

LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

MARCH 2025

APRIL 28, 2025





AMBIENT AIR QUALITY MONTHLY REPORT

MARCH 2025

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: APRIL 28, 2025

WSP
SUITE 1000
840 HOWE STREET
VANCOUVER, BC, CANADA V6Z 2M1

T: +1 604 685-9381
F: +1 604 683-8655
WSP.COM



April 28, 2025

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

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – March 2025

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 March 2025.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	100.0%	-	0
PM _{2.5}	100.0%	0	0
PM ₁₀	100.0%	-	-
NO	100.0%	-	-
NO ₂	100.0%	0	-
NO _x	100.0%	-	-
SO ₂	100.0%	0	0
Temperature	100.0%	-	-
Wind Speed / Direction	100.0%	-	-
Pressure	100.0%	-	-
Relative Humidity	100.0%	-	-
Precipitation	100.0%	-	-

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VANCOUVER, BC, CANADA V6Z 2M1

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F: +1 604 683-8655
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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAOs) or Guidelines (AAAQG) at the Windridge Station for March 2025.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM _{2.5} AAAQO	Exceedances of TSP AAAQO
TSP	99.5%	-	-	6
PM_{2.5}	99.6%	0	0	-
PM₁₀	99.5%	-	-	-

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 March 2025.

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	0%	0	0	0
Berm	100%	0	0	6
Entrance	0%	0	0	0

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 Principal Air Quality
Specialist, Vancouver Region

SIGNATURES

PREPARED BY



April 28, 2025

Yuhao Hua, M.A.Sc., M.Sc.
Air Quality Specialist
Vancouver Region, Environment

Date

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



April 28, 2025

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

Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and are a requirement of Lafarge's Approval 1702-02-04. This report contains data collected between March 1, 2025 and March 31, 2025.

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

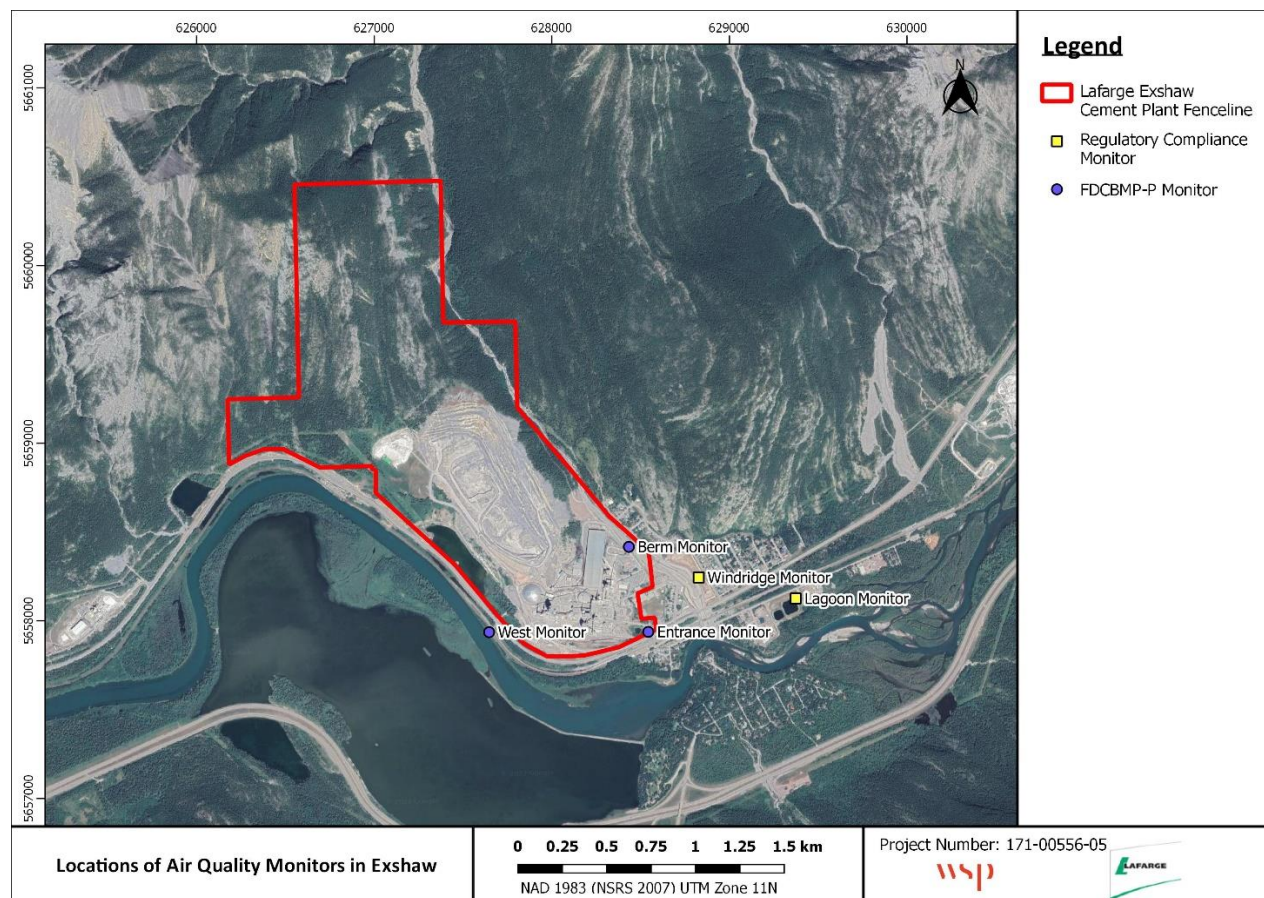


Figure 1-1 Locations of Air Quality Monitors in Exshaw

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. 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.

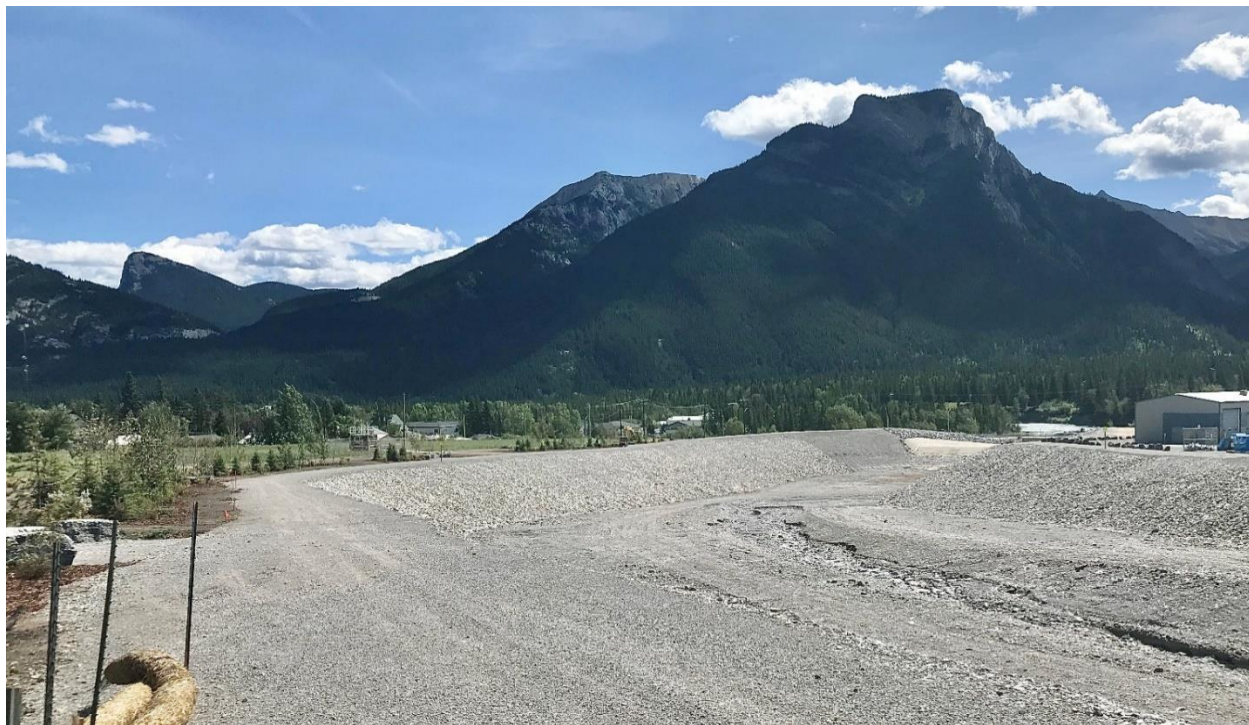


Figure 1-2 Photo of Completed Flood Mitigation Work at Exshaw Creek

2 MARCH 2025 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}, if any, 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	42.4	0	12.6	-
SO ₂ (ppb)	100.0	14.6	0	2.7	0
PM _{2.5} (µg/m ³)	100.0	76.8	0 ¹	10.4	0
PM ₁₀ (µg/m ³)	100.0	115.2	-	33.7	-
TSP (µg/m ³)	100.0	195.6	-	57.6	0
Temperature (°C)	100.0	13.6	-	7.6	-
Wind Speed (km/hr) /Direction (Degrees)	100.0	44.5/W	-	30.9/WSW	-
Precipitation (mm)	100.0	1.5 ²	-	15.75 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) – freezing temperatures can impact the precipitation totals in winter months

³ Monthly Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQO.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were no exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station, NO₂ and SO₂ analyzers recorded 100% uptime for the month of March.
- The TSP, PM₁₀ and PM_{2.5} analyzer recorded 100% uptime for the month of March.
- The meteorological sensors recorded 100% uptime for the month of March.

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)	99.6	14.0	0*	7.1	0
PM ₁₀ (µg/m ³)	99.5	251.0	-	80.8	-
TSP (µg/m ³)	99.5	451.0	-	140.8	6

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

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQO.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 6 exceedances of the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Windridge station, the PM_{2.5} analyzer recorded 99.6% uptime for the month of March due to 3 hours of equipment malfunction at 17:00 on March 1st, 3:00 on March 3rd and 7:00 on March 5th.
- At the Windridge station, the TSP, PM₁₀ and PM_{2.5} analyzers recorded 99.5% uptime for the month of March due to 4 hours of equipment malfunction at 17:00 on March 1st, 3:00 on March 3rd, 7:00 on March 5th and 1:00 on March 7th.

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.

Calibration/Maintenance Notes:

- The analyzer had 0% uptime for the month of March due to an instrument error currently being resolved.

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 2-3 Berm station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} (µg/m ³)	100.0	37.8	0*	12.5	0
PM ₁₀ (µg/m ³)	100.0	233.7	-	63.2	-
TSP (µg/m ³)	100.0	946.7	-	230.8	6

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

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} Guidelines.
- There were no exceedances of the 1-hour PM_{2.5} Guidelines.
- There were 6 exceedances of the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer had 100% uptime for the month of March.

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.

Calibration/Maintenance Notes:

The analyzer had 0% uptime for the month of March due to an instrument error currently being resolved.

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), a table of recorded exceedances (**Error! Reference source not found.**), site visit notes and tables and graphs illustrating the monitoring results for March 2025.

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 March 6 th . The monitor had 100% uptime for the month of March.
PM ₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on March 6 th . The monitor had 100% uptime for the month of March.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on March 6 th . The monitor had 100% uptime for the month of March.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on March 4 th . The monitor had 100% uptime for the month of March.
Sulphur Dioxide	Teledyne API 102A	The SO ₂ monitor was calibrated on March 4 th . The monitor had 100% uptime for the month of March.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime for the month of March.
Wind Speed	MetOne Wind Sensor	The monitor had 100% uptime for the month of March.
Wind Direction		

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

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in March 2025. 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 March 2025 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 no exceedances of the 24-hour TSP AAAQO (100 µg/m³). There were no exceedances the 24-hour PM_{2.5} AAAQO (29 µg/m³). Further, there were no exceedances of the 1-hour PM_{2.5} AAAQG (80 µg/m³) at the station this month.

Historically in March, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances were both 0. The maximum number of 24-hour TSP AAAQO exceedances recorded in March were 1 day in 2015 and 2021. The maximum number of 24-hour PM_{2.5} AAAQO exceedances recorded in March was 1 day in 2018.

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 March 2025 data at Lagoon

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/h r)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO ₂ (ppb)	159	-	Lagoon	0	-	0.5	7.0	42.4	18	7	2.2	69.3	12.6	16	100.0
SO ₂ (ppb)	172	48	Lagoon	0	0	0.0	0.6	14.6	2	6	21.1	228.9	2.7	2	100.0
PM _{2.5} (µg/m ³)	80	29	Lagoon	0	0	0.0	3.3	76.8	5	14	10.9	50.9	10.4	16	100.0
PM ₁₀ (µg/m ³)	-	-	Lagoon	-	-	0.0	17.2	115.2	19	12	24.2	221.6	33.7	7	100.0
TSP (µg/m ³)	-	100	Lagoon	-	0	0.0	28.3	195.6	19	12	24.2	221.6	57.6	7	100.0
Temperature (°C)	-	-	Lagoon	-	-	-13.1	0.4	13.6	2	16	10.4	82.3	7.6	1	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	0.1	14.9	44.5/W	8	13	44.5	177.2	30.9/WSW	8	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	1.5 ¹	10	13	15.2	226.3	15.8 ²	-	100.0

¹ Maximum Daily Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months

² Monthly Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months

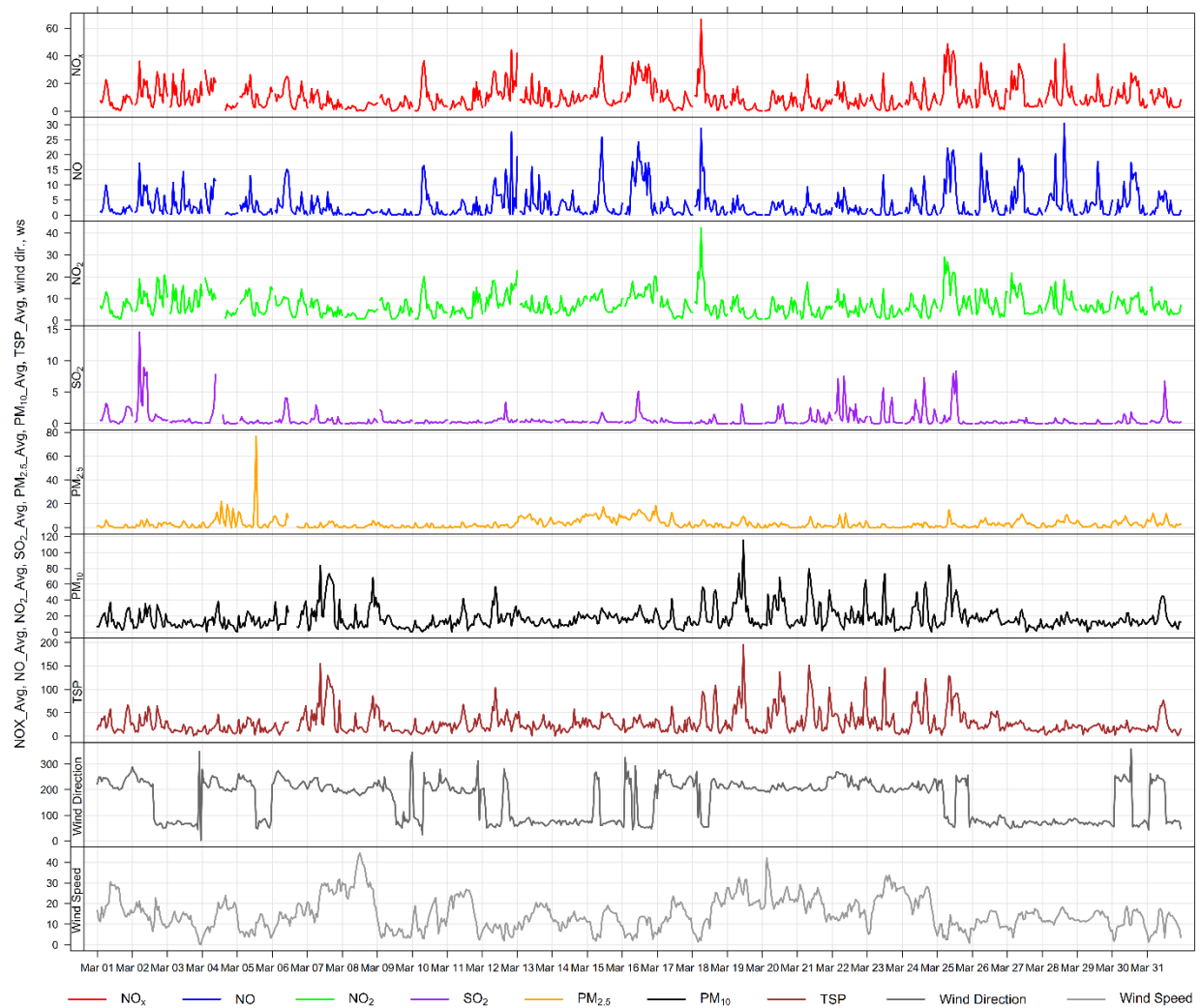


Figure 3-2 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

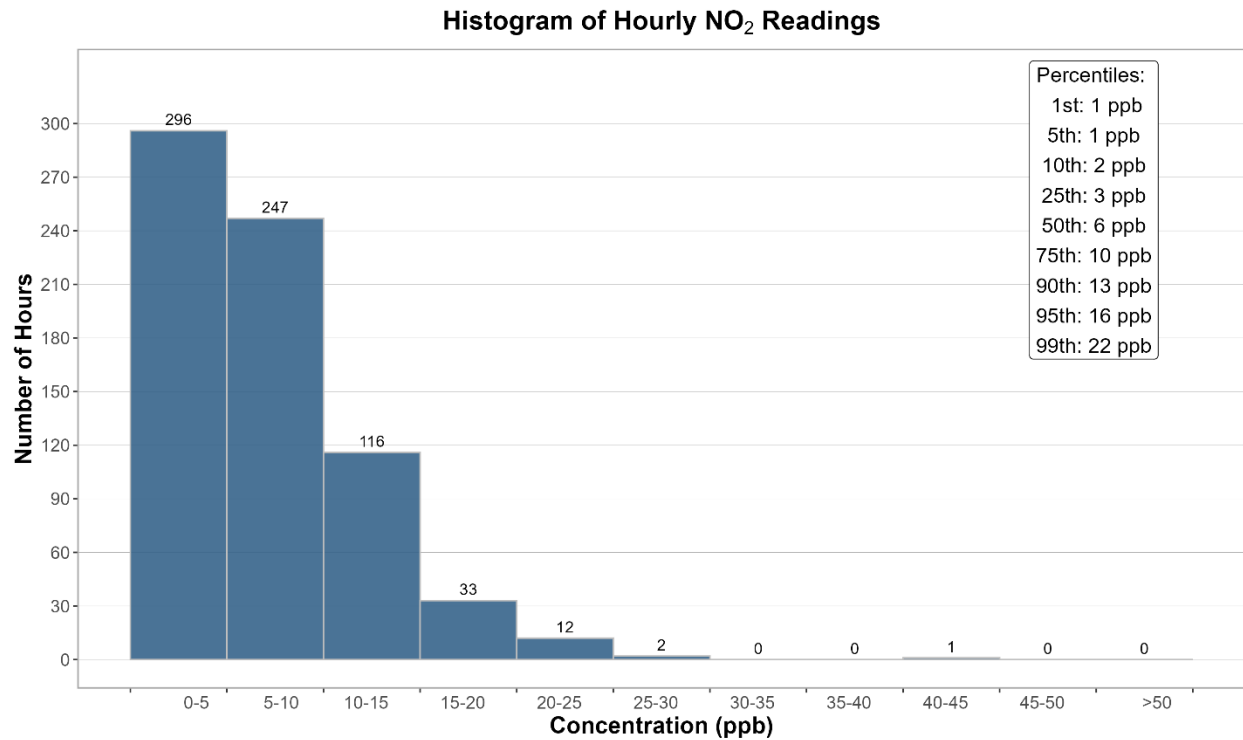


Figure 3-3 Histogram of hourly NO₂ concentrations at the Lagoon station

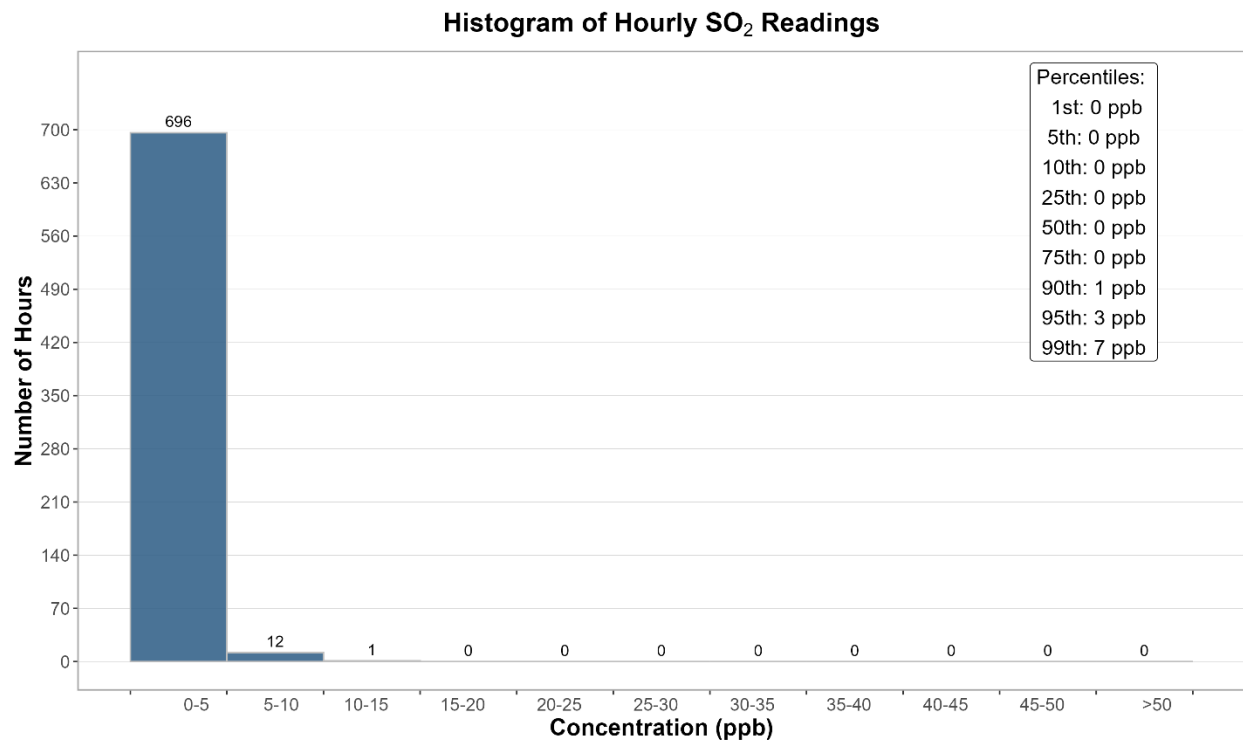


Figure 3-4 Histogram of hourly SO₂ concentrations at the Lagoon station

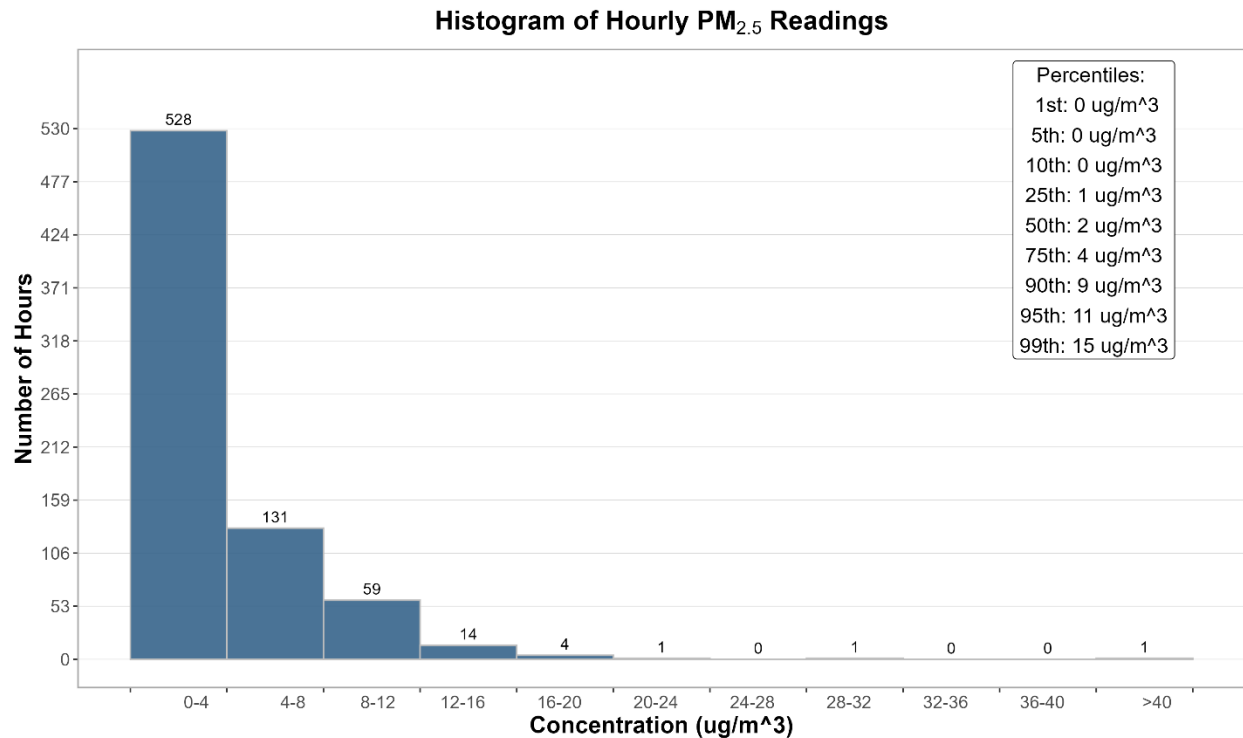


Figure 3-5 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

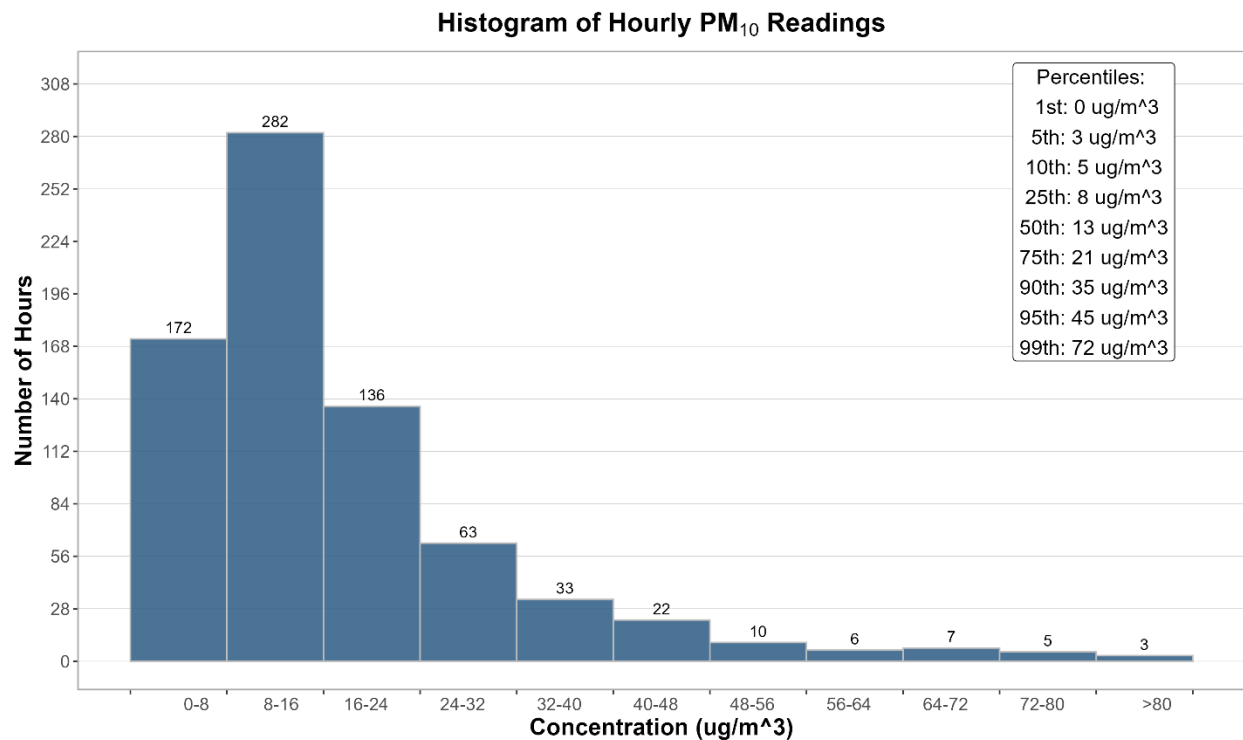


Figure 3-6 Histogram of hourly PM₁₀ concentrations at the Lagoon station

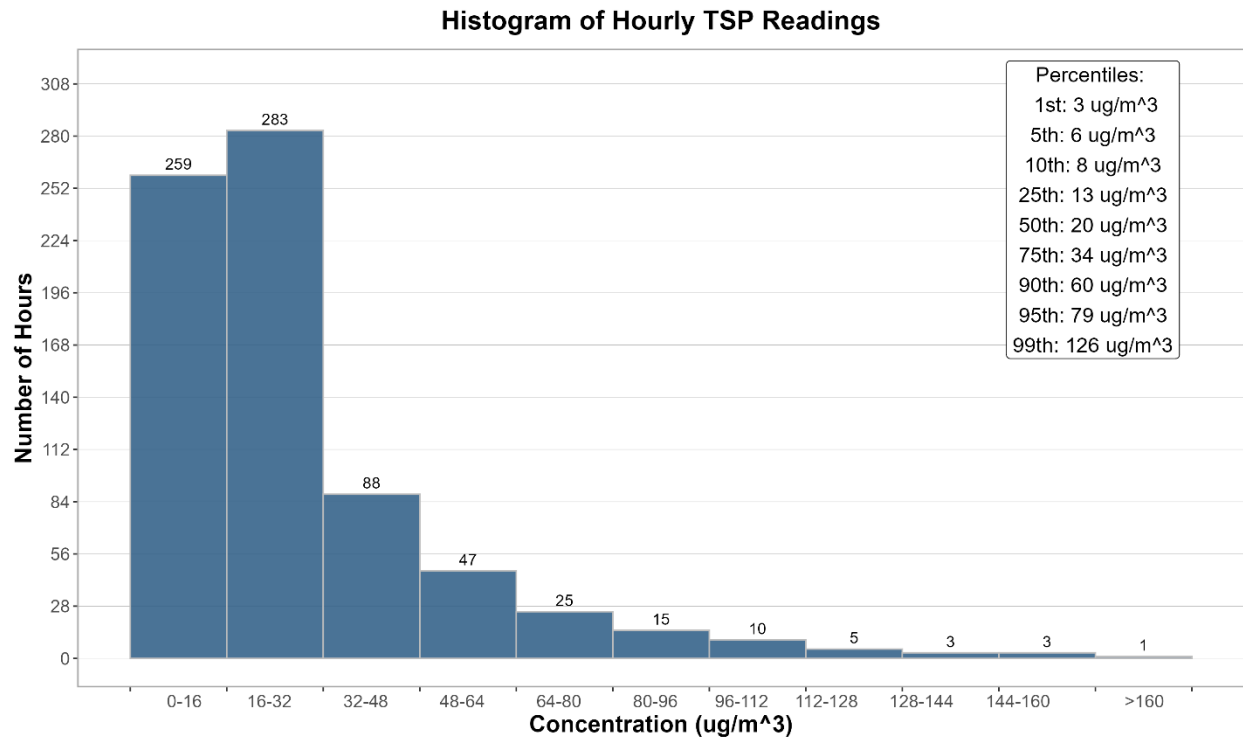


Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

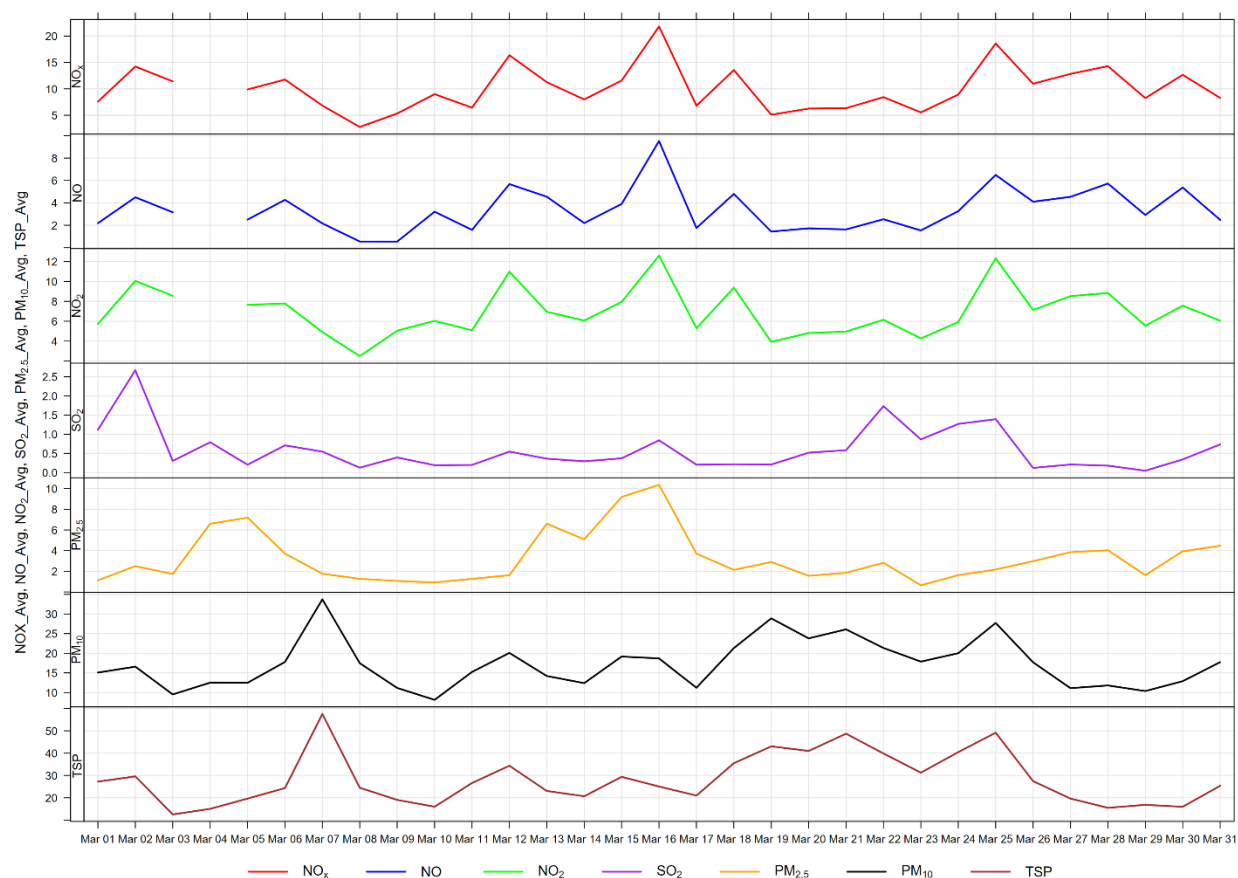


Figure 3-8 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

Figure 3-9 through Figure 3-11 show the variation in concentrations over various time averaging periods for PM, SO₂ and NO_x. The particulate matter plot in Figure 3-9 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 3-10 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 3-11 shows the variation of NO_x, NO and NO₂, with the peak of all three pollutants occurring in the morning. This may be indicative of a peak during morning traffic.

