

LAFARGE CANADA INC.

# AMBIENT AIR QUALITY MONTHLY REPORT

## MARCH 2024

APRIL 29, 2024



wsp



# AMBIENT AIR QUALITY MONTHLY REPORT

MARCH 2024

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05  
DATE: APRIL 29, 2024

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April 29, 2024

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

**Attention: Nikolaos Veriotes P. Eng.**

Dear Mr. Veriotes,

**Subject: Ambient Air Quality Monthly Report – March 2024**

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 2024.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	100.0%	-	0
PM <sub>2.5</sub>	100.0%	0	0
PM <sub>10</sub>	100.0%	-	-
NO	100.0%	-	-
NO <sub>2</sub>	100.0%	0	-
NO <sub>x</sub>	100.0%	-	-
SO <sub>2</sub>	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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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 2024.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of PM <sub>2.5</sub> AAAQO	Exceedances of TSP AAAQO
TSP	99.9%	-	-	4
PM <sub>2.5</sub>	99.9%	0	0	-
PM <sub>10</sub>	99.9%	-	-	-

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 2024.

GRIMM Stations	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of PM <sub>2.5</sub> Guidelines	Exceedances of PM <sub>2.5</sub> Guidelines	Exceedances of TSP Guidelines
West	100.0%	0	0	0
Berm	0%	0	0	0
Entrance	83.6%	7	4	16

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

Sincerely,

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

---

# SIGNATURES

PREPARED BY



April 25, 2024

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Tuonan Li, M.Sc.  
Air Quality Specialist  
Vancouver Region, Environment

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Date

APPROVED<sup>1</sup> BY *(must be reviewed for technical accuracy prior to approval)*



April 25, 2024

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

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Date

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### **A** DATA & CALIBRATION REPORTS

# 1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB (Figure 1-1). The stations are operated by WSP on behalf of Lafarge Canada Inc. (Lafarge) and are a requirement of Lafarge’s Approval 1702-02-04. This report contains data collected between March 1, 2024 and March 31, 2024.

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

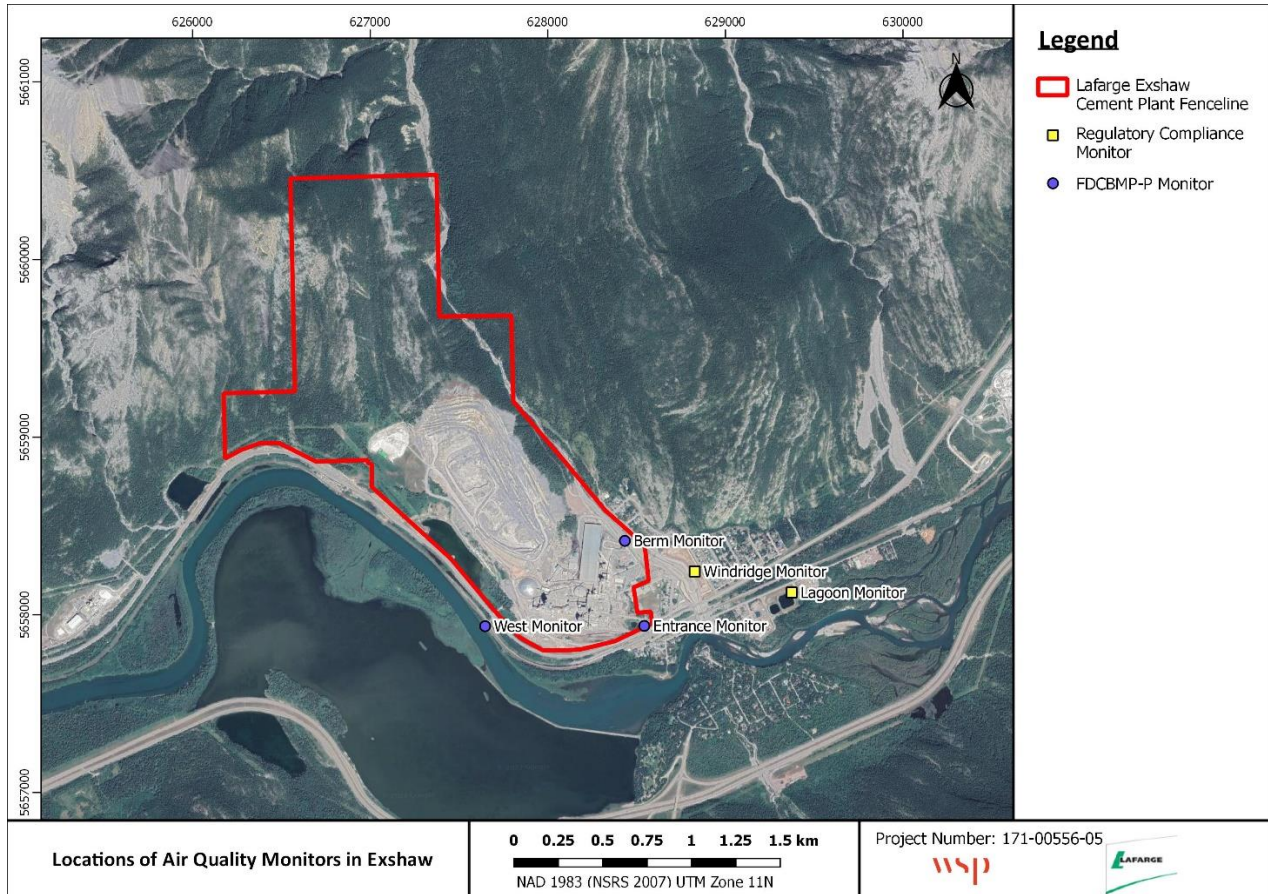


Figure 1-1 Locations of Air Quality Monitors in Exshaw

## 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 2024 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<sub>2.5</sub>, if any, are those above the 1-hour PM<sub>2.5</sub> 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
<b>NO<sub>2</sub> (ppb)</b>	100.0	34.5	0	16.6	-
<b>SO<sub>2</sub> (ppb)</b>	100.0	9.1	0	2.1	0
<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	100.0	28.1	0*	11.4	0
<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	100.0	138.7	-	35.0	-
<b>TSP (µg/m<sup>3</sup>)</b>	100.0	281.6	-	67.8	0
<b>Temperature (°C)</b>	100.0	17.8	-	9.4	-
<b>Wind Speed (km/hr) /Direction (Degrees)</b>	100.0	42.5/W	-	29.3/WSW	-
<b>Precipitation (mm)</b>	100.0	0.3 <sup>2</sup>	-	0.75 <sup>3</sup>	-

<sup>1</sup> Any exceedances reported for 1-hour PM<sub>2.5</sub> are over the guideline level (AAAQG) of 80 µg/m<sup>3</sup>.

<sup>2</sup> Maximum Daily Total Accumulation of Precipitation (mm) – freezing temperatures can impact the precipitation totals in winter months

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

### Data Quality Notes:

- There were no exceedance of the 24-hour PM<sub>2.5</sub> AAAQO.
- There were no exceedances of the 1-hour PM<sub>2.5</sub> AAAQG.
- There were no exceedances of the 24-hour TSP AAAQO.

### Calibration/Maintenance Notes:

- At the Lagoon station, NO<sub>2</sub> and SO<sub>2</sub> analyzers recorded 100% uptime during the month of March.
- The TSP, PM<sub>10</sub> and PM<sub>2.5</sub> analyzers 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 <sub>2.5</sub> (µg/m <sup>3</sup> )	99.9	42.0	0*	8.9	0
PM <sub>10</sub> (µg/m <sup>3</sup> )	99.9	325.0	-	136.9	-
TSP (µg/m <sup>3</sup> )	99.9	513.0	-	202.0	4

\* Any exceedances reported for 1-hour PM<sub>2.5</sub> are over the guideline level (AAAQG) of 80 µg/m<sup>3</sup>.

### Data Quality Notes:

- There were no exceedances of the 24-hour PM<sub>2.5</sub> AAAQO.
- There were no exceedances of the 1-hour PM<sub>2.5</sub> AAAQG.
- There were 4 days exceeding the 24-hour TSP AAAQO.

### Calibration/Maintenance Notes:

- At the Windridge station, the TSP, PM<sub>10</sub> and PM<sub>2.5</sub> analyzers recorded 99.9% uptime for the month of March due to one hour of equipment malfunction occurring on March 20<sup>th</sup> at 1:00.

---

## 2.3 WEST GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their Fugitive Dust Control Best Management Practices – Program (FDCBMP-P). The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

**Table 2-3 West station data summary**

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
PM <sub>2.5</sub> (µg/m <sup>3</sup> )	100.0	24.0	0*	11.6	0

<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	100.0	27.8	-	14.9	-
<b>TSP (µg/m<sup>3</sup>)</b>	100.0	27.8	-	16.4	0

\* Any exceedances reported for 1-hour PM<sub>2.5</sub> are over the guideline level (AAAQG) of 80 µg/m<sup>3</sup>.

#### Data Quality Notes:

- There were no exceedances of the 24-hour PM<sub>2.5</sub> AAAQO.
- There were no exceedances of the 1-hour PM<sub>2.5</sub> AAAQG.
- There were no exceedances the 24-hour TSP AAAQO.

