.4	1.6	3.0	K	1.1	1.2	1.3	1.5	1.6	1.0	1.0	0.8	0.8	0.8	1.0	1.0	1.1	3.0	
26	1.1	1.2	1.2	1.1	1.2	1.3	1.5	1.9	2.2	1.4	1.3	0.9	4.9	1.2	1.6	1.9	1.2	1.1	1.3	1.3	2.3	2.3	2.0	1.9	1.6	4.9	
27	1.3	1.1	1.0	1.9	1.4	1.3	1.0	1.5	2.7	5.0	2.9	1.1	1.0	1.0	1.3	1.5	1.1	1.0	0.9	1.1	1.1	0.8	1.1	1.1	1.5	5.0	
28	1.4	1.1	0.6	2.5	3.6	5.1	4.7	2.4	1.9	1.6	1.3	1.5	0.6	0.6	0.8	0.6	0.7	1.1	1.2	1.5	2.6	2.5	2.7	2.9	1.9	5.1	
29	2.9	3.2	3.2	3.0	2.8	2.7	2.4	2.3	2.0	1.6	1.5	1.5	1.4	1.5	1.4	1.3	1.1	1.0	0.9	1.3	1.3	1.0	1.1	1.1	1.8	3.2	
30	0.9	1.2	1.0	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.9	1.1	1.2	1.4	0.8	0.7	0.9	1.0	0.9	0.8	0.6	1.4	1.0	0.9	1.0	1.4	
31	0.7	0.9	0.6	0.5	0.4	0.8	8.9	5.3	3.9	4.3	4.7	10.7	7.9	6.2	10.0	4.6	2.6	2.0	1.6	1.7	2.9	2.6	2.7	1.4	3.7	10.7	
NO.	22	23	21	21	21	21	21	22	22	22	22	22	23	24	24	24	24	24	24	24	24	24	25		548	74%	
MEAN	9.7	8.7	8.5	9.7	9.9	10.2	9.7	9.8	9.5	9.1	8.8	9.4	8.4	8.9	7.9	7.6	7.0	8.2	10.1	9.3	9.3	9.6	9.0				
MAX	30.0	24.6	24.4	25.1	29.9	30.7	33.5	39.2	41.3	36.2	35.1	32.1	30.8	30.7	27.2	25.0	22.3	23.1	23.2	24.2	25.0	24.4	24.5	27.1			



Number of Non-Zero Readings	548		
Maximum 1-HR Average	41.3 UG/M3		
Maximum 24-HR Average	27.9 UG/M3		
IZS Calibration Time		OperatioEI Time	548 HRS
Down Time	0	OperatioEI Uptime	73.7 %
Standard Deviation	8.1	Monthly Average	9.0 UG/M3