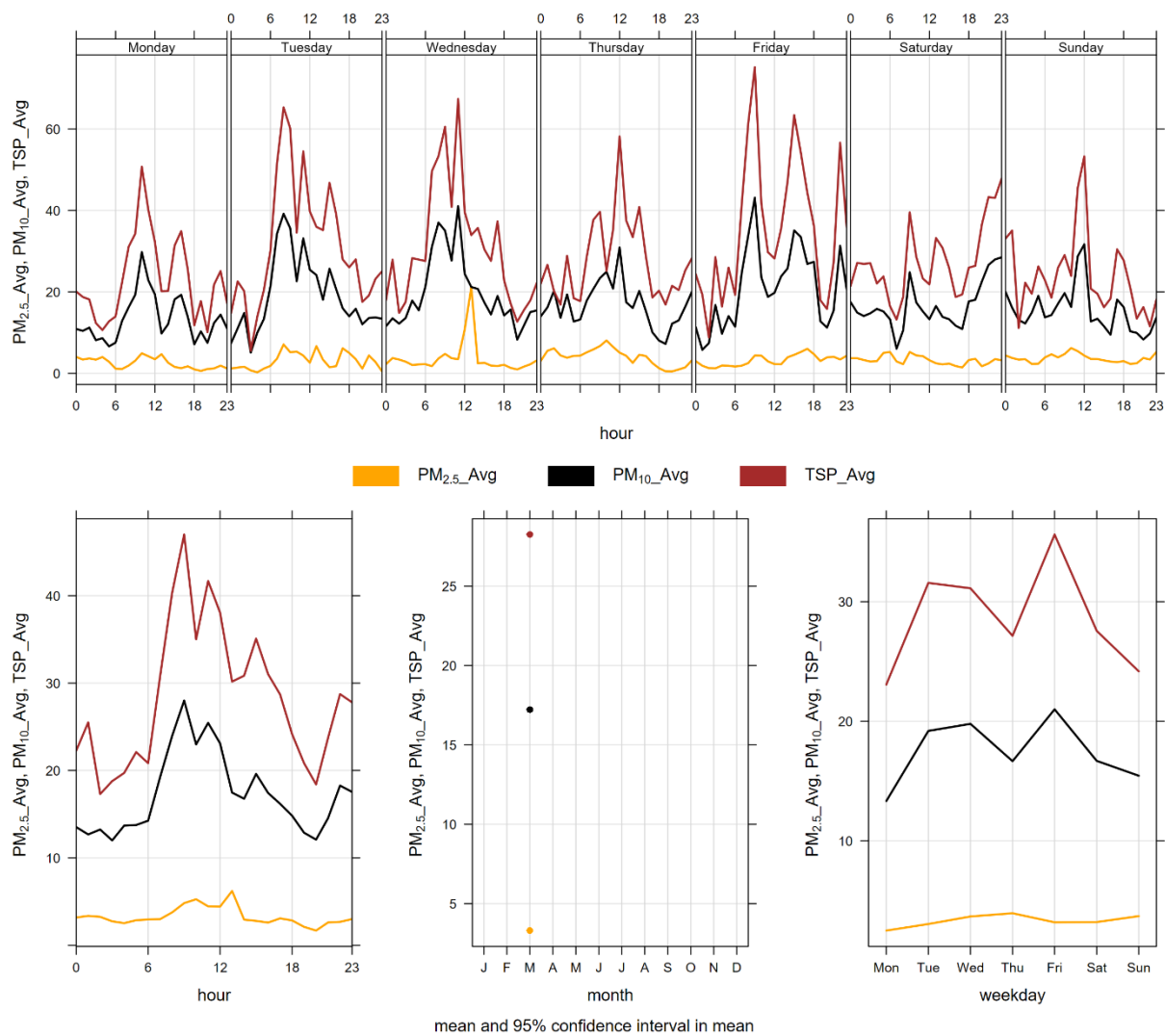


Figure 3-9 Lagoon monitor particulate matter time variation

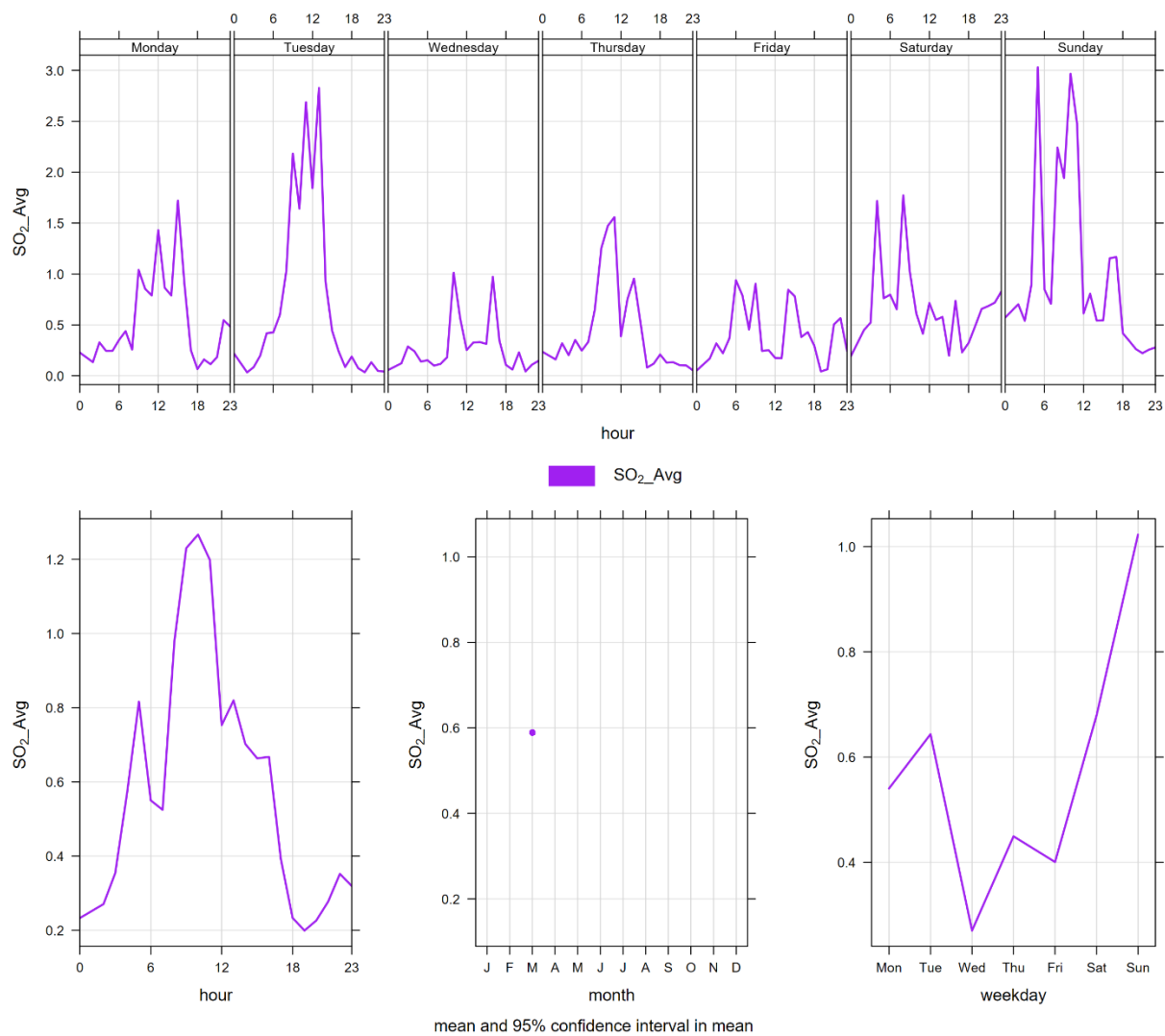


Figure 3-10 Lagoon monitor SO₂ time variation

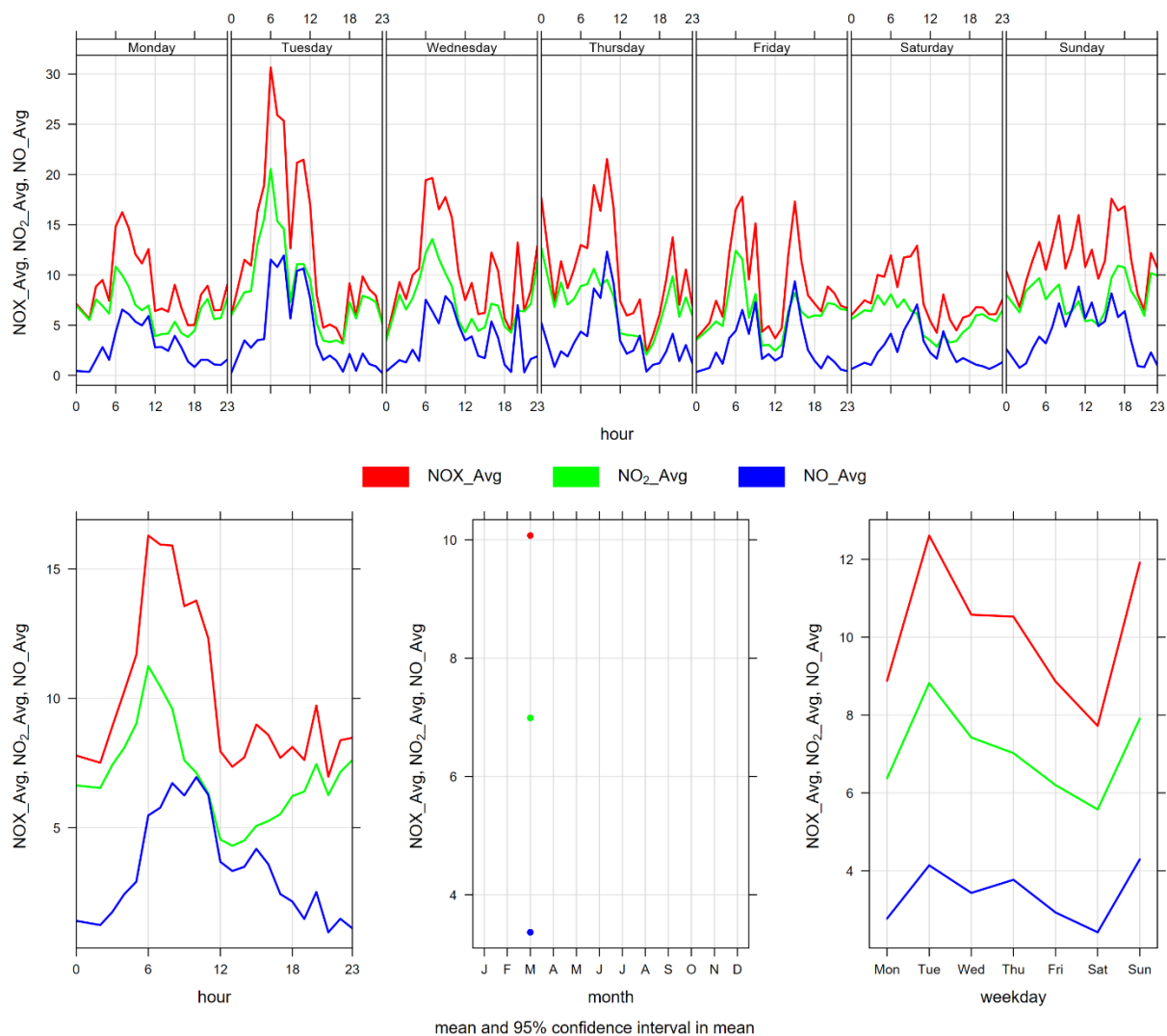


Figure 3-11 Lagoon monitor NO_x time variation

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 March 2025.

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 March 17 th . The monitor had 99.6% uptime for the month of March due to 3 hours of equipment malfunction at 17:00 on March 1 st , 3:00 on March 3 rd and 7:00 on March 7 th .
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on March 17 th . The monitor had 99.5% uptime for the month of March due to 4 hours of equipment malfunction at 17:00 on March 1 st , 3:00 on March 3 rd , 7:00 on March 5 th and 1:00 on March 7 th .
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on March 17 th . The monitor had 99.5% uptime for the month of March due to 4 hours of equipment malfunction at 17:00 on March 1 st , 3:00 on March 3 rd , 7:00 on March 5 th and 1:00 on March 7 th .

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in March 2025, and Table 4-3 recorded exceedances. 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 no exceedance of the 24-hour PM_{2.5} AAAQO. There was no exceedance of the 1-hour PM_{2.5} AAAQG. There were 6 exceedances of the 24-hour TSP AAAQO.

Historically in March, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM_{2.5} AAAQO exceedances were 5 and 0 days. The maximum number of 24-hour TSP AAAQO exceedances recorded in March

was previously 10 days in 2022. The maximum number of 24-hour PM_{2.5} AAAQO exceedances recorded in March was 1 day in 2018.

Due to flood mitigation construction at Exshaw creek the Windridge monitoring station was taken out of operation and removed from the site on April 8th, 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 May 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 March 2025 data at the Windridge Station

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
PM _{2.5} (µg/m³)	80	29	Windridge	0	0	0.0	1.8	14.0	16	21	8.2	47.8	7.1	16	99.6
PM ₁₀ (µg/m³)	-	-	Windridge	-	-	0.0	28.0	251.0	20	4	42.2	190.7	80.8	19	99.5
TSP (µg/m³)	-	100	Windridge	-	6	0.0	46.8	451.0	20	4	42.2	190.7	140.8	19	99.5

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						
2025-03-07	109.6	-	210.6	23.5	41.2	high wind event
2025-03-08	111.7	-	194.4	30.9	44.3	high wind event
2025-03-19	140.8	-	211.9	24.4	36.8	high wind event
2025-03-20	131.2	-	203.0	23.7	38.1	high wind event
2025-03-21	104.6	-	206.3	20.5	40.3	high wind event
2025-03-23	106.4	-	200.5	23.8	47.9	high wind event
Total # of Exceedances	6	0				
Maximum # of Exceedances (March)	10 (2022)	1 (2018)				
Average # of Exceedances (March)	5	0				
Minimum # of Exceedances (March)	2 (2018)	0 (2019, 2021, 2022, 2023, 2024)				

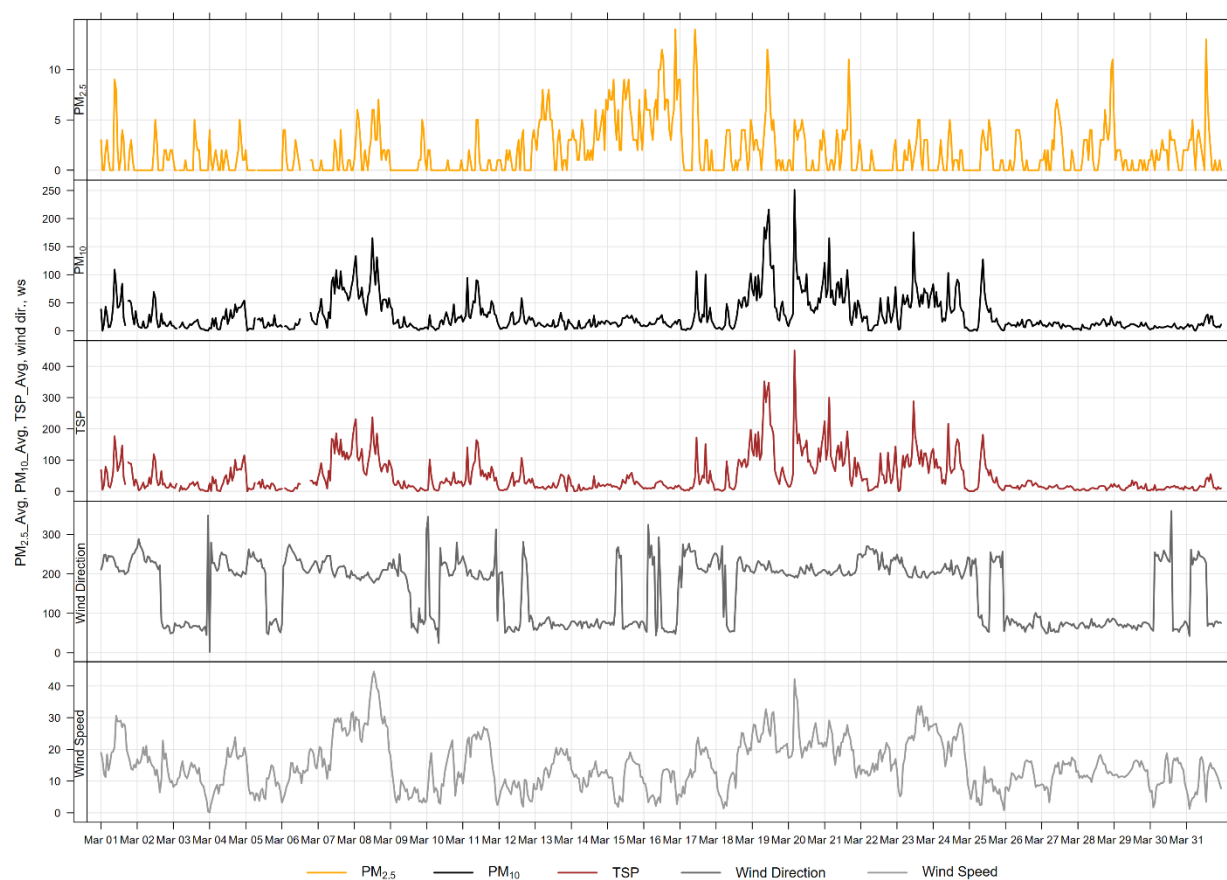


Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

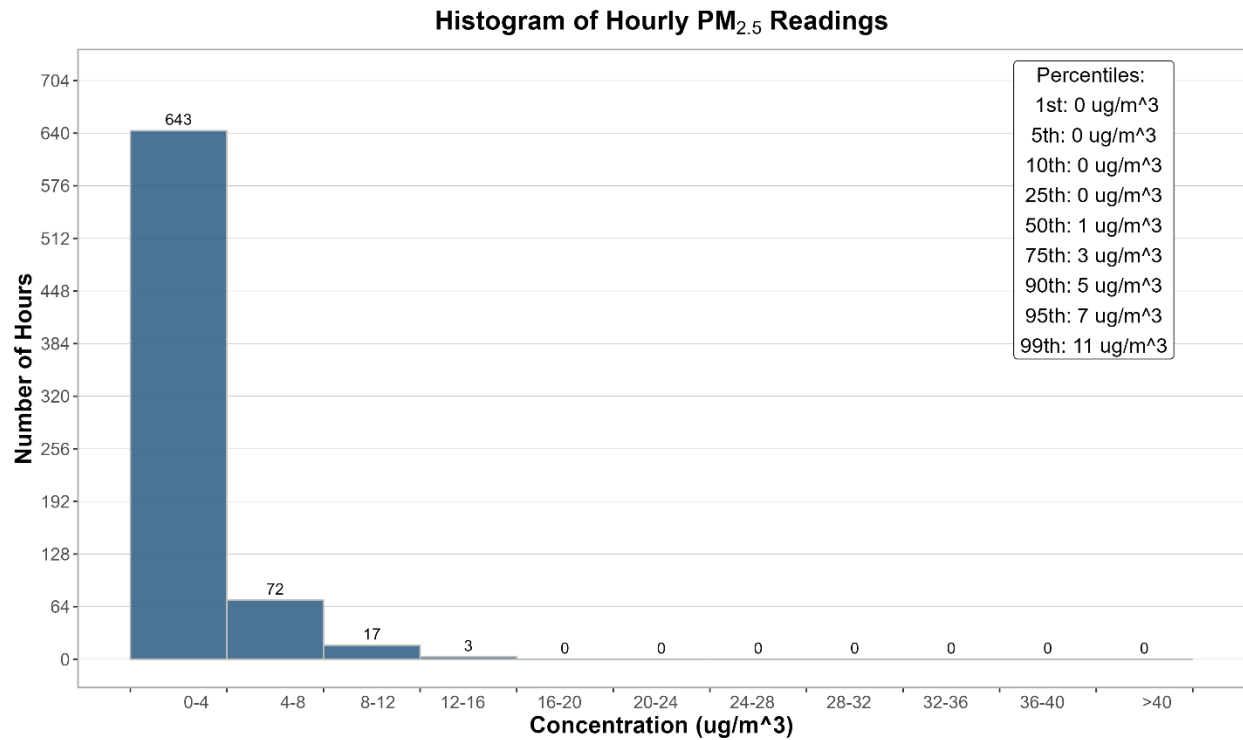


Figure 4-2 Histogram of hourly PM_{2.5} concentrations at the Windridge station

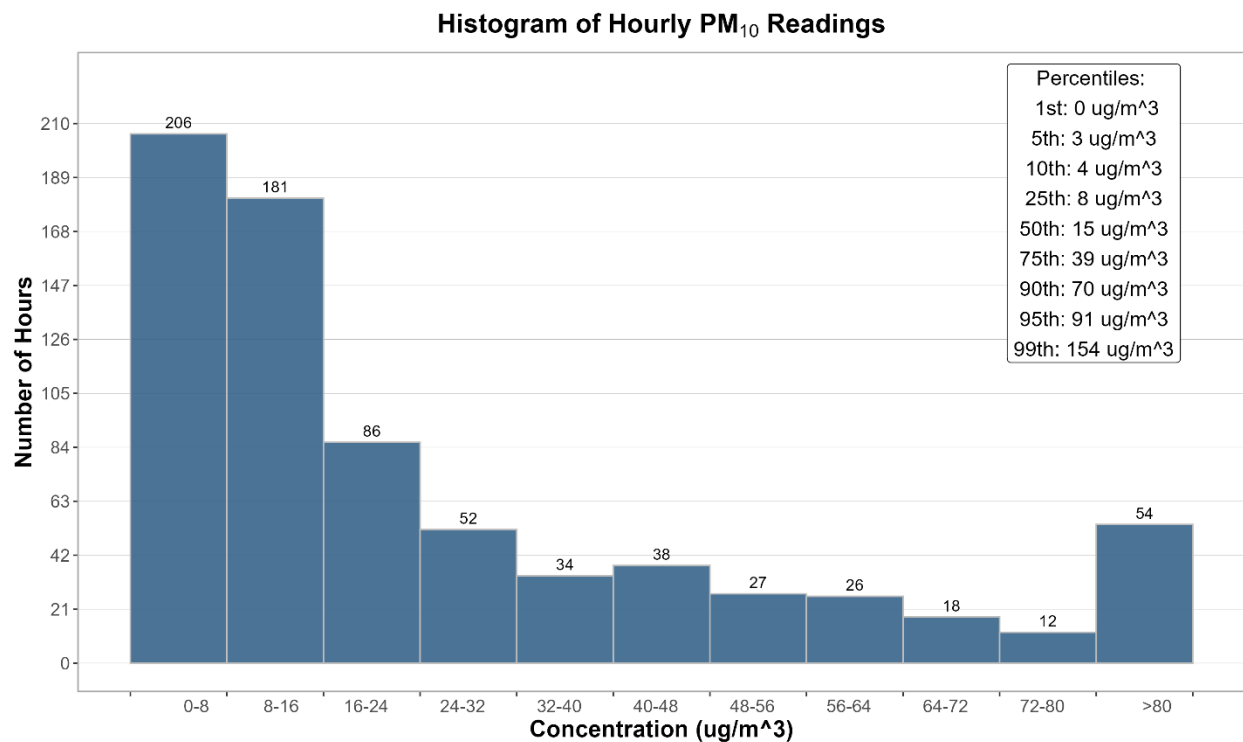


Figure 4-3 Histogram of hourly PM₁₀ concentrations at the Windridge station

recorded exceedances

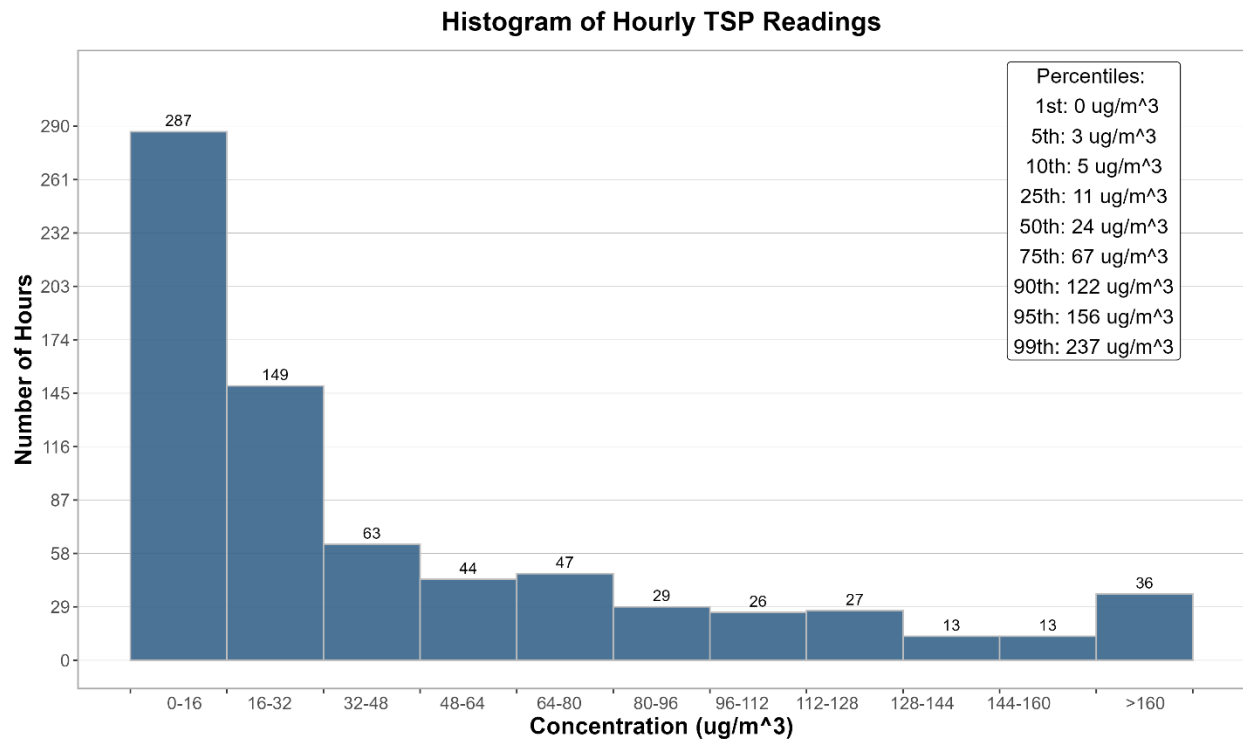


Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

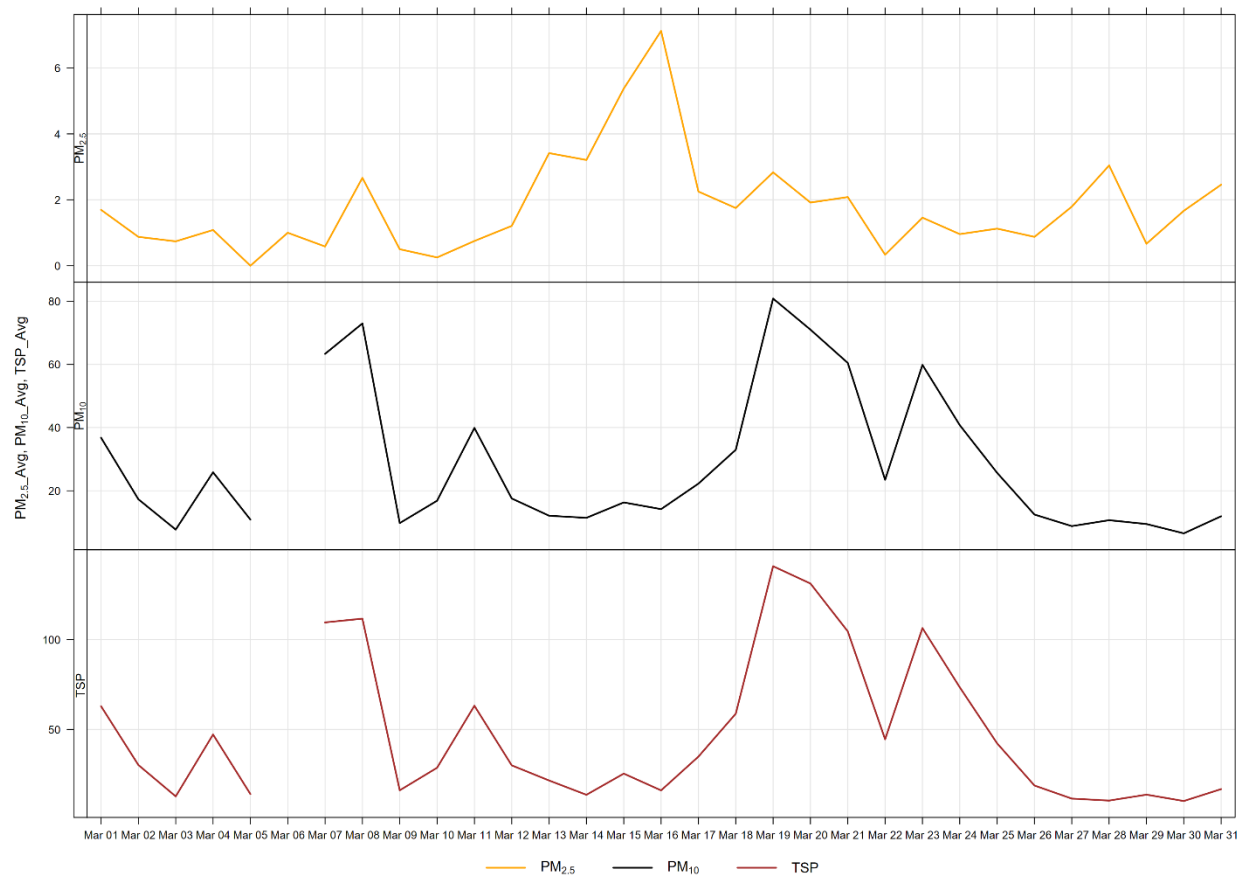


Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 6 days of TSP exceedance in March. The wind rose shows that the winds predominately came from the south-southwest direction, in high wind speed conditions (>20 km/h), suggesting impacts of windblown dust from the direction of the highway.