#### Calibration/Maintenance Notes:

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

## 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.

#### Calibration/Maintenance Notes:

- The analyzer had 0% uptime for the month of March due to communication error and was sent to the factory for repairs.

## 2.5 ENTRANCE GRIMM

The GRIMM monitors are Industrial Ambient Monitors meant to aid Lafarge in assessing the performance of their FDCBMP-P. The AAAQO are used as Guidelines to evaluate the performance of the FDCBMP-P; however, these Industrial monitors are not Alberta Air Monitoring Directive (AMD) compliant and not required to show compliance with the AAAQO.

**Table 2-4** Entrance station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	83.6	118.5	7*	46.8	4
<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	83.6	1071.4	-	339.4	-
<b>TSP (µg/m<sup>3</sup>)</b>	83.6	2289.0	-	750.1	16

\* Any exceedances reported for 1-hour PM<sub>2.5</sub> are over the guideline level (AAAQG) of 80 µg/m<sup>3</sup>.

**Data Quality Notes:**

- There were 4 exceedances of the 24-hour PM<sub>2.5</sub> AAAQO.
- There were 7 exceedances of the 1-hour PM<sub>2.5</sub> AAAQG.
- There were 16 exceedances the 24-hour TSP AAAQO.

**Calibration/Maintenance Notes:**

- The analyzer had 83.6% uptime for the month of March due to 122 hours of equipment malfunction occurring on March 3<sup>rd</sup> at 13:00 – March 4<sup>th</sup> at 3:00; March 4<sup>th</sup> at 17:00; March 7<sup>th</sup> at 6:00 and 9:00; March 17<sup>th</sup> at 14:00; March 20<sup>th</sup> at 1:00 and 2:00; March 20<sup>th</sup> at 11:00 – March 24<sup>th</sup> at 4:00; and March 28<sup>th</sup> at 16:00 – March 29<sup>th</sup> at 1:00.

# 3 LAGOON STATION

The Lagoon trailer contains NO<sub>x</sub>, SO<sub>2</sub>, TSP, PM<sub>10</sub>, and PM<sub>2.5</sub> analyzers as well as meteorological sensors, and is shown in Figure 3-1. An ambient air quality station has been at this location since 2002, providing a long-term data record for air quality in the Exshaw area.

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes and tables and graphs illustrating the monitoring results for March 2024.

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
<b>PM<sub>2.5</sub> Concentrations</b>	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM <sub>2.5</sub> monitor was calibrated on March 19 <sup>th</sup> . The monitor had 100% uptime for the month of March.
<b>PM<sub>10</sub> Concentrations</b>	MetOne BAM-1020 Continuous Particulate Monitor	The PM <sub>10</sub> monitor was calibrated on March 19 <sup>th</sup> . The monitor had 100% uptime for the month of March.
<b>TSP Concentrations</b>	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on March 19 <sup>th</sup> . The monitor had 100% uptime for the month of March.
<b>Oxides of Nitrogen</b>	TEI 42C	The NO <sub>x</sub> monitor was calibrated on March 7 <sup>th</sup> . The monitor had 100% uptime for the month of March.
<b>Sulphur Dioxide</b>	Teledyne API 102A	The SO <sub>2</sub> monitor was calibrated on March 7 <sup>th</sup> . The monitor had 100% uptime for the month of March.
<b>Precipitation</b>	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime for the month of March.
<b>Wind Speed</b>	MetOne Wind Sensor	The monitor had 100% uptime for the month of March.
<b>Wind Direction</b>		



<b>Ambient Temperature</b>	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 2024. 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 2024 for the pollutants listed in Table 3-2. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, and TSP measured at the Lagoon station.

There were no exceedances of the 24-hour TSP AAAQO (100 µg/m<sup>3</sup>). There were no exceedances the 24-hour PM<sub>2.5</sub> AAAQO (29 µg/m<sup>3</sup>). Further, there were no exceedances of the 1-hour PM<sub>2.5</sub> AAAQG (80 µg/m<sup>3</sup>) at the station this month.

Historically in March, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM<sub>2.5</sub> AAAQO exceedances are both zero. The maximum number of 24-hour TSP AAAQO exceedances recorded in March were one day in 2015 and 2021. The maximum number of 24-hour PM<sub>2.5</sub> AAAQO exceedances recorded in March were one day in 2018.

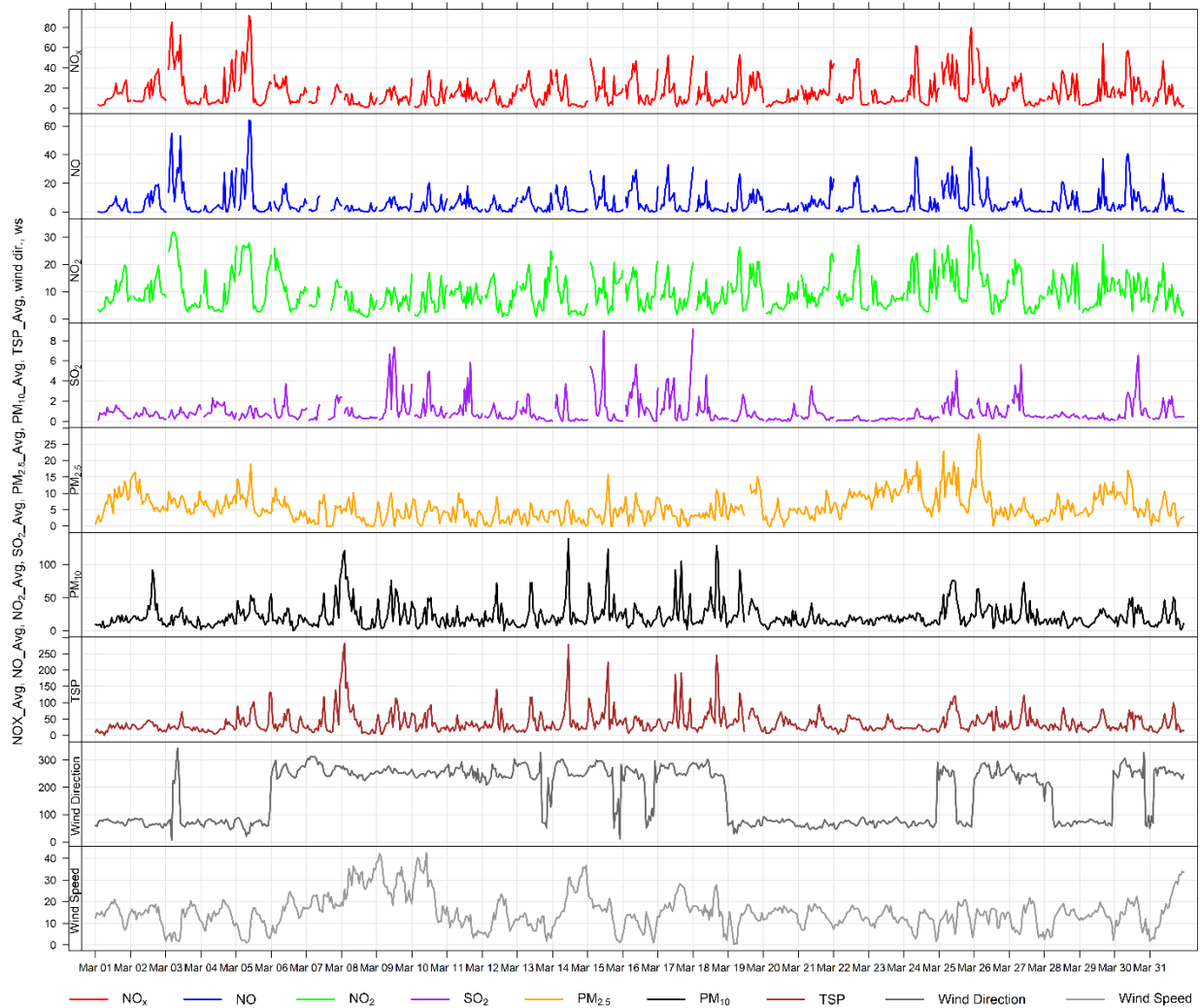
At the Lagoon station strong wind gusting that typically occurs in the area contributes to increased particulate levels that may arise from multiple sources including the Lafarge Plant, Exshaw Creek, dry sections of the Bow River, highway and rail traffic moving past the station and fugitive emissions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