West TSP (µg/m³) – October 2022

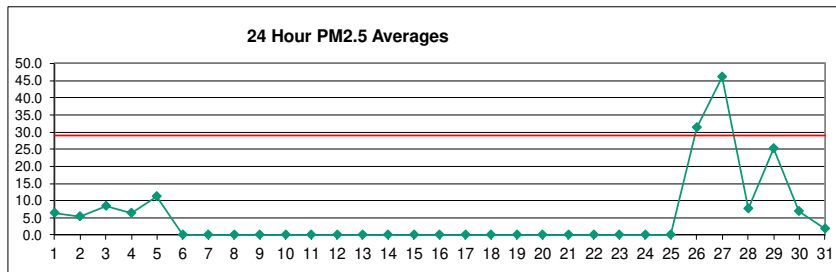
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
7	18.2	17.1	14.2	14.7	12.7	12.8	16.4	18.5	18.6	14.9	14.9	14.4	13.6	10.6	9.6	8.7	9.3	13.8	18.7	19.9	16.6	16.9	15.0	13.2	14.7	19.9
8	13.4	12.4	11.8	12.5	10.9	10.4	11.2	10.2	10.7	10.7	10.1	10.3	10.6	11.4	8.5	9.3	11.5	14.0	16.8	19.8	18.1	15.7	13.6	11.4	12.3	19.8
9	10.4	10.0	9.1	9.4	9.4	8.9	9.5	9.1	8.6	8.5	8.8	9.0	10.1	9.2	6.6	5.9	8.4	11.7	13.0	15.2	12.9	9.3	8.5	8.6	9.6	15.2
10	9.4	8.1	8.1	7.9	9.5	10.4	9.4	8.0	8.0	8.4	8.4	13.4	11.2	8.2	7.7	8.2	7.0	4.3	4.6	2.0	1.8	2.4	11.3	7.2	7.7	13.4
11	12.8	8.9	5.2	2.1	1.5	2.2	4.1	11.0	5.1	5.0	1.6	2.3	2.2	2.1	2.1	1.5	0.9	0.8	1.0	15.6	11.0	15.2	20.1	15.7	6.3	20.1
12	16.0	14.1	14.4	6.9	7.6	4.8	4.4	6.8	5.5	4.6	4.0	3.8	5.0	15.5	10.1	8.8	5.8	8.9	37.3	26.9	17.2	21.1	10.5	6.8	11.1	37.3
13	7.5	5.3	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	4.7	K	K	K	K	K	K	K	3.8	3.6	3.4	3.4	4.4	5.7	4.3	5.4	12.6	19.1	15.4	9.6	8.6	7.4	6.1	-	-
16	4.3	4.1	3.8	3.9	2.9	2.7	2.4	2.8	2.9	3.3	3.4	3.1	2.8	2.6	2.1	2.4	2.9	5.8	8.9	5.6	4.0	4.4	4.1	3.8	3.7	8.9
17	K	K	K	K	K	K	K	5.4	8.1	K	K	5.9	5.0	5.9	4.6	5.1	4.5	7.2	5.6	7.2	6.0	6.3	4.5	4.9	-	-
18	4.8	5.2	5.1	5.2	5.0	6.9	6.8	9.5	11.0	9.9	10.0	10.3	8.9	9.8	10.7	11.4	10.3	10.5	11.2	13.4	12.5	13.0	11.9	13.7	9.5	13.7
19	13.6	13.9	14.8	17.0	20.9	21.5	23.7	28.8	31.7	25.5	25.8	23.0	22.0	22.2	21.2	20.7	15.6	15.8	15.7	16.3	16.8	16.4	16.4	15.6	19.8	31.7
20	14.7	16.0	16.2	15.6	14.6	15.3	17.8	26.9	26.1	17.3	14.3	13.9	17.1	14.8	14.2	16.6	8.6	5.0	6.8	10.4	9.9	15.2	14.4	13.7	14.8	26.9
21	12.1	9.5	11.7	13.4	8.0	6.5	7.3	6.9	5.1	14.8	15.1	12.4	11.4	11.2	11.9	11.2	6.6	10.5	7.7	5.9	6.8	3.5	2.5	1.7	8.9	15.1
22	3.4	0.5	9.0	59.2	84.9	76.5	30.3	52.7	49.5	97.8	125.8	104.1	47.1	36.0	18.0	36.9	39.0	29.3	58.1	9.2	34.6	42.9	8.3	27.0	45.0	125.8
23	86.5	48.5	26.1	47.6	66.7	50.9	13.2	8.1	8.8	5.8	12.4	34.9	9.0	10.1	14.2	7.6	9.9	12.4	5.6	4.7	4.1	3.6	2.5	2.1	20.6	86.5
24	2.0	4.2	3.5	1.7	1.7	1.8	1.7	1.9	2.2	2.2	2.4	2.3	1.7	1.2	0.8	0.9	1.4	1.0	0.8	0.6	0.5	0.5	0.5	0.5	1.6	4.2
25	0.4	0.4	0.4	0.4	0.4	0.4	1.6	0.5	1.0	1.2	3.0	K	0.8	0.9	1.0	1.3	1.4	0.7	0.7	0.6	0.5	0.6	0.6	0.7	0.8	3.0
26	0.7	0.8	0.8	0.7	0.8	0.8	1.0	1.3	1.6	1.0	1.0	0.6	5.5	1.1	1.4	1.8	1.0	0.8	1.0	1.0	2.1	2.1	1.8	1.6	1.4	5.5
27	1.0	0.8	0.7	1.8	1.3	0.9	0.7	1.3	2.8	5.7	3.2	1.0	0.9	0.7	0.7	0.9	1.1	0.8	0.7	0.6	0.8	0.9	0.6	0.8	1.3	5.7
28	1.1	0.8	0.4	2.3	3.6	4.4	3.7	1.8	1.3	1.1	0.9	1.1	0.4	0.4	0.6	0.4	0.5	0.7	0.8	1.0	1.9	1.7	1.8	1.9	1.4	4.4
29	2.0	2.1	2.2	2.0	1.9	1.8	1.7	1.6	1.3	1.1	1.0	1.0	0.9	1.0	0.9	0.9	0.7	0.6	0.6	1.0	1.1	0.8	0.8	0.7	1.2	2.2
30	0.6	0.8	0.8	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.7	0.8	1.0	0.6	0.5	0.6	0.7	0.6	0.6	0.4	1.0	0.8	0.6	0.7	1.0
31	0.5	0.6	0.4	0.3	0.2	0.6	8.9	5.3	3.8	4.1	4.7	11.9	8.8	6.8	11.3	4.8	2.4	1.7	1.2	1.2	2.0	1.7	1.8	0.9	3.6	11.9
NO.	22	23	21	21	21	21	21	22	22	22	22	22	23	24	24	24	24	24	24	24	24	24	24	25	548	74%
MEAN	10.7	8.2	7.5	10.7	12.6	11.5	8.4	10.0	9.7	11.2	12.5	12.9	8.7	8.8	7.9	8.1	7.4	8.0	10.8	9.0	8.9	9.5	7.5	7.6		
MAX	86.5	48.5	26.1	59.2	84.9	76.5	30.3	52.7	49.5	97.8	125.8	104.1	47.1	36.0	26.3	36.9	39.0	29.3	58.1	26.9	34.6	42.9	21.3	27.0		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	548	
Maximum 1-HR Average	125.8 UG/M3	
Maximum 24-HR Average	45.0 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	13.25	Monthly Average
		548 HRS
		73.7 %
		9.5 UG/M3