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 March 2025. The data shows a diurnal pattern potentially associated with Lafarge daytime operations, daytime emissions from traffic and other airshed activities. The PM concentrations also follow the diurnal pattern of higher wind speeds during the daytime hours.

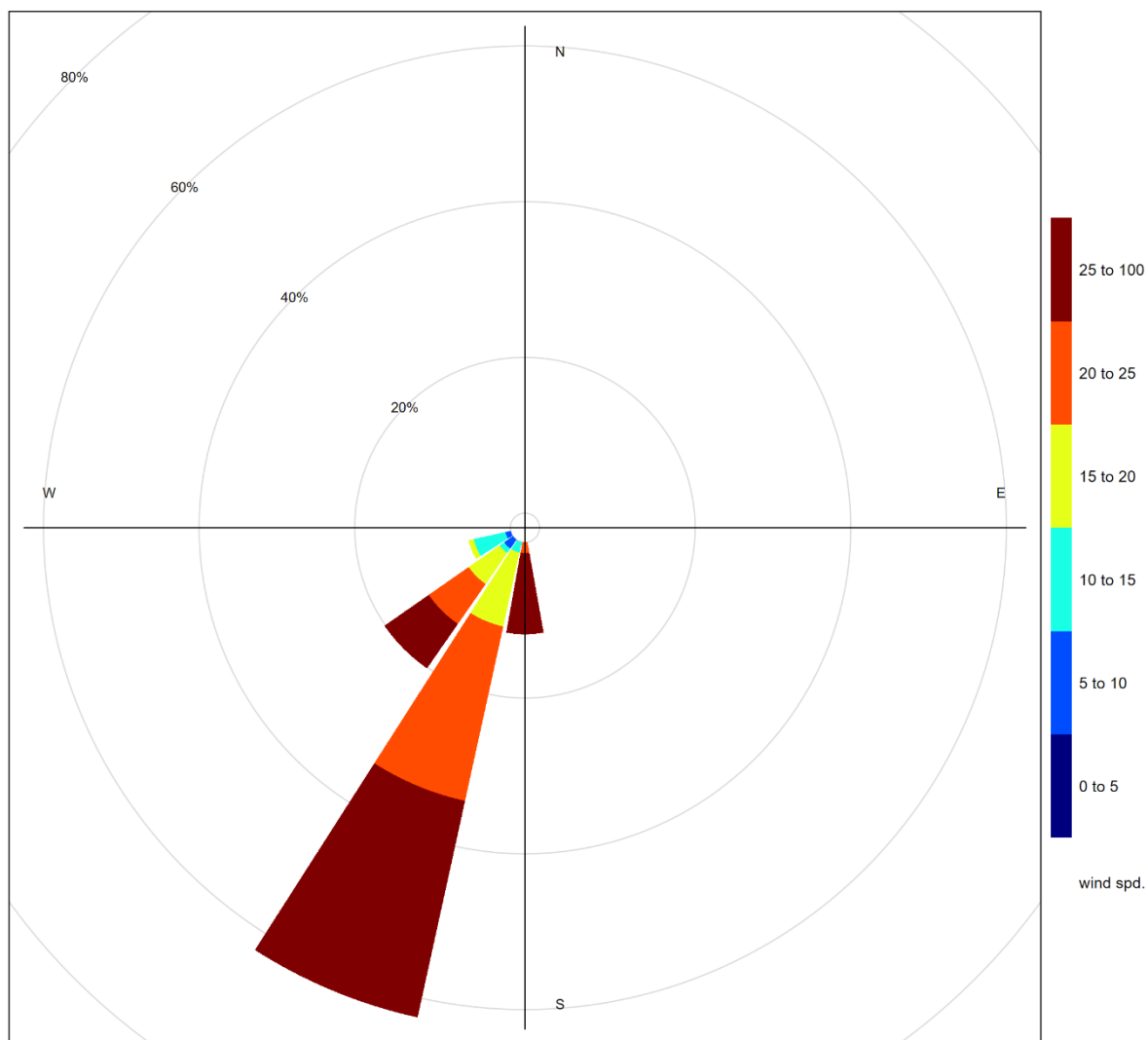


Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

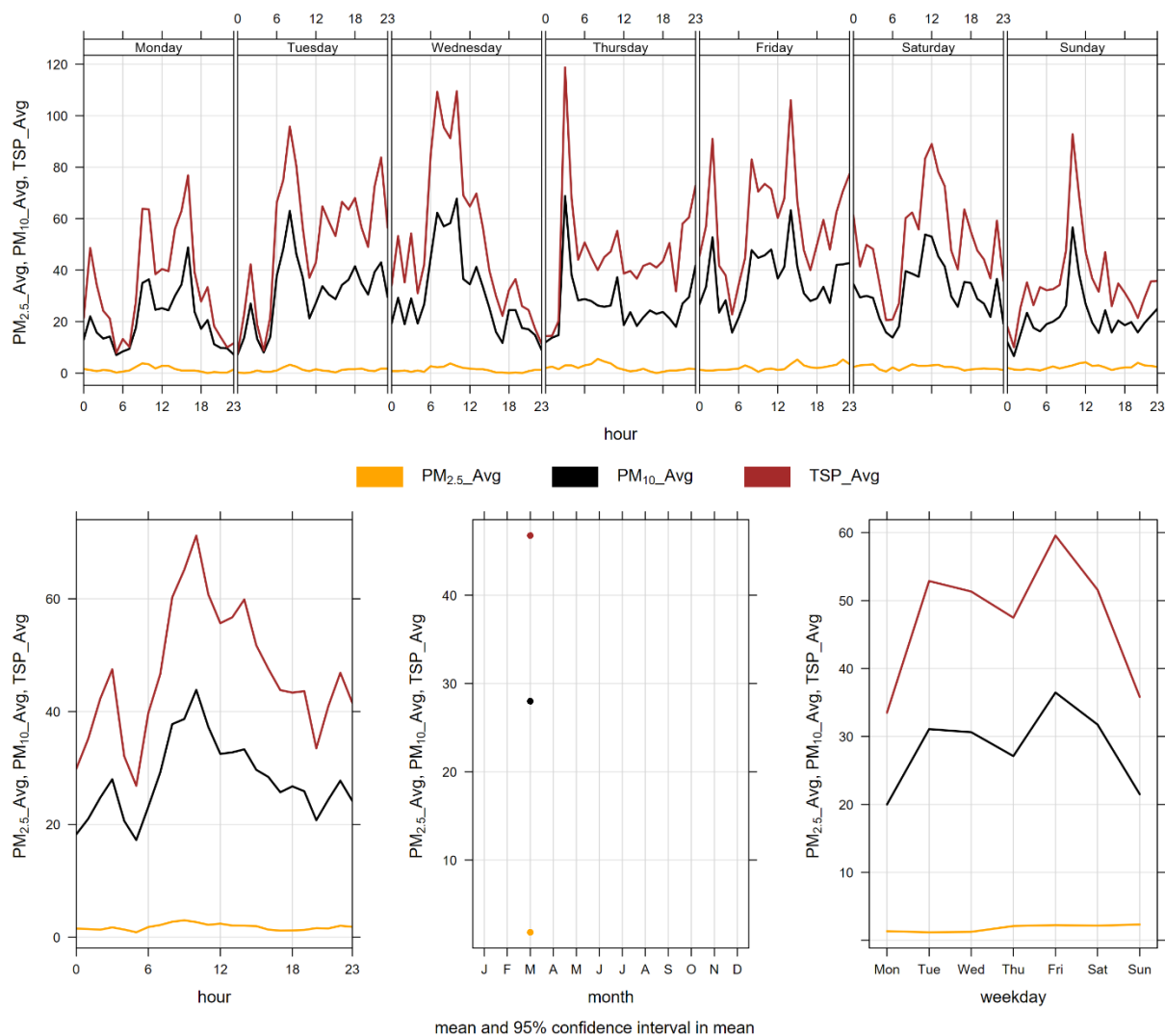


Figure 4-7 Windridge particulate matter time variation

5 BERM 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 100% uptime for the month of March.

5.2 MONITORING RESULTS AND TRENDS

The Berm monitor was placed at its current location as a result of the dispersion modelling conducted for the facility. Figure 5-1 and Figure 5-2 show the hourly and daily PM_{2.5}, PM₁₀, and TSP concentrations recorded over the month. Table 5-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month, and Table 5-3 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 6 exceedances of the 24-hour TSP Guideline (100 µg/m³). There were no exceedances of the 24-hour PM_{2.5} (29µg/m³) and the 1-hour PM_{2.5} Guideline.

Historically during the month of March, the Berm monitor records an average of 12 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during March occurred in 2010 where there were 28 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in March was 1 day in 2012, 2021, 2022 and 2023.

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

Table 5-2 Summary of March 2025 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/m³)	80	29	Berm	0	0	0.1	5.1	37.8	20	4	42.2	190.7	12.5	19	100.0
PM₁₀ (µg/m³)	-	-	Berm	-	-	0.1	17.5	233.7	20	4	42.2	190.7	63.2	20	100.0
TSP (µg/m³)	-	100	Berm	-	6	0.1	59.1	946.7	20	4	42.2	190.7	230.8	20	100.0

Table 5-3 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						
2025-03-07	193.3	-	210.6	23.5	41.2	high wind event
2025-03-08	164.8	-	194.4	30.9	44.3	high wind event
2025-03-19	221.4	-	211.9	24.4	36.8	high wind event
2025-03-20	230.8	-	203.0	23.7	38.1	high wind event
2025-03-21	151.5	-	206.3	20.5	40.3	high wind event
2025-03-23	146.3	-	200.5	23.8	47.9	high wind event
Total # of Exceedances	6	0				
Maximum # of Exceedances (March)	28 (2010)	1 (2012, 2021, 2022, 2023)				
Average # of Exceedances (March)	12	0				
Minimum # of Exceedances (March)	0 (2024)	0 (2010, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2024)				

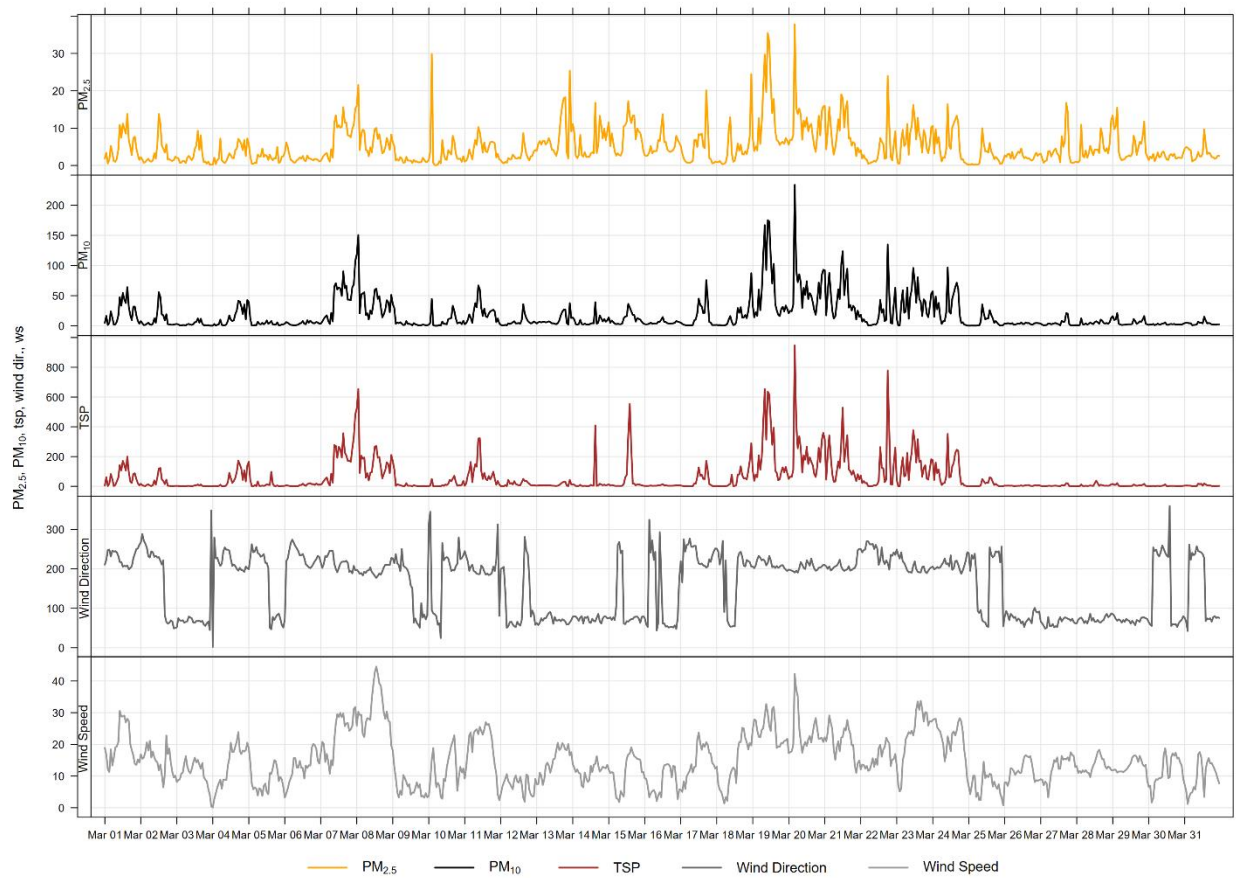


Figure 5-1 1-hour particulate matter concentrations at the Berm monitor

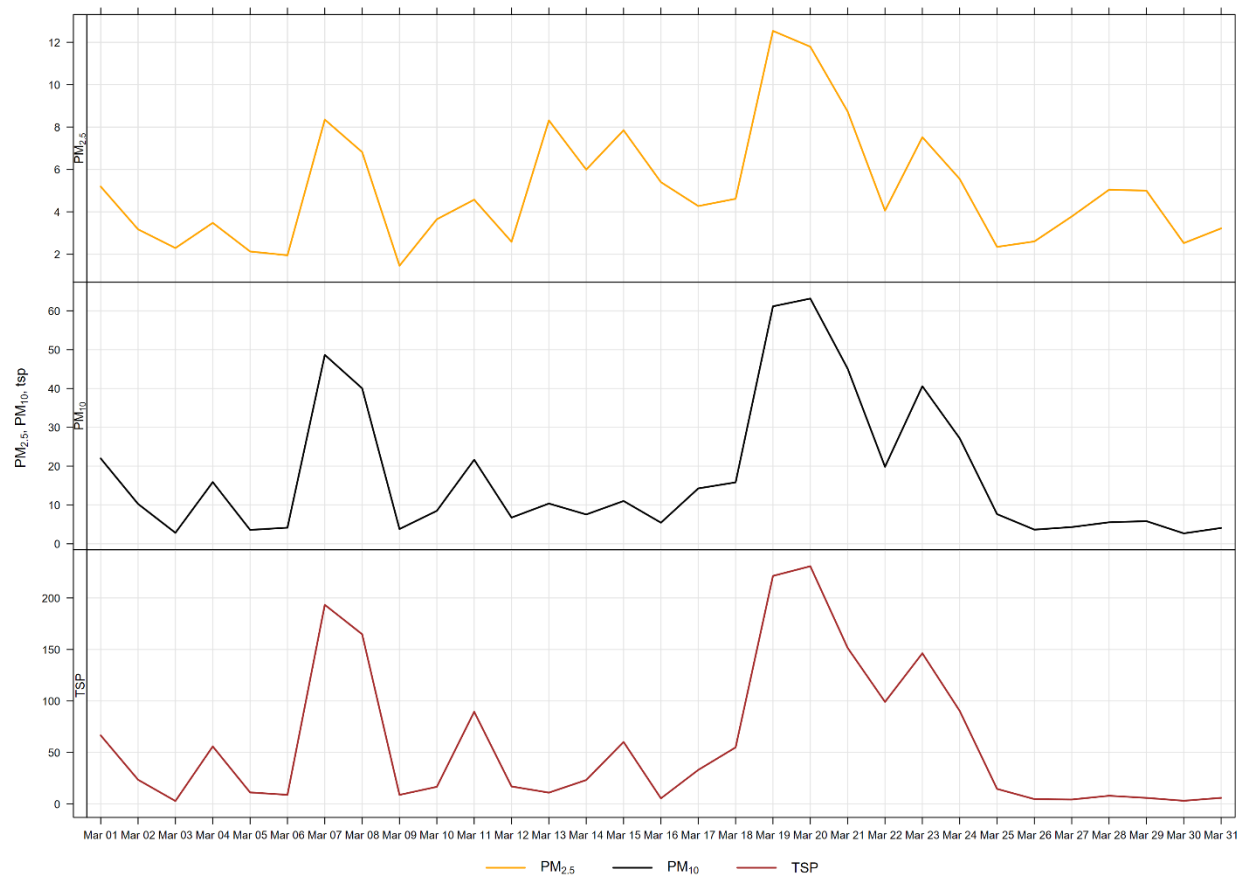


Figure 5-2 24-hour particulate matter concentrations at the Berm monitor

Figure 5-3 shows the wind rose for the 6 days of TSP exceedances, and shows that the wind predominately came from the south-southwest direction, in high wind speed (>20 km/h), suggesting impacts of windblown dust from the direction of the Lafarge Facility.

Figure 5-4 shows the variation of PM recorded at the Berm monitor over various time averaging periods. The Berm monitor diurnal pattern, similar to the Lagoon station, and is associated with Lafarge operations, but also daytime emissions from other activities and sources in Exshaw.

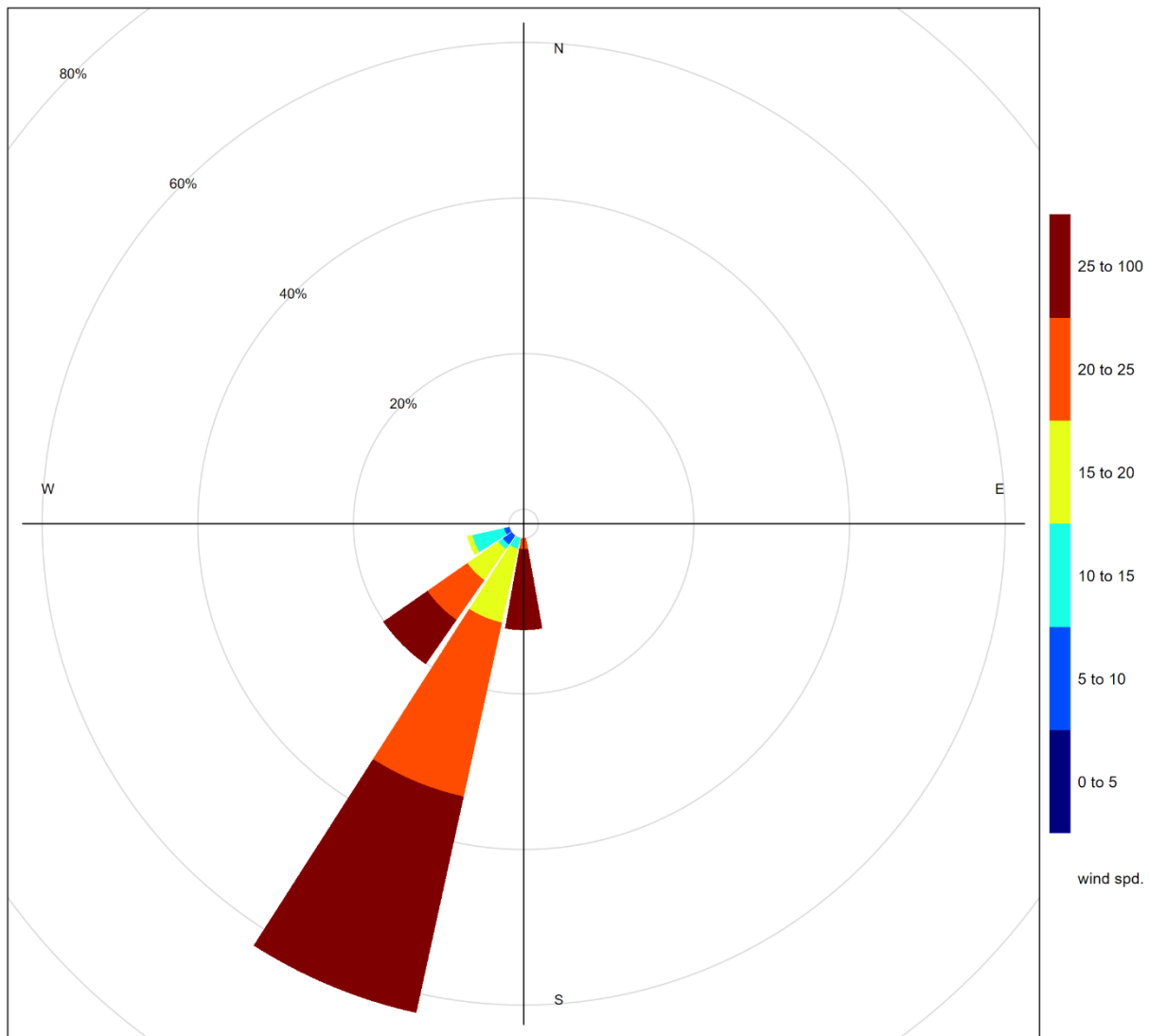


Figure 5-3 Windrose for TSP exceedance days recorded at the Berm GRIMM

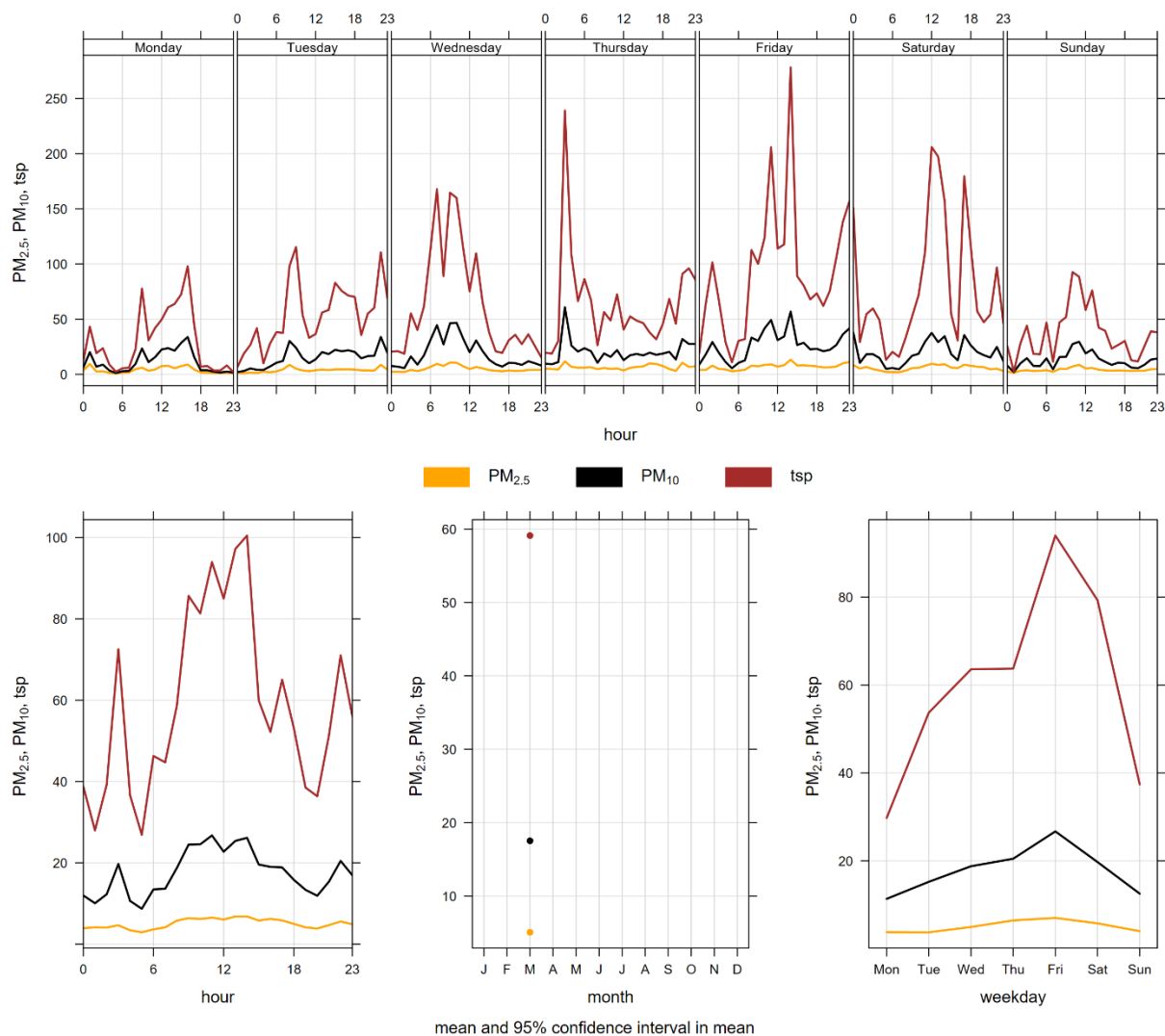


Figure 5-4 Berm monitor particulate matter time variation

6 BIBLIOGRAPHY

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APPENDIX

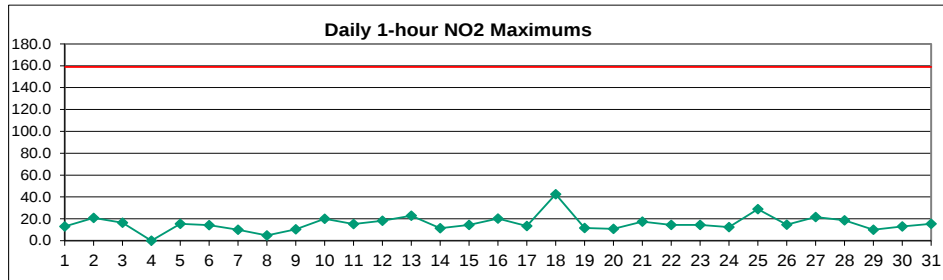
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – March 2025

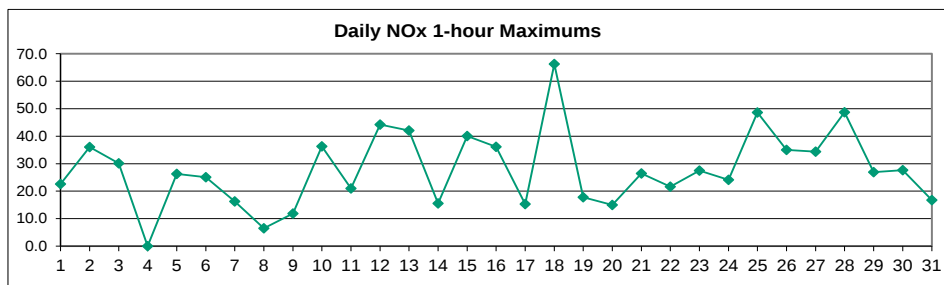
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	4.6	S	6.6	5.4	7.5	9.8	13.0	12.0	7.0	3.1	4.5	1.8	1.8	1.2	1.8	0.7	0.7	3.5	8.5	6.0	10.0	8.3	7.9	6.3	5.7	13.0
2	4.3	S	4.0	4.9	9.1	19.1	8.0	7.7	13.5	11.1	12.4	6.2	7.5	3.1	2.3	5.2	9.5	19.6	18.8	10.0	11.1	6.1	20.8	17.0	10.1	20.8
3	10.6	S	3.0	4.8	16.4	9.0	14.7	5.6	3.2	3.4	13.3	16.0	3.2	5.2	6.0	10.3	4.5	3.7	7.1	14.0	13.5	6.0	6.6	16.5	8.6	16.5
4	11.2	S	19.3	16.9	13.8	11.5	14.4	9.3	12.3	10.1	C	C	C	C	C	C	0.9	4.5	3.3	3.1	2.0	3.5	2.6	3.4	-	-
5	5.4	S	7.6	8.9	9.4	10.1	13.8	11.3	14.8	13.6	6.1	2.6	1.9	8.1	7.9	3.6	3.8	3.1	2.6	3.2	4.4	8.8	9.5	15.4	7.7	15.4
6	14.3	S	11.1	6.8	6.7	7.1	7.7	9.4	10.8	10.2	10.3	9.9	5.2	3.4	1.6	1.4	1.5	4.4	9.4	8.9	14.2	10.5	7.4	7.2	7.8	14.3
7	2.5	S	6.1	10.1	5.6	8.5	9.4	9.5	6.5	1.9	1.1	3.4	3.1	2.9	7.0	4.2	5.9	4.5	1.7	4.0	1.6	6.1	2.8	4.9	4.9	10.1
8	2.3	S	1.6	1.5	3.1	2.2	2.2	3.4	3.0	2.4	0.6	0.8	0.9	0.8	0.7	0.8	1.5	3.1	4.9	4.4	4.7	4.4	3.8	4.4	2.5	4.9
9	5.1	S	9.2	10.4	7.5	4.9	4.7	8.2	7.3	2.8	0.6	0.6	0.7	1.3	2.2	3.9	6.7	3.3	4.0	9.5	9.5	6.0	2.0	5.8	5.1	10.4
10	3.7	S	0.7	0.6	0.8	4.1	12.2	16.2	20.1	13.8	5.5	7.3	4.5	4.5	1.2	0.7	1.4	8.6	7.7	5.4	7.3	5.0	3.5	3.8	6.0	20.1
11	3.4	S	1.4	3.1	6.5	2.8	4.1	4.3	4.7	3.2	5.9	4.8	3.3	1.3	0.7	1.2	0.9	1.4	13.3	7.0	15.2	8.2	12.2	8.4	5.1	15.2
12	3.1	S	4.0	10.4	6.7	12.0	10.2	17.8	18.2	15.9	9.5	5.6	7.9	7.2	6.6	9.0	13.0	14.9	9.8	7.4	16.9	13.8	16.6	15.9	11.0	18.2
13	22.8	S	7.2	7.9	6.3	6.1	9.0	5.7	5.9	4.1	11.5	5.0	3.8	3.5	4.1	8.4	3.2	3.4	5.3	10.2	11.1	5.5	7.5	2.7	7.0	22.8
14	5.2	S	3.5	3.5	4.0	4.8	11.4	6.7	4.3	5.9	2.6	2.1	2.5	5.1	6.5	4.0	5.6	7.9	10.2	6.6	7.2	8.1	10.7	11.2	6.1	11.4
15	9.9	S	8.8	10.9	10.4	12.4	9.3	9.1	11.3	12.9	14.4	10.2	6.2	4.6	3.8	3.8	3.7	3.6	6.1	5.1	5.7	6.7	7.2	6.6	7.9	14.4
16	10.0	S	6.6	8.4	10.5	10.4	13.7	17.9	13.2	10.0	10.3	12.2	11.4	12.1	10.6	11.1	15.4	14.2	16.7	16.5	10.3	7.8	20.1	20.3	12.6	20.3
17	13.4	S	6.2	11.1	6.1	6.7	7.3	9.6	5.9	4.7	3.7	1.2	0.7	1.3	2.0	1.8	1.6	0.8	3.8	9.7	8.5	6.4	5.3	3.9	5.3	13.4
18	3.6	S	8.5	7.7	22.3	19.0	42.4	21.2	18.8	4.5	7.4	6.4	3.7	2.3	3.8	6.6	7.0	0.8	1.2	5.1	9.2	9.0	3.2	2.0	9.4	42.4
19	2.6	S	6.2	4.2	10.7	6.8	10.1	11.7	4.7	3.5	5.4	5.6	1.7	1.2	0.8	0.9	1.4	1.7	2.7	4.9	1.4	1.0	0.6	0.5	3.9	11.7
20	0.6	S	0.8	0.8	0.9	1.0	7.1	10.8	9.9	4.4	3.8	7.2	4.9	6.4	6.7	2.7	0.7	1.8	2.7	6.4	10.5	3.6	9.1	7.8	4.8	10.8
21	3.1	S	4.4	0.6	1.3	9.4	13.4	17.5	6.9	6.9	2.3	3.1	1.5	1.6	4.6	6.0	0.9	0.8	2.4	4.0	6.6	5.2	6.7	5.1	5.0	17.5
22	6.6	S	8.4	9.0	14.4	6.5	8.7	5.7	12.1	7.1	4.4	1.4	4.4	3.9	4.0	3.2	6.5	3.4	1.6	10.4	6.3	4.9	3.6	5.0	6.1	14.4
23	7.6	S	6.2	10.0	7.3	4.6	2.5	1.5	1.4	1.1	5.6	14.5	2.9	0.6	0.6	1.0	5.7	6.9	1.4	1.6	2.4	3.7	5.4	4.0	4.3	14.5
24	2.8	S	4.2	5.8	4.3	6.3	12.4	11.4	6.1	6.8	4.9	4.8	2.1	1.1	8.1	11.6	8.5	2.5	0.9	1.4	5.8	7.4	9.7	7.3	5.9	12.4
25	5.6	S	4.0	5.9	9.8	29.0	21.4	26.6	22.4	11.5	19.9	22.1	21.7	12.0	5.9	2.2	5.2	6.0	11.3	7.6	5.3	10.1	11.2	6.9	12.3	29.0
26	2.9	S	14.4	2.7	3.9	9.1	14.7	13.5	8.9	7.7	14.4	8.0	5.6	6.0	2.5	5.7	10.4	8.0	4.5	1.5	3.1	1.9	1.8	13.1	7.1	14.7
27	13.1	S	8.1	21.6	14.3	16.3	11.8	10.5	15.9	17.1	12.5	9.3	3.0	2.9	3.6	2.8	2.9	3.1	3.0	3.9	3.5	3.7	7.0	6.3	8.5	21.6
28	3.3	S	4.7	7.3	8.7	11.8	15.5	12.6	5.2	17.7	5.8	3.7	2.8	2.7	7.5	18.6	13.0	9.9	9.6	9.2	13.4	9.0	6.3	4.9	8.8	18.6
29	4.7	S	7.0	5.1	4.6	4.3	7.2	3.6	4.6	6.8	6.8	5.5	4.0	3.9	9.4	8.0	4.8	7.8	3.1	4.0	3.8	4.1	4.5	10.1	5.6	10.1
30	13.1	S	5.5	8.3	11.1	9.5	9.0	6.8	9.8	5.5	3.0	3.5	4.5	10.6	9.5	10.5	11.3	10.6	12.9	4.3	3.6	6.1	2.5	2.5	7.6	13.1
31	4.3	S	13.4	15.4	7.0	4.6	7.6	7.0	8.9	6.3	5.0	5.5	9.1	8.5	3.5	2.4	5.0	3.5	2.8	3.2	2.9	3.2	3.5	6.9	6.1	15.4
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	707	100.0%
MEAN	6.6	-	6.5	7.4	8.1	9.0	11.2	10.5	9.6	7.6	7.1	6.3	4.6	4.3	4.5	5.1	5.3	5.5	6.2	6.4	7.5	6.3	7.2	7.6		
MAX	22.8	-	19.3	21.6	22.3	29.0	42.4	26.6	22.4	17.7	19.9	22.1	21.7	12.1	10.6	18.6	15.4	19.6	18.8	16.5	16.9	13.8	20.8	20.3		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	707
Maximum 1-HR Average	42.4 PPB
Maximum 24-HR Average	12.6 PPB
Monthly Calibration	6
Standard Deviation	4.9
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	7.0 PPB