**Table 3-2 Summary of March 2024 data at Lagoon**

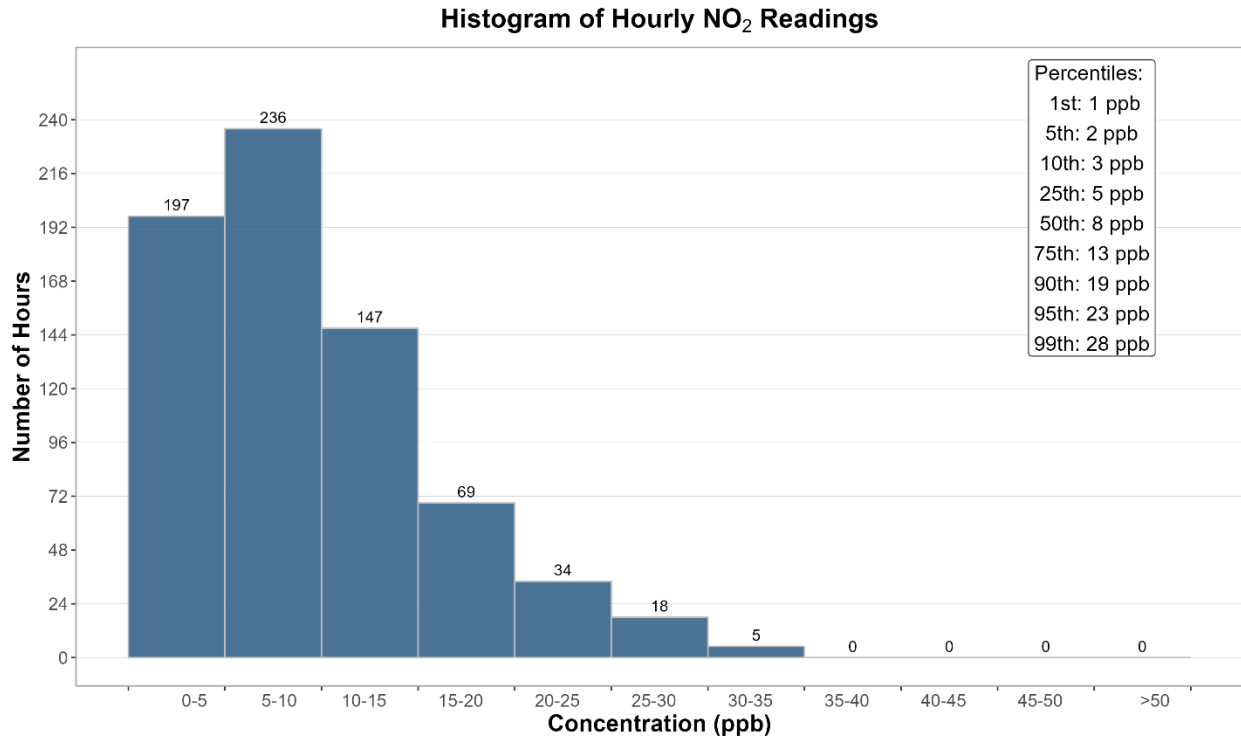
Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
<b>NO<sub>2</sub> (ppb)</b>	159	-	Lagoon	0	-	0.8	9.6	34.5	25	23	7.5	54.6	16.6	25	100.0
<b>SO<sub>2</sub> (ppb)</b>	172	48	Lagoon	0	0	0.0	0.9	9.1	18	1	17.9	289.4	2.1	9	100.0
<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>	80	29	Lagoon	0	0	0.0	5.7	28.1	26	4	15.6	252.2	11.4	25	100.0
<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>	-	-	Lagoon	-	-	0.0	21.7	138.7	14	12	30.8	243.3	35.0	8	100.0
<b>TSP (µg/m<sup>3</sup>)</b>	-	100	Lagoon	-	0	0.0	38.1	281.6	8	3	25.7	264.3	67.8	8	100.0
<b>Temperature (°C)</b>	-	-	Lagoon	-	-	-25.0	-3.0	17.8	17	16	28.2	252.3	9.4	18	100.0
<b>Wind Speed (km/hr)/Direction (degrees)</b>	-	-	Lagoon	-	-	0.2	15.0	42.5/W	10	11	42.5	252.1	29.3/WSW	8	100.0
<b>Precipitation (mm)</b>	-	-	Lagoon	-	-	0.0	0.0	0.3 <sup>1</sup>	20	5	15.0	76.9	0.8 <sup>2</sup>	-	100.0

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

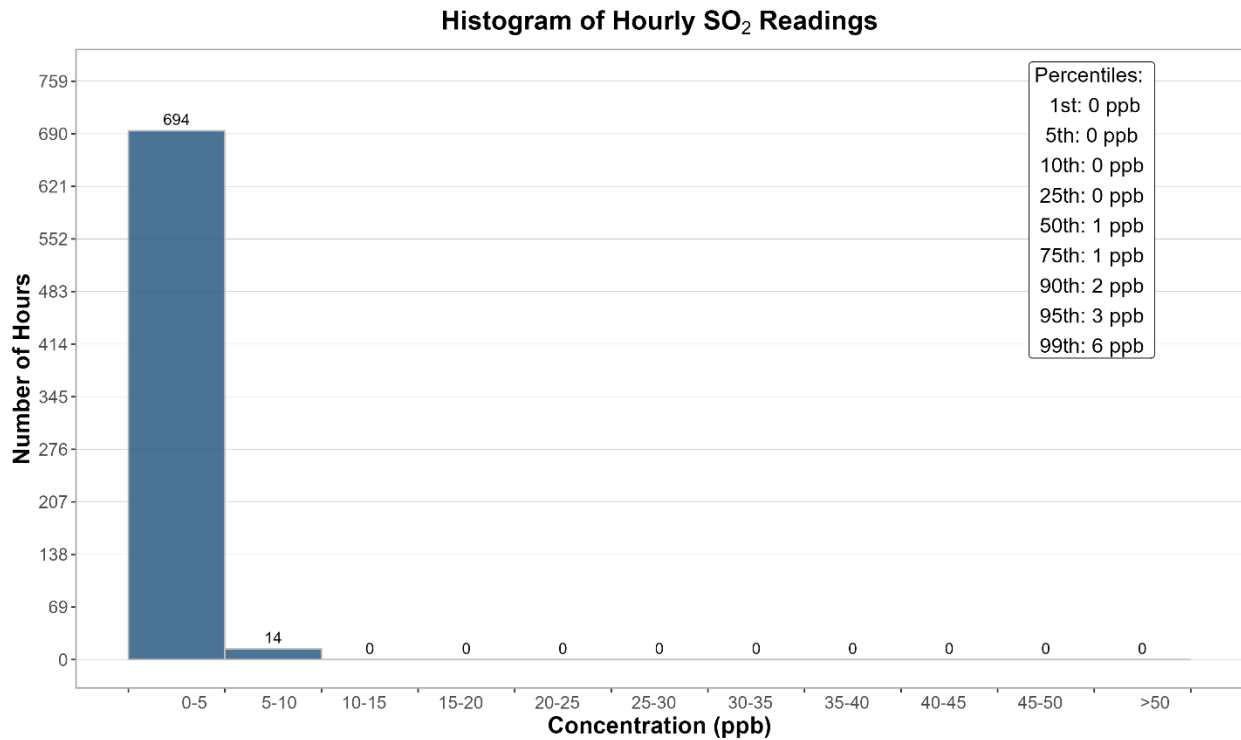
<sup>2</sup> Monthly Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months



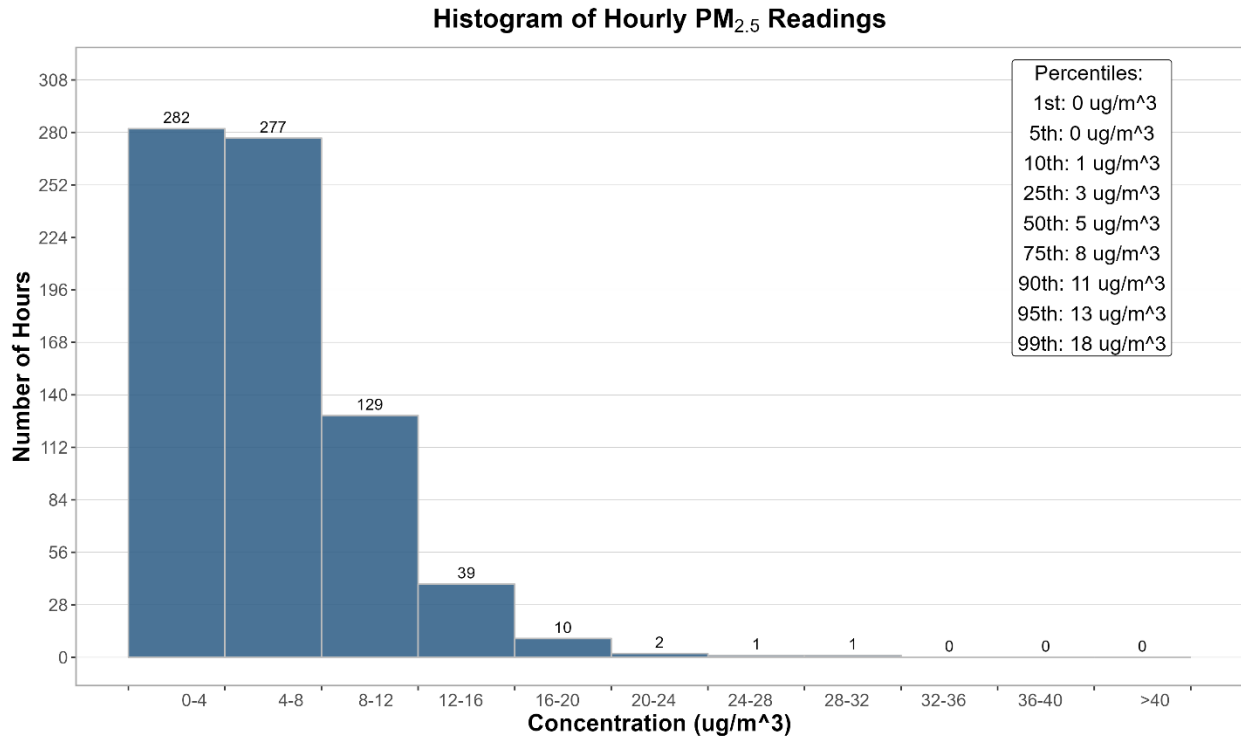
**Figure 3-2 1-hour concentrations of NO<sub>x</sub>, SO<sub>2</sub>, particulate matter, wind direction and wind speed at the Lagoon station**