Berm PM_{2.5} (µg/m³) – October 2022

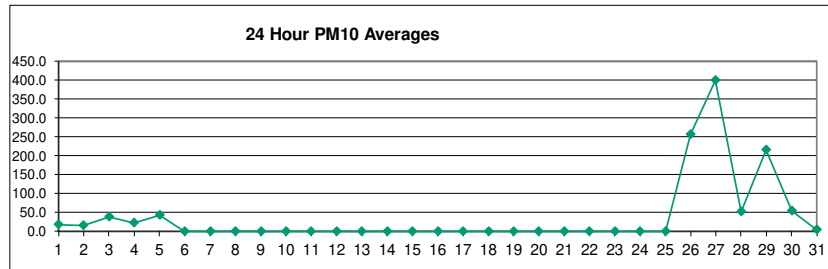
HOUR																										
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	X	6.4	6.4	6.8	7.0	6.4	6.6	6.7	7.8	7.7	7.7	9.7	14.4	9.5	7.1	3.6	3.3	3.8	3.8	3.7	4.3	4.1	4.5	5.0	6.4	14.4
2	5.3	6.1	6.7	5.3	5.7	5.7	5.8	5.4	7.1	6.1	7.4	7.2	9.5	7.1	3.1	3.3	3.6	3.2	3.2	4.4	3.4	4.1	4.2	4.5	5.3	9.5
3	5.5	4.7	5.4	4.9	4.9	4.8	7.5	10.9	6.7	5.1	5.5	9.4	8.5	21.8	28.0	23.2	17.8	5.5	3.1	4.6	3.6	4.2	4.3	3.5	8.5	28.0
4	4.5	4.6	4.2	4.5	4.3	8.8	7.6	7.6	7.7	9.0	10.2	7.0	14.0	7.2	4.0	3.4	2.9	3.8	4.2	6.6	7.5	6.2	6.8	6.9	6.4	14.0
5	7.2	6.6	5.6	6.2	6.2	10.8	10.4	8.9	12.1	14.1	17.4	13.0	16.8	14.8	14.5	14.8	12.4	10.7	11.0	11.0	21.6	7.4	6.1	6.4	11.1	21.6
6	5.8	5.4	5.7	6.2	6.7	7.8	8.0	13.7	16.6	24.7	18.1	16.0	17.4	11.7	12.3	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
13	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
14	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
19	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
21	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
22	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
23	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
24	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	17.4	18.0	6.3	13.1	21.8	22.2	18.3	29.0	23.0	15.6	-	-
26	12.2	23.0	7.6	6.0	2.4	4.1	9.4	8.0	9.7	45.1	34.8	34.5	82.9	60.6	53.0	50.6	29.8	38.4	34.1	25.7	22.1	51.1	53.1	52.3	31.3	82.9
27	31.5	40.0	19.7	84.3	115.8	38.6	74.1	38.1	69.3	229.0	63.4	46.3	49.2	57.9	22.7	24.7	12.8	19.3	28.2	26.8	3.9	6.9	2.5	1.0	46.1	229.0
28	4.7	4.8	3.9	0.5	0.8	1.4	3.7	5.2	4.9	4.4	2.6	4.2	4.6	3.3	5.5	7.1	2.9	6.6	14.6	15.4	10.8	23.1	34.1	13.6	7.6	34.1
29	9.2	14.5	22.8	19.6	16.1	7.9	12.6	15.6	33.1	31.5	19.9	16.0	24.6	24.7	20.2	28.1	47.2	43.0	48.2	52.0	61.4	15.9	15.9	6.5	25.3	61.4
30	7.1	6.4	14.6	8.8	4.0	3.5	4.4	26.7	13.4	16.0	20.3	8.1	8.5	8.1	3.7	1.8	1.5	2.8	1.1	0.9	1.6	1.0	0.8	0.7	6.9	26.7
31	0.9	1.1	1.9	2.4	0.7	0.9	1.6	4.6	1.8	1.8	1.1	2.8	3.3	3.8	2.0	1.8	1.4	1.0	2.2	1.7	1.4	1.1	1.5	0.4	1.8	4.6
NO.	11	12	12	12	12	12	12	12	12	12	12	12	12	12	13	12	12	12	12	12	12	12	12	12	288	39%
MEAN	8.5	10.3	8.7	12.9	14.5	8.4	12.6	12.6	15.8	32.9	17.3	14.5	21.2	19.2	14.9	15.0	11.8	12.6	14.6	14.6	13.3	12.8	13.1	9.7		
MAX	31.5	40.0	22.8	84.3	115.8	38.6	74.1	38.1	69.3	229.0	63.4	46.3	82.9	60.6	53.0	50.6	47.2	43.0	48.2	52.0	61.4	51.1	53.1	52.3		



Number of 24HR Exceedences	2	Proposed Guideline
Number of Non-Zero Readings	288	
Maximum 1-HR Average	229.0 UG/M3	
Maximum 24-HR Average	46.1 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	20.5	Operational Uptime
		Monthly Average
		288 HRS
		38.7 %
		14.3 UG/M3