Lagoon NOx (ppb) – March 2025

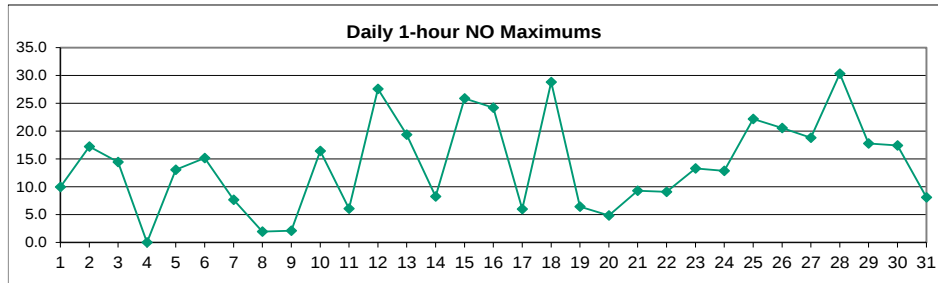
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	4.6	S	7.5	6.0	9.5	15.9	22.6	18.3	9.0	3.9	6.2	2.3	2.4	1.1	2.2	0.6	0.6	3.9	10.8	6.1	11.9	10.1	10.8	8.1	7.6	22.6
2	5.2	S	4.7	6.0	13.1	36.1	11.0	10.4	23.1	18.9	21.9	9.3	11.7	3.9	2.6	6.5	15.8	28.3	23.9	11.2	12.2	6.0	27.1	18.4	14.2	36.1
3	10.9	S	3.0	4.8	27.0	11.7	18.8	6.2	3.3	4.1	20.9	30.2	4.6	8.1	8.5	15.1	5.3	4.0	9.7	16.2	15.6	6.4	6.8	21.3	11.4	30.2
4	11.6	S	29.4	21.9	15.0	11.8	23.5	14.1	24.0	21.1	C	C	C	C	C	C	0.9	5.1	3.7	3.2	1.7	3.7	2.6	3.6	-	-
5	5.7	S	10.6	10.0	13.0	12.4	19.6	12.1	18.0	26.3	9.8	3.6	2.5	12.5	11.7	4.4	4.6	3.4	2.4	3.2	4.4	9.4	10.2	17.3	9.9	26.3
6	14.2	S	12.3	7.2	12.0	10.0	10.3	11.3	19.5	23.2	25.0	23.9	11.8	4.9	2.3	1.6	1.6	7.1	11.3	9.9	21.5	13.6	7.5	8.3	11.8	25.0
7	2.4	S	6.3	16.3	5.9	11.3	12.5	15.4	10.4	2.4	1.2	5.4	4.5	4.1	14.4	5.7	9.4	5.5	1.5	4.6	1.4	8.4	3.0	5.3	6.8	16.3
8	2.2	S	1.4	1.4	3.2	2.1	2.1	4.0	3.2	2.9	0.3	0.6	0.7	0.7	0.4	0.7	1.5	4.5	6.5	5.8	5.5	4.7	4.4	5.1	2.8	6.5
9	6.0	S	9.7	11.8	7.6	5.3	4.5	8.7	9.2	3.0	0.3	0.4	0.5	1.0	2.1	4.1	6.7	3.2	3.7	11.2	9.3	6.1	1.7	6.7	5.3	11.8
10	3.5	S	0.5	0.4	0.6	4.3	14.9	31.6	36.3	25.4	10.2	13.8	7.3	7.2	1.6	0.6	1.6	12.7	8.3	5.4	8.5	5.0	3.5	3.7	9.0	36.3
11	3.5	S	1.1	3.3	7.6	2.8	4.5	5.3	6.4	4.7	10.7	9.1	6.6	1.9	0.7	1.6	1.0	1.3	16.6	7.2	21.0	8.1	15.1	8.2	6.4	21.0
12	2.8	S	3.9	13.5	7.2	12.4	10.5	22.5	28.9	27.9	15.6	11.7	14.2	13.7	8.7	11.3	27.8	26.1	12.4	7.4	44.3	13.7	21.9	17.9	16.4	44.3
13	42.0	S	8.2	8.6	6.3	6.3	17.3	8.5	8.4	5.2	27.2	8.5	7.1	5.5	5.6	21.5	3.9	3.5	6.8	17.0	17.0	7.0	15.2	2.4	11.3	42.0
14	6.1	S	3.4	3.4	4.1	7.4	15.6	11.6	8.5	9.9	4.3	3.5	3.9	8.9	14.3	5.4	6.3	8.9	12.8	7.1	7.7	8.0	11.1	11.7	8.0	15.6
15	9.8	S	8.8	11.9	10.7	16.7	9.9	11.1	20.1	29.7	40.1	21.9	10.5	7.1	5.2	4.7	4.3	3.9	8.0	5.2	5.9	6.5	7.2	6.9	11.6	40.1
16	13.6	S	6.8	8.4	13.1	10.2	23.2	35.3	25.6	19.2	26.5	36.1	28.8	29.6	22.0	22.1	32.3	20.5	33.8	29.3	12.3	7.6	23.8	21.4	21.8	36.1
17	13.7	S	6.4	15.2	7.1	8.6	9.7	15.3	8.3	6.8	5.6	1.2	0.4	1.6	2.7	2.5	2.1	0.7	4.0	14.3	11.8	8.6	6.1	3.9	6.8	15.3
18	3.4	S	11.2	10.8	30.6	20.3	66.3	35.6	30.7	6.1	12.6	11.9	6.3	3.3	5.5	11.2	11.3	0.6	1.0	5.4	11.4	11.6	3.2	1.8	13.6	66.3
19	3.4	S	7.1	4.4	16.0	7.3	12.7	17.8	6.3	5.0	8.2	8.9	2.4	1.3	0.7	0.8	1.5	1.8	3.3	5.6	1.3	0.9	0.3	0.3	5.1	17.8
20	0.3	S	0.4	0.5	0.8	0.7	8.8	15.0	13.5	5.8	5.4	11.0	7.1	9.9	11.2	3.8	0.5	2.0	3.3	7.1	13.1	3.6	10.4	9.9	6.3	15.0
21	3.0	S	5.4	0.4	1.3	11.6	15.7	26.5	9.7	10.4	3.0	4.4	1.8	1.8	7.5	9.5	0.8	0.4	2.5	3.9	8.0	5.2	7.7	5.1	6.3	26.5
22	8.8	S	12.1	11.3	21.7	8.5	13.3	6.4	20.9	12.4	7.2	1.5	6.6	5.1	5.7	3.9	9.4	4.2	1.5	12.7	6.7	5.0	3.7	5.5	8.4	21.7
23	9.3	S	7.4	11.9	7.8	4.9	2.3	1.3	1.1	0.9	9.1	27.5	3.9	0.3	0.4	0.9	8.0	11.5	1.1	1.3	2.4	3.8	6.0	4.3	5.5	27.5
24	3.1	S	5.0	8.2	4.7	7.8	21.1	19.1	8.9	13.0	8.0	8.2	2.9	1.1	13.8	24.1	15.0	3.2	0.6	1.3	5.8	9.2	12.9	8.0	8.9	24.1
25	5.5	S	4.3	7.8	12.3	40.8	28.4	48.6	40.3	18.8	40.2	43.5	38.3	19.0	8.0	2.4	5.7	6.2	15.4	7.8	5.3	10.9	11.0	6.9	18.6	48.6
26	2.7	S	15.7	2.6	3.8	10.5	35.0	26.2	12.9	11.9	29.0	16.6	10.9	9.3	3.4	8.4	14.9	10.5	4.7	1.2	3.0	1.7	1.5	16.1	11.0	35.0
27	14.2	S	8.5	29.2	15.7	25.5	15.5	15.9	34.4	31.3	28.5	23.3	3.7	3.5	5.7	3.4	3.0	3.4	3.0	3.9	3.4	4.0	9.1	7.1	12.8	34.4
28	3.3	S	5.7	9.6	12.1	18.2	22.4	17.6	9.7	37.8	8.9	6.3	4.6	4.1	11.9	48.7	29.0	17.1	11.9	10.0	18.2	11.2	6.1	4.7	14.3	48.7
29	4.6	S	7.7	5.2	5.0	5.9	11.8	4.2	5.6	10.3	10.7	9.1	7.0	7.3	26.9	17.9	6.6	12.3	3.2	4.2	3.9	3.9	4.5	12.3	8.2	26.9
30	17.7	S	5.2	8.7	15.8	9.9	11.5	9.2	20.6	11.2	5.5	6.6	9.1	27.7	21.0	23.5	25.1	18.6	21.7	4.6	4.0	9.1	2.4	2.5	12.7	27.7
31	4.6	S	13.2	15.7	8.1	4.8	9.8	9.0	16.4	11.0	10.9	9.6	16.8	15.2	5.2	2.8	9.8	4.3	2.7	3.1	2.9	3.1	3.4	8.2	8.3	16.8
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	707	100.0%
MEAN	7.8	-	7.5	8.9	10.3	11.7	16.3	15.9	15.9	13.6	13.8	12.3	8.0	7.4	7.7	9.0	8.6	7.7	8.1	7.6	9.7	7.0	8.4	8.5		
MAX	42.0	-	29.4	29.2	30.6	40.8	66.3	48.6	40.3	37.8	40.2	43.5	38.3	29.6	26.9	48.7	32.3	28.3	33.8	29.3	44.3	13.7	27.1	21.4		



Number of Non-Zero Readings	707
Maximum 1-HR Average	66.3 PPB
Maximum 24-HR Average	21.8 PPB
Monthly Calibration	6
Standard Deviation	8.848
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	10.1 PPB

Lagoon NO (ppb) – March 2025

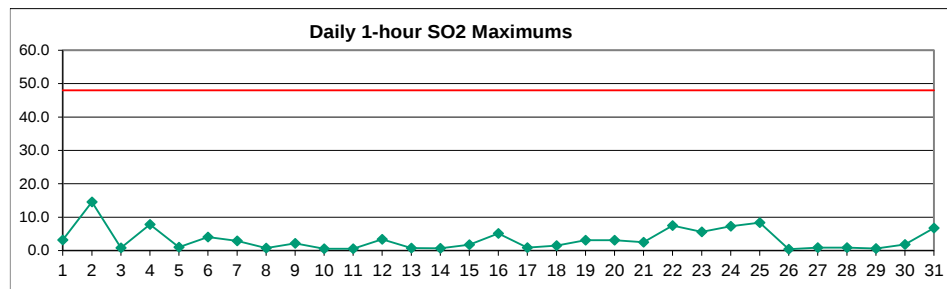
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.3	S	1.2	1.0	2.4	6.5	10.0	6.8	2.4	1.2	2.1	0.7	0.9	0.3	0.7	0.2	0.2	0.7	2.6	0.5	2.2	2.2	3.2	2.1	2.2	10.0
2	1.2	S	1.0	1.4	4.4	17.2	3.3	3.1	10.0	8.1	9.8	3.4	4.6	1.1	0.7	1.7	6.6	9.0	5.4	1.5	1.4	0.2	6.6	1.7	4.5	17.2
3	0.6	S	0.3	0.3	10.8	3.0	4.4	0.9	0.4	0.9	8.0	14.4	1.7	3.2	2.8	5.1	1.1	0.6	2.9	2.6	2.4	0.7	0.5	5.1	3.2	14.4
4	0.6	S	10.5	5.3	1.5	0.6	9.5	5.2	12.0	11.4	C	C	C	C	C	C	0.2	0.9	0.6	0.3	0.0	0.5	0.2	0.5	-	-
5	0.6	S	3.3	1.4	3.9	2.5	6.1	1.1	3.6	13.1	4.1	1.2	0.8	4.8	4.1	1.1	1.1	0.5	0.0	0.2	0.2	0.9	0.9	2.2	2.5	13.1
6	0.3	S	1.6	0.7	5.6	3.2	2.9	2.4	9.1	13.5	15.2	14.4	6.9	1.8	0.9	0.4	0.3	2.9	2.3	1.3	7.6	3.4	0.4	1.4	4.3	15.2
7	0.1	S	0.4	6.5	0.6	3.0	3.5	6.3	4.2	0.7	0.3	2.3	1.7	1.4	7.7	1.7	3.7	1.3	0.0	0.8	0.0	2.6	0.4	0.7	2.2	7.7
8	0.2	S	0.0	0.2	0.4	0.1	0.2	0.8	0.5	0.8	0.0	0.1	0.1	0.2	0.0	0.2	0.4	1.7	1.9	1.6	1.0	0.6	0.9	1.0	0.6	1.9
9	1.1	S	0.9	1.7	0.3	0.6	0.0	0.8	2.1	0.5	0.0	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.0	2.0	0.1	0.3	0.0	1.1	0.5	2.1
10	0.0	S	0.0	0.0	0.0	0.4	2.9	15.6	16.4	11.9	5.1	6.8	3.1	3.0	0.6	0.2	0.4	4.3	0.8	0.3	1.4	0.2	0.2	0.1	3.2	16.4
11	0.3	S	0.0	0.4	1.4	0.3	0.6	1.2	1.9	1.8	5.1	4.6	3.5	0.8	0.2	0.7	0.3	0.1	3.6	0.5	6.1	0.2	3.1	0.1	1.6	6.1
12	0.0	S	0.1	3.4	0.8	0.7	0.5	5.0	10.9	12.3	6.5	6.5	6.6	6.8	2.4	2.6	15.1	11.5	2.9	0.2	27.6	0.2	5.6	2.3	5.7	27.6
13	19.4	S	1.3	1.0	0.2	0.5	8.6	3.0	2.8	1.3	16.0	3.8	3.6	2.3	1.8	13.3	0.9	0.4	1.7	7.1	6.2	1.7	7.8	0.0	4.5	19.4
14	1.1	S	0.1	0.1	0.2	2.7	4.5	5.2	4.4	4.3	1.9	1.7	1.6	4.2	8.3	1.7	1.0	1.3	2.9	0.7	0.9	0.2	0.7	0.8	2.2	8.3
15	0.3	S	0.3	1.3	0.6	4.6	0.9	2.3	9.2	17.1	25.9	12.0	4.7	2.8	1.6	1.2	0.8	0.5	2.1	0.3	0.5	0.1	0.2	0.5	3.9	25.9
16	3.9	S	0.5	0.3	2.9	0.1	9.8	17.6	12.6	9.6	16.6	24.2	17.8	17.8	11.7	11.4	17.2	6.6	17.4	13.1	2.3	0.0	3.9	1.4	9.5	24.2
17	0.5	S	0.5	4.4	1.3	2.2	2.6	6.0	2.7	2.3	2.2	0.2	0.0	0.5	0.9	1.0	0.7	0.1	0.4	4.8	3.5	2.5	1.0	0.2	1.8	6.0
18	0.0	S	2.9	3.3	8.5	1.6	28.8	14.7	15.7	1.9	5.5	5.8	2.8	1.2	2.0	4.9	4.6	0.1	0.0	0.5	2.4	2.8	0.2	0.0	4.8	28.8
19	1.0	S	1.1	0.4	5.5	0.8	2.9	6.5	2.0	1.8	3.2	3.6	0.9	0.4	0.1	0.2	0.4	0.3	0.9	0.9	0.1	0.1	0.0	0.0	1.4	6.5
20	0.0	S	0.0	0.0	0.1	0.0	2.1	4.5	4.0	1.7	1.8	4.2	2.4	3.8	4.9	1.3	0.0	0.5	0.8	0.9	2.8	0.1	1.5	2.3	1.7	4.9
21	0.1	S	1.3	0.0	0.2	2.4	2.6	9.3	3.1	3.9	1.0	1.6	0.6	0.5	3.2	3.8	0.2	0.0	0.4	0.2	1.7	0.2	1.2	0.2	1.6	9.3
22	2.4	S	3.9	2.6	7.5	2.3	5.0	1.0	9.1	5.5	3.1	0.4	2.4	1.4	1.9	1.0	3.2	1.1	0.1	2.6	0.6	0.3	0.3	0.7	2.5	9.1
23	2.0	S	1.4	2.1	0.8	0.6	0.0	0.0	0.0	0.1	3.8	13.3	1.2	0.0	0.0	0.2	2.7	5.0	0.1	0.0	0.2	0.4	0.9	0.6	1.5	13.3
24	0.6	S	1.0	2.6	0.6	1.8	9.1	7.9	3.1	6.5	3.4	3.6	1.1	0.2	6.0	12.9	6.8	0.9	0.0	0.1	0.3	2.0	3.4	1.0	3.3	12.9
25	0.1	S	0.5	2.1	2.7	12.0	7.2	22.2	18.1	7.6	20.6	21.5	16.8	7.3	2.4	0.4	0.7	0.4	4.3	0.5	0.2	1.1	0.1	0.3	6.5	22.2
26	0.1	S	1.6	0.0	0.1	1.7	20.6	13.1	4.3	4.4	14.8	8.9	5.7	3.6	1.2	3.0	4.9	2.8	0.5	0.0	0.1	0.0	0.0	3.2	4.1	20.6
27	1.3	S	0.6	7.8	1.7	9.4	4.0	5.7	18.8	14.4	16.3	14.2	0.9	0.8	2.3	0.8	0.4	0.5	0.2	0.2	0.0	0.4	2.4	1.1	4.5	18.8
28	0.2	S	1.2	2.5	3.7	6.7	7.2	5.4	4.8	20.3	3.4	2.9	2.0	1.6	4.7	30.3	16.2	7.4	2.5	1.1	5.1	2.5	0.1	0.0	5.7	30.3
29	0.0	S	0.9	0.2	0.6	1.8	4.8	0.7	1.2	3.8	4.3	3.9	3.2	3.7	17.8	10.2	2.0	4.7	0.2	0.4	0.2	0.0	0.2	2.4	2.9	17.8
30	4.9	S	0.0	0.6	5.1	0.8	2.8	2.7	11.1	6.0	2.7	3.3	4.9	17.4	11.9	13.3	14.1	8.3	9.0	0.5	0.6	3.2	0.1	0.2	5.4	17.4
31	0.5	S	0.0	0.5	1.4	0.4	2.5	2.3	7.9	5.1	6.3	4.4	8.1	7.2	1.9	0.6	4.9	1.1	0.1	0.1	0.2	0.1	0.0	1.5	2.5	8.1
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	707	100.0%
MEAN	1.4	-	1.2	1.7	2.4	2.9	5.5	5.8	6.7	6.2	7.0	6.3	3.7	3.3	3.5	4.2	3.6	2.4	2.2	1.5	2.5	1.0	1.5	1.1		
MAX	19.4	-	10.5	7.8	10.8	17.2	28.8	22.2	18.8	20.3	25.9	24.2	17.8	17.8	17.8	30.3	17.2	11.5	17.4	13.1	27.6	3.4	7.8	5.1		



Number of Non-Zero Readings	675		
Maximum 1-HR Average	30.3 PPB		
Maximum 24-HR Average	9.5 PPB		
Monthly Calibration	6	Operational Time	744 HRS
Standard Deviation	4.718	Operational Uptime	100.0 %
		Monthly Average	3.4 PPB

Lagoon SO₂ (ppb) – March 2025

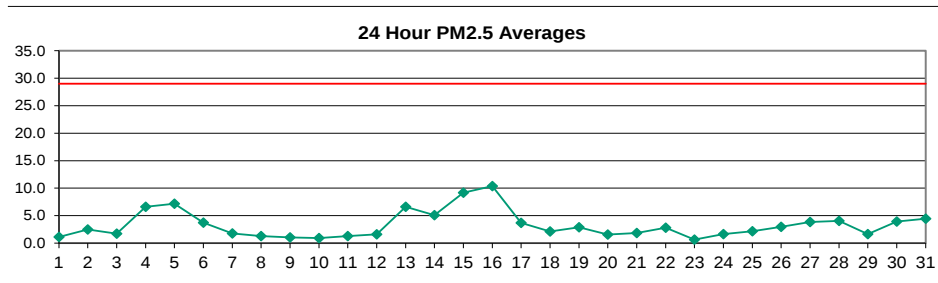
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	0.1	S	0.5	0.4	1.2	2.0	3.2	2.8	1.0	0.2	0.3	0.4	0.3	0.2	0.0	0.0	0.3	0.3	0.8	1.4	2.6	2.7	2.5	2.3	1.1	3.2
2	1.2	S	0.2	0.5	3.4	14.6	3.7	2.8	9.0	7.6	8.2	1.4	0.5	0.4	0.4	0.7	1.5	1.1	1.0	0.9	0.8	0.5	0.6	0.4	2.7	14.6
3	0.5	S	0.2	0.2	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.2	0.4	0.4	0.8	0.3	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.3	0.8
4	0.0	S	0.0	0.1	0.1	0.1	0.9	1.5	2.7	7.8	C	C	C	C	1.4	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.8	7.8
5	0.1	S	0.5	1.0	0.5	0.3	0.1	0.0	0.0	0.3	0.2	0.0	0.2	0.3	0.5	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.2	1.0
6	0.2	S	0.3	0.4	0.2	0.7	0.1	0.7	1.6	4.1	4.1	2.5	0.4	0.0	0.3	0.3	0.1	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.7	4.1
7	0.0	S	0.2	0.8	0.6	0.9	2.9	2.1	0.3	0.1	0.1	0.0	0.2	0.3	0.8	0.5	0.5	0.9	0.0	0.0	0.0	1.0	0.3	0.0	0.5	2.9
8	0.0	S	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.8	0.6	0.1	0.8
9	0.2	S	2.2	1.8	0.4	0.2	0.3	0.1	0.2	0.4	0.0	0.2	0.1	0.1	0.5	0.4	0.3	0.0	0.1	0.1	0.2	0.3	0.1	0.5	0.4	2.2
10	0.4	S	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.5	0.5	0.2	0.0	0.3	0.1	0.2	0.3	0.1	0.1	0.3	0.1	0.1	0.3	0.5	0.2	0.5
11	0.6	S	0.0	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.1	0.2	0.0	0.0	0.2	0.2	0.1	0.3	0.2	0.1	0.5	0.2	0.2	0.2	0.6
12	0.2	S	0.0	0.1	0.1	0.2	0.2	0.3	0.5	0.4	0.4	0.8	0.7	0.9	0.7	0.7	3.4	1.1	0.4	0.2	0.6	0.2	0.4	0.3	0.5	3.4
13	0.7	S	0.2	0.3	0.3	0.3	0.6	0.3	0.2	0.3	0.7	0.4	0.4	0.4	0.3	0.6	0.2	0.3	0.5	0.4	0.3	0.2	0.2	0.1	0.4	0.7
14	0.2	S	0.5	0.4	0.3	0.4	0.6	0.7	0.6	0.2	0.2	0.3	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.4	0.2	0.2	0.3	0.7
15	0.3	S	0.1	0.2	0.2	0.2	0.1	0.0	0.3	0.9	1.8	1.4	0.6	0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.4	1.8
16	0.3	S	0.0	0.2	0.2	0.1	0.3	0.3	0.5	0.5	3.5	5.1	1.9	1.5	0.9	0.7	0.8	0.4	0.5	0.4	0.2	0.1	0.5	0.4	0.8	5.1
17	0.1	S	0.3	0.9	0.3	0.3	0.6	0.4	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.2	0.2	0.9
18	0.0	S	0.0	0.1	0.2	0.0	0.5	0.3	0.3	0.0	0.0	0.0	0.7	0.1	0.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5
19	0.0	S	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.1	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	0.2	3.1
20	0.0	S	0.0	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.6	2.8	0.8	1.7	3.1	1.1	0.0	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.5	3.1
21	0.0	S	0.0	0.1	0.0	0.1	0.2	0.4	0.7	2.5	0.4	0.6	0.2	0.2	2.2	1.6	0.2	0.2	0.8	0.0	0.0	0.5	1.8	0.8	0.6	2.5
22	0.5	S	1.6	2.0	7.1	1.5	0.6	0.4	7.5	4.0	0.9	0.2	2.5	2.1	2.0	0.4	3.1	0.7	0.0	0.8	0.5	0.3	0.2	1.0	1.7	7.5
23	1.1	S	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.6	0.5	0.1	0.2	0.2	2.8	4.1	0.3	0.2	0.1	0.1	0.1	0.1	0.9	5.6
24	0.1	S	0.0	0.0	0.1	0.2	0.7	1.1	0.5	3.8	2.2	1.9	0.2	0.2	2.6	7.3	3.5	0.9	0.0	0.0	0.4	2.2	1.3	1.3	1.3	7.3
25	0.3	S	0.1	0.0	0.3	1.3	0.2	0.4	0.9	0.6	4.8	8.0	4.7	8.4	1.7	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	1.4	8.4
26	0.0	S	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.3	0.2	0.1	0.1	0.1	0.4	0.4	0.2	0.0	0.0	0.2	0.0	0.2	0.2	0.1	0.4
27	0.1	S	0.1	0.4	0.2	0.3	0.2	0.2	0.6	0.5	0.4	0.5	0.0	0.9	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.9
28	0.0	S	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.9	0.4	0.1	0.1	0.0	0.0	0.8	0.5	0.5	0.2	0.0	0.1	0.1	0.0	0.0	0.2	0.9
29	0.0	S	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
30	0.0	S	0.0	0.1	0.4	0.3	0.0	0.3	1.5	1.2	0.0	0.0	0.1	1.8	0.7	0.7	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3	1.8
31	0.0	S	0.2	0.5	0.3	0.3	0.1	0.2	0.1	0.3	0.9	1.3	6.7	3.4	0.7	0.2	0.4	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.7	6.7
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	709	100.0%
MEAN	0.2	-	0.3	0.4	0.6	0.8	0.6	0.5	1.0	1.2	1.3	1.2	0.8	0.8	0.7	0.7	0.7	0.4	0.2	0.2	0.3	0.4	0.3			
MAX	1.2	-	2.2	2.0	7.1	14.6	3.7	2.8	9.0	7.8	8.2	8.0	6.7	8.4	3.1	7.3	3.5	4.1	1.0	1.4	2.6	2.7	2.5	2.3		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	584
Maximum 1-HR Average	14.6 PPB
Maximum 24-HR Average	2.7 PPB
Monthly Calibration	4
Standard Deviation	1.279
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	0.6 PPB