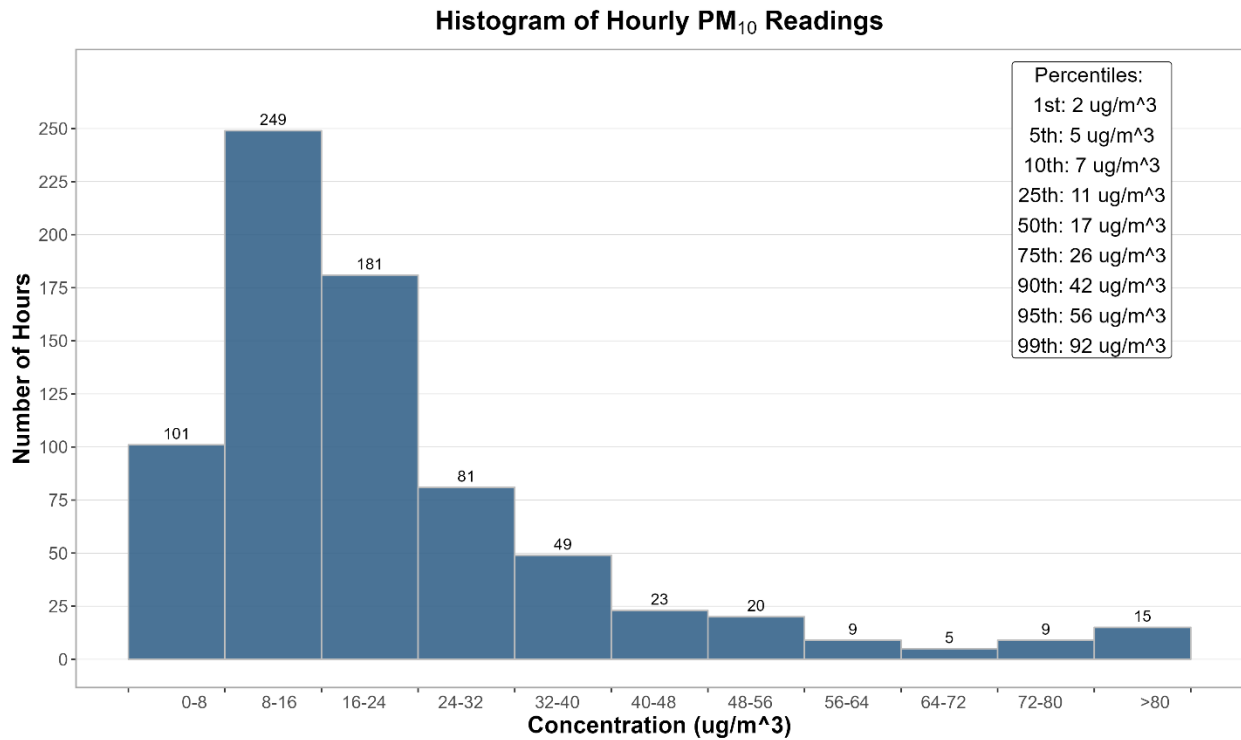
**Figure 3-3 Histogram of hourly NO<sub>2</sub> concentrations at the Lagoon station**