Berm PM₁₀ (µg/m³) – October 2022

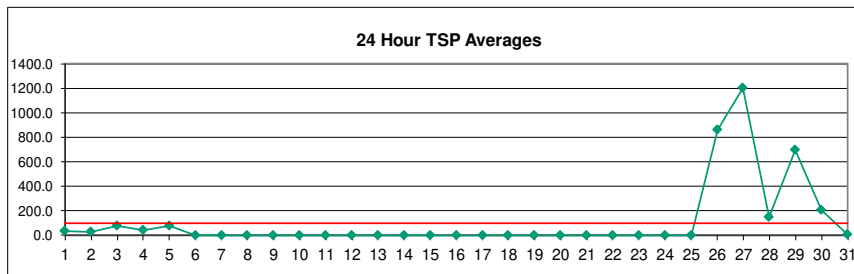
DAY	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	X	7.8	8.2	8.6	8.3	7.4	7.8	8.6	10.9	13.0	24.2	37.3	95.0	50.8	29.1	10.1	7.1	8.4	6.3	6.1	8.3	6.9	6.6	8.9	16.8	95.0	
2		11.0	16.1	17.6	9.9	10.0	11.2	12.1	9.0	29.1	20.8	32.2	33.1	41.3	27.2	7.7	9.7	11.2	9.5	6.7	12.0	6.0	6.2	6.0	8.2	15.2	41.3
3		11.4	8.5	8.7	7.1	6.4	6.8	15.8	51.0	25.9	10.1	13.5	35.7	37.5	126.7	187.7	153.1	129.2	27.8	6.9	12.3	5.6	7.6	10.3	4.4	37.9	187.7
4		8.7	7.7	5.4	6.2	6.3	28.3	20.0	23.0	30.4	44.6	54.2	26.4	84.7	37.4	14.4	9.0	6.6	9.8	9.0	24.6	28.0	19.7	20.9	19.5	22.7	84.7
5		19.6	18.5	12.2	14.1	14.4	46.1	42.1	28.2	56.6	82.9	101.1	64.1	84.7	56.0	41.9	48.2	32.3	28.4	34.4	37.2	73.7	27.0	16.3	15.4	41.5	101.1
6		12.0	9.7	9.6	8.5	9.1	11.2	11.3	20.5	48.0	163.1	98.9	74.3	81.0	24.6	26.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
7		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
8		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
9		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
10		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
13		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
14		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
15		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
16		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
17		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
18		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
19		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
20		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
21		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
22		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
23		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
24		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
25		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	147.4	174.2	61.9	132.8	177.1	198.5	135.0	237.1	172.5	106.1	-	-
26		93.5	182.3	49.3	41.4	9.7	24.5	81.1	67.3	85.8	385.6	258.4	253.8	685.1	500.7	418.0	412.7	229.4	295.4	249.1	202.6	202.5	439.7	467.8	496.6	255.5	685.1
27		307.9	312.0	130.8	728.0	1051.4	324.1	377.4	333.0	659.5	2066.4	658.4	448.5	488.4	534.6	191.5	203.4	104.0	154.5	235.3	216.6	22.6	51.0	14.1	1.9	400.6	2066.4
28		38.9	34.9	22.1	1.1	1.4	1.6	5.5	7.7	7.0	6.4	3.8	6.3	6.7	4.8	8.2	37.2	15.0	43.0	128.5	134.9	96.5	208.8	299.1	96.3	50.6	299.1
29		72.2	115.3	208.9	169.5	148.7	54.7	125.1	141.3	321.5	228.6	150.6	136.0	213.7	203.4	140.0	245.4	377.8	345.9	393.6	463.7	605.1	142.2	127.1	38.1	215.3	605.1
30		53.0	54.8	146.1	73.1	26.7	19.5	29.5	191.0	94.5	126.5	185.3	74.1	73.4	75.3	23.5	9.3	3.9	6.2	3.0	1.7	6.1	2.8	1.4	0.9	53.4	191.0
31		1.2	1.6	2.8	3.6	0.9	1.0	2.1	6.9	2.5	2.6	1.4	4.2	17.6	25.7	10.8	9.1	3.6	1.7	2.9	2.1	1.9	1.3	1.8	0.5	4.6	25.7
NO.	11	12	12	12	12	12	12	12	12	12	12	12	12	12	13	12	12	12	12	12	12	12	12	12	12	288	39%
MEAN	57.2	64.1	51.8	89.3	107.8	44.7	60.8	73.9	114.3	262.6	131.8	99.5	159.1	138.9	95.9	110.1	81.8	88.6	104.4	109.4	99.3	95.9	95.3	66.4			
MAX	307.9	312.0	208.9	728.0	1051.4	324.1	377.4	333.0	659.5	2066.4	658.4	448.5	488.5	685.1	534.6	418.0	412.7	377.8	345.9	393.6	463.7	605.1	439.7	467.8	496.6		



Number of Non-Zero Readings	288
Maximum 1-HR Average	2066.4 UG/M3
Maximum 24-HR Average	400.6 UG/M3
Monthly Calibration	0
Standard Deviation	188.1
Operational Time	288 HRS
Operational Uptime	38.7 %
Monthly Average	100.3 UG/M3