Lagoon PM_{2.5} (µg/m³) – March 2025

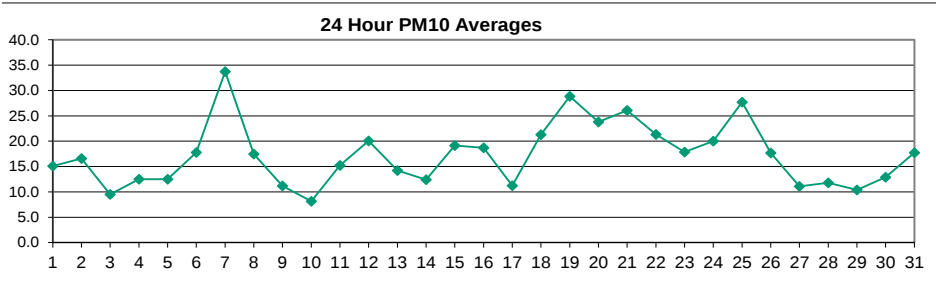
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.3	1.7	0.9	0.0	0.8	1.9	6.3	4.3	1.4	1.7	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.4	0.0	0.0	0.0	1.1	6.3
2	0.8	0.0	0.0	2.7	1.5	1.2	6.1	5.2	1.0	2.5	7.0	4.4	1.3	2.6	2.3	0.5	0.0	0.0	4.0	3.5	1.4	3.4	4.4	4.2	2.5	7.0
3	2.7	3.4	4.3	2.3	2.0	1.3	0.7	1.0	0.0	0.8	2.5	5.6	4.6	2.6	0.6	0.0	0.5	3.0	1.7	0.0	0.0	0.0	2.0	0.0	1.7	5.6
4	3.9	4.5	0.6	0.0	0.0	1.3	3.4	4.0	6.2	7.2	13.1	7.5	3.3	22.3	10.8	3.9	1.3	19.3	14.8	5.5	0.0	16.1	8.8	0.5	6.6	22.3
5	6.2	13.3	11.6	5.1	2.0	2.4	0.4	1.1	2.1	1.7	0.1	1.8	31.2	76.8	2.3	0.3	0.0	0.0	2.3	2.8	1.1	0.0	3.3	4.7	7.2	76.8
6	5.0	9.1	9.7	7.8	4.0	2.3	1.8	1.1	1.9	2.6	11.9	8.6	C	C	C	C	C	0.5	0.5	0.0	0.0	0.0	0.0	3.7	3.7	11.9
7	3.1	0.0	0.1	0.3	0.0	1.2	0.0	0.0	0.7	4.4	1.7	0.0	1.4	2.2	2.9	5.4	4.2	5.4	4.3	0.7	2.7	1.2	0.0	0.5	1.8	5.4
8	0.2	1.5	1.3	0.0	0.0	0.0	0.5	0.6	2.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.7	2.1	2.7	2.2	5.9	4.7	1.8	1.3	5.9
9	3.0	4.5	1.6	2.0	1.0	0.0	1.3	0.0	0.0	1.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	2.1	1.4	0.0	1.0	1.5	1.1	0.0	1.1	4.5
10	0.0	0.0	4.0	2.2	0.0	0.0	0.0	0.0	1.0	1.4	3.6	0.9	0.0	3.6	3.0	0.0	0.0	0.0	0.4	0.0	0.0	1.9	0.0	0.0	0.9	4.0
11	0.0	0.0	1.9	0.0	0.0	1.0	0.4	0.9	0.7	0.0	4.7	4.2	1.0	0.1	0.6	1.1	1.2	1.7	2.4	3.5	1.9	1.0	1.3	0.8	1.3	4.7
12	1.8	0.8	0.2	1.8	2.2	0.4	0.0	0.1	3.9	4.9	2.3	0.0	1.2	2.4	2.2	1.7	2.0	3.0	0.6	0.0	0.1	1.1	2.1	4.1	1.6	4.9
13	4.1	9.1	9.7	9.8	8.8	7.9	8.4	9.8	10.9	11.5	6.4	7.7	6.8	4.3	2.7	6.3	7.6	5.0	0.9	0.8	1.8	3.8	5.8	8.6	6.6	11.5
14	5.5	2.9	3.7	4.0	5.1	4.9	3.9	4.2	2.4	1.5	3.9	4.4	2.7	2.0	3.9	5.8	5.1	7.5	6.7	4.4	7.6	9.8	8.7	11.6	5.1	11.6
15	9.8	10.3	10.5	10.3	10.3	11.7	11.9	9.2	6.8	9.1	12.0	17.5	12.1	9.2	8.6	9.3	5.9	3.9	8.5	6.0	2.3	5.5	11.2	8.7	9.2	17.5
16	9.8	8.2	9.0	7.7	7.1	6.5	8.6	11.6	12.1	10.0	11.7	14.9	15.1	12.8	12.2	11.5	10.0	7.4	6.2	5.7	7.9	13.9	10.7	18.6	10.4	18.6
17	10.5	6.9	4.7	3.8	4.6	4.1	1.5	1.1	1.8	7.2	12.7	7.6	3.8	2.4	2.0	0.7	0.0	0.4	1.3	2.7	1.1	2.2	4.8	1.2	3.7	12.7
18	0.0	0.0	2.4	2.4	0.8	2.0	2.8	6.1	6.4	4.5	1.0	2.3	2.7	1.9	0.9	0.0	3.6	3.6	0.9	3.1	2.6	0.0	0.9	0.3	2.1	6.4
19	0.0	0.1	0.0	4.5	3.6	2.4	2.4	1.5	3.0	4.3	7.7	9.7	8.0	3.2	1.3	4.9	3.8	2.0	1.2	0.0	0.1	3.6	2.2	0.0	2.9	9.7
20	0.0	0.0	2.5	0.0	0.4	3.1	1.7	2.2	4.0	3.6	2.5	0.5	1.9	4.1	2.4	3.1	1.8	2.2	1.4	0.0	0.0	0.0	0.0	0.0	1.6	4.1
21	0.0	0.7	0.0	0.6	1.2	0.0	1.9	2.5	4.5	9.5	6.0	1.1	0.0	0.0	3.7	3.0	1.3	0.2	0.5	2.2	1.4	1.5	1.7	1.1	1.9	9.5
22	1.2	0.0	0.9	2.1	3.2	10.7	6.4	0.0	0.0	12.2	6.6	0.9	0.2	0.0	2.2	2.6	1.6	1.6	3.4	4.2	1.2	0.0	1.0	5.5	2.8	12.2
23	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	2.9	2.5	2.9	0.7	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.6	4.0
24	0.0	0.9	0.2	0.4	1.2	0.9	0.0	2.1	3.6	2.1	3.5	3.7	1.9	3.1	0.2	4.2	4.2	3.1	1.0	0.0	1.2	0.0	0.1	1.8	1.6	4.2
25	0.8	1.1	1.6	0.5	0.2	0.4	0.7	3.4	15.1	9.1	2.6	3.4	3.4	2.4	1.1	0.9	0.9	0.0	1.9	1.7	0.2	0.4	0.0	0.4	2.2	15.1
26	1.0	0.8	1.7	0.0	0.5	3.5	6.3	4.4	5.5	8.2	4.7	2.5	2.7	2.1	4.0	3.4	1.8	2.3	4.4	2.5	2.4	1.8	1.3	3.9	3.0	8.2
27	3.1	3.9	2.6	0.0	2.1	3.9	5.4	7.5	6.7	9.0	11.6	9.3	6.5	4.5	2.6	4.2	3.3	2.3	2.2	1.1	0.0	0.0	0.0	0.4	3.8	11.6
28	3.4	3.9	1.3	0.0	1.3	1.3	0.9	0.8	2.4	2.1	5.8	6.3	5.0	4.6	5.4	4.0	10.3	10.9	7.4	4.8	4.0	3.8	3.1	4.0	4.0	10.9
29	6.1	4.9	2.8	2.0	0.6	0.7	1.1	0.5	1.1	0.8	2.3	2.3	3.7	3.1	0.2	0.2	0.3	0.0	2.4	2.3	0.6	0.7	0.5	0.0	1.6	6.1
30	4.4	5.1	6.1	4.9	2.0	4.1	3.5	6.0	6.5	9.9	7.1	4.2	2.6	1.6	3.0	3.8	4.4	4.3	2.4	2.4	2.0	0.0	0.7	3.5	3.9	9.9
31	7.0	5.7	5.1	8.0	12.1	7.8	3.5	1.2	3.1	4.0	2.3	3.2	7.0	11.9	7.3	3.0	1.6	2.2	0.5	0.3	3.0	1.9	2.6	3.0	4.5	12.1
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	739	100.0%
MEAN	3.2	3.4	3.3	2.7	2.5	2.9	3.0	3.0	3.8	4.8	5.3	4.5	4.4	6.2	2.9	2.8	2.6	3.1	2.9	2.1	1.7	2.6	2.7	3.0		
MAX	10.5	13.3	11.6	10.3	12.1	11.7	11.9	11.6	15.1	12.2	13.1	17.5	31.2	76.8	12.2	11.5	10.3	19.3	14.8	6.0	7.9	16.1	11.2	18.6		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	610
Maximum 1-HR Average	76.8 UG/M3
Maximum 24-HR Average	10.4 UG/M3
Monthly Calibration	5
Standard Deviation	4.523
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	3.3 UG/M3

Lagoon PM₁₀ (µg/m³) – March 2025

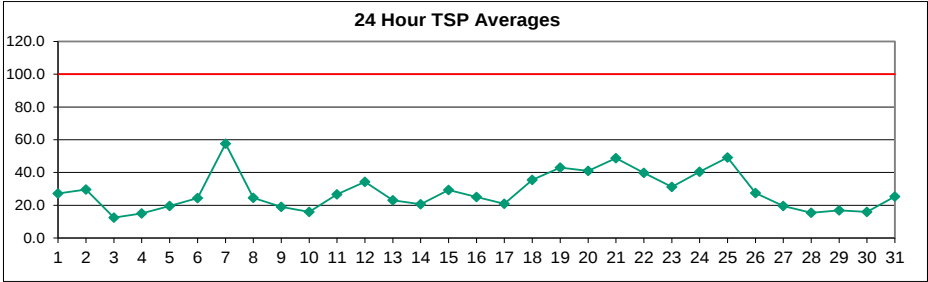
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.7	6.3	11.5	17.5	21.2	23.9	14.5	6.9	29.3	37.1	12.8	15.5	6.6	4.4	11.9	10.7	6.1	2.2	4.1	14.5	25.1	29.6	30.5	13.1	15.1	37.1
2	15.8	4.6	6.2	4.9	10.3	29.1	12.4	12.0	17.4	35.4	19.1	29.2	33.0	13.7	7.3	4.4	6.2	34.0	28.9	23.3	16.0	6.1	6.5	22.4	16.6	35.4
3	12.9	11.7	11.5	7.8	8.3	9.8	5.2	5.6	8.8	6.5	5.0	14.9	13.5	9.1	13.0	11.8	15.4	10.5	6.0	7.3	9.6	8.1	8.6	7.6	9.5	15.4
4	6.8	10.9	18.1	0.1	13.3	15.6	14.7	18.9	8.3	20.7	31.6	38.2	14.5	9.2	4.8	18.4	3.6	5.6	15.0	9.7	8.4	8.1	4.5	1.2	12.5	38.2
5	0.0	20.5	5.3	6.5	11.0	7.0	17.8	25.9	23.5	20.9	12.5	19.3	7.9	9.9	14.1	18.3	4.7	6.0	8.7	13.2	7.4	9.0	16.3	13.6	12.5	25.9
6	14.1	14.5	37.7	19.8	2.1	9.1	9.9	10.2	10.3	10.0	32.8	24.9	C	C	C	C	C	6.2	5.9	10.3	26.2	21.7	33.2	38.8	17.8	38.8
7	15.6	1.4	3.2	29.5	19.3	26.6	13.5	39.8	37.7	83.5	20.5	18.8	41.2	56.0	68.3	73.3	67.9	64.9	59.2	8.4	5.2	3.0	41.2	11.3	33.7	83.5
8	16.1	9.3	6.7	4.0	3.9	8.4	9.9	6.5	4.1	34.6	14.8	5.6	11.5	13.5	7.6	5.4	8.6	6.2	26.0	36.4	37.3	68.2	31.9	42.8	17.5	68.2
9	31.3	35.9	14.6	14.8	14.9	9.6	15.3	20.7	20.7	17.1	10.5	7.3	7.2	5.8	3.3	6.7	5.4	4.1	4.3	3.4	5.9	5.7	3.4	0.0	11.2	35.9
10	0.0	5.7	14.5	5.2	6.3	5.2	1.7	0.0	2.6	2.8	7.3	4.8	10.9	8.1	21.1	10.1	5.9	7.3	8.3	13.7	13.2	14.4	9.9	16.0	8.1	21.1
11	9.6	13.2	20.5	0.0	8.9	11.2	7.5	15.9	10.2	16.7	26.4	42.1	28.7	22.8	1.7	5.6	7.8	9.7	8.4	20.6	18.4	22.7	22.0	15.3	15.2	42.1
12	12.4	9.3	11.3	8.7	7.4	5.3	13.7	38.7	34.3	57.0	43.2	11.2	12.7	22.4	13.6	12.6	17.2	23.4	22.5	22.9	7.6	16.2	26.1	32.3	20.1	57.0
13	19.7	26.8	21.7	14.9	16.3	11.8	14.8	18.3	18.2	13.1	11.1	13.2	8.0	7.1	7.6	9.1	14.1	17.6	12.5	10.8	12.0	14.8	16.1	11.4	14.2	26.8
14	7.8	5.4	8.6	7.7	5.0	15.7	7.7	9.0	7.8	9.1	8.4	6.9	13.8	8.6	9.6	19.7	10.4	15.9	24.6	21.3	17.2	20.9	16.7	19.7	12.4	24.6
15	22.2	18.9	17.4	16.6	17.5	20.9	19.3	10.3	11.2	24.4	30.1	25.2	24.1	20.1	16.5	24.5	20.5	18.2	17.8	21.1	22.6	16.5	10.7	13.1	19.2	30.1
16	18.7	14.9	17.1	11.9	17.9	15.4	15.2	15.1	19.6	23.6	19.5	26.5	33.8	27.5	20.3	17.6	11.6	16.7	10.6	14.6	14.8	12.1	23.5	29.7	18.7	33.8
17	24.7	19.1	7.8	5.2	3.4	4.8	7.2	13.3	12.3	15.8	41.9	21.6	7.1	3.8	2.9	3.7	3.2	2.0	1.2	12.5	8.3	18.3	19.1	10.0	11.2	41.9
18	8.2	13.4	11.5	8.4	9.1	15.4	29.0	56.3	54.1	29.6	13.4	12.5	12.5	12.0	21.4	49.1	52.9	37.3	6.3	4.3	6.6	16.6	11.5	19.9	21.3	56.3
19	13.0	7.3	15.7	15.6	36.8	37.1	35.4	47.4	73.5	45.4	41.4	115.2	57.4	25.1	32.8	13.2	10.5	17.4	7.3	12.3	9.4	11.8	8.0	4.1	28.9	115.2
20	10.0	9.2	9.4	7.9	47.5	16.7	9.4	29.3	45.3	46.3	28.1	27.1	68.9	45.0	38.2	43.0	25.7	10.5	8.1	4.9	9.2	7.3	10.0	13.8	23.8	68.9
21	15.3	11.5	11.1	20.0	8.3	7.9	17.3	46.4	79.6	67.5	48.8	39.2	16.8	9.7	11.2	37.4	36.5	1.6	7.0	7.7	11.6	22.6	53.0	37.7	26.1	79.6
22	25.7	28.4	26.5	20.0	24.6	14.6	8.7	6.5	2.8	24.1	16.0	16.5	11.3	31.9	25.5	11.3	12.1	18.5	26.2	11.1	20.5	9.2	54.8	65.3	21.3	65.3
23	28.5	13.7	19.2	17.5	20.2	24.7	8.4	9.1	15.4	10.3	8.8	56.7	73.2	9.4	19.5	15.2	12.2	21.7	29.6	0.8	3.1	2.0	3.0	7.0	17.9	73.2
24	5.4	2.6	5.7	6.1	4.5	4.1	13.3	30.8	31.7	32.6	50.1	27.8	25.3	7.0	8.4	53.5	62.7	43.0	12.2	5.2	0.0	17.4	21.9	8.9	20.0	62.7
25	5.0	6.7	9.2	11.8	8.6	11.2	34.4	46.0	84.1	75.7	19.1	39.7	46.0	52.5	44.4	29.7	18.6	11.3	26.3	28.8	14.9	7.0	16.9	17.3	27.7	84.1
26	20.8	17.0	16.5	23.5	16.3	12.5	18.0	12.3	16.8	16.8	13.6	18.6	19.7	27.4	22.4	25.4	25.3	29.2	18.5	14.2	8.7	9.7	9.7	11.8	17.7	29.2
27	12.2	14.2	12.2	11.9	11.6	13.3	18.7	13.7	9.1	24.2	27.8	18.0	15.8	0.3	2.3	8.7	6.2	5.9	5.7	2.8	1.5	8.2	6.1	16.1	11.1	27.8
28	6.7	4.8	6.8	9.9	6.2	6.0	7.3	3.0	10.3	12.5	16.6	10.1	7.3	20.8	13.9	10.0	19.1	25.1	18.6	13.7	11.0	15.0	14.5	13.8	11.8	25.1
29	16.8	11.7	8.1	15.7	12.0	8.1	14.1	0.0	5.3	3.9	13.3	13.3	13.0	12.7	7.9	14.6	11.2	9.3	14.2	7.2	7.3	9.5	11.9	8.1	10.4	16.8
30	5.8	11.5	8.4	12.2	11.2	16.4	17.4	14.7	12.4	12.1	23.5	23.9	11.1	7.4	16.6	14.0	12.0	14.0	7.8	9.5	9.8	15.7	12.4	9.5	12.9	23.9
31	11.6	13.0	16.6	16.3	20.7	9.2	10.3	14.7	25.7	38.8	44.6	45.1	40.0	20.9	15.0	11.8	9.2	6.6	8.0	12.7	6.4	3.5	12.5	12.5	17.7	45.1
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	739	100.0%
MEAN	13.5	12.7	13.3	12.0	13.7	13.8	14.3	19.3	24.0	28.0	23.0	25.5	23.1	17.5	16.8	19.6	17.4	16.2	14.8	12.9	12.1	14.5	18.3	17.5		
MAX	31.3	35.9	37.7	29.5	47.5	37.1	35.4	56.3	84.1	83.5	50.1	115.2	73.2	56.0	68.3	73.3	67.9	64.9	59.2	36.4	37.3	68.2	54.8	65.3		



Number of Non-Zero Readings	732
Maximum 1-HR Average	115.2 UG/M3
Maximum 24-HR Average	33.7 UG/M3
Monthly Calibration	5
Standard Deviation	14.11
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	17.2 UG/M3

Lagoon TSP (µg/m³) – March 2025

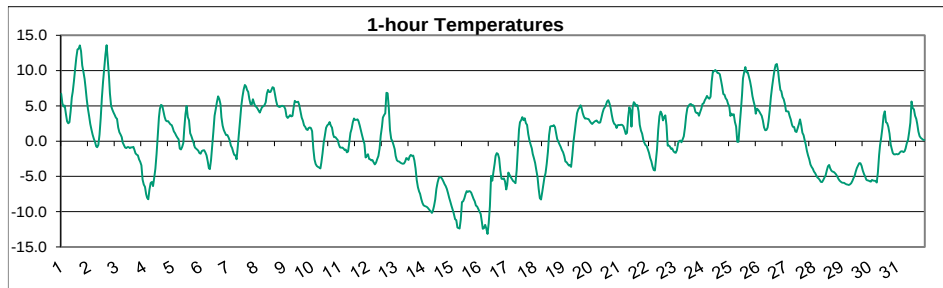
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	14.1	23.7	21.1	37.0	35.9	42.8	17.2	22.5	45.0	57.9	20.9	11.5	6.5	10.5	15.3	12.8	13.6	10.3	6.8	30.3	54.8	66.4	53.4	23.6	27.2	66.4
2	28.2	24.0	8.8	11.5	8.7	46.0	21.9	22.5	23.5	51.1	31.9	63.3	54.9	25.3	12.8	15.1	21.8	64.6	48.4	38.4	19.6	19.4	15.9	32.6	29.6	64.6
3	31.4	16.4	15.1	8.5	7.5	14.0	11.2	11.7	10.2	9.0	11.2	24.4	19.9	3.9	11.2	19.5	19.1	16.4	0.0	5.1	2.9	13.0	9.8	9.2	12.5	31.4
4	11.0	18.8	22.1	5.4	4.3	13.5	12.0	16.3	17.9	23.0	28.2	46.5	13.3	11.0	8.7	20.3	7.3	7.8	23.7	19.6	12.3	7.0	5.3	5.5	15.0	46.5
5	11.2	35.5	5.4	10.7	27.2	17.4	20.6	40.2	37.8	36.8	22.1	29.6	2.7	16.1	29.1	36.5	7.4	18.0	8.7	18.6	8.3	7.0	12.7	11.5	19.6	40.2
6	16.1	19.5	28.7	16.7	9.0	2.1	10.5	12.5	24.1	29.4	27.7	30.2	C	C	C	C	C	11.0	11.7	24.7	39.0	34.8	50.1	64.4	24.3	64.4
7	27.0	13.4	10.7	54.9	33.1	48.4	24.5	70.0	62.7	154.7	27.8	23.9	62.4	92.4	129.6	120.2	105.3	105.7	87.3	17.2	8.7	8.6	76.2	16.8	57.6	154.7
8	13.0	10.9	8.0	5.6	9.8	13.3	13.7	12.0	9.9	49.1	20.0	14.8	18.6	19.5	15.0	10.2	7.8	9.8	29.0	47.5	58.1	85.7	39.0	67.4	24.5	85.7
9	63.9	61.0	19.8	33.0	32.2	11.4	20.6	20.9	28.9	25.7	12.0	9.8	12.2	11.5	12.0	11.7	8.7	6.1	8.1	13.2	11.8	12.6	6.7	3.1	19.0	63.9
10	8.1	14.9	37.9	10.9	8.5	7.7	6.3	4.6	5.9	10.6	19.2	10.3	14.1	22.6	31.5	10.4	5.9	9.1	13.9	29.9	20.9	29.0	24.1	27.5	16.0	37.9
11	21.1	25.7	25.8	5.7	17.2	28.4	14.4	19.9	25.5	30.2	47.1	67.3	48.3	30.1	12.4	8.3	10.7	12.9	19.2	37.3	21.2	34.3	47.8	27.7	26.6	67.3
12	17.1	16.7	10.6	17.8	16.0	10.9	24.4	62.3	54.7	103.4	63.5	20.8	26.6	37.0	31.7	24.6	45.6	57.0	32.6	32.7	9.8	24.2	37.3	47.4	34.4	103.4
13	36.3	52.3	18.4	22.9	19.4	17.5	14.7	23.7	20.0	17.1	0.9	31.2	21.0	14.0	15.1	18.2	23.4	31.1	46.2	24.1	17.6	21.2	31.5	15.2	23.0	52.3
14	24.4	21.9	0.0	12.5	11.7	24.2	6.4	12.8	16.2	11.9	7.8	9.3	15.4	19.8	18.0	57.9	23.6	30.2	30.0	17.4	23.7	38.4	24.2	38.5	20.7	57.9
15	19.7	34.7	33.6	24.6	18.6	22.7	19.5	16.1	14.4	26.8	51.4	39.1	41.3	42.9	47.1	48.2	38.8	38.2	28.8	24.0	23.9	21.2	16.8	12.5	29.4	51.4
16	15.7	37.1	7.8	12.3	17.0	16.1	19.1	19.4	40.0	35.9	27.8	36.2	45.5	30.1	24.1	17.9	22.3	24.9	19.6	29.7	17.8	30.0	17.9	37.0	25.0	45.5
17	34.0	31.4	15.4	8.8	11.7	9.3	14.2	8.9	23.2	24.1	63.5	39.3	9.2	7.0	5.8	22.0	13.7	11.0	8.2	34.4	9.7	36.9	40.2	21.6	21.0	63.5
18	13.0	28.2	17.2	9.4	19.6	22.8	41.4	95.1	89.3	62.7	19.4	19.9	12.7	10.8	29.4	90.1	108.6	59.8	10.1	5.6	11.3	18.4	22.6	34.0	35.5	108.6
19	14.6	25.0	16.0	12.0	55.0	67.3	47.1	77.7	106.0	77.2	59.8	195.6	100.1	30.5	35.2	16.1	16.9	20.3	7.7	6.0	16.7	11.0	9.5	9.5	43.0	195.6
20	6.6	14.3	6.0	7.7	61.6	28.9	16.4	52.8	79.0	78.9	43.6	52.1	137.5	85.8	72.7	86.4	50.6	20.9	12.7	6.7	16.9	17.5	9.1	18.6	41.0	137.5
21	32.2	21.8	21.0	43.8	12.1	20.1	38.4	71.1	151.7	120.9	106.5	75.4	26.2	16.8	25.8	63.3	54.2	12.2	11.9	18.8	14.3	36.5	104.5	69.7	48.7	151.7
22	42.5	42.4	48.8	46.5	42.7	23.6	17.4	6.3	8.6	46.8	31.3	29.2	20.4	71.6	51.0	32.3	15.2	26.6	41.2	23.5	40.2	23.7	98.2	125.8	39.8	125.8
23	46.5	31.8	17.2	36.6	25.9	41.3	29.3	11.9	18.8	15.5	13.9	99.8	145.4	23.8	30.2	19.6	24.5	39.0	48.1	8.0	5.6	6.2	3.4	7.6	31.2	145.4
24	16.2	8.5	7.1	14.9	4.0	16.8	28.2	67.5	73.2	63.2	95.2	50.2	52.7	25.5	27.4	88.3	122.8	82.7	23.9	5.6	10.3	28.7	45.0	13.0	40.5	122.8
25	14.1	17.6	15.6	1.8	14.6	17.3	53.0	74.7	128.6	125.0	43.5	84.3	84.7	92.0	90.1	68.5	29.9	31.4	51.1	49.5	25.4	16.9	17.1	33.0	49.1	128.6
26	28.8	34.4	27.3	29.7	15.1	16.2	18.4	18.5	14.7	24.9	18.0	23.5	29.1	52.3	46.8	44.5	40.6	54.0	42.3	11.3	15.9	19.7	12.2	20.7	27.4	54.0
27	29.3	20.5	27.6	20.2	25.5	25.3	29.4	25.7	27.7	33.2	28.4	27.3	16.1	12.8	12.6	18.0	12.2	11.5	10.6	12.0	12.4	8.3	10.3	14.8	19.6	33.2
28	13.9	20.3	3.6	3.0	8.7	11.2	7.8	11.3	14.8	13.2	24.5	10.5	8.8	13.0	15.5	12.4	34.2	29.2	15.9	18.3	16.5	25.1	21.7	18.6	15.5	34.2
29	18.2	23.7	23.0	21.4	3.3	16.6	14.7	9.1	15.8	17.1	19.6	21.8	22.3	21.8	25.7	26.3	18.2	11.9	23.9	6.8	5.8	19.4	8.0	9.7	16.8	26.3
30	11.2	21.5	2.1	17.8	13.9	16.5	23.6	18.3	18.5	17.1	34.1	18.4	8.3	13.1	18.6	16.8	14.6	17.8	14.6	16.3	12.5	13.0	13.9	10.5	16.0	34.1
31	10.8	22.6	15.1	18.7	21.4	16.0	9.9	19.2	42.9	64.6	64.6	76.3	65.2	41.8	25.0	16.8	13.2	8.3	13.0	13.7	6.9	1.4	6.4	14.9	25.4	76.3
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	739	100.0%
MEAN	22.3	25.5	17.3	18.8	19.7	22.1	20.8	30.8	40.3	47.0	35.0	41.7	38.0	30.2	30.8	35.1	31.0	28.7	24.2	20.8	18.4	23.7	28.7	27.8		
MAX	63.9	61.0	48.8	54.9	61.6	67.3	53.0	95.1	151.7	154.7	106.5	195.6	145.4	92.4	129.6	120.2	122.8	105.7	87.3	49.5	58.1	85.7	104.5	125.8		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	737
Maximum 1-HR Average	195.6 UG/M3
Maximum 24-HR Average	57.6 UG/M3
Monthly Calibration	5
Standard Deviation	24.9
Operational time	744 HRS
Operational Uptime	100.0 %
Monthly Average	28.3 UG/M3

Lagoon Temperature (°C) – March 2025

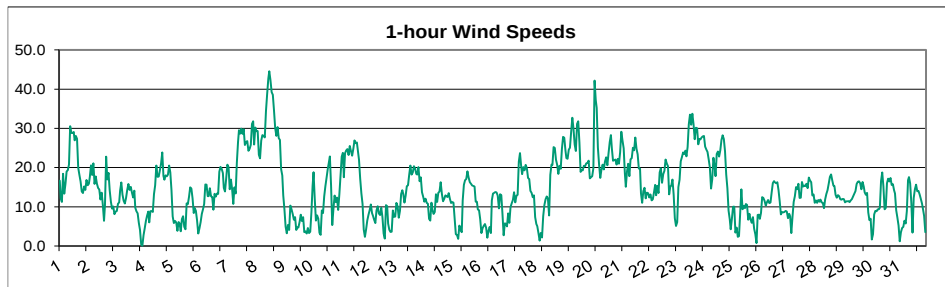
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	6.7	5.4	4.9	5.0	3.9	2.8	2.5	2.7	4.2	6.2	7.0	8.5	10.2	11.8	13.0	13.1	13.6	12.7	10.7	9.8	8.8	7.6	5.9	4.6	7.6	13.6
2	3.6	2.4	1.6	0.9	0.3	-0.1	-0.7	-0.9	-0.5	0.9	3.2	6.1	8.4	10.3	12.3	13.6	11.4	9.2	6.8	5.0	4.5	4.1	3.7	3.3	4.6	13.6
3	3.2	1.9	1.3	0.9	0.6	-0.2	-0.6	-0.9	-1.0	-0.8	-0.9	-1.0	-0.9	-0.9	-0.8	-1.2	-1.7	-1.9	-2.0	-2.6	-2.9	-3.4	-5.5	-6.2	-1.1	3.2
4	-6.5	-7.5	-8.0	-8.2	-6.8	-5.9	-5.8	-6.4	-5.2	-3.9	-1.8	0.8	3.4	4.6	5.2	5.0	4.2	3.4	2.9	2.8	2.8	2.6	2.4	2.3	-1.0	5.2
5	1.9	1.4	1.1	0.8	0.5	0.3	-1.1	-1.2	-0.8	-0.3	1.8	3.8	5.0	3.4	3.0	1.1	0.7	0.2	-0.3	-0.9	-1.1	-1.2	-1.3	-1.7	0.6	5.0
6	-1.8	-1.4	-1.3	-1.3	-1.6	-2.0	-2.8	-3.9	-4.0	-2.7	-0.7	1.4	3.6	4.6	5.6	6.4	6.0	5.2	3.4	2.2	1.6	1.2	0.8	0.9	0.8	6.4
7	0.5	0.1	-0.6	-1.0	-1.6	-1.9	-2.0	-2.6	-0.8	1.1	3.1	5.0	6.3	7.3	8.0	7.7	7.3	7.0	6.0	5.2	5.2	5.9	5.4	5.0	3.1	8.0
8	4.8	4.6	4.3	4.0	4.5	4.9	4.9	5.1	5.5	6.7	7.3	6.9	6.9	7.2	7.6	7.5	6.7	5.7	5.1	4.9	4.8	4.9	5.0	5.0	5.6	7.6
9	4.9	4.5	3.5	3.3	3.5	3.7	3.5	3.5	4.8	5.7	5.5	5.5	5.6	5.1	4.2	3.3	2.9	2.2	2.0	1.7	1.6	1.9	1.9	1.9	3.6	5.7
10	1.4	-1.0	-2.6	-3.2	-3.5	-3.6	-3.7	-3.9	-3.0	-1.8	-0.2	0.8	1.9	2.2	2.4	2.7	2.2	1.9	0.9	0.6	0.6	0.3	0.2	-0.5	-0.4	2.7
11	-0.9	-0.9	-0.9	-1.0	-1.3	-1.2	-1.6	-1.5	-0.2	1.2	1.8	2.7	3.2	3.0	3.0	3.1	2.8	2.2	1.5	0.8	0.2	-0.4	-2.3	-2.1	0.5	3.2
12	-1.8	-2.6	-2.6	-2.8	-2.7	-3.0	-3.3	-3.1	-2.5	-2.1	-1.1	0.8	2.0	3.3	3.7	3.9	6.8	6.8	4.7	1.6	0.3	0.0	-0.5	-1.1	0.2	6.8
13	-2.1	-2.7	-2.9	-2.9	-3.1	-3.2	-3.2	-3.2	-2.9	-2.4	-2.5	-2.7	-2.2	-1.9	-2.1	-2.0	-2.7	-3.9	-5.5	-6.5	-7.1	-7.4	-8.2	-8.8	-3.8	-1.9
14	-9.1	-9.2	-9.3	-9.4	-9.5	-9.8	-9.9	-10.2	-9.9	-9.2	-8.3	-6.8	-5.9	-5.2	-5.1	-5.1	-5.4	-5.8	-6.1	-6.3	-6.7	-7.4	-8.0	-8.6	-7.8	-5.1
15	-9.2	-9.7	-10.3	-11.1	-11.2	-12.3	-12.3	-12.4	-11.1	-8.6	-8.5	-8.1	-7.5	-7.1	-7.2	-7.1	-7.1	-7.3	-7.7	-8.2	-8.5	-9.1	-9.3	-9.6	-9.2	-7.1
16	-10.0	-10.3	-11.4	-12.4	-12.3	-11.9	-12.4	-13.1	-11.6	-9.2	-4.9	-5.6	-4.4	-3.2	-2.1	-1.7	-1.8	-2.4	-4.1	-5.3	-5.4	-5.3	-5.7	-6.8	-7.2	-1.7
17	-6.2	-4.4	-4.8	-5.1	-5.4	-5.7	-5.8	-6.0	-4.2	-1.2	1.7	2.7	3.0	3.4	3.0	3.3	2.5	2.3	1.0	0.1	-0.5	-1.0	-1.8	-2.4	-1.3	3.4
18	-3.1	-4.1	-5.1	-6.8	-8.1	-8.3	-7.2	-6.1	-5.2	-4.5	-3.2	-1.5	0.8	2.1	2.2	2.1	2.3	2.0	1.0	0.3	-0.1	-0.5	-0.8	-1.2	-2.2	2.3
19	-1.6	-2.1	-2.9	-3.0	-3.2	-3.5	-3.4	-3.6	-2.1	-0.1	1.2	2.6	4.0	4.5	4.7	5.1	4.7	4.0	3.5	3.2	3.2	3.2	3.1	2.8	1.0	5.1
20	2.6	2.4	2.6	2.7	2.9	2.9	2.7	2.6	2.7	3.3	4.1	4.6	4.8	5.2	5.6	5.8	5.4	4.7	3.7	2.9	2.5	2.3	1.8	2.2	3.5	5.8
21	2.3	2.2	2.3	2.3	2.1	1.6	1.0	1.2	3.4	4.8	4.4	2.1	4.8	5.5	5.3	5.0	5.1	4.2	2.3	1.5	1.1	0.2	-0.2	-0.6	2.7	5.5
22	-0.7	-1.2	-1.7	-2.4	-2.9	-3.6	-4.1	-4.2	-2.5	-1.1	1.6	3.5	4.2	3.9	2.9	3.4	3.7	2.2	-0.7	-0.6	-0.7	-1.1	-1.0	-1.4	-0.2	4.2
23	-1.6	-1.7	-1.3	-0.3	0.0	0.1	-0.2	0.3	0.7	1.9	3.6	4.7	5.0	5.2	5.3	5.1	5.1	4.9	4.2	4.0	4.0	3.6	4.1	4.6	2.5	5.3
24	5.3	5.4	5.8	6.0	6.4	6.1	6.0	6.3	8.5	9.9	9.9	10.1	9.9	9.6	9.6	9.5	8.7	7.7	6.7	6.6	6.1	5.8	5.3	4.9	7.3	10.1
25	3.6	3.9	3.7	3.8	2.7	2.1	-0.1	-0.1	2.2	4.3	6.5	8.9	9.8	10.5	9.7	9.8	9.1	8.5	7.5	6.4	5.6	4.9	3.9	4.6	5.5	10.5
26	4.4	4.2	3.9	3.6	2.9	1.9	1.5	1.6	1.9	2.8	4.4	6.3	7.7	8.9	10.0	10.8	10.9	10.0	8.5	7.2	7.1	6.3	5.9	5.3	5.8	10.9
27	4.2	4.2	4.2	3.6	3.0	2.3	2.0	2.0	1.4	1.3	1.8	2.4	3.1	2.3	1.2	0.8	0.1	-0.4	-1.4	-2.0	-2.6	-3.3	-3.7	-3.9	0.9	4.2
28	-4.3	-4.5	-4.9	-5.2	-5.3	-5.5	-5.8	-5.8	-5.5	-5.2	-4.8	-4.1	-3.6	-3.4	-3.8	-4.2	-4.3	-4.4	-4.5	-4.7	-5.0	-5.3	-5.6	-5.7	-4.8	-3.4
29	-5.9	-5.9	-5.9	-6.0	-6.1	-6.2	-6.2	-6.1	-6.0	-5.6	-5.2	-4.9	-4.4	-3.8	-3.5	-3.1	-3.1	-3.5	-4.2	-4.6	-5.0	-5.5	-5.6	-5.6	-5.1	-3.1
30	-5.7	-5.7	-5.5	-5.6	-5.6	-5.6	-5.9	-4.4	-2.0	-0.6	0.5	1.9	3.6	4.2	2.7	2.6	2.0	1.1	-0.5	-1.2	-1.7	-1.9	-1.9	-1.8	-1.5	4.2
31	-1.9	-1.8	-1.6	-1.5	-1.4	-1.6	-1.4	-1.0	-0.3	0.1	1.3	2.6	5.6	4.7	4.5	3.6	3.1	2.5	1.4	0.7	0.5	0.3	0.2	0.2	0.8	5.6
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	-0.7	-1.1	-1.4	-1.7	-1.9	-2.1	-2.4	-2.4	-1.5	-0.3	0.9	1.9	3.0	3.5	3.5	3.5	3.3	2.6	1.5	0.8	0.4	0.1	-0.4	-0.7		
MAX	6.7	5.4	5.8	6.0	6.4	6.1	6.0	6.3	8.5	9.9	9.9	10.1	10.2	11.8	13.0	13.6	13.6	12.7	10.7	9.8	8.8	7.6	5.9	5.3		