**Figure 3-4 Histogram of hourly SO<sub>2</sub> concentrations at the Lagoon station**

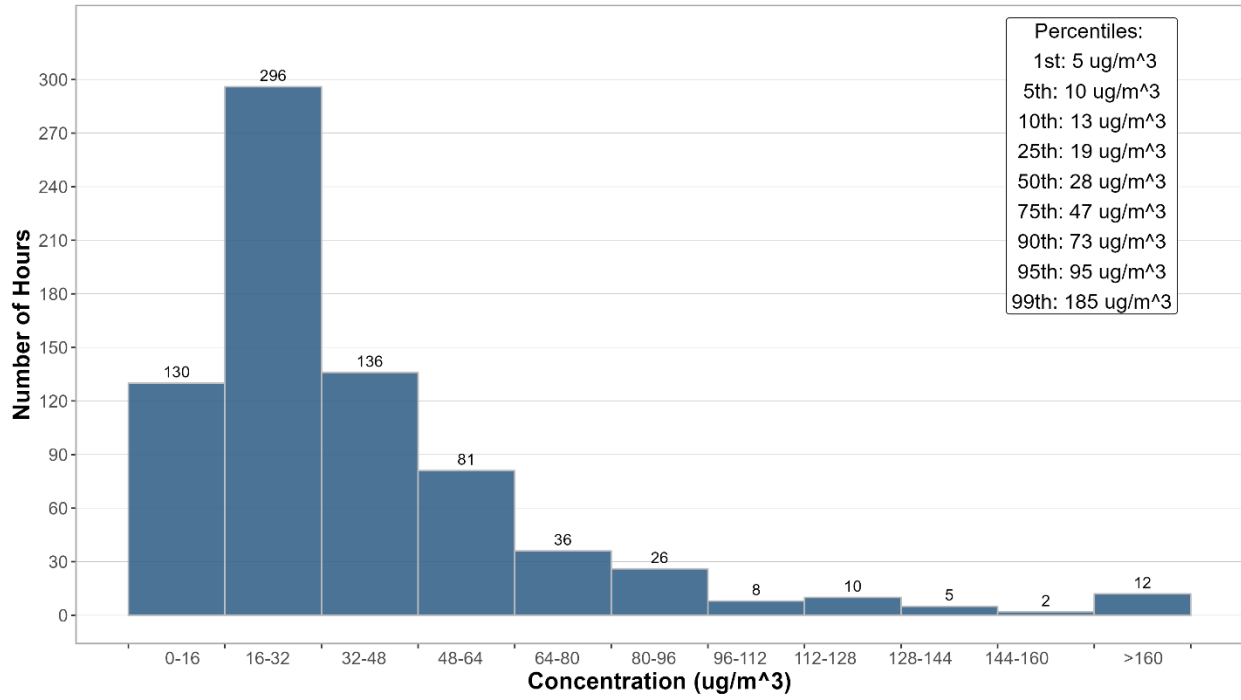


**Figure 3-5** Histogram of hourly PM<sub>2.5</sub> concentrations at the Lagoon station

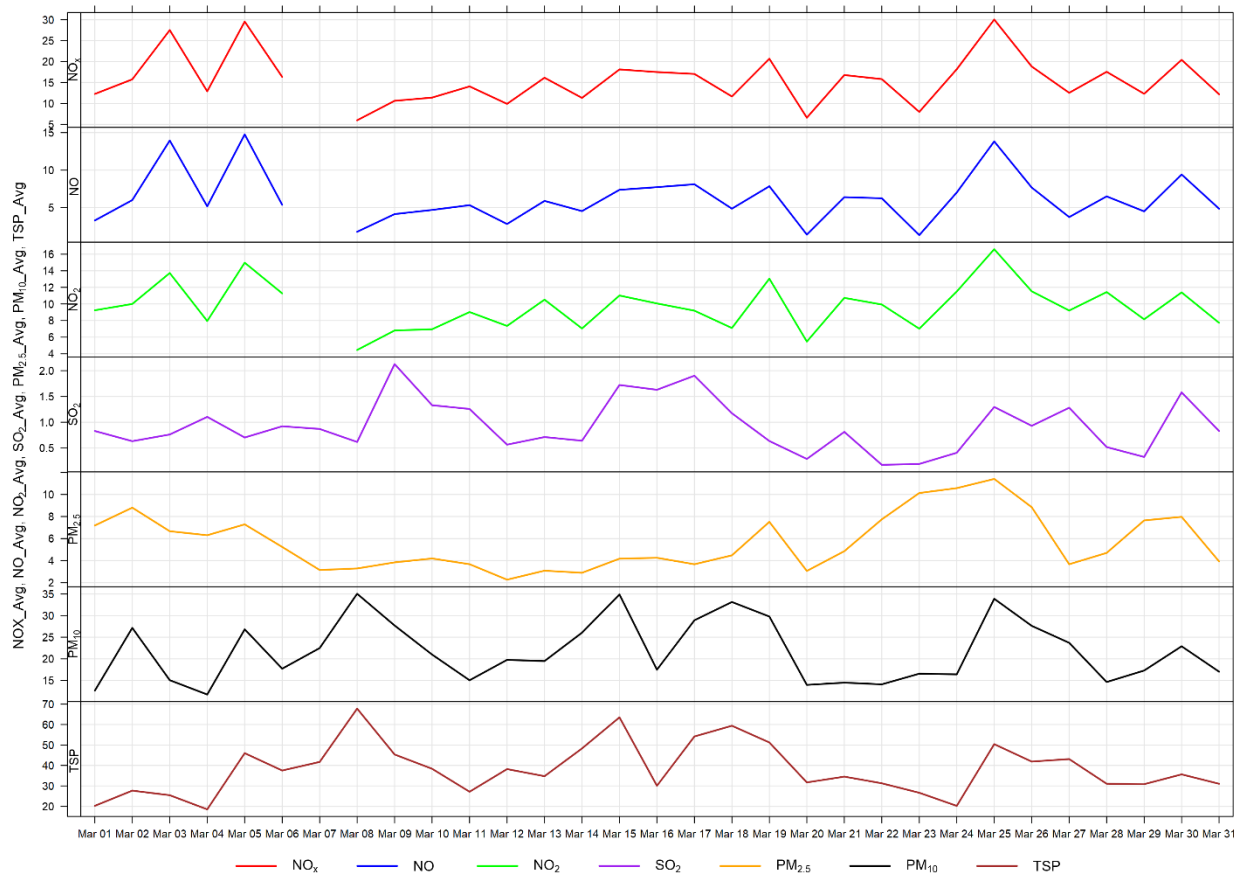


**Figure 3-6** Histogram of hourly PM<sub>10</sub> concentrations at the Lagoon station

### Histogram of Hourly TSP Readings



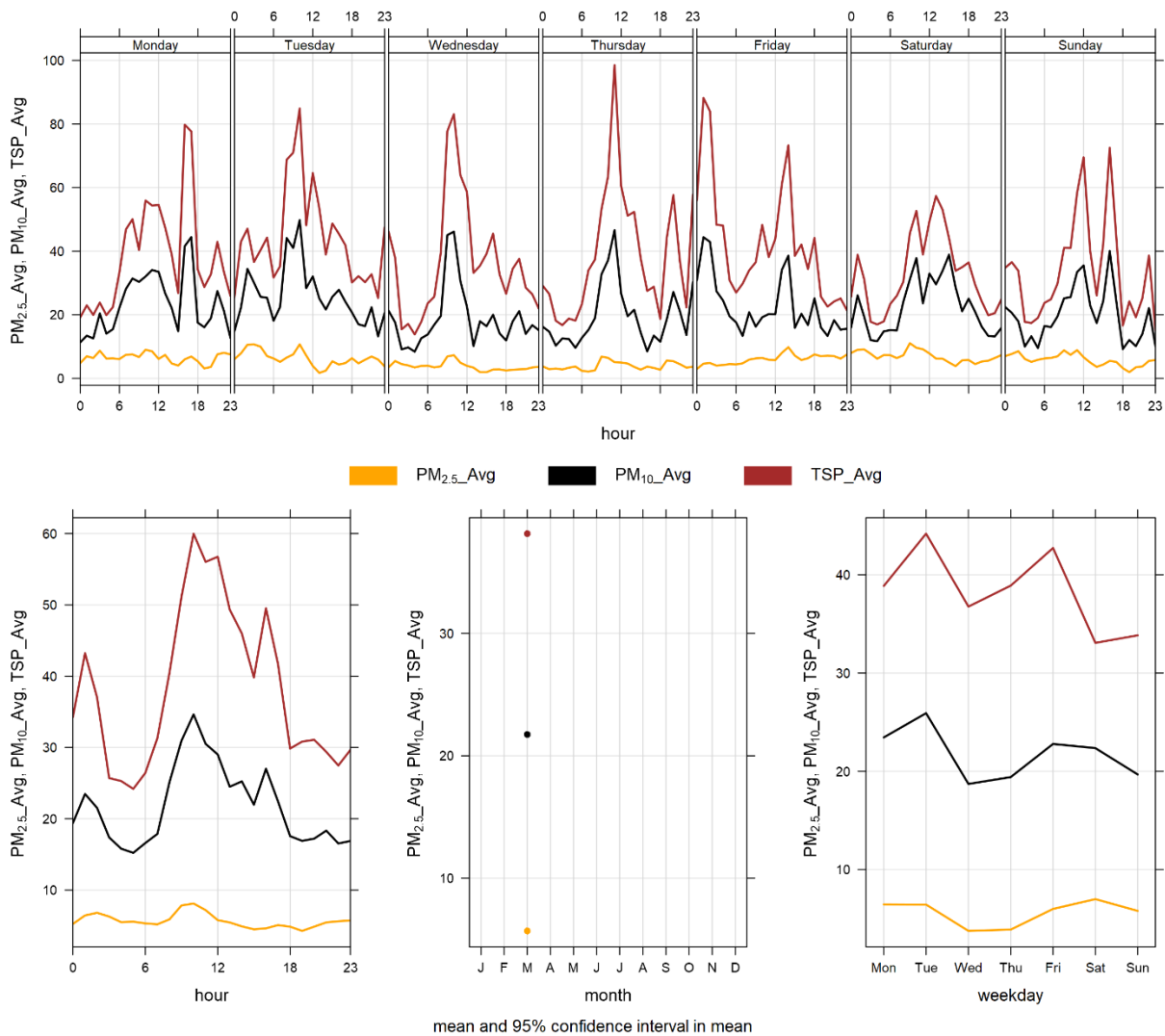
**Figure 3-7** Histogram of hourly TSP concentrations at the Lagoon station



**Figure 3-8 24-hour concentrations of NO<sub>x</sub>, SO<sub>2</sub>, and particulate matter at the Lagoon monitor**

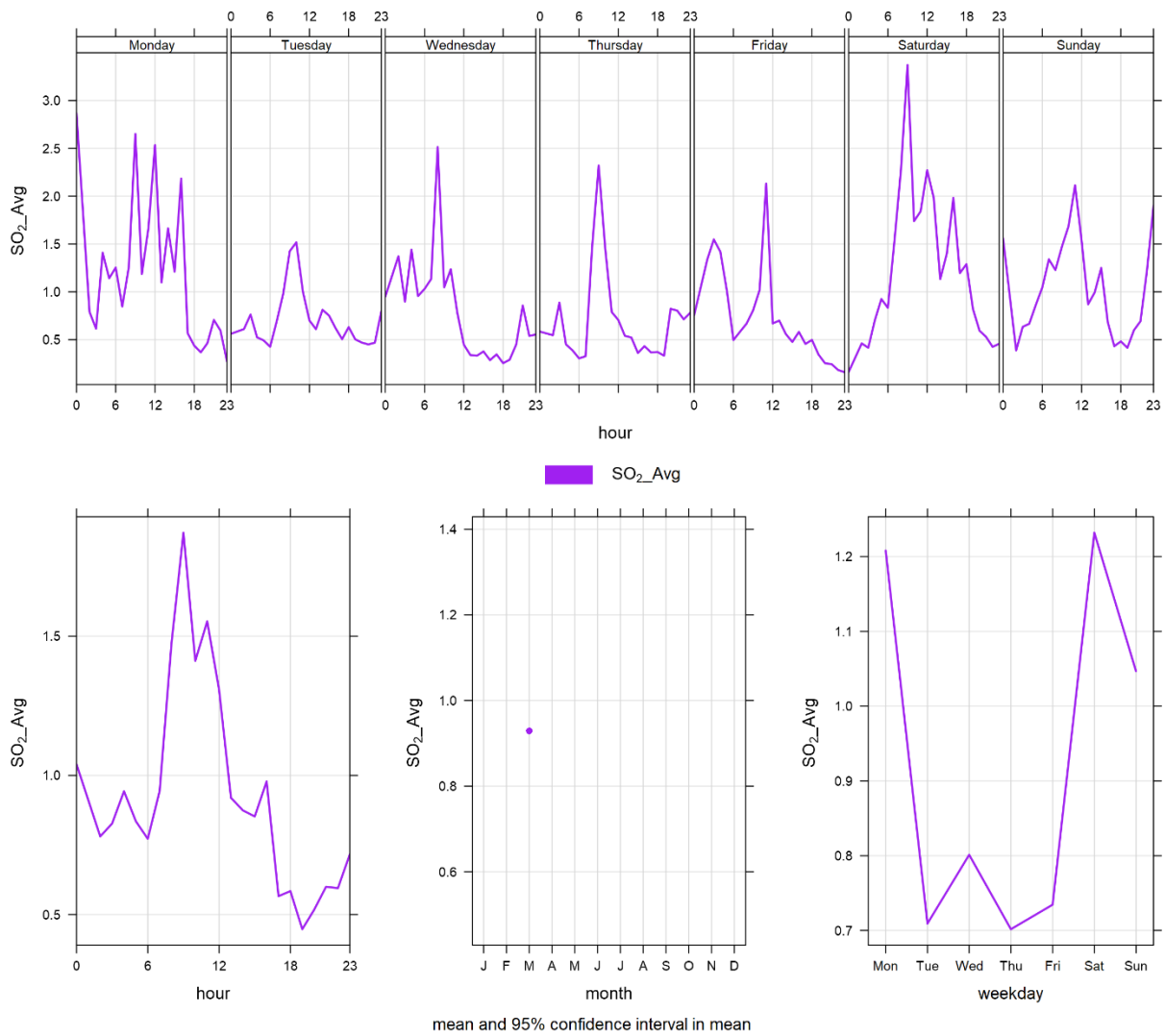
Figure 3-9 through Figure 3-11 show the variation in concentrations over various time averaging periods for PM, SO<sub>2</sub> and NO<sub>x</sub>. The particulate matter plot in Figure 3-9 typically shows that PM<sub>10</sub> and TSP concentrations have a diurnal pattern associated with Lafarge operations, 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 SO<sub>2</sub> over various time periods. SO<sub>2</sub> concentrations patterns are dependent on the timing of the highest SO<sub>2</sub> concentrations recorded in the month because in general SO<sub>2</sub> concentrations are very low. Figure 3-11 shows the variation of NO<sub>x</sub>, NO and NO<sub>2</sub>, with the peak of all three pollutants occurring in the early morning. This may be indicative of a peak in traffic.