Berm TSP (µg/m³) – October 2022

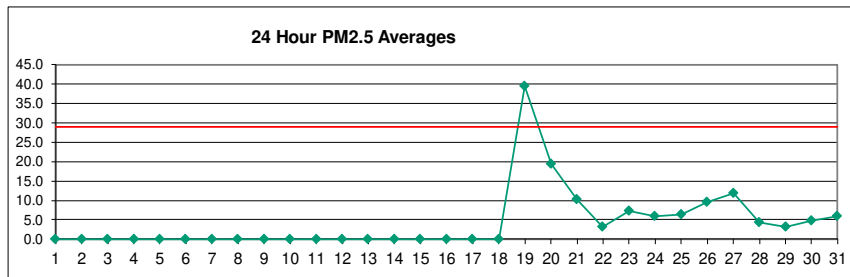
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	X	5.1	5.5	5.9	5.5	5.0	5.3	6.6	10.3	23.3	71.9	93.4	302.2	122.5	41.6	10.5	7.5	18.9	5.9	6.7	9.7	7.1	9.3	10.4	34.3	302.2
2	18.9	25.4	33.6	10.7	6.8	15.8	18.4	10.3	94.7	42.7	77.2	71.5	63.3	36.3	14.0	13.9	20.8	15.8	7.9	15.2	6.8	4.9	7.4	9.4	26.7	94.7
3	14.4	11.5	8.5	9.1	6.1	10.8	30.2	110.0	44.0	14.8	23.1	71.9	63.2	212.8	384.5	384.1	315.1	52.0	7.6	17.2	4.0	6.6	15.0	4.3	75.9	384.5
4	6.1	5.6	4.1	5.6	10.8	55.7	37.2	49.8	76.5	109.4	118.6	48.7	169.9	68.1	17.7	12.7	7.2	15.4	9.0	33.1	35.1	22.3	24.9	23.1	40.3	169.9
5	19.2	17.2	10.8	13.1	20.4	87.3	87.5	61.1	142.6	214.9	215.9	123.6	150.8	82.1	62.1	70.8	41.6	36.8	47.1	62.2	136.2	51.5	25.6	16.3	74.9	215.9
6	9.7	9.5	8.5	5.8	6.2	9.7	9.5	21.6	105.2	505.1	247.2	159.7	150.4	30.9	29.5	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
13	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
14	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
19	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
20	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
21	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
22	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
23	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
24	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	572.4	690.9	278.8	416.1	430.0	535.3	325.9	656.0	431.3	229.4	-	-
26	277.7	581.0	161.4	140.8	31.8	62.1	283.9	230.8	271.6	1048.6	645.7	727.0	2391.0	1755.2	1480.0	1512.7	825.2	1026.9	738.6	633.2	768.1	1558.2	1660.3	1852.6	861.0	2391.0
27	1338.3	1009.7	388.7	1933.8	2824.9	1210.4	1267.4	1214.5	2169.1	3886.8	2232.3	1893.7	1974.8	1909.6	670.8	723.0	345.3	450.5	646.9	596.8	66.8	140.8	35.8	3.8	1205.6	3886.8
28	141.7	109.6	45.8	1.1	1.1	1.2	5.9	8.2	6.9	6.3	3.5	6.7	6.8	4.9	8.8	93.4	51.5	126.4	370.1	414.4	321.4	645.4	870.3	269.4	146.7	870.3
29	287.9	392.9	663.5	544.9	641.7	234.0	559.3	580.6	1173.5	522.2	336.9	321.7	552.3	467.0	340.1	792.1	1142.1	1220.2	1167.4	1592.8	2123.7	569.0	452.3	131.0	700.4	2123.7
30	228.8	259.0	653.3	299.3	111.5	81.6	114.9	533.5	258.0	454.0	727.6	332.4	327.9	340.9	90.9	30.9	13.3	9.3	7.7	1.6	4.5	2.6	1.5	0.7	203.6	727.6
31	1.0	1.4	3.0	3.7	0.8	0.8	1.7	7.6	2.2	2.6	1.1	4.3	42.2	52.9	23.8	17.2	6.9	1.2	2.3	1.5	1.6	1.0	1.3	0.4	7.6	52.9
NO.	11	12	12	12	12	12	12	12	12	12	12	12	12	12	13	12	12	12	12	12	12	12	12	12	288	39%
MEAN	213.1	202.3	165.5	247.8	305.6	147.9	201.7	236.2	362.9	569.2	391.8	321.2	516.2	423.6	287.4	362.7	254.6	282.5	286.7	325.8	317.0	305.4	294.6	212.6		
MAX	1338.3	1009.7	663.5	1933.8	2824.9	1210.4	1267.4	1214.5	2169.1	3886.8	2232.3	1893.7	2391.0	1909.6	1480.0	1512.7	1142.1	1220.2	1167.4	1592.8	2123.7	1558.2	1660.3	1852.6		



Number of 24HR Exceedences	5	Proposed Guideline
Number of Non-Zero Readings	288	
Maximum 1-HR Average	3886.8 UG/M3	
Maximum 24-HR Average	1205.6 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	538.8	Monthly Average
		288 HRS
		38.7 %
		301.7 UG/M3