Number of Non-Zero Readings	744
Maximum 1-HR Average	13.6 C
Maximum 24-HR Average	7.6 C
Monthly Calibration	0
Standard Deviation	5
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	0.4 C

Lagoon Wind Speed (km/hr) – March 2025

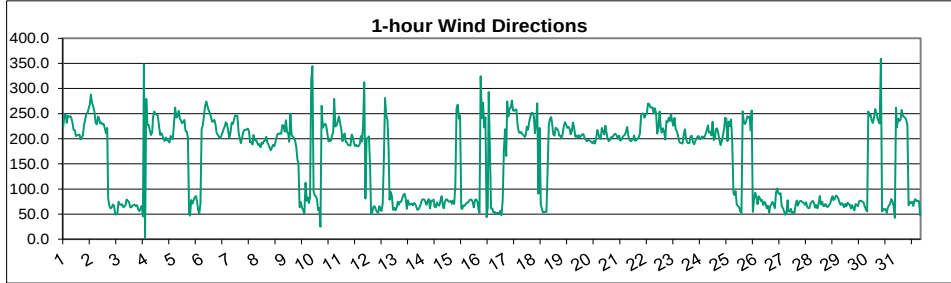
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	16.7	12.1	11.2	18.4	13.3	15.8	19.0	19.3	20.7	30.6	28.8	28.8	29.1	27.0	28.0	27.3	20.0	18.1	16.4	13.9	13.5	15.2	14.3	16.9	19.8	30.6
2	15.5	15.9	17.6	20.6	18.1	21.1	15.8	17.7	15.9	14.8	14.4	11.8	13.6	10.5	6.4	10.4	22.8	17.0	18.7	14.2	11.3	9.6	10.1	8.1	14.7	22.8
3	8.8	8.9	10.8	11.1	14.1	16.2	13.1	11.5	10.9	12.2	14.3	15.8	14.3	15.1	13.6	12.4	14.1	9.8	8.8	8.4	5.9	4.1	0.4	0.1	10.6	16.2
4	2.8	4.5	6.4	7.8	8.8	6.0	8.9	8.9	8.7	13.2	15.5	20.5	17.6	17.7	19.3	21.0	23.9	17.9	16.9	18.0	17.7	18.2	20.5	18.8	14.2	23.9
5	14.2	7.6	5.8	6.4	6.0	3.9	6.2	5.8	3.7	6.8	7.6	4.9	4.2	10.9	10.7	12.5	15.0	14.7	12.1	8.4	9.7	9.0	6.5	3.2	8.2	15.0
6	4.5	6.1	8.2	9.4	10.7	15.7	15.7	12.7	12.7	14.7	12.6	12.5	9.3	13.3	12.6	13.4	13.3	19.0	20.2	19.7	18.6	14.8	13.9	17.2	13.4	20.2
7	20.8	20.1	14.5	17.0	14.5	10.7	15.0	13.4	21.2	26.5	29.5	28.7	29.9	28.6	29.8	25.7	26.5	26.8	24.3	24.8	25.8	31.2	31.8	25.9	23.5	31.8
8	30.2	29.3	29.3	23.2	22.3	26.9	28.3	28.1	27.7	34.3	38.7	42.7	44.5	42.3	39.2	38.5	34.5	30.0	28.1	30.4	27.5	27.1	19.6	18.0	30.9	44.5
9	13.0	9.4	4.9	3.2	5.4	4.1	10.3	9.4	8.2	6.7	7.4	4.1	4.8	4.7	6.2	8.0	6.4	7.4	3.5	3.8	3.2	4.6	3.3	3.6	6.1	13.0
10	8.6	15.3	18.9	12.2	6.4	7.8	7.0	3.4	2.8	9.1	8.4	12.7	15.2	17.4	19.6	21.0	22.9	15.4	5.3	9.5	12.9	11.2	12.4	9.2	11.9	22.9
11	13.1	18.0	22.8	23.8	17.5	23.6	24.4	24.7	23.2	25.5	24.2	23.0	24.8	27.0	26.2	26.4	24.5	22.0	17.2	13.4	10.7	4.2	2.4	4.2	19.5	27.0
12	6.5	7.9	9.1	10.6	8.4	7.7	6.7	5.9	9.1	10.2	8.3	7.9	9.8	7.4	3.2	1.9	10.4	10.2	5.8	4.2	3.6	3.6	9.1	7.4	7.3	10.6
13	7.5	11.0	10.2	7.2	9.0	13.3	14.2	13.3	11.1	12.8	15.3	15.5	18.2	20.5	18.2	18.7	20.4	19.7	18.4	18.2	20.1	16.5	17.5	13.7	15.0	20.5
14	12.6	11.3	12.1	11.0	10.8	6.9	6.4	11.1	9.3	8.1	8.7	13.2	11.2	13.5	13.9	16.3	13.3	11.4	12.0	12.9	12.6	12.5	13.5	12.0	11.5	16.3
15	10.9	11.2	11.0	7.0	3.0	2.8	1.8	5.2	4.2	3.5	11.6	15.6	16.8	17.1	19.1	17.5	16.3	15.9	15.4	15.3	15.2	11.3	11.3	9.3	11.2	19.1
16	9.1	6.8	3.3	4.5	5.2	5.6	4.7	2.1	3.9	4.9	3.3	11.6	13.4	13.6	13.8	13.6	12.8	9.6	13.2	13.0	8.2	2.7	5.8	5.7	7.9	13.8
17	5.0	8.3	5.9	9.9	10.9	11.7	13.7	11.1	12.8	13.0	21.5	23.7	20.3	18.3	20.1	19.3	20.7	19.9	17.3	17.1	14.1	13.6	12.4	12.9	14.7	23.7
18	7.4	5.6	5.0	3.3	1.4	3.3	2.2	7.6	10.4	11.9	12.7	12.1	7.8	18.1	20.7	20.7	25.2	25.0	22.0	20.7	18.4	20.5	19.7	24.7	13.6	25.2
19	27.8	27.6	24.4	22.4	22.2	24.6	25.1	29.0	32.7	29.9	25.8	24.2	31.2	31.8	26.4	18.9	19.3	19.3	20.4	20.4	21.1	21.2	21.8	17.3	24.4	32.7
20	17.5	17.8	19.9	42.2	37.2	35.2	25.1	20.8	17.4	19.4	20.8	19.5	21.6	22.7	20.6	23.6	26.5	28.3	24.9	21.7	21.9	22.0	20.8	22.2	23.7	42.2
21	21.0	23.9	29.1	26.9	24.9	18.5	15.1	19.0	21.0	17.8	22.1	22.4	25.1	24.4	27.7	24.9	23.4	19.7	19.8	13.5	11.0	14.0	14.9	12.1	20.5	29.1
22	13.6	13.5	12.4	13.2	11.6	11.9	13.6	15.6	12.9	15.4	13.5	18.8	19.9	16.1	18.3	19.2	22.1	21.0	20.4	13.2	15.2	15.3	17.0	13.2	15.7	22.1
23	7.1	5.1	6.1	15.0	16.9	21.6	22.7	23.9	23.4	24.3	22.8	25.3	31.0	33.5	30.9	33.7	31.1	27.2	30.2	30.0	25.9	27.3	27.2	27.7	23.8	33.7
24	28.0	28.0	25.3	24.6	24.0	22.1	20.0	14.6	17.0	22.5	20.4	17.8	23.5	24.1	22.8	24.4	27.0	28.3	27.3	24.1	18.3	14.8	9.0	6.8	21.4	28.3
25	4.3	6.9	10.1	10.1	3.4	4.7	2.4	2.5	8.4	14.5	9.4	10.3	9.7	10.7	10.5	6.7	8.2	6.8	5.9	7.4	4.4	3.0	0.7	8.0	7.0	14.5
26	8.0	6.9	8.5	12.5	12.3	11.5	10.3	11.2	11.7	11.0	11.1	13.6	16.1	16.6	16.2	16.0	16.3	14.2	11.4	8.1	8.7	8.6	8.7	9.0	11.6	16.6
27	8.8	7.1	8.2	7.6	3.3	7.5	11.2	12.7	15.0	14.5	15.9	12.2	12.3	16.3	15.2	15.5	15.3	15.9	14.8	17.5	16.7	16.3	12.9	13.2	12.7	17.5
28	11.0	11.6	11.0	11.8	11.3	11.8	11.1	11.0	9.7	11.9	13.3	14.2	15.9	17.6	18.3	16.7	15.3	15.3	13.1	12.3	13.0	12.7	11.9	11.8	13.1	18.3
29	12.0	12.0	11.1	11.4	11.4	11.5	11.2	11.6	12.0	12.6	13.3	14.0	15.8	16.4	16.5	16.0	14.5	16.4	15.2	13.7	13.1	13.6	8.6	6.6	12.9	16.5
30	7.0	1.7	3.0	8.1	9.0	8.9	9.3	9.3	9.8	16.6	18.8	15.2	9.4	9.7	16.0	17.2	16.4	17.3	15.6	15.8	14.3	13.4	9.1	7.3	11.6	18.8
31	5.2	1.2	3.5	4.6	4.9	6.5	5.7	8.9	16.8	17.6	16.0	11.0	3.4	12.2	14.5	15.6	14.0	14.1	13.1	12.0	10.8	9.2	7.7	3.5	9.7	17.6
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	12.2	12.0	12.2	13.5	12.2	12.9	12.8	13.0	13.7	15.7	16.3	16.9	17.4	18.5	18.5	18.5	19.1	17.8	16.4	15.3	14.3	13.6	12.7	11.9		
MAX	30.2	29.3	29.3	42.2	37.2	35.2	28.3	29.0	32.7	34.3	38.7	42.7	44.5	42.3	39.2	38.5	34.5	30.0	30.2	30.4	27.5	31.2	31.8	27.7		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	44.5 KM/HR		
Maximum 24-HR Average	30.9 KM/HR		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	7.738	Operational Uptime	100.0 %
		Monthly Average	14.9 KM/HR

Lagoon Wind Direction (°) – March 2025

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	222.9	247.8	248.8	231.5	246.0	243.9	244.8	242.0	232.7	217.5	217.4	205.2	207.7	206.5	208.4	198.8	202.3	206.6	226.8	238.2	250.0	251.8	260.8	266.9	225.4	266.9
2	288.4	271.3	263.9	254.0	232.0	228.9	244.3	242.0	230.5	232.8	228.7	229.8	220.7	211.1	221.6	82.3	66.0	61.3	63.4	69.4	66.7	49.3	50.1	52.0	239.6	288.4
3	74.8	69.5	68.6	69.7	63.9	65.6	67.4	79.2	76.7	74.6	64.0	63.4	67.8	67.6	68.8	66.0	68.1	59.2	55.6	62.2	66.2	45.0	348.1	2.3	67.1	348.1
4	279.3	226.8	227.8	216.4	207.4	213.4	244.3	254.3	248.6	248.6	245.9	224.9	207.5	211.2	207.0	199.9	195.4	202.6	197.2	196.1	192.5	205.8	201.2	199.3	212.0	279.3
5	228.8	262.3	242.1	244.0	255.5	240.1	237.2	230.7	233.0	237.4	215.5	214.6	202.3	50.9	47.0	78.2	70.6	77.8	83.5	86.4	73.9	58.1	51.4	71.8	101.1	262.3
6	219.4	227.0	247.3	266.3	274.0	265.9	257.8	252.0	244.7	234.2	234.6	237.7	227.3	211.9	208.1	204.0	201.9	205.8	212.4	219.5	224.7	233.1	229.8	215.9	229.7	274.0
7	202.3	212.9	232.3	229.8	237.8	246.3	245.6	245.8	213.2	199.9	191.4	202.1	213.1	217.7	218.3	218.1	220.3	215.1	192.4	194.5	188.6	207.5	196.8	197.7	210.6	246.3
8	193.5	187.5	189.4	183.3	192.5	189.9	195.8	196.0	203.8	191.9	187.8	182.0	177.2	182.3	188.3	185.1	193.2	203.8	210.3	209.7	210.9	209.6	227.2	226.7	194.4	227.2
9	214.3	237.2	213.9	209.6	193.9	250.2	208.1	204.6	202.0	196.0	182.7	157.5	151.6	63.8	74.2	63.0	58.4	51.0	112.8	76.7	83.5	71.9	82.7	314.9	171.3	314.9
10	344.7	95.1	87.1	85.2	80.3	58.5	62.3	24.7	265.6	221.9	227.4	229.9	226.3	211.3	194.6	197.6	195.7	206.5	212.8	279.5	224.4	227.1	234.3	244.8	201.8	344.7
11	231.5	219.0	195.2	204.9	210.5	194.1	192.6	187.4	186.8	186.8	208.3	203.8	193.0	185.5	188.1	184.4	185.6	189.3	205.4	194.3	223.6	312.7	80.7	199.9	196.5	312.7
12	202.0	204.9	141.1	50.6	54.2	65.1	66.0	59.1	54.4	52.5	65.8	59.6	56.3	70.8	160.2	281.0	247.1	237.1	181.7	78.9	94.3	85.2	58.2	62.8	77.9	281.0
13	57.6	63.4	74.7	68.6	74.7	74.8	81.6	88.2	90.6	78.9	60.8	77.9	69.0	69.2	71.2	67.3	72.1	70.5	66.5	58.8	59.2	64.0	70.1	78.8	70.6	90.6
14	79.8	79.2	74.6	68.4	76.6	80.0	61.6	77.4	75.5	79.1	64.9	63.1	73.4	68.1	66.7	76.4	85.8	66.9	61.5	74.6	79.4	79.1	74.8	74.9	73.6	85.8
15	76.7	70.4	77.0	70.2	106.3	260.5	268.0	239.8	246.5	61.4	60.0	67.5	66.3	70.1	72.9	72.9	77.7	78.7	79.0	74.2	63.2	78.1	79.8	75.1	73.1	268.0
16	59.2	52.7	324.4	241.0	272.0	222.5	243.0	43.8	64.1	293.0	177.7	61.7	61.4	53.7	54.6	51.4	52.4	53.3	51.4	56.5	47.8	76.8	176.0	219.1	54.8	324.4
17	165.8	274.8	244.0	260.6	262.0	276.5	256.1	255.8	258.3	258.1	226.9	213.7	211.6	213.5	208.9	207.6	203.4	205.9	224.4	217.7	233.7	244.0	251.6	251.2	230.3	276.5
18	243.9	210.9	228.9	270.7	90.6	221.5	69.3	59.9	53.5	53.7	55.3	54.4	141.2	227.8	239.7	243.1	230.2	208.2	206.4	222.3	219.8	217.3	206.0	206.0	214.9	270.7
19	201.9	208.9	223.9	232.9	228.1	221.7	223.9	220.0	208.9	214.5	232.8	221.6	204.2	206.7	202.3	207.0	202.8	205.2	209.0	209.3	202.0	198.2	194.6	198.0	211.9	232.9
20	197.2	195.3	194.0	190.7	195.4	190.4	201.8	217.1	210.6	202.2	199.8	221.8	215.0	208.2	226.1	211.7	200.8	195.2	197.2	202.9	203.1	206.4	209.9	209.7	203.0	226.1
21	206.2	200.0	206.3	196.0	198.7	203.8	206.3	208.1	213.9	223.2	205.9	198.3	194.9	197.2	198.8	206.7	195.6	197.2	200.5	202.0	210.9	247.1	250.5	250.2	206.3	250.5
22	241.9	247.6	249.5	270.2	269.3	262.5	262.0	262.9	250.4	260.7	251.4	210.2	221.6	254.1	220.8	212.1	221.3	214.6	198.2	235.4	233.1	241.8	235.5	248.9	237.5	270.2
23	235.2	226.1	241.7	218.9	214.6	206.1	195.8	191.5	191.7	190.4	207.9	218.8	199.5	192.6	191.2	191.0	204.7	206.3	192.8	189.0	195.2	200.6	203.8	205.6	200.5	241.7
24	198.9	201.1	204.7	202.0	203.8	210.4	216.2	226.3	212.1	214.0	206.5	234.0	197.6	201.0	219.5	220.6	210.7	197.6	187.2	195.8	207.4	220.9	242.0	240.0	208.2	242.0
25	195.0	234.6	225.6	238.3	192.5	93.0	87.9	95.7	69.5	65.7	64.2	55.2	52.8	254.7	236.3	229.0	233.0	244.4	242.3	244.5	216.3	256.3	54.6	79.5	205.7	256.3
26	93.0	84.6	70.0	85.8	81.9	76.0	78.2	68.0	74.1	71.0	61.7	66.8	52.8	64.5	69.3	74.5	69.3	62.0	92.6	101.1	90.9	89.6	91.8	66.3	74.5	101.1
27	61.9	55.6	48.7	50.6	77.7	55.2	54.9	60.4	51.9	54.6	52.6	69.9	77.5	66.8	73.1	76.7	76.0	73.6	72.5	68.6	73.7	65.4	61.9	62.0	65.1	77.7
28	71.0	75.0	76.4	71.1	62.7	67.9	61.7	71.1	86.0	68.8	74.9	66.1	65.9	70.3	65.1	64.1	68.1	71.0	80.5	85.8	77.8	80.5	86.9	85.5	72.5	86.9
29	81.3	73.4	68.5	72.0	69.9	63.9	70.1	65.5	73.1	69.9	68.5	61.1	68.3	63.2	57.7	70.2	68.7	65.3	76.0	76.6	76.8	74.8	72.9	65.1	69.5	81.3
30	59.1	55.4	254.2	245.1	248.5	236.4	231.5	242.2	259.2	251.0	241.0	233.7	230.0	359.2	55.4	60.5	58.7	60.3	52.8	62.4	67.1	70.8	80.0	75.8	50.2	359.2
31	65.4	42.6	261.6	223.1	240.4	234.8	238.5	257.3	245.0	243.8	241.6	237.4	227.3	67.8	74.3	72.1	74.7	66.4	77.6	80.1	75.6	77.1	75.7	47.5	98.6	261.6
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	170.7	164.9	184.1	178.1	174.6	178.1	173.4	166.7	171.8	169.3	162.1	156.2	154.2	154.8	148.0	147.5	145.5	143.8	145.9	147.2	146.2	153.1	152.9	154.7		
MAX	344.7	274.8	324.4	270.7	274.0	276.5	268.0	262.9	265.6	293.0	251.4	237.7	230.0	359.2	239.7	281.0	247.1	244.4	242.3	279.5	250.0	312.7	348.1	314.9		



Number of Non-Zero Readings

744

Maximum 1-HR Average

359 degrees

Maximum 24-HR Average

240 degrees

Monthly Calibration

0

Operational Time

744 HRS

Standard Deviation

78.08

Operational Uptime

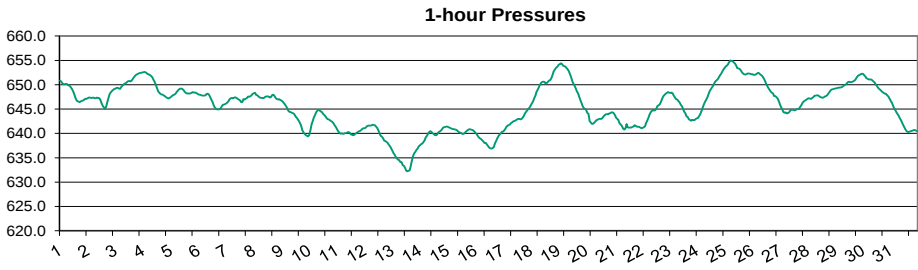
100.0 %

Monthly Average

160.2 degrees

Lagoon Pressure (mmHg) – March 2025

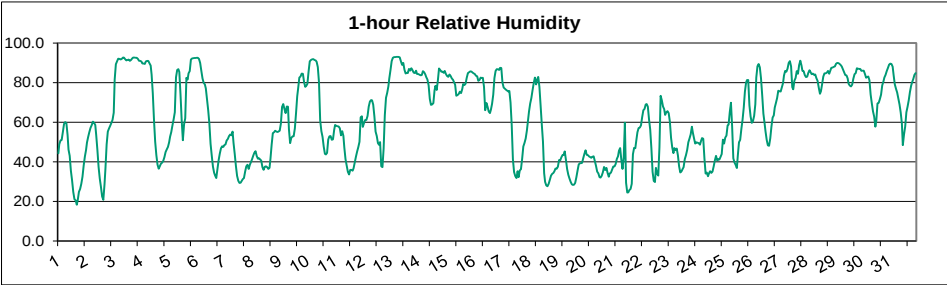
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	650.9	650.7	650.3	650.1	650.1	650.2	650.1	649.9	649.8	649.6	649.3	648.8	648.3	647.5	646.9	646.6	646.5	646.4	646.6	646.7	646.8	646.9	647.1	647.1	648.5	650.9
2	647.2	647.4	647.4	647.3	647.3	647.4	647.2	647.2	647.4	647.3	647.3	646.9	646.2	645.6	645.3	645.1	645.5	646.4	647.3	648.1	648.4	648.7	649.0	649.1	647.2	649.1
3	649.2	649.4	649.3	649.2	649.1	649.5	649.8	650.0	650.2	650.3	650.5	650.7	650.8	650.7	650.8	651.1	651.5	651.8	652.0	652.2	652.3	652.4	652.4	652.5	650.7	652.5
4	652.5	652.6	652.6	652.4	652.2	652.1	652.0	651.8	651.5	651.0	650.6	650.0	649.3	648.7	648.4	648.1	648.0	647.9	647.8	647.6	647.4	647.3	647.2	647.3	649.9	652.6
5	647.4	647.7	647.8	648.0	648.2	648.5	648.8	649.0	649.2	649.2	649.1	648.9	648.6	648.3	648.2	648.2	648.2	648.2	648.3	648.5	648.4	648.4	648.3	648.2	648.4	649.2
6	648.0	648.0	647.9	647.8	647.8	647.8	647.8	648.1	648.2	648.0	647.5	647.0	646.6	645.9	645.4	645.2	645.0	644.9	645.0	645.0	645.5	645.9	645.9	646.0	646.7	648.2
7	646.2	646.3	646.6	647.1	647.2	647.3	647.2	647.4	647.4	647.3	647.1	647.0	646.8	646.4	646.4	647.1	647.0	647.1	647.3	647.6	647.6	647.6	647.8	648.1	647.1	648.1
8	648.2	648.4	647.9	647.8	647.6	647.3	647.3	647.3	647.2	647.3	647.5	647.6	647.7	647.5	647.4	647.5	647.9	648.0	647.6	647.2	647.0	646.9	647.0	646.9	647.5	648.4
9	646.8	646.6	646.2	645.9	645.5	645.1	644.7	644.4	644.4	644.2	644.2	644.0	643.5	643.3	643.0	642.6	642.2	641.6	640.7	640.2	639.9	639.7	639.5	639.4	643.2	646.8
10	639.7	640.6	641.9	642.6	643.3	643.8	644.3	644.7	644.8	644.7	644.5	644.4	644.0	643.8	643.5	643.2	642.9	642.9	642.7	642.5	642.4	642.1	641.7	641.4	643.0	644.8
11	640.9	640.5	640.1	639.9	640.0	639.9	639.9	640.1	640.1	640.2	640.3	640.1	639.8	639.7	639.6	639.7	639.9	640.1	640.3	640.4	640.5	640.7	640.9	641.1	640.2	641.1
12	641.1	641.2	641.5	641.6	641.6	641.6	641.6	641.8	641.8	641.7	641.4	641.1	640.6	640.0	639.5	639.3	639.0	638.5	638.4	638.3	638.0	637.7	637.4	637.0	640.1	641.8
13	636.5	636.0	635.6	635.2	634.8	634.6	634.5	634.1	634.1	633.5	633.3	633.0	632.4	632.2	632.3	632.4	633.2	634.5	635.4	635.9	636.3	636.6	636.9	637.3	634.6	637.3
14	637.6	637.8	638.0	638.3	638.6	639.2	639.5	639.9	640.3	640.5	640.3	640.0	639.8	639.7	639.6	639.8	640.3	640.4	640.5	640.8	641.2	641.3	641.3	641.4	639.8	641.4
15	641.4	641.3	641.2	641.0	640.9	640.9	640.8	640.8	640.6	640.4	640.2	640.0	639.9	639.9	639.9	640.2	640.4	640.6	640.8	640.9	640.8	640.8	640.6	640.4	640.6	641.4
16	640.1	639.9	639.5	639.2	639.0	638.9	638.6	638.3	638.0	638.1	637.7	637.4	637.1	636.9	636.9	637.0	637.2	638.0	638.5	639.0	639.5	639.8	640.0	640.3	638.5	640.3
17	640.4	640.6	641.0	641.4	641.6	641.7	641.9	642.2	642.3	642.5	642.6	642.7	642.9	642.9	643.0	642.9	643.0	643.2	643.6	644.1	644.5	644.8	645.0	645.3	642.7	645.3
18	645.7	646.2	646.6	647.3	647.8	648.5	648.9	649.5	650.0	650.4	650.6	650.6	650.6	650.2	650.4	650.6	650.8	651.0	651.4	652.1	652.7	653.1	653.5	653.7	650.1	653.7
19	654.0	654.2	654.4	654.3	654.0	653.8	653.7	653.4	653.2	652.8	652.2	651.5	650.8	650.3	649.8	649.3	648.7	648.2	647.5	646.8	646.3	645.6	645.2	645.1	650.6	654.4
20	644.8	644.3	644.0	642.5	642.3	642.0	642.0	642.2	642.5	642.7	642.8	643.0	643.0	643.0	643.1	643.5	643.7	643.9	644.0	643.9	644.1	644.2	644.3	644.3	643.3	644.8
21	644.2	643.7	643.2	643.0	642.8	642.1	641.8	641.6	641.0	640.8	641.0	641.9	641.3	641.2	641.2	641.2	641.3	641.4	641.7	641.6	641.4	641.4	641.3	641.2	641.8	644.2
22	641.1	641.1	641.3	641.4	642.1	642.6	643.2	643.9	644.4	644.6	644.8	644.7	644.8	645.1	645.7	645.8	646.1	646.6	647.2	647.7	647.9	648.1	648.3	648.5	644.9	648.5
23	648.4	648.3	648.4	648.2	647.8	647.4	647.1	647.0	646.6	646.4	645.9	645.6	645.1	644.5	644.1	643.5	643.4	642.9	642.7	642.6	642.8	642.8	642.8	643.0	645.3	648.4
24	643.1	643.2	643.6	644.1	644.6	645.2	645.9	646.5	646.9	647.4	648.1	648.7	649.0	649.4	649.7	650.2	650.7	650.9	651.1	651.4	651.9	652.2	652.7	653.1	648.3	653.1
25	653.4	653.7	653.9	654.2	654.6	655.0	654.9	654.8	654.6	654.3	653.9	653.5	653.3	653.3	653.0	652.6	652.3	652.1	652.1	652.2	652.3	652.3	652.2	652.2	653.4	655.0
26	652.2	652.1	652.1	652.1	652.1	652.4	652.4	652.1	652.0	651.6	651.2	650.8	650.3	649.8	649.3	649.0	648.6	648.4	648.2	647.7	647.4	647.2	647.2	646.6	650.1	652.4
27	646.0	645.4	644.9	644.4	644.2	644.3	644.1	644.2	644.4	644.7	644.9	644.9	644.8	644.7	644.9	645.0	645.0	645.3	645.6	645.9	646.4	646.6	646.8	647.0	645.2	647.0
28	647.1	647.2	647.1	647.1	647.3	647.5	647.7	647.8	647.8	647.8	647.7	647.5	647.4	647.3	647.4	647.6	647.7	647.9	648.2	648.5	648.9	649.1	649.1	649.2	647.8	649.2
29	649.2	649.3	649.4	649.4	649.4	649.5	649.6	649.8	649.9	650.1	650.3	650.6	650.6	650.6	650.5	650.6	650.8	650.9	651.3	651.6	651.9	652.0	652.2	652.3	650.5	652.3
30	652.2	651.9	651.7	651.4	651.2	651.1	651.1	651.1	650.9	650.7	650.5	650.1	649.8	649.4	649.1	648.9	648.7	648.5	648.3	648.2	648.1	647.8	647.6	647.1	649.8	652.2
31	646.7	646.3	645.8	645.2	644.8	644.3	644.0	643.6	643.1	642.7	642.2	641.7	641.2	640.7	640.4	640.3	640.3	640.4	640.5	640.6	640.7	640.7	640.6	640.5	642.4	646.7
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	645.9	645.9	645.8	645.8	645.8	645.9	645.9	645.9	645.9	645.9	645.8	645.6	645.4	645.1	645.0	645.0	645.0	645.1	645.2	645.4	645.5	645.5	645.5	645.6		
MAX	654.0	654.2	654.4	654.3	654.6	655.0	654.9	654.8	654.6	654.3	653.9	653.5	653.3	653.3	653.0	652.6	652.3	652.1	652.1	652.2	652.7	653.1	653.5	653.7		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	655 MMHg		
Maximum 24-HR Average	653 MMHg		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	4.645	Operational Uptime	100.0 %
		Monthly Average	645.6 MMHg