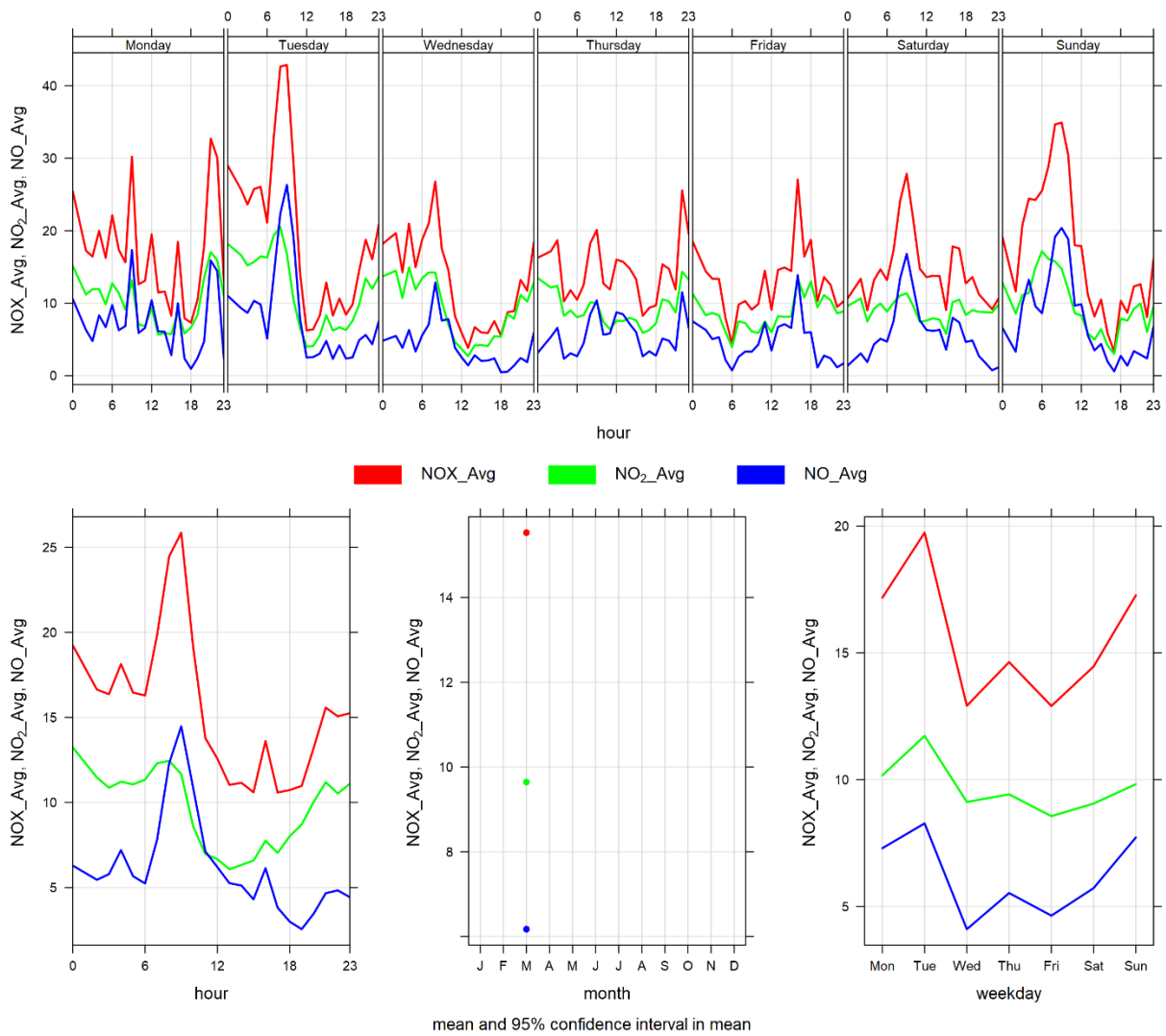


**Figure 3-9 Lagoon monitor particulate matter time variation**





**Figure 3-10 Lagoon monitor SO<sub>2</sub> time variation**



**Figure 3-11 Lagoon monitor NO<sub>x</sub> time variation**

# 4 WINDRIDGE STATION

The Windridge station contains TSP, PM<sub>10</sub>, and PM<sub>2.5</sub> 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 2024.

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
<b>PM<sub>2.5</sub> Concentrations</b>	MetOne BAM-1020 FRM Continuous Particulate Monitor	The PM <sub>2.5</sub> monitor was calibrated on March 19 <sup>th</sup> . The monitor had 99.9% uptime for the month of March due to one hour of equipment malfunction occurring on March 20 <sup>th</sup> at 1:00.
<b>PM<sub>10</sub> Concentrations</b>	MetOne BAM-1020 Continuous Particulate Monitor	The PM <sub>2.5</sub> monitor was calibrated on March 19 <sup>th</sup> . The monitor had 99.9% uptime for the month of March due to one hour of equipment malfunction occurring on March 20 <sup>th</sup> at 1:00.
<b>TSP Concentrations</b>	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on March 19 <sup>th</sup> . The monitor had 99.9% uptime for the month of March due to one hour of equipment malfunction occurring on March 20 <sup>th</sup> at 1:00.

## 4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in March 2024, and Table 4-3 the 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 exceedances of the 24-hour PM<sub>2.5</sub> AAAQO. There were no exceedances of the 1-hour PM<sub>2.5</sub> AAAQG, and four exceedances of the 24-hour TSP AAAQO.

Historically in March, the average number of 24-hour TSP AAAQO exceedances and 24-hour PM<sub>2.5</sub> AAAQO exceedances is six and zero, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in March were 10 days in 2022. The maximum number of 24-hour PM<sub>2.5</sub> AAAQO exceedances recorded in March was one day in 2018.

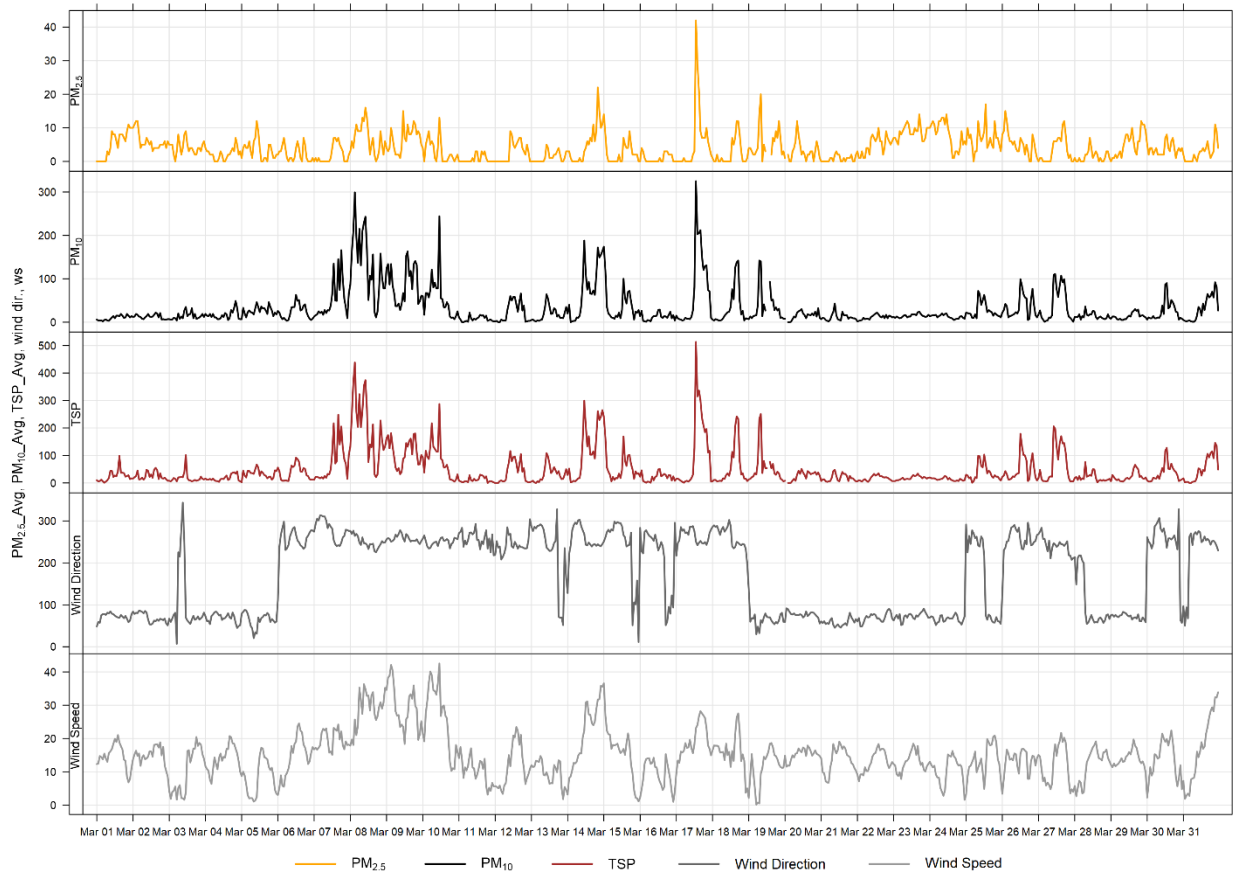
Due to flood mitigation construction at Exshaw creek the Windridge monitoring station was taken out of operation and removed from the site on April 8<sup>th</sup>, 2019. The flood mitigation work was completed in August 2020. The Windridge station was reinstalled for September 1<sup>st</sup>, 2020. As 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 March 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 2024 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
<b>PM<sub>2.5</sub></b> (µg/m <sup>3</sup> )	80	29	Windridge	0	0	0.0	4.0	42.0	17	13	23.2	250.5	8.9	23	99.9
<b>PM<sub>10</sub></b> (µg/m <sup>3</sup> )	-	-	Windridge	-	-	0.0	32.7	325.0	17	13	23.2	250.5	136.9	8	99.9
<b>TSP</b> (µg/m <sup>3</sup> )	-	100	Windridge	-	4	0.0	49.0	513.0	17	13	23.2	250.5	202.0	8	99.9