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

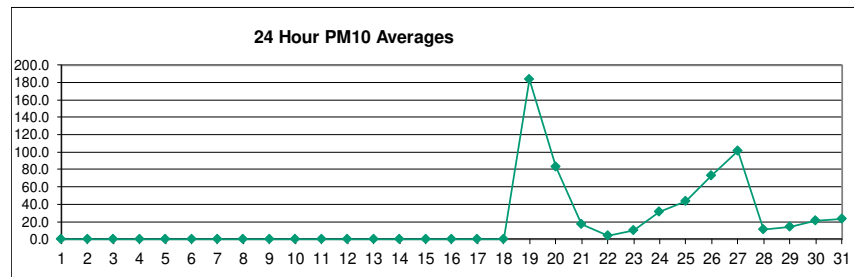
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
13	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
14	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	22.3	30.7	35.1	31.8	36.1	28.0	16.4	29.1	-	-
19	30.2	40.1	25.7	28.0	46.9	47.1	77.6	57.1	63.8	71.4	76.5	49.0	35.6	37.9	27.0	25.0	25.3	26.3	23.5	25.5	25.8	31.2	26.6	26.5	39.6	77.6
20	24.8	31.5	47.3	39.9	21.6	23.6	29.3	44.9	29.5	20.5	17.7	16.9	11.9	14.9	13.8	13.7	10.2	5.8	7.0	9.6	6.1	10.7	8.1	7.6	19.5	47.3
21	6.1	7.8	6.2	5.4	4.9	4.5	4.9	4.2	4.4	8.4	29.5	26.2	21.9	20.9	21.0	16.2	16.2	7.4	11.1	6.4	5.5	4.8	3.1	1.4	10.3	29.5
22	0.2	0.4	1.1	1.1	1.4	1.3	1.1	1.6	1.6	3.0	4.0	3.8	4.7	5.0	5.0	5.4	5.0	4.6	4.1	4.2	3.8	3.3	3.7	3.8	3.0	5.4
23	4.9	5.8	5.6	5.8	5.7	6.3	6.4	6.5	7.0	6.8	4.7	4.1	4.6	4.4	5.0	6.7	7.6	7.1	6.5	11.9	9.8	16.8	11.1	11.0	7.2	16.8
24	7.7	4.3	2.5	3.7	4.4	4.7	4.6	6.3	6.4	8.0	7.7	7.2	9.6	9.5	7.3	9.1	3.6	4.0	4.4	2.1	5.4	5.3	5.2	7.2	5.8	9.6
25	2.3	1.3	2.0	2.5	5.2	4.4	4.4	5.7	6.1	11.1	11.8	9.7	12.8	9.8	12.5	15.0	10.4	7.2	5.8	3.2	4.2	1.7	1.8	1.3	6.3	15.0
26	8.5	3.8	3.7	2.9	5.7	6.5	7.5	7.5	17.8	11.3	15.5	16.6	19.1	13.9	11.3	14.6	8.2	7.8	3.4	2.4	3.4	9.4	20.7	9.6	9.6	20.7
27	17.4	6.3	2.4	3.8	23.1	4.4	5.0	7.1	10.7	42.4	29.9	35.2	23.5	30.0	6.1	6.3	5.9	5.4	4.1	1.8	1.9	4.0	4.9	4.0	11.9	42.4
28	10.8	5.6	2.8	1.0	0.9	1.3	2.4	4.8	4.7	8.2	6.8	2.4	11.6	13.2	4.2	1.7	1.5	1.3	2.0	1.9	2.8	2.9	2.5	3.6	4.2	13.2
29	4.4	5.2	4.4	6.0	5.6	3.1	4.0	4.8	4.2	2.6	3.3	3.6	4.8	2.3	2.1	2.1	1.3	3.2	1.2	1.9	2.2	1.9	1.6	1.5	3.2	6.0
30	1.9	2.6	5.3	2.0	1.1	1.0	2.5	5.7	4.4	7.9	10.0	5.7	4.9	7.7	6.1	8.0	5.3	10.0	3.0	3.2	2.1	2.2	4.5	5.5	4.7	10.0
31	6.0	6.9	1.8	4.3	6.6	4.6	2.7	4.5	2.4	1.9	1.7	8.9	18.3	14.3	11.5	21.1	1.8	1.1	1.9	3.4	2.3	4.1	7.2	2.8	5.9	21.1
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	320	43%
MEAN	9.6	9.4	8.5	8.2	10.2	8.7	11.7	12.4	12.5	15.7	16.9	14.6	14.1	14.1	10.2	11.2	8.9	8.7	8.1	7.8	7.9	9.0	8.4	8.2		
MAX	30.2	40.1	47.3	39.9	46.9	47.1	77.6	57.1	63.8	71.4	76.5	49.0	35.6	37.9	27.0	25.0	25.3	30.7	35.1	31.8	36.1	31.2	26.6	29.1		



Number of 24HR Exceedences	1	Proposed Guideline
Number of Non-Zero Readings	320	
Maximum 1-HR Average	77.6 UG/M3	
Maximum 24-HR Average	39.6 UG/M3	
Monthly Calibration	0	
Standard Deviation	12.43	
Operational Time	320 HRS	
Operational Uptime	43.0 %	
Monthly Average	10.6 UG/M3	