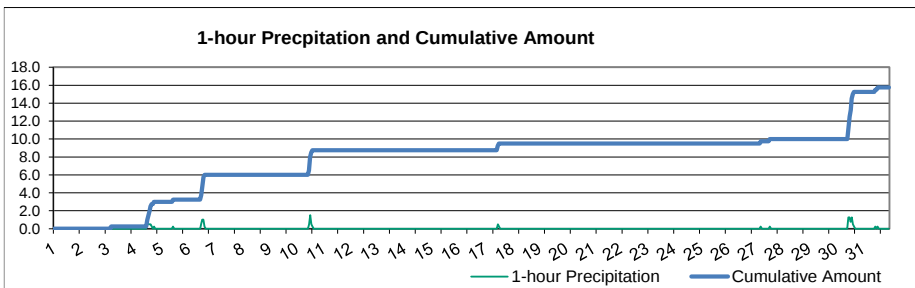
Lagoon Relative Humidity (%) – March 2025

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	44.3	48.9	50.8	51.0	54.9	59.1	60.2	59.5	53.6	46.2	43.0	35.5	30.6	24.8	21.2	20.6	18.4	20.6	24.8	26.3	28.9	32.5	38.1	42.6	39.0	60.2
2	45.9	49.8	52.6	55.1	57.2	58.6	60.3	59.6	58.6	53.5	45.9	37.4	31.5	27.4	22.5	20.8	28.5	36.7	48.8	55.3	56.9	58.2	59.7	61.2	47.6	61.2
3	64.8	81.6	89.3	90.8	92.1	92.0	91.7	92.1	92.7	92.7	91.9	91.3	91.5	91.7	91.1	91.5	92.3	92.7	92.7	92.6	92.6	92.1	91.0	91.0	90.2	92.7
4	90.6	89.6	89.7	89.5	90.8	91.0	91.0	89.7	88.7	84.1	74.7	61.2	50.2	43.4	38.5	36.5	37.9	39.0	39.5	40.5	42.3	44.9	46.3	47.6	64.0	91.0
5	49.9	52.7	55.0	58.4	61.4	65.0	82.7	86.4	86.9	85.4	74.2	61.1	50.9	58.8	62.0	82.5	81.6	84.7	85.9	91.6	92.3	92.4	92.5	92.5	74.5	92.5
6	92.6	92.6	92.0	90.0	86.0	82.2	79.9	79.1	77.1	71.6	66.0	59.3	49.1	43.2	37.7	34.5	33.2	31.8	36.3	40.8	44.1	46.8	47.9	47.6	60.9	92.6
7	48.4	48.8	50.8	51.5	53.1	53.9	53.4	55.3	49.5	44.0	38.0	33.0	30.5	29.4	29.4	30.5	31.3	31.8	35.1	37.7	38.6	36.4	38.5	40.1	41.2	55.3
8	41.3	43.0	44.6	45.4	43.0	41.5	41.8	41.1	40.7	37.3	36.0	37.5	37.7	37.3	36.4	37.0	41.5	48.7	54.5	54.9	55.7	55.3	55.1	55.4	44.3	55.7
9	55.7	59.4	67.8	69.2	66.7	64.6	67.9	67.9	56.5	49.4	52.1	52.8	52.9	56.9	64.6	73.1	77.1	82.6	83.1	84.6	84.5	80.2	77.8	78.6	67.8	84.6
10	79.5	85.6	90.8	91.5	91.7	91.9	91.5	91.3	90.6	87.8	80.1	60.9	55.5	52.6	47.6	44.0	43.7	44.5	51.2	52.9	53.1	51.1	51.3	56.1	68.2	91.9
11	58.6	58.3	58.0	57.8	57.0	53.4	55.5	53.2	47.1	41.4	38.1	34.9	33.6	35.9	36.0	35.5	36.7	39.6	42.6	45.2	47.4	50.1	62.5	63.0	47.6	63.0
12	57.6	59.5	61.1	61.2	63.1	67.8	70.5	71.2	71.1	68.9	62.9	55.3	53.1	49.5	48.6	50.0	37.7	37.3	46.7	63.6	72.3	74.8	78.1	82.3	61.0	82.3
13	86.4	90.9	92.6	92.9	92.9	93.0	93.0	93.0	92.9	90.8	89.0	90.0	86.5	84.6	85.1	84.8	87.0	86.0	87.3	86.3	85.1	84.8	86.0	84.3	88.6	93.0
14	84.4	84.1	83.7	83.8	85.8	85.3	84.1	82.8	81.6	78.7	71.7	68.8	69.0	69.7	76.1	78.4	76.3	81.0	87.2	86.4	85.6	85.6	85.0	86.0	80.9	87.2
15	84.4	83.4	82.9	84.1	83.4	82.1	81.5	80.3	79.0	73.3	73.7	74.3	75.5	74.7	76.7	79.4	78.7	79.5	82.5	84.9	85.2	85.7	85.6	85.2	80.7	85.7
16	84.7	84.3	83.5	83.2	80.9	81.4	82.6	82.3	82.5	77.9	66.0	69.8	67.9	65.4	64.6	66.3	69.3	73.9	82.3	86.0	86.8	86.7	86.3	87.5	78.4	87.5
17	87.4	80.1	77.6	76.9	76.4	76.0	75.5	75.9	70.0	58.6	41.3	34.9	32.9	31.8	35.3	32.3	35.7	36.3	41.4	47.8	49.6	51.8	55.8	60.1	55.9	87.4
18	65.4	69.4	72.3	76.2	79.8	82.6	79.1	81.4	83.0	77.8	68.5	59.0	50.2	34.3	29.9	28.2	27.7	28.9	30.9	33.0	34.0	34.4	35.2	36.6	54.1	83.0
19	36.5	37.5	40.9	40.8	42.4	43.5	43.4	45.3	41.0	36.4	33.5	31.6	29.9	28.7	28.3	28.5	29.3	32.1	35.5	38.6	39.3	39.4	39.5	41.8	36.8	45.3
20	44.0	45.9	43.5	43.3	42.7	42.3	42.0	42.6	42.8	40.4	38.0	35.0	34.1	32.3	32.0	32.9	34.7	37.5	35.8	37.0	34.4	32.5	34.2	34.5	38.1	45.9
21	36.1	37.7	37.7	38.9	41.5	42.8	45.6	47.0	41.0	36.4	42.1	59.8	29.5	24.6	24.5	25.7	26.3	28.9	43.9	47.1	46.9	51.5	54.9	57.0	40.3	59.8
22	57.3	58.5	62.6	66.0	66.7	69.0	69.3	67.9	61.5	56.3	46.7	35.0	30.4	29.8	37.0	34.1	33.1	47.5	73.3	71.2	68.0	66.6	63.8	65.0	55.7	73.3
23	65.6	64.6	60.3	52.2	47.3	44.4	47.0	45.9	46.8	43.3	37.7	34.6	35.2	36.4	37.3	41.3	43.3	46.0	49.9	51.8	54.0	57.8	54.8	52.0	47.9	65.6
24	49.2	49.8	49.7	49.5	48.6	50.7	52.1	51.6	41.8	34.0	34.6	32.7	34.4	35.3	34.4	35.0	37.6	40.7	43.0	40.7	41.4	41.2	42.4	44.0	42.3	52.1
25	51.3	49.2	52.3	53.2	58.5	58.8	65.1	69.8	57.8	41.8	39.7	38.4	36.8	43.1	49.9	51.2	56.7	61.2	67.3	75.5	80.1	81.3	81.3	68.5	57.9	81.3
26	62.9	59.7	60.6	63.2	69.2	82.5	88.3	89.5	87.8	82.1	73.7	64.4	59.6	55.4	51.2	48.3	48.1	51.8	57.8	62.3	63.5	67.4	69.8	72.2	66.3	89.5
27	76.0	75.6	75.5	77.7	79.8	83.5	85.9	85.5	87.1	90.0	90.9	88.2	77.8	76.7	81.0	82.4	85.8	84.5	88.9	91.1	88.6	85.9	85.8	83.8	83.7	91.1
28	82.8	83.0	85.1	86.3	85.2	84.3	84.6	84.0	84.1	82.2	80.9	77.4	74.3	75.6	79.2	83.1	84.7	84.7	85.0	85.9	84.5	85.8	87.5	87.6	83.2	87.6
29	87.9	88.2	89.5	90.0	89.8	89.5	89.0	88.2	86.8	85.3	83.8	83.7	82.1	79.4	78.5	78.1	79.0	82.0	84.2	84.8	87.3	87.1	86.9	86.9	85.3	90.0
30	86.0	86.1	86.1	84.4	82.5	82.8	83.2	81.2	74.1	69.5	65.5	62.8	57.7	60.8	69.6	69.8	71.7	73.9	78.6	80.5	82.6	84.0	85.8	87.4	76.9	87.4
31	89.1	89.7	89.4	88.1	84.0	79.2	77.0	75.1	72.0	69.0	64.9	59.3	48.5	53.8	57.9	65.0	67.9	71.1	75.3	78.4	80.1	81.8	83.9	84.9	74.4	89.7
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	66.0	67.3	68.6	69.1	69.5	70.2	71.4	71.5	68.6	64.1	59.5	55.5	50.9	49.8	50.5	51.7	52.7	55.4	60.4	63.1	64.1	64.7	65.9	66.6		
MAX	92.6	92.6	92.6	92.9	92.9	93.0	93.0	93.0	92.9	92.7	91.9	91.3	91.5	91.7	91.1	91.5	92.3	92.7	92.7	92.6	92.6	92.4	92.5	92.5		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	93.0 %		
Maximum 24-HR Average	90.2 %		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	20.58	Operational Uptime	100.0 %
		Monthly Average	62.4 %

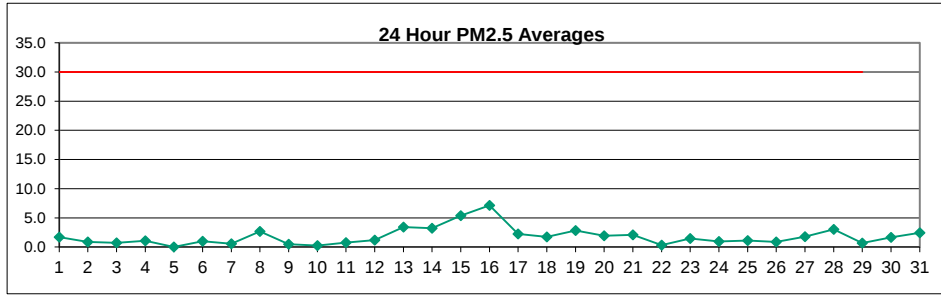
Lagoon Precipitation (mm) – March 2025

[illegible]

Number of Non-Zero Readings 28 Maximum 1-HR Average 5.3 MM Maximum 24-HR Average 1.5 MM			
Monthly Calibration 0 Standard Deviation 0.13		Operational Time 744 HRS Operational Uptime 100.0 % Monthly Average 0.02 MM	

Windridge PM_{2.5} (µg/m³) – March 2025

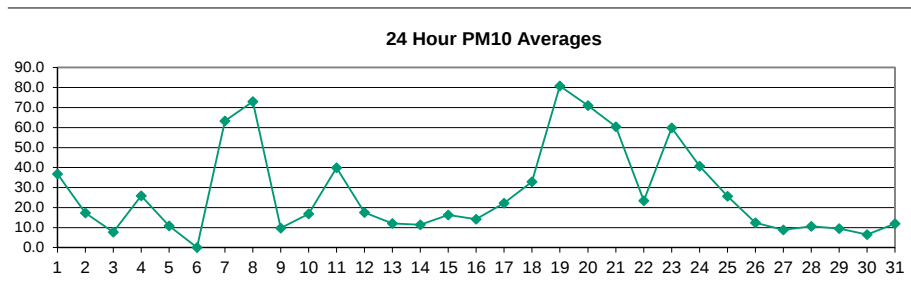
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	2.0	3.0	1.0	0.0	0.0	0.0	9.0	8.0	2.0	0.0	1.0	4.0	3.0	0.0	X	0.0	2.0	3.0	1.0	0.0	0.0	0.0	1.7	9.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	3.0	0.0	0.0	0.0	0.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	0.9	5.0
3	0.0	0.0	X	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.7	5.0
4	1.0	0.0	1.0	2.0	1.0	0.0	0.0	2.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	5.0	3.0	1.0	1.0	2.0	1.1	5.0
5	0.0	0.0	0.0	0.0	0.0	0.0	X	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	4.0	4.0	1.0	0.0	0.0	0.0	0.0	1.0	3.0	2.0	1.0	0.0	C	C	C	C	C	C	1.0	1.0	0.0	0.0	0.0	0.0	1.0	4.0
7	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	0.0	4.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.6	4.0
8	3.0	6.0	5.0	3.0	0.0	0.0	2.0	1.0	0.0	2.0	3.0	6.0	6.0	3.0	3.0	7.0	4.0	1.0	2.0	2.0	1.0	2.0	2.0	0.0	2.7	7.0
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	1.0	1.0	5.0	4.0	1.0	0.0	0.5	5.0
10	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	2.0
11	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	5.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	0.8	5.0
12	1.0	0.0	0.0	0.0	2.0	1.0	2.0	1.0	0.0	0.0	0.0	2.0	3.0	0.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	3.0	4.0	3.0	1.2	4.0
13	2.0	4.0	5.0	5.0	8.0	5.0	5.0	7.0	8.0	5.0	5.0	3.0	0.0	0.0	3.0	4.0	2.0	0.0	1.0	1.0	0.0	3.0	3.0	3.0	3.4	8.0
14	4.0	3.0	3.0	1.0	1.0	3.0	5.0	4.0	1.0	1.0	2.0	1.0	2.0	1.0	3.0	6.0	3.0	3.0	4.0	5.0	6.0	2.0	7.0	6.0	3.2	7.0
15	8.0	7.0	7.0	9.0	5.0	3.0	6.0	2.0	2.0	7.0	9.0	7.0	8.0	9.0	6.0	5.0	3.0	3.0	3.0	2.0	7.0	4.0	2.0	5.0	5.4	9.0
16	8.0	6.0	6.0	6.0	4.0	3.0	6.0	7.0	5.0	10.0	10.0	12.0	11.0	6.0	7.0	7.0	4.0	3.0	5.0	6.0	14.0	7.0	9.0	9.0	7.1	14.0
17	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	14.0	11.0	6.0	1.0	0.0	0.0	0.0	3.0	3.0	0.0	0.0	2.0	0.0	0.0	0.0	2.3	14.0
18	0.0	0.0	0.0	0.0	0.0	2.0	4.0	4.0	4.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	4.0	4.0	4.0	2.0	0.0	1.0	5.0	4.0	1.8	5.0
19	2.0	3.0	3.0	2.0	2.0	0.0	2.0	4.0	6.0	12.0	10.0	6.0	4.0	5.0	3.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	1.0	2.8	12.0
20	1.0	0.0	0.0	5.0	4.0	3.0	4.0	4.0	5.0	4.0	3.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.0	2.0	4.0	3.0	1.9	5.0
21	1.0	0.0	0.0	1.0	1.0	0.0	1.0	4.0	3.0	0.0	1.0	4.0	3.0	4.0	4.0	11.0	6.0	0.0	0.0	0.0	0.0	1.0	3.0	2.0	2.1	11.0
22	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	0.0	0.3	3.0
23	0.0	0.0	0.0	0.0	2.0	1.0	1.0	3.0	2.0	0.0	1.0	2.0	3.0	5.0	5.0	1.0	0.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	1.5	5.0
24	0.0	0.0	0.0	1.0	3.0	1.0	0.0	0.0	0.0	3.0	5.0	3.0	0.0	1.0	1.0	1.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.0	3.0	2.0	2.0	5.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.1	5.0
26	0.0	0.0	1.0	0.0	0.0	1.0	4.0	4.0	4.0	3.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.9	4.0
27	1.0	2.0	0.0	2.0	0.0	0.0	3.0	2.0	6.0	7.0	6.0	5.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	1.8	7.0
28	0.0	0.0	1.0	3.0	3.0	3.0	1.0	4.0	4.0	1.0	0.0	0.0	0.0	1.0	3.0	3.0	3.0	6.0	4.0	3.0	4.0	10.0	11.0	5.0	3.0	11.0
29	1.0	2.0	2.0	2.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	1.0	0.7	2.0
30	2.0	1.0	0.0	2.0	1.0	1.0	2.0	3.0	2.0	2.0	2.0	0.0	4.0	3.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	2.0	2.0	2.0	1.7	4.0
31	2.0	3.0	3.0	5.0	2.0	0.0	3.0	4.0	3.0	2.0	1.0	0.0	13.0	7.0	4.0	2.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	3.0	2.5	13.0
NO.	31	31	30	31	31	31	30	31	31	31	31	31	30	30	30	30	29	30	31	31	31	31	31	31	735	99.6%
MEAN	1.5	1.5	1.3	1.7	1.4	0.9	1.8	2.2	2.7	3.0	2.7	2.2	2.4	2.1	2.0	2.0	1.3	1.2	1.2	1.3	1.6	1.5	2.0	1.8	7.5	
MAX	8.0	7.0	7.0	9.0	8.0	5.0	6.0	7.0	9.0	14.0	11.0	12.0	13.0	9.0	7.0	11.0	6.0	6.0	5.0	6.0	14.0	10.0	11.0	9.0	17.4	70.0



Number of 24HR Exceedences		0 Proposed Guideline	
Number of Non-Zero Readings		405	
Maximum 1-HR Average		14.0 UG/M3	
Maximum 24-HR Average		7.1 UG/M3	
Monthly Calibration	6	Operational Time	741 HRS
		Operational Uptime	99.6 %
Standard Deviation	2.4	Monthly Average	1.8 UG/M3

Windridge PM₁₀ (µg/m³) – March 2025

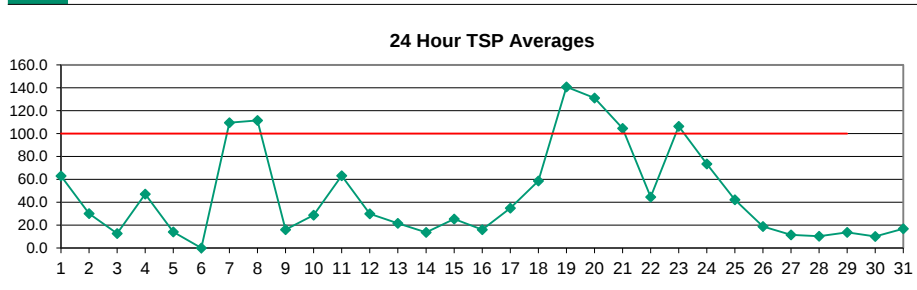
Day	HOUR																								MEAN	MAX
1	0.0	13.0	43.0	28.0	6.0	7.0	18.0	43.0	109.0	81.0	41.0	43.0	54.0	84.0	23.0	10.0	X	53.0	54.0	49.0	25.0	11.0	35.0	16.0	36.8	109.0
2	7.0	6.0	5.0	17.0	5.0	5.0	8.0	29.0	15.0	35.0	69.0	58.0	20.0	6.0	8.0	31.0	12.0	15.0	9.0	8.0	12.0	17.0	9.0	9.0	17.3	69.0
3	5.0	4.0	X	6.0	9.0	15.0	8.0	5.0	4.0	7.0	12.0	10.0	13.0	16.0	17.0	20.0	9.0	4.0	3.0	3.0	1.0	1.0	0.0	5.0	7.7	20.0
4	4.0	22.0	8.0	23.0	4.0	2.0	3.0	18.0	25.0	21.0	39.0	12.0	20.0	37.0	22.0	26.0	47.0	33.0	41.0	41.0	43.0	49.0	54.0	26.0	25.8	54.0
5	0.0	3.0	4.0	3.0	3.0	23.0	X	20.0	22.0	17.0	23.0	6.0	5.0	8.0	15.0	8.0	11.0	9.0	28.0	10.0	7.0	8.0	10.0	7.0	10.9	28.0
6	X	8.0	8.0	5.0	2.0	3.0	3.0	3.0	13.0	10.0	12.0	21.0	C	C	C	C	C	C	32.0	19.0	16.0	12.0	11.0	30.0		
7	36.0	57.0	30.0	25.0	18.0	5.0	33.0	22.0	87.0	95.0	66.0	108.0	77.0	75.0	106.0	73.0	77.0	69.0	66.0	54.0	60.0	77.0	90.0	114.0	63.3	114.0
8	133.0	82.0	57.0	62.0	77.0	52.0	40.0	28.0	61.0	70.0	102.0	165.0	114.0	82.0	131.0	92.0	60.0	35.0	55.0	56.0	55.0	41.0	58.0	43.0	73.0	165.0
9	39.0	12.0	13.0	15.0	20.0	5.0	6.0	7.0	25.0	11.0	7.0	8.0	13.0	10.0	7.0	5.0	5.0	2.0	1.0	4.0	3.0	4.0	6.0	6.0	9.8	39.0
10	3.0	28.0	8.0	7.0	4.0	1.0	4.0	4.0	16.0	19.0	11.0	23.0	33.0	24.0	13.0	10.0	24.0	47.0	15.0	20.0	24.0	23.0	27.0	16.0	16.8	47.0
11	21.0	27.0	94.0	26.0	22.0	36.0	53.0	50.0	90.0	88.0	56.0	28.0	40.0	28.0	29.0	24.0	33.0	32.0	53.0	47.0	30.0	27.0	15.0	8.0	39.9	94.0
12	3.0	4.0	6.0	5.0	5.0	10.0	16.0	30.0	33.0	11.0	12.0	15.0	16.0	24.0	58.0	35.0	16.0	12.0	18.0	25.0	19.0	23.0	17.0	8.0	17.5	58.0
13	9.0	14.0	14.0	10.0	9.0	7.0	8.0	12.0	9.0	8.0	8.0	19.0	6.0	8.0	9.0	21.0	32.0	18.0	17.0	2.0	4.0	20.0	14.0	12.0	12.1	32.0
14	8.0	4.0	5.0	4.0	18.0	5.0	4.0	6.0	6.0	13.0	15.0	20.0	7.0	10.0	27.0	7.0	8.0	16.0	12.0	17.0	15.0	12.0	18.0	17.0	11.4	27.0
15	15.0	11.0	14.0	14.0	15.0	13.0	7.0	9.0	11.0	23.0	22.0	24.0	27.0	23.0	23.0	27.0	20.0	14.0	22.0	15.0	15.0	9.0	8.0	10.0	16.3	27.0
16	8.0	8.0	10.0	15.0	11.0	12.0	12.0	15.0	22.0	21.0	24.0	28.0	14.0	16.0	11.0	9.0	7.0	6.0	11.0	13.0	17.0	12.0	19.0	19.0	14.2	28.0
17	3.0	2.0	2.0	1.0	4.0	3.0	3.0	8.0	18.0	33.0	106.0	41.0	19.0	15.0	29.0	25.0	100.0	15.0	24.0	41.0	18.0	13.0	7.0	4.0	22.3	106.0
18	4.0	6.0	4.0	2.0	6.0	10.0	48.0	35.0	10.0	5.0	3.0	6.0	16.0	30.0	55.0	48.0	41.0	58.0	60.0	43.0	46.0	80.0	102.0	73.0	33.0	102.0
19	63.0	96.0	54.0	99.0	59.0	64.0	112.0	184.0	164.0	193.0	216.0	118.0	111.0	116.0	42.0	39.0	21.0	18.0	42.0	52.0	29.0	26.0	14.0	8.0	80.8	216.0
20	18.0	23.0	30.0	251.0	127.0	92.0	96.0	82.0	68.0	72.0	70.0	101.0	46.0	51.0	37.0	37.0	32.0	42.0	38.0	58.0	50.0	72.0	90.0	121.0	71.0	251.0
21	60.0	72.0	165.0	59.0	72.0	48.0	46.0	83.0	87.0	59.0	93.0	50.0	50.0	70.0	108.0	69.0	18.0	10.0	30.0	50.0	23.0	54.0	45.0	30.0	60.5	165.0
22	16.0	25.0	22.0	26.0	1.0	1.0	0.0	4.0	9.0	10.0	10.0	25.0	58.0	28.0	21.0	13.0	15.0	60.0	35.0	15.0	26.0	40.0	78.0	25.0	23.5	78.0
23	2.0	3.0	38.0	64.0	47.0	52.0	63.0	43.0	41.0	57.0	175.0	90.0	80.0	60.0	43.0	64.0	48.0	75.0	68.0	67.0	41.0	61.0	71.0	83.0	59.8	175.0
24	42.0	69.0	43.0	44.0	52.0	16.0	22.0	18.0	40.0	103.0	44.0	32.0	35.0	38.0	78.0	91.0	85.0	43.0	36.0	33.0	5.0	6.0	3.0	0.0	40.8	103.0
25	0.0	0.0	2.0	2.0	0.0	8.0	47.0	90.0	127.0	71.0	50.0	39.0	33.0	40.0	16.0	17.0	16.0	22.0	12.0	8.0	3.0	1.0	1.0	11.0	25.7	127.0
26	11.0	14.0	12.0	9.0	10.0	10.0	7.0	15.0	9.0	12.0	20.0	7.0	6.0	17.0	19.0	19.0	16.0	8.0	10.0	11.0	15.0	11.0	18.0	13.0	12.5	20.0
27	9.0	10.0	7.0	9.0	14.0	11.0	8.0	15.0	15.0	13.0	15.0	8.0	4.0	12.0	9.0	7.0	9.0	9.0	8.0	6.0	2.0	4.0	3.0	4.0	8.8	15.0
28	3.0	1.0	11.0	6.0	5.0	5.0	3.0	3.0	11.0	12.0	9.0	14.0	13.0	10.0	12.0	17.0	21.0	17.0	8.0	13.0	11.0	25.0	16.0	10.0	10.7	25.0
29	9.0	16.0	14.0	16.0	7.0	6.0	4.0	7.0	8.0	9.0	12.0	12.0	12.0	10.0	9.0	7.0	8.0	15.0	9.0	9.0	14.0	8.0	4.0	2.0	9.5	16.0
30	4.0	4.0	9.0	6.0	5.0	7.0	6.0	6.0	6.0	7.0	8.0	8.0	7.0	6.0	9.0	13.0	7.0	4.0	4.0	7.0	6.0	3.0	6.0	8.0	6.5	13.0
31	12.0	7.0	10.0	9.0	2.0	0.0	5.0	12.0	10.0	13.0	9.0	17.0	26.0	29.0	13.0	26.0	26.0	10.0	8.0	6.0	8.0	6.0	11.0	11.0	11.9	29.0
NO.	30	31	30	31	31	31	30	31	31	31	31	31	30	30	30	30	29	30	31	31	31	31	31	31	734	99.5%
MEAN	18.2	21.0	24.7	28.0	20.6	17.2	23.1	29.2	37.8	38.7	43.8	37.3	32.5	32.8	33.3	29.7	28.4	25.7	26.7	25.9	20.7	24.4	27.7	24.2	42.0	
MAX	133.0	96.0	165.0	251.0	127.0	92.0	112.0	184.0	164.0	193.0	216.0	165.0	114.0	116.0	131.0	92.0	100.0	75.0	68.0	67.0	60.0	80.0	102.0	121.0	91.1	433.3



Number of Non-Zero Readings	725
Maximum 1-HR Average	251.0 UG/M3
Maximum 24-HR Average	80.8 UG/M3
Monthly Calibration	6
Standard Deviation	31.73
Operational Time	740 HRS
Operational Uptime	99.5 %
Monthly Average	28.0 UG/M3

Windridge TSP (µg/m³) – March 2025

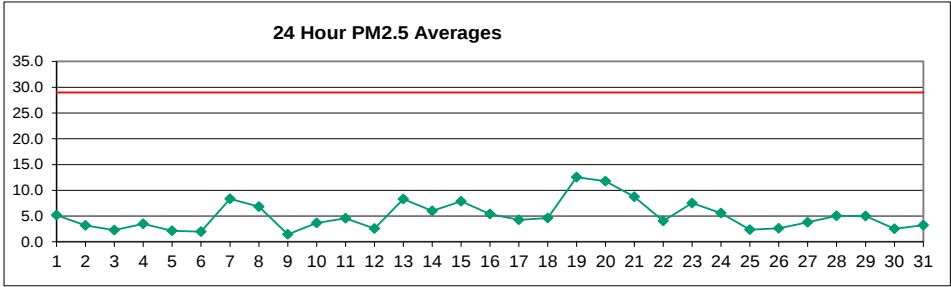
HOUR																										
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	5.0	21.0	79.0	62.0	17.0	12.0	30.0	60.0	176.0	126.0	65.0	80.0	99.0	147.0	45.0	23.0	X	93.0	89.0	88.0	49.0	18.0	38.0	26.0	63.0	176.0
2	3.0	6.0	16.0	28.0	9.0	16.0	17.0	44.0	23.0	62.0	119.0	99.0	38.0	19.0	25.0	65.0	21.0	25.0	13.0	11.0	13.0	26.0	15.0	13.0	30.3	119.0
3	10.0	24.0	X	1.0	17.0	5.0	10.0	5.0	8.0	13.0	24.0	24.0	30.0	18.0	24.0	30.0	10.0	4.0	5.0	4.0	1.0	1.0	1.0	25.0	12.8	30.0
4	1.0	47.0	25.0	37.0	3.0	2.0	0.0	15.0	26.0	44.0	52.0	23.0	35.0	76.0	34.0	51.0	101.0	68.0	69.0	72.0	69.0	96.0	115.0	72.0	47.2	115.0
5	0.0	10.0	7.0	7.0	8.0	27.0	X	24.0	31.0	11.0	38.0	14.0	9.0	19.0	17.0	8.0	25.0	24.0	17.0	3.0	3.0	7.0	7.0	8.0	14.1	38.0
6	X	10.0	7.0	3.0	2.0	0.0	0.0	6.0	12.0	9.0	25.0	23.0	C	C	C	C	C	C	34.0	34.0	24.0	29.0	19.0	44.0		
7	62.0	90.0	56.0	42.0	30.0	9.0	66.0	34.0	168.0	164.0	121.0	186.0	135.0	118.0	166.0	111.0	128.0	102.0	124.0	102.0	111.0	120.0	175.0	210.0	109.6	210.0
8	231.0	111.0	98.0	111.0	136.0	69.0	56.0	52.0	87.0	114.0	155.0	237.0	153.0	119.0	185.0	122.0	84.0	63.0	78.0	87.0	86.0	61.0	99.0	86.0	111.7	237.0
9	69.0	27.0	20.0	21.0	34.0	24.0	11.0	9.0	33.0	14.0	10.0	20.0	15.0	16.0	16.0	11.0	6.0	0.0	2.0	11.0	8.0	5.0	2.0	4.0	16.2	69.0
10	5.0	102.0	50.0	23.0	6.0	4.0	2.0	4.0	28.0	31.0	26.0	28.0	42.0	32.0	31.0	20.0	34.0	61.0	27.0	25.0	33.0	27.0	32.0	16.0	28.7	102.0
11	22.0	39.0	140.0	32.0	22.0	62.0	86.0	96.0	164.0	156.0	93.0	49.0	67.0	47.0	56.0	37.0	60.0	44.0	79.0	65.0	34.0	44.0	18.0	5.0	63.2	164.0
12	4.0	3.0	4.0	6.0	5.0	13.0	26.0	43.0	60.0	17.0	31.0	33.0	30.0	48.0	107.0	70.0	27.0	24.0	32.0	39.0	27.0	41.0	21.0	10.0	30.0	107.0
13	15.0	11.0	12.0	12.0	15.0	8.0	7.0	13.0	17.0	11.0	12.0	27.0	14.0	11.0	20.0	37.0	54.0	51.0	47.0	16.0	0.0	52.0	40.0	17.0	21.6	54.0
14	16.0	0.0	1.0	3.0	22.0	3.0	4.0	12.0	7.0	7.0	7.0	11.0	9.0	10.0	49.0	13.0	12.0	27.0	17.0	18.0	21.0	16.0	20.0	23.0	13.7	49.0
15	20.0	22.0	14.0	17.0	15.0	15.0	11.0	6.0	15.0	37.0	29.0	26.0	52.0	41.0	53.0	59.0	36.0	22.0	32.0	28.0	23.0	17.0	13.0	8.0	25.5	59.0
16	11.0	9.0	10.0	10.0	9.0	12.0	10.0	26.0	28.0	31.0	33.0	31.0	21.0	18.0	14.0	9.0	11.0	13.0	9.0	8.0	17.0	13.0	19.0	15.0	16.1	33.0
17	7.0	6.0	2.0	4.0	5.0	3.0	12.0	9.0	17.0	44.0	172.0	67.0	22.0	33.0	50.0	43.0	151.0	30.0	26.0	66.0	34.0	26.0	4.0	5.0	34.9	172.0
18	7.0	5.0	3.0	1.0	4.0	8.0	96.0	52.0	12.0	10.0	6.0	7.0	19.0	68.0	102.0	95.0	78.0	97.0	103.0	77.0	86.0	147.0	197.0	131.0	58.8	197.0
19	114.0	183.0	111.0	190.0	100.0	117.0	219.0	352.0	285.0	324.0	348.0	213.0	204.0	183.0	67.0	48.0	35.0	23.0	58.0	77.0	53.0	36.0	25.0	15.0	140.8	352.0
20	15.0	27.0	55.0	451.0	237.0	153.0	184.0	147.0	114.0	139.0	141.0	163.0	94.0	100.0	80.0	75.0	57.0	58.0	76.0	138.0	95.0	148.0	178.0	224.0	131.2	451.0
21	101.0	134.0	300.0	114.0	96.0	77.0	64.0	126.0	147.0	100.0	157.0	81.0	89.0	128.0	192.0	126.0	34.0	16.0	55.0	108.0	47.0	92.0	74.0	52.0	104.6	300.0
22	33.0	39.0	38.0	41.0	1.0	3.0	4.0	7.0	11.0	16.0	13.0	39.0	122.0	54.0	52.0	26.0	30.0	124.0	67.0	26.0	39.0	85.0	143.0	56.0	44.5	143.0
23	0.0	4.0	61.0	114.0	75.0	109.0	118.0	79.0	82.0	122.0	288.0	180.0	150.0	116.0	88.0	132.0	80.0	121.0	122.0	97.0	58.0	96.0	126.0	136.0	106.4	288.0
24	75.0	103.0	74.0	78.0	75.0	25.0	38.0	23.0	68.0	216.0	81.0	58.0	68.0	71.0	143.0	167.0	155.0	89.0	70.0	66.0	9.0	8.0	3.0	0.0	73.5	18.0
25	1.0	1.0	1.0	5.0	6.0	15.0	83.0	137.0	181.0	112.0	74.0	69.0	51.0	68.0	43.0	30.0	27.0	45.0	21.0	12.0	7.0	3.0	5.0	18.0	42.3	181.0
26	18.0	17.0	19.0	14.0	11.0	12.0	10.0	18.0	6.0	13.0	21.0	16.0	16.0	29.0	35.0	33.0	33.0	18.0	22.0	27.0	21.0	14.0	16.0	13.0	18.8	35.0
27	13.0	10.0	7.0	9.0	17.0	15.0	12.0	14.0	17.0	21.0	11.0	8.0	8.0	8.0	10.0	13.0	17.0	14.0	17.0	14.0	8.0	3.0	5.0	6.0	11.5	21.0
28	3.0	4.0	7.0	8.0	4.0	2.0	3.0	7.0	10.0	11.0	9.0	8.0	8.0	15.0	17.0	17.0	17.0	15.0	3.0	10.0	13.0	22.0	14.0	24.0	10.5	24.0
29	17.0	14.0	20.0	10.0	5.0	4.0	3.0	11.0	12.0	19.0	17.0	35.0	19.0	30.0	28.0	8.0	11.0	16.0	9.0	9.0	24.0	3.0	3.0	3.0	13.8	35.0
30	7.0	4.0	20.0	3.0	5.0	6.0	5.0	5.0	5.0	10.0	14.0	14.0	11.0	15.0	15.0	18.0	12.0	15.0	10.0	8.0	11.0	5.0	16.0	11.0	10.2	20.0
31	10.0	8.0	11.0	15.0	3.0	2.0	4.0	10.0	18.0	15.0	15.0	15.0	40.0	44.0	32.0	55.0	34.0	12.0	11.0	6.0	14.0	8.0	10.0	12.0	16.8	55.0
NO.	30	31	30	31	31	31	30	31	31	31	31	31	30	30	30	30	29	30	31	31	31	31	31	31	734	99.5%
MEAN	29.8	35.2	42.3	47.5	32.1	26.8	39.7	46.6	60.3	65.1	71.2	60.8	55.7	56.7	59.9	51.7	47.6	43.8	43.4	43.6	33.5	40.9	46.9	41.5		
MAX	231.0	183.0	300.0	451.0	237.0	153.0	219.0	352.0	285.0	324.0	348.0	237.0	204.0	183.0	192.0	167.0	155.0	124.0	124.0	138.0	111.0	148.0	197.0	224.0		