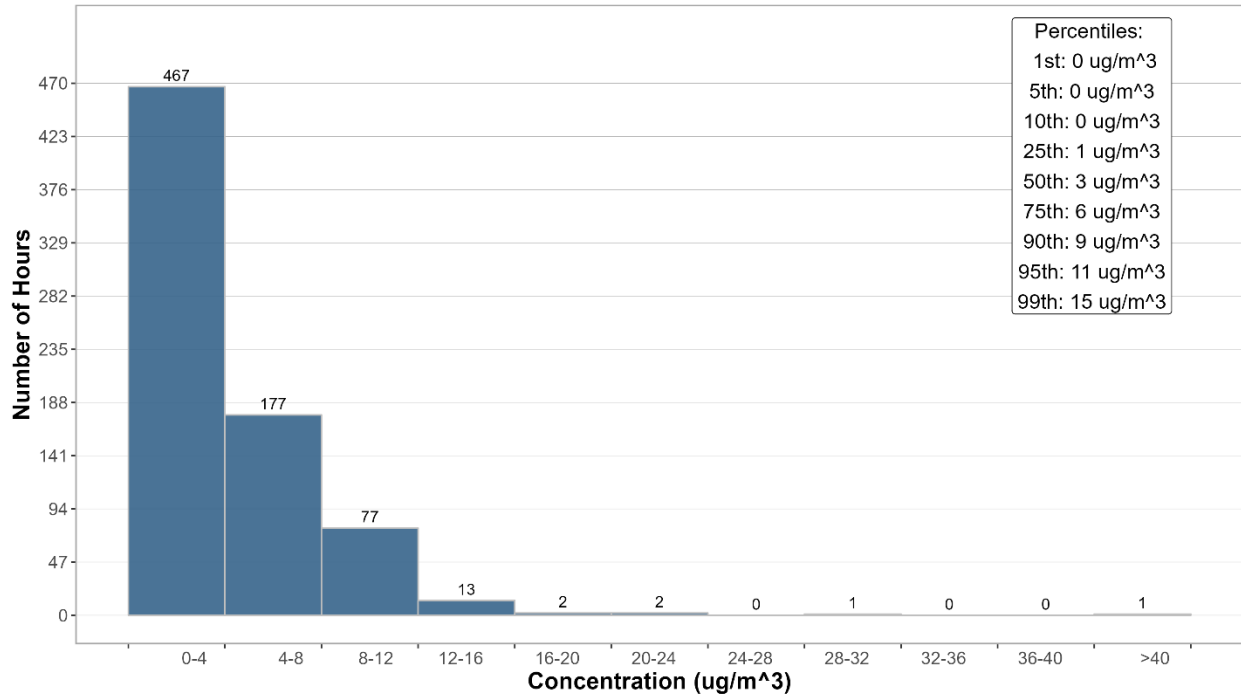
**Table 4-3 Days exceeding the TSP AAAQO or PM<sub>2.5</sub> AAAQO at the Windridge Station**

Date	TSP (ug/m <sup>3</sup> )	PM <sub>2.5</sub> (ug/m <sup>3</sup> )	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
<b>Windridge</b>						
<b>2024-03-08</b>	202.0	-	247.7	29.3	49.8	high wind event
<b>2024-03-09</b>	108.8	-	257.7	29.1	41.7	high wind event
<b>2024-03-14</b>	123.3	-	253.7	22.7	46.0	high wind event
<b>2024-03-17</b>	115.7	-	262.4	19.6	41.9	
<b>Total # of Exceedances</b>	<b>4</b>	<b>0</b>				
<b>Maximum # of Exceedances (March)</b>	<b>10 (2022)</b>	<b>1 (2018)</b>				
<b>Average # of Exceedances (March)</b>	<b>6</b>	<b>0</b>				
<b>Minimum # of Exceedances (March)</b>	<b>2 (2018)</b>	<b>0 (2019, 2021, 2022, 2023)</b>				



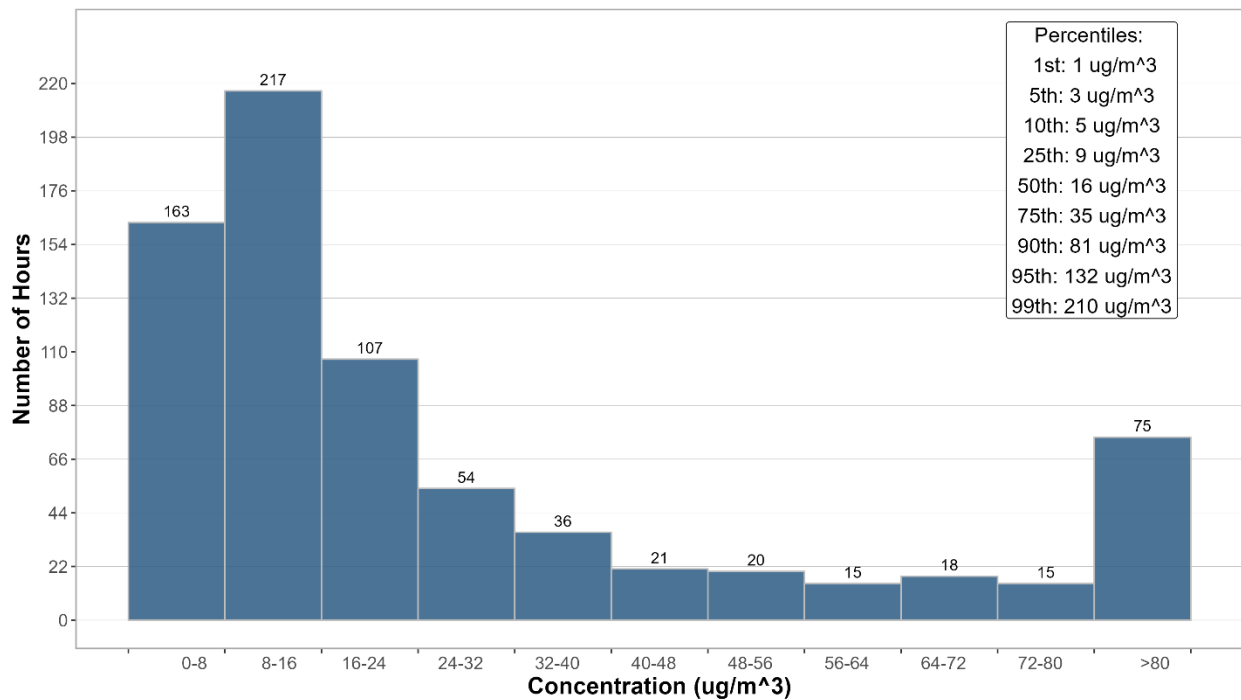
**Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor**