Entrance PM₁₀ (µg/m³) – October 2022

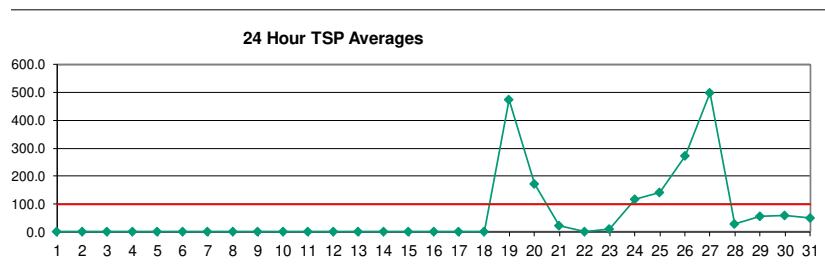
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
12	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
13	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
14	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-
18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	122.1	186.5	239.9	204.9	246.8	161.7	36.8	144.7	-	-
19	148.5	220.6	88.8	78.4	229.4	231.4	489.3	315.0	364.8	422.3	419.6	224.9	160.6	184.5	94.8	107.4	88.7	104.2	58.3	63.4	56.8	123.9	76.1	63.3	183.9	489.3
20	65.0	97.6	224.6	165.8	37.6	50.2	108.0	271.9	131.0	116.7	90.2	89.8	67.7	82.8	73.8	87.4	57.5	26.0	36.2	46.4	20.5	16.1	12.1	11.4	82.8	271.9
21	9.1	11.7	9.2	7.9	6.5	5.4	6.5	5.0	5.6	12.1	44.3	39.3	32.7	31.2	61.7	36.5	23.7	9.6	15.6	7.9	6.1	5.2	3.3	1.5	16.6	61.7
22	0.3	0.5	1.5	1.4	1.9	1.7	1.4	1.8	1.9	3.6	4.3	4.3	5.1	5.2	5.4	6.4	5.8	4.9	4.3	4.8	4.0	3.3	3.9	4.3	3.4	6.4
23	5.2	6.2	5.9	5.9	5.8	6.6	6.5	7.3	8.0	8.6	5.0	4.2	6.0	5.7	9.6	9.2	9.9	8.4	8.0	17.6	14.7	25.2	16.6	39.1	10.2	39.1
24	30.8	19.8	7.1	14.5	23.0	18.2	18.8	34.3	32.7	33.7	43.2	37.6	62.7	69.9	55.5	67.1	16.3	22.1	26.4	7.5	22.9	20.9	24.0	34.2	31.0	69.9
25	7.8	3.3	5.7	9.8	20.8	23.9	30.9	19.8	49.8	93.2	95.7	80.8	99.3	76.4	95.7	99.2	70.5	46.1	43.4	19.5	24.0	9.4	8.7	3.2	43.2	99.3
26	24.3	27.2	21.2	13.7	28.1	35.4	48.8	48.3	108.8	99.5	144.1	143.2	165.2	112.6	89.3	122.1	61.4	54.7	19.5	12.4	20.3	80.9	198.5	74.1	73.1	198.5
27	168.4	53.7	11.8	32.1	231.9	29.8	32.9	48.3	77.5	376.9	285.3	312.4	221.5	287.3	50.6	41.4	33.1	29.5	26.5	7.5	9.9	13.6	36.4	24.2	101.8	376.9
28	70.6	25.6	13.9	4.1	1.2	1.7	3.4	7.0	6.8	12.2	10.1	3.4	17.3	27.1	6.4	7.0	4.4	2.5	9.6	6.2	9.1	7.7	5.4	11.0	11.4	70.6
29	17.5	18.0	17.2	19.3	28.7	8.2	15.8	22.3	23.5	9.0	15.8	18.0	33.2	7.2	6.7	8.4	3.0	17.8	3.4	9.3	13.4	9.7	5.4	3.2	13.9	33.2
30	4.9	9.3	21.8	8.4	2.4	1.6	13.4	44.0	33.9	59.1	75.4	27.4	25.4	29.9	22.0	28.3	20.8	40.8	10.3	12.0	5.8	3.3	6.7	8.3	21.5	75.4
31	8.9	10.4	2.5	6.4	9.8	6.8	3.9	6.7	3.3	2.6	2.3	13.3	79.0	99.8	97.4	158.8	8.6	1.4	2.4	5.0	3.0	5.8	10.5	4.1	23.0	158.8
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	320	43%
MEAN	43.2	38.8	33.2	28.3	48.2	32.4	59.9	64.0	65.2	96.1	95.0	76.8	75.1	78.4	51.5	59.9	37.6	39.6	36.0	30.3	32.7	34.8	31.7	30.5		
MAX	168.4	220.6	224.6	165.8	231.9	231.4	489.3	315.0	364.8	422.3	419.6	312.4	221.5	287.3	97.4	158.8	122.1	186.5	239.9	204.9	246.8	161.7	198.5	144.7		