Number of 24HR Exceedences	6	Proposed Guideline
Number of Non-Zero Readings	725	
Maximum 1-HR Average	451.0 UG/M3	
Maximum 24-HR Average	140.8 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	56.1	Monthly Average
		740 HRS
		99.5 %
		46.8 UG/M3

Berm PM_{2.5} (µg/m³) – March 2025

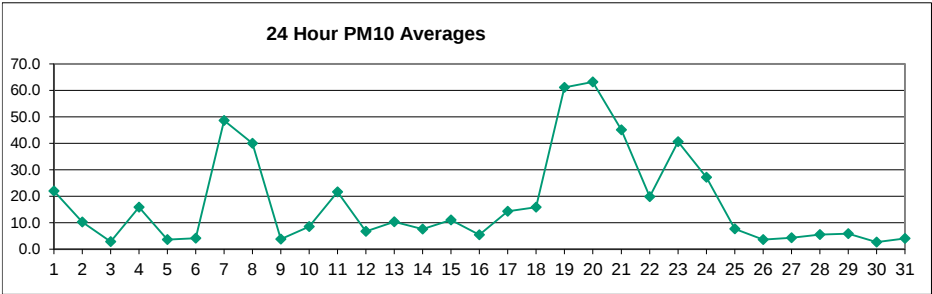
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	3.4	0.5	1.5	5.3	3.3	1.1	1.0	1.8	4.3	10.9	7.5	11.2	9.9	8.5	13.8	6.7	4.9	2.8	7.3	7.7	4.7	2.8	1.5	2.2	5.2	13.8
2	1.6	0.7	0.9	1.4	1.8	1.1	1.0	1.3	3.2	1.9	5.5	13.8	11.3	5.3	4.5	3.5	5.7	1.6	1.7	1.4	1.2	1.4	2.3	2.0	3.2	13.8
3	2.0	0.7	0.8	1.2	1.2	0.7	2.1	2.6	2.0	1.4	2.2	4.5	5.3	9.3	4.1	8.1	2.9	0.9	1.1	0.5	1.0	0.2	0.2	0.2	2.3	9.3
4	2.1	0.4	1.5	1.8	7.2	1.4	0.9	0.7	1.2	2.1	3.2	2.7	2.0	1.9	4.2	4.5	7.1	6.6	5.7	4.1	6.8	2.6	7.2	5.8	3.5	7.2
5	2.4	0.5	0.5	0.7	0.6	2.9	2.4	2.4	4.5	2.3	2.8	2.6	1.5	2.9	1.9	1.4	2.0	1.9	4.9	0.7	1.0	2.3	2.5	3.5	2.1	4.9
6	6.2	4.9	2.9	1.5	1.3	0.8	0.8	1.4	1.6	2.1	1.8	2.5	1.4	1.1	2.6	1.9	1.8	1.6	1.4	1.7	1.7	1.5	1.1	1.2	1.9	6.2
7	1.9	2.7	3.0	3.4	1.8	1.0	4.4	2.0	11.4	13.4	10.2	10.8	10.1	10.4	15.6	11.4	11.5	8.1	7.9	7.6	9.8	10.9	15.2	16.0	8.4	16.0
8	21.6	4.1	8.5	9.6	9.2	4.2	4.0	2.5	4.8	3.5	6.9	9.7	10.0	7.1	8.4	6.0	3.2	3.6	4.9	7.4	5.9	4.2	8.3	6.2	6.8	21.6
9	5.2	1.3	1.7	1.3	2.2	1.8	0.7	0.8	2.3	1.4	1.3	1.3	0.7	1.5	1.0	1.1	0.8	0.8	0.9	2.0	1.5	0.9	1.0	1.4	1.5	5.2
10	3.8	29.9	0.7	0.1	0.1	0.2	1.1	0.6	6.8	3.2	1.6	1.5	4.1	3.5	2.9	7.9	6.5	3.2	1.8	1.8	1.8	1.0	2.4	1.0	3.6	29.9
11	1.3	2.2	4.3	2.9	1.7	4.7	6.8	5.5	10.3	8.9	6.2	3.4	6.2	3.8	3.6	5.0	6.2	6.4	6.2	5.9	2.2	3.1	1.6	1.4	4.6	10.3
12	0.8	0.6	1.0	0.7	2.0	1.7	1.7	2.9	2.4	1.9	1.8	2.2	1.8	3.5	8.6	5.2	3.1	2.1	1.4	2.4	2.5	3.7	4.1	3.9	2.6	8.6
13	5.8	6.5	5.6	6.5	6.6	5.6	6.1	7.3	6.3	4.3	4.1	3.3	2.6	4.2	8.2	13.0	16.1	18.0	18.2	3.5	1.9	25.4	9.2	11.1	8.3	25.4
14	8.8	2.6	2.0	2.8	8.2	2.8	2.4	3.5	2.3	2.3	2.3	3.2	3.5	3.3	16.8	3.3	5.5	13.3	10.7	7.2	9.8	6.8	9.1	11.6	6.0	16.8
15	5.2	8.6	6.1	3.7	2.6	3.2	2.7	2.6	3.7	10.5	10.8	11.8	17.2	13.1	11.4	13.3	13.3	7.0	9.9	9.1	8.8	6.8	4.0	2.7	7.8	17.2
16	2.6	2.7	3.5	5.2	3.3	3.9	3.8	3.9	6.8	6.5	10.2	13.7	6.3	6.3	4.3	3.8	3.6	3.8	4.2	5.0	7.9	6.9	6.0	5.2	5.4	13.7
17	3.2	1.8	1.1	0.8	0.8	0.7	0.9	1.2	6.7	6.9	5.0	8.4	8.2	8.5	5.1	4.6	20.1	11.6	2.0	1.7	0.6	0.6	1.0	0.9	4.3	20.1
18	0.9	1.2	0.6	0.3	0.4	0.9	2.7	9.5	12.9	3.4	1.0	1.3	3.2	5.9	4.0	5.5	3.0	2.9	3.7	3.1	4.9	7.7	24.5	7.4	4.6	24.5
19	3.9	5.1	4.0	12.7	5.7	11.3	20.7	29.7	19.7	35.5	33.2	22.0	14.0	17.8	9.2	6.8	6.5	5.5	6.1	6.3	5.8	7.4	6.6	5.6	12.5	35.5
20	6.9	6.8	8.1	37.8	15.5	13.8	15.3	13.7	6.9	12.0	10.4	12.8	9.2	10.6	11.1	7.7	5.2	3.6	7.9	13.3	8.0	14.6	15.8	15.9	11.8	37.8
21	4.3	9.3	15.6	10.6	5.8	2.9	4.7	7.9	12.3	9.4	19.0	18.0	10.2	15.3	17.2	7.3	7.4	5.3	6.2	5.8	2.5	4.8	3.5	4.1	8.7	19.0
22	1.8	2.8	1.8	1.6	0.5	0.6	0.8	1.0	1.3	1.0	1.7	3.8	7.3	6.4	5.8	1.8	2.0	24.0	11.0	2.3	1.3	5.5	9.1	2.4	4.1	24.0
23	0.5	0.6	6.7	9.5	5.2	5.8	11.1	2.9	8.8	10.6	16.2	12.5	7.0	12.8	8.4	6.9	3.4	9.5	8.1	4.5	3.3	5.5	10.2	10.6	7.5	16.2
24	3.2	9.7	5.9	7.6	3.4	1.1	2.2	2.0	4.4	16.4	5.2	4.4	10.2	11.2	12.3	13.3	11.5	4.0	1.6	1.7	0.8	0.6	0.3	0.3	5.5	16.4
25	0.2	0.4	0.2	0.2	0.2	0.3	0.4	2.7	10.0	6.0	3.8	3.9	3.4	6.0	3.7	3.0	1.7	2.3	1.8	1.3	0.4	0.4	1.3	2.7	2.3	10.0
26	2.3	3.0	3.1	1.9	3.6	1.7	2.2	3.0	3.7	3.4	4.5	2.7	1.9	2.2	1.9	1.9	1.6	1.3	1.6	2.6	3.4	2.6	3.0	3.2	2.6	4.5
27	1.8	0.7	1.2	1.4	3.7	3.9	2.4	3.2	4.1	4.5	3.2	2.7	0.9	7.8	5.0	6.2	16.8	14.3	2.7	0.8	0.7	0.7	0.9	1.0	3.8	16.8
28	0.8	1.3	10.9	2.6	2.2	4.0	2.1	3.2	5.3	3.9	2.7	4.2	4.3	4.3	3.4	10.0	8.4	4.5	3.8	4.6	3.2	6.0	12.2	13.4	5.0	13.4
29	9.7	10.5	15.5	3.7	2.1	1.4	1.6	1.7	2.3	2.5	2.7	2.4	3.2	7.9	6.4	2.8	4.6	6.3	5.8	7.9	11.7	3.4	2.4	1.4	5.0	15.5
30	2.3	1.9	3.1	1.1	2.1	3.5	2.2	2.4	3.6	3.7	2.4	1.6	1.5	2.7	3.0	2.5	3.1	1.9	1.9	2.2	2.0	2.0	3.3	4.5	2.5	4.5
31	4.9	4.8	4.3	4.1	1.1	1.4	1.5	2.2	3.6	2.5	2.4	3.2	9.6	5.9	3.1	3.4	3.2	2.2	2.2	1.8	2.0	2.6	2.6	2.9	3.2	9.6
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%
MEAN	3.9	4.2	4.1	4.6	3.4	2.9	3.6	4.1	5.8	6.4	6.2	6.5	6.1	6.8	6.8	5.8	6.2	5.8	5.0	4.1	3.8	4.7	5.6	4.9		
MAX	21.6	29.9	15.6	37.8	15.5	13.8	20.7	29.7	19.7	35.5	33.2	22.0	17.2	17.8	17.2	13.3	20.1	24.0	18.2	13.3	11.7	25.4	24.5	16.0		



Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	744		
Maximum 1-HR Average	37.8 UG/M3		
Maximum 24-HR Average	12.5 UG/M3		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	4.9	Monthly Average	5.1 UG/M3

Berm PM₁₀ (µg/m³) – March 2025

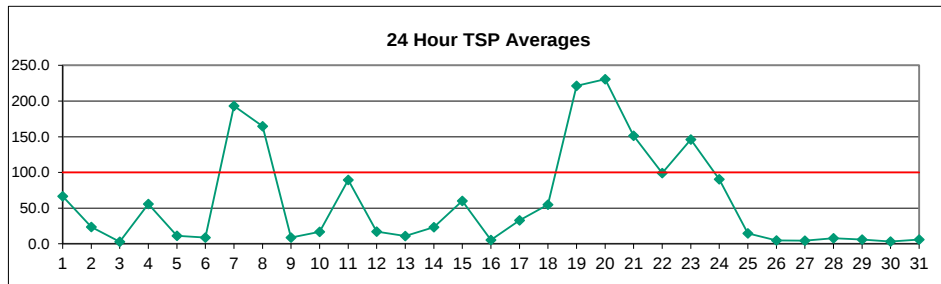
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	16.4	1.3	4.8	24.0	13.5	1.9	2.4	6.6	16.9	47.4	33.3	54.6	43.8	37.8	64.0	31.0	17.4	9.4	31.7	31.8	17.6	8.3	3.5	7.6	22.0	64.0
2	4.1	1.2	1.5	3.4	5.1	2.3	1.5	3.2	12.1	5.3	22.4	55.6	47.9	18.9	17.4	9.0	19.1	2.6	2.5	1.8	1.6	2.1	2.8	3.0	10.3	55.6
3	2.4	0.7	0.8	1.2	1.2	0.7	2.6	3.0	2.0	1.4	2.8	5.9	6.6	12.1	5.3	11.7	3.4	0.9	1.1	0.5	1.0	0.2	0.2	0.2	2.8	12.1
4	3.0	0.4	1.7	2.5	10.2	1.4	0.9	0.7	2.4	7.7	17.2	10.2	7.8	9.3	19.3	25.5	41.2	40.3	32.1	19.6	35.3	10.9	42.8	39.1	15.9	42.8
5	11.6	0.5	0.5	1.2	0.9	6.7	3.1	2.4	4.9	2.5	4.4	8.8	3.4	4.8	7.8	2.4	2.4	1.9	5.6	0.7	1.0	2.3	2.5	3.5	3.6	11.6
6	6.2	4.9	2.9	1.5	1.3	0.8	0.8	1.4	1.9	4.0	4.6	7.7	3.5	2.6	9.1	5.2	8.3	5.6	4.3	4.4	6.2	5.4	3.5	3.5	4.1	9.1
7	6.9	11.6	14.8	17.3	7.9	3.0	21.4	7.2	65.1	70.6	60.2	63.7	61.5	49.6	90.3	62.4	66.4	43.3	43.4	42.6	63.9	68.5	107.6	118.3	48.7	118.3
8	150.5	20.8	52.1	53.7	55.4	18.1	20.7	10.4	25.2	19.8	36.6	59.9	61.5	44.6	49.2	31.4	14.1	19.0	26.6	42.3	39.0	22.6	51.2	36.0	40.0	150.5
9	29.5	3.4	5.5	4.4	5.8	3.6	1.3	1.5	7.8	3.3	3.1	2.6	0.8	4.4	2.5	1.8	0.8	0.8	0.9	2.0	1.5	0.9	1.1	1.6	3.8	29.5
10	4.9	44.5	1.0	0.1	0.1	0.2	1.2	0.6	7.1	3.3	3.1	2.5	11.2	11.8	12.9	33.1	25.1	12.6	4.0	5.4	5.6	2.7	8.3	2.5	8.5	44.5
11	4.6	9.8	18.8	13.3	4.9	25.0	37.5	30.7	67.0	60.5	29.4	16.4	28.5	15.9	14.2	20.2	24.1	25.1	26.6	23.6	5.9	12.0	4.3	1.4	21.6	67.0
12	0.8	0.6	1.6	0.7	4.1	3.0	4.0	5.8	7.5	4.0	4.1	4.5	3.5	9.9	35.9	20.0	13.0	8.1	5.5	4.0	4.6	7.2	5.6	3.9	6.7	35.9
13	5.8	6.5	5.6	6.5	6.6	5.6	6.1	7.3	6.3	4.3	4.1	3.3	2.6	4.2	8.7	17.3	23.3	26.7	27.2	4.7	1.9	37.6	13.0	13.5	10.4	37.6
14	10.5	2.6	2.0	2.8	9.9	2.8	2.4	3.5	2.3	2.3	2.3	3.7	4.3	4.2	39.2	3.3	5.5	17.2	12.3	7.2	11.1	6.8	9.1	13.9	7.5	39.2
15	5.2	8.6	6.1	3.7	2.6	3.2	2.7	2.6	3.7	12.5	15.4	16.0	36.3	30.5	24.2	18.0	17.6	7.0	13.0	11.4	10.3	6.8	4.0	2.7	11.0	36.3
16	2.6	2.7	3.5	5.2	3.3	3.9	3.8	3.9	6.8	6.5	10.3	14.5	6.3	6.3	4.3	3.8	3.6	3.8	4.2	5.0	7.9	6.9	6.0	5.2	5.4	14.5
17	3.2	1.8	1.1	0.8	0.8	0.7	0.9	1.2	8.9	10.7	20.8	45.0	34.6	32.0	20.9	21.6	75.7	44.3	6.6	5.1	1.3	1.3	1.3	1.5	14.3	75.7
18	0.9	1.3	0.6	0.3	0.6	1.3	3.1	10.6	16.2	6.8	1.2	1.8	5.8	29.4	21.7	30.8	13.5	13.9	17.8	12.6	24.4	44.1	87.2	33.6	15.8	87.2
19	14.1	22.4	16.5	59.9	25.9	57.2	115.4	167.0	92.5	175.1	172.9	114.3	70.0	102.7	36.0	25.7	18.4	16.1	28.0	31.5	23.9	33.5	28.0	20.9	61.2	175.1
20	24.9	24.3	34.9	233.7	92.3	72.2	85.3	71.9	29.7	62.9	51.4	74.0	44.4	54.1	49.9	39.1	26.0	18.3	40.9	71.6	44.9	84.0	92.9	92.1	63.2	233.7
21	17.3	57.5	88.1	55.1	25.4	12.1	15.6	37.1	60.5	44.4	101.4	123.7	50.7	77.8	94.6	30.2	34.3	25.2	33.2	29.4	10.4	25.1	15.1	18.3	45.1	123.7
22	6.9	10.8	6.6	6.3	0.5	0.6	1.0	1.6	2.8	2.0	4.9	15.2	42.9	21.8	27.7	7.8	9.9	134.8	53.4	4.9	3.8	34.9	63.0	11.9	19.8	134.8
23	0.6	0.7	36.2	59.0	21.7	23.9	63.6	11.7	47.7	60.6	96.0	72.9	38.3	80.5	44.6	39.5	16.1	43.8	40.6	19.9	14.3	31.2	53.4	57.1	40.6	96.0
24	15.2	48.6	27.4	37.9	13.9	3.1	7.5	7.8	22.3	96.8	23.6	20.2	45.0	53.8	63.9	71.5	61.1	17.8	4.5	5.7	2.1	1.4	0.3	0.3	27.2	96.8
25	0.2	0.4	0.2	0.3	0.3	0.7	0.4	6.8	35.3	21.3	10.7	12.0	12.2	26.0	18.2	12.5	4.9	7.9	4.8	2.1	0.4	0.4	1.3	4.0	7.6	35.3
26	3.4	4.3	3.9	3.1	4.4	1.7	2.2	3.0	3.7	3.4	5.5	2.8	3.0	5.4	4.4	4.7	3.0	1.9	2.6	4.3	4.7	4.5	4.2	3.4	3.6	5.5
27	1.8	0.7	1.2	1.4	3.7	3.9	2.4	3.2	4.1	4.5	3.2	2.7	0.9	8.3	6.2	7.1	20.9	20.1	2.7	0.8	0.7	0.7	0.9	1.0	4.3	20.9
28	0.8	1.3	12.2	2.6	2.2	4.0	2.1	3.2	5.3	3.9	2.7	5.9	7.5	5.8	3.4	10.2	8.4	4.5	3.8	4.6	3.2	6.0	13.3	15.9	5.5	15.9
29	9.8	10.6	21.1	3.7	2.1	1.4	1.6	1.7	2.3	2.5	2.7	2.4	3.2	11.2	7.6	3.1	4.7	7.5	6.6	10.6	16.1	3.4	2.4	1.4	5.8	21.1
30	2.3	1.9	3.1	1.1	2.1	3.5	2.2	2.4	3.6	4.0	5.6	1.9	1.5	2.7	3.0	2.5	3.1	1.9	1.9	2.2	2.0	2.0	3.3	4.5	2.7	5.6
31	4.9	4.8	4.3	4.1	1.1	1.4	1.5	2.2	6.8	4.9	5.1	4.1	15.1	8.8	4.0	4.6	4.0	2.2	2.2	1.8	2.0	2.6	2.6	2.9	4.1	15.1
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%
MEAN	12.0	10.1	12.3	19.7	10.6	8.7	13.5	13.6	18.7	24.5	24.6	26.7	22.7	25.4	26.1	19.6	19.0	18.9	15.8	13.4	11.9	15.4	20.5	16.9		
MAX	150.5	57.5	88.1	233.7	92.3	72.2	115.4	167.0	92.5	175.1	172.9	123.7	70.0	102.7	94.6	71.5	75.7	134.8	53.4	71.6	63.9	84.0	107.6	118.3		



Number of Non-Zero Readings		744
Maximum 1-HR Average		233.7 UG/M3
Maximum 24-HR Average		63.2 UG/M3
Monthly Calibration		0
Standard Deviation		26.11
Operational Time		744 HRS
Operational Uptime		100.0 %
Monthly Average		17.5 UG/M3

Berm TSP (µg/m³) – March 2025

HOUR																								
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	61.5	2.3	18.0	82.4	47.8	1.9	8.7	33.3	58.5	142.7	107.4	171.4	143.9	106.3	199.1	94.2	31.7	22.0	83.2	86.9	49.8	20.9	6.9	16.9
2	7.2	3.4	1.8	9.9	12.9	5.5	2.1	7.1	39.5	11.6	59.0	119.0	123.1	47.4	35.9	15.1	44.6	3.7	3.1	1.8	1.6	2.4	2.8	3.3
3	2.7	0.7	0.8	1.2	1.2	0.7	2.7	3.0	2.0	1.4	2.9	6.3	6.6	12.1	5.3	11.7	3.4	0.9	1.1	0.5	1.0	0.2	0.2	0.2
4	3.0	0.4	1.7	2.6	10.5	1.4	0.9	0.7	7.7	25.8	90.4	54.7	23.8	36.1	56.4	99.2	172.4	147.4	118.8	42.9	106.5	33.3	139.9	164.5
5	40.1	0.5	0.5	7.7	1.1	32.3	3.1	2.4	4.9	2.5	6.3	13.5	10.2	9.5	97.5	16.4	2.4	1.9	5.6	0.7	1.0	2.3	2.5	3.5
6	6.2	4.9	2.9	1.5	1.3	0.8	0.8	1.4	1.9	8.9	9.0	17.5	8.0	3.2	14.2	19.6	21.3	14.2	15.2	9.2	19.1	10.8	10.7	10.9
7	20.9	36.3	49.1	59.4	22.8	5.7	84.9	24.3	276.2	271.9	191.6	265.1	248.1	193.9	356.7	227.5	206.5	171.5	172.7	165.2	252.8	329.2	483.1	524.6
8	654.5	89.9	205.6	186.1	193.2	58.6	87.5	39.2	91.2	95.0	175.1	266.8	270.7	191.6	197.3	129.8	53.7	82.8	108.7	161.7	147.6	89.1	210.5	168.4
9	114.0	3.4	13.0	10.1	7.6	3.6	1.5	2.3	21.1	3.7	4.0	3.5	0.8	7.1	4.1	2.4	0.8	0.8	0.9	2.0	1.5	0.9	1.1	1.6
10	4.9	49.3	1.1	0.1	0.1	0.2	1.2	0.6	7.1	3.3	11.4	8.6	17.0	44.2	34.5	51.5	70.7	29.8	4.0	5.6	6.1	9.4	36.1	3.6
11	21.7	72.9	104.1	163.3	28.1	105.8	148.5	132.2	320.4	323.4	103.4	50.3	90.5	49.2	41.3	68.9	46.6	68.3	98.3	51.2	10.6	35.7	12.0	1.4
12	0.8	0.6	8.4	0.7	44.0	19.2	22.2	12.8	33.8	15.6	10.7	7.1	7.4	27.4	49.8	36.0	37.2	25.2	17.2	8.1	7.0	7.4	5.6	3.9
13	5.8	6.5	5.6	6.5	6.6	5.6	6.1	7.3	6.3	4.3	4.1	3.3	2.6	4.2	8.7	17.3	25.7	29.9	30.8	4.7	1.9	43.0	13.2	13.5
14	10.5	2.6	2.0	2.8	9.9	2.8	2.4	3.5	2.3	2.3	2.3	9.6	4.7	4.8	409.0	3.3	5.5	17.2	12.3	7.2	11.1	6.8	9.1	13.9
15	5.2	8.6	6.1	3.7	2.6	3.2	2.7	2.6	3.7	15.5	60.4	78.3	348.6	553.4	258.9	18.0	17.6	7.0	13.0	11.4	10.3	6.8	4.0	2.7
16	2.6	2.7	3.5	5.2	3.3	3.9	3.8	3.9	6.8	6.5	10.3	14.5	6.3	6.3	4.3	3.8	3.6	3.8	4.2	5.0	7.9	6.9	6.0	5.2
17	3.2	1.8	1.1	0.8	0.8	0.7	0.9	1.2	18.7	17.1	61.9	127.0	71.7	77.4	49.7	48.5	171.0	106.9	14.8	10.0	2.3	1.6	1.3	2.7
18	0.9	1.3	0.6	0.3	1.0	1.6	3.1	10.6	16.2	77.8	1.9	2.9	8.1	78.7	80.1	134.1	74.1	53.8	55.6	46.3	102.5	171.9	289.1	105.7
19	37.7	77.8	61.8	208.3	111.5	192.5	424.5	652.9	313.8	636.9	617.1	437.1	279.0	393.3	104.6	89.7	40.1	48.2	97.7	126.8	94.1	130.2	87.8	50.3
20	64.4	63.0	112.0	946.7	419.9	255.0	336.1	257.8	93.0	208.1	178.8	266.2	150.6	194.2	165.6	141.8	83.5	62.7	133.0	258.6	161.8	309.6	359.3	317.3
21	45.1	218.0	342.4	203.0	83.2	31.3	31.8	97.0	166.7	122.3	298.1	528.5	165.1	252.4	343.6	114.7	101.4	78.5	104.8	71.0	35.6	81.4	47.2	72.2
22	21.7	35.0	21.4	22.6	0.5	0.6	1.0	2.6	8.1	5.7	12.8	36.8	263.6	123.7	121.0	28.2	45.5	778.6	369.5	14.1	12.3	151.1	260.0	42.3
23	1.4	1.0	118.4	193.8	67.0	74.0	224.8	41.7	164.3	231.2	376.6	303.2	160.2	316.2	164.1	173.3	64.4	123.0	141.2	52.9	45.2	114.9	181.6	176.1
24	43.0	159.3	88.6	111.9	40.9	9.0	20.9	23.2	68.2	351.9	60.7	63.8	133.7	157.5	223.5	245.9	239.3	83.6	12.8	19.8	6.1	3.7	0.3	0.3
25	0.2	0.4	0.2	0.7	0.4	2.1	0.4	6.8	48.3	34.6	20.2	24.4	23.8	60.1	55.6	29.7	9.4	16.2	8.3	2.1	0.4	0.4	1.3	4.9
26	3.8	4.9	4.0	4.1	4.4	1.7	2.2	3.0	3.7	3.4	5.7	2.8	4.3	8.0	7.9	8.9	3.6	2.6	2.9	7.8	7.4	5.2	7.1	3.4
27	1.8	0.7	1.2	1.4	3.7	3.9	2.4	3.2	4.1	4.5	3.2	2.7	0.9	8.3	6.2	7.1	20.9	20.1	2.7	0.8	0.7	0.7	0.9	1.0
28	0.8	1.3	12.2	2.6	2.2	4.0	2.1	3.2	5.3	3.9	2.7	19.8	37.8	20.1	3.4	10.2	8.4	4.5	3.8	4.6	3.2	6.0	13.3	15.9
29	9.8	10.6	21.6	3.7	2.1	1.4	1.6	1.7	2.3	2.5	2.7	2.4	3.2	11.8	7.6	3.3	4.7	7.5	6.6	10.6	16.1	3.4	2.4	1.4
30	2.3	1.9	3.1	1.1	2.1	3.5	2.2	2.4	3.6	6.7	13.5	1.9	1.5	2.7	3.0	2.5	3.1	1.9	1.9	2.2	2.0	2.0	3.3	4.5
31	4.9	4.8	4.3	4.1	1.1	1.4	1.5	2.2	17.9	14.4	17.2	4.1	18.9	12.5	6.1	5.0	5.5	2.2	2.2	1.8	2.0	2.6	2.6	2.9
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
MEAN	38.8	28.0	39.3	72.5	36.6	26.9	46.3	44.7	58.6	85.7	81.3	94.0	85.0	97.2	100.5	59.9	52.2	65.1	53.1	38.5	36.4	51.3	71.0	56.1
MAX	654.5	218.0	342.4	946.7	419.9	255.0	424.5	652.9	320.4	636.9	617.1	528.5	348.6	553.4	409.0	245.9	239.3	778.6	369.5	258.6	252.8	329.2	483.1	524.6



Number of 24HR Exceedences	6	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	946.7 UG/M3	
Maximum 24-HR Average	230.8 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	107.9	Monthly Average
		744 HRS
		100.0 %
		59.1 UG/M3