Number of Non-Zero Readings	320	Operational Time	320 HRS
Maximum 1-HR Average	489.3 UG/M3	Operational Uptime	43.0 %
Maximum 24-HR Average	183.9 UG/M3	Monthly Average	50.4 UG/M3
Monthly Calibration	0		
Standard Deviation	76.52		

Entrance TSP ($\mu\text{g}/\text{m}^3$) – October 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	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
10	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
11	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
12	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
13	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
14	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
17	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-		
18	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	291.4	224.2	337.8	420.3	654.2	371.8	62.4	383.5	-	-		
19	414.9	546.9	205.5	168.9	616.1	643.6	1491.4	963.6	1063.1	1178.2	884.1	437.9	445.0	538.1	215.4	253.6	150.8	226.9	104.7	136.7	99.9	322.3	174.7	94.9	🟢	474.1	🟢	1491.4
20	162.6	170.3	374.9	225.7	48.4	70.0	224.6	530.3	322.7	384.3	210.6	201.9	159.0	203.6	171.0	277.4	151.9	66.0	73.7	61.1	21.7	18.1	13.3	12.2	🟢	173.1	🟢	530.3
21	9.5	12.4	9.7	7.5	4.5	3.6	4.7	3.5	4.6	12.9	50.2	43.8	36.1	33.9	152.9	64.7	25.3	8.0	15.4	6.1	4.1	3.4	2.1	0.9	🟢	21.7	🟢	152.9
22	0.2	0.4	1.2	1.3	1.6	1.2	1.0	1.3	1.3	2.8	3.0	3.3	3.5	3.4	3.7	4.8	4.2	3.2	2.9	3.2	2.6	2.2	2.6	2.9	🟢	2.4	🟢	4.8
23	3.4	4.1	3.9	3.9	3.8	4.3	4.2	4.8	5.3	5.9	3.3	2.7	7.3	11.5	15.3	7.4	7.4	5.6	5.9	17.7	15.1	28.7	18.4	92.0	🟢	11.7	🟢	92.0
24	97.6	92.8	70.9	71.5	127.6	79.5	104.0	128.5	208.5	166.5	208.4	158.9	242.5	250.4	212.1	252.6	33.9	58.4	68.1	10.0	33.6	32.7	43.1	49.1	🟢	116.7	🟢	252.6
25	22.9	13.0	9.3	28.8	40.6	84.4	330.9	75.2	213.1	273.1	290.3	264.5	378.0	244.7	338.4	291.1	192.9	95.8	79.1	45.4	58.6	41.0	24.3	5.1	🟢	143.4	🟢	378.0
26	64.6	141.7	91.5	34.8	51.7	52.1	135.9	114.8	225.5	288.1	404.2	396.9	600.8	554.4	395.8	600.6	266.9	205.8	71.1	44.3	98.5	412.0	927.2	395.1	🟢	273.9	🟢	927.2
27	947.6	331.7	65.1	148.8	1268.2	195.5	147.5	208.1	306.0	1788.5	1218.3	1505.7	1258.0	1716.0	297.6	174.3	101.5	56.4	85.2	15.2	30.2	22.3	58.0	51.7	🟢	499.9	🟢	1788.5
28	227.3	49.1	22.1	9.0	1.0	1.3	2.7	6.5	6.8	13.0	10.7	3.4	19.3	53.3	10.1	41.2	7.3	3.5	33.1	23.0	38.4	29.2	14.6	39.2	🟢	27.7	🟢	227.3
29	92.9	65.6	70.2	95.3	144.2	28.9	53.8	89.2	144.8	32.8	35.6	42.7	98.9	15.3	17.4	22.2	7.2	76.7	9.0	44.1	61.4	61.4	28.9	8.0	🟢	56.1	🟢	144.8
30	12.3	27.5	74.0	22.3	11.6	3.0	58.7	165.6	135.7	217.3	292.4	76.5	84.0	56.6	36.9	39.0	31.0	45.6	17.7	15.8	11.0	3.4	7.3	8.9	🟢	60.6	🟢	292.4
31	9.4	11.4	2.5	6.7	10.9	7.1	3.5	7.2	3.2	2.4	2.1	15.0	195.1	253.4	284.5	331.7	16.1	1.2	1.7	4.7	2.2	5.2	10.4	4.0	🟢	49.6	🟢	331.7
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14		320		43%
MEAN	158.9	112.8	77.0	63.4	179.2	90.4	197.2	176.8	203.1	335.8	277.9	242.5	271.4	302.7	165.5	181.6	92.0	76.9	64.7	60.6	80.8	96.7	99.1	82.0				
MAX	947.6	546.9	374.9	225.7	1268.2	643.6	1491.4	963.6	1063.1	1788.5	1218.3	1505.7	1258.0	1716.0	395.8	600.6	291.4	226.9	337.8	420.3	654.2	412.0	927.2	395.1				



Number of 24HR Exceedences	6	Proposed Guideline	
Number of Non-Zero Readings	320		
Maximum 1-HR Average	1788.5 UG/M3		
Maximum 24-HR Average	499.9 UG/M3		
		Operational Time	320 HRS
Monthly Calibration	0	Operational Uptime	43.0 %
Standard Deviation	270.1	Monthly Average	151.9 UG/M3