**Histogram of Hourly PM<sub>2.5</sub> Readings**



**Figure 4-2 Histogram of hourly PM<sub>2.5</sub> concentrations at the Windridge station**

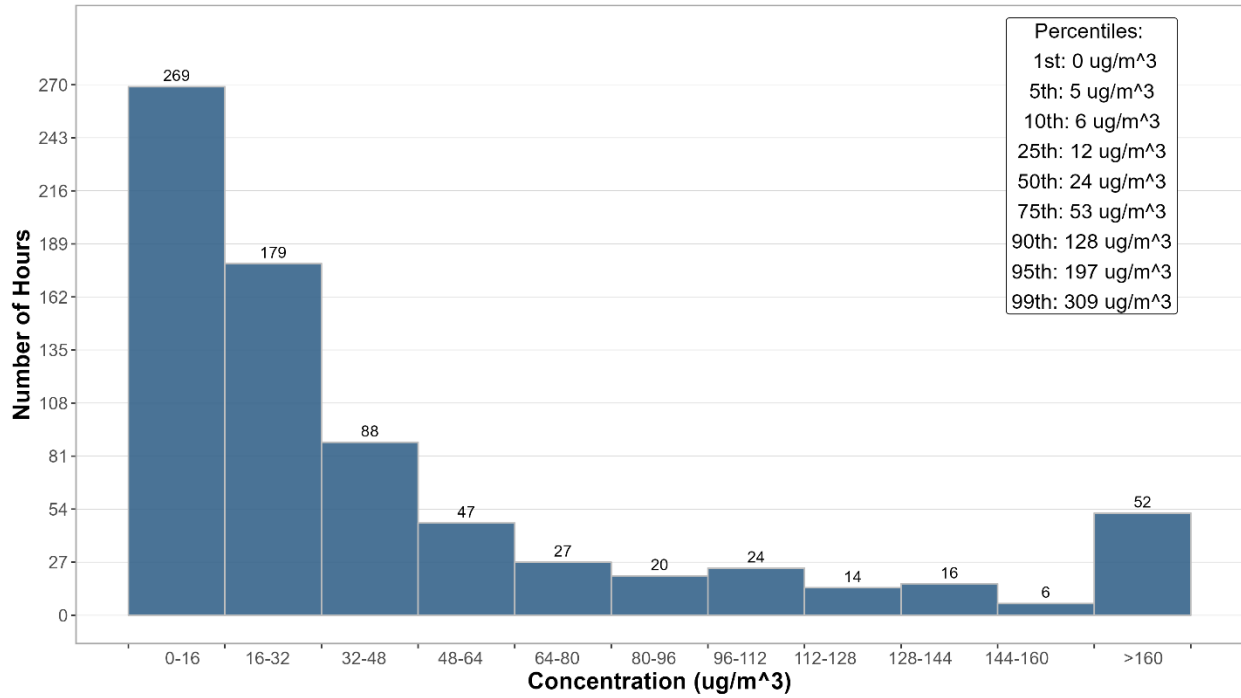
**Histogram of Hourly PM<sub>10</sub> Readings**



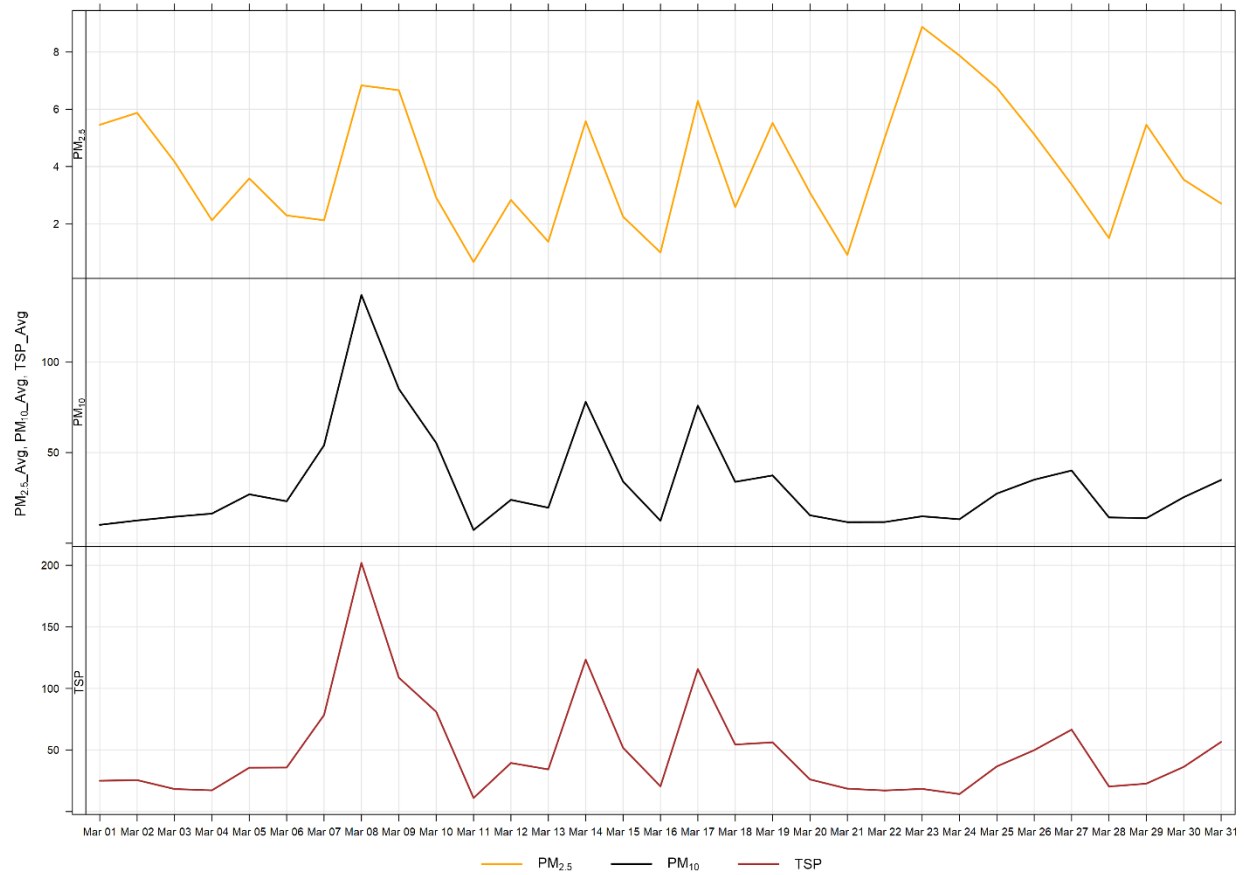
**Figure 4-3 Histogram of hourly PM<sub>10</sub> concentrations at the Windridge station**



**Histogram of Hourly TSP Readings**



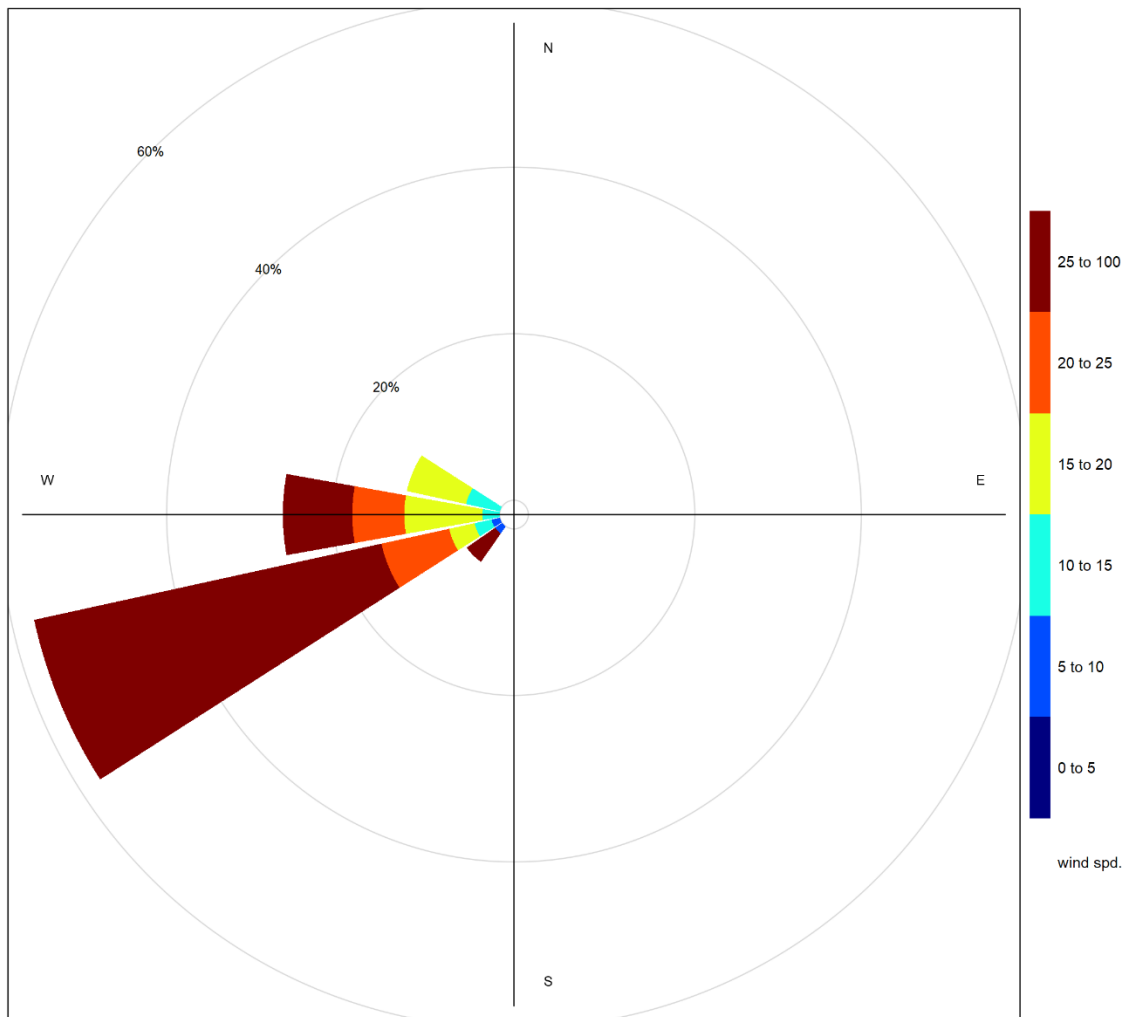
**Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station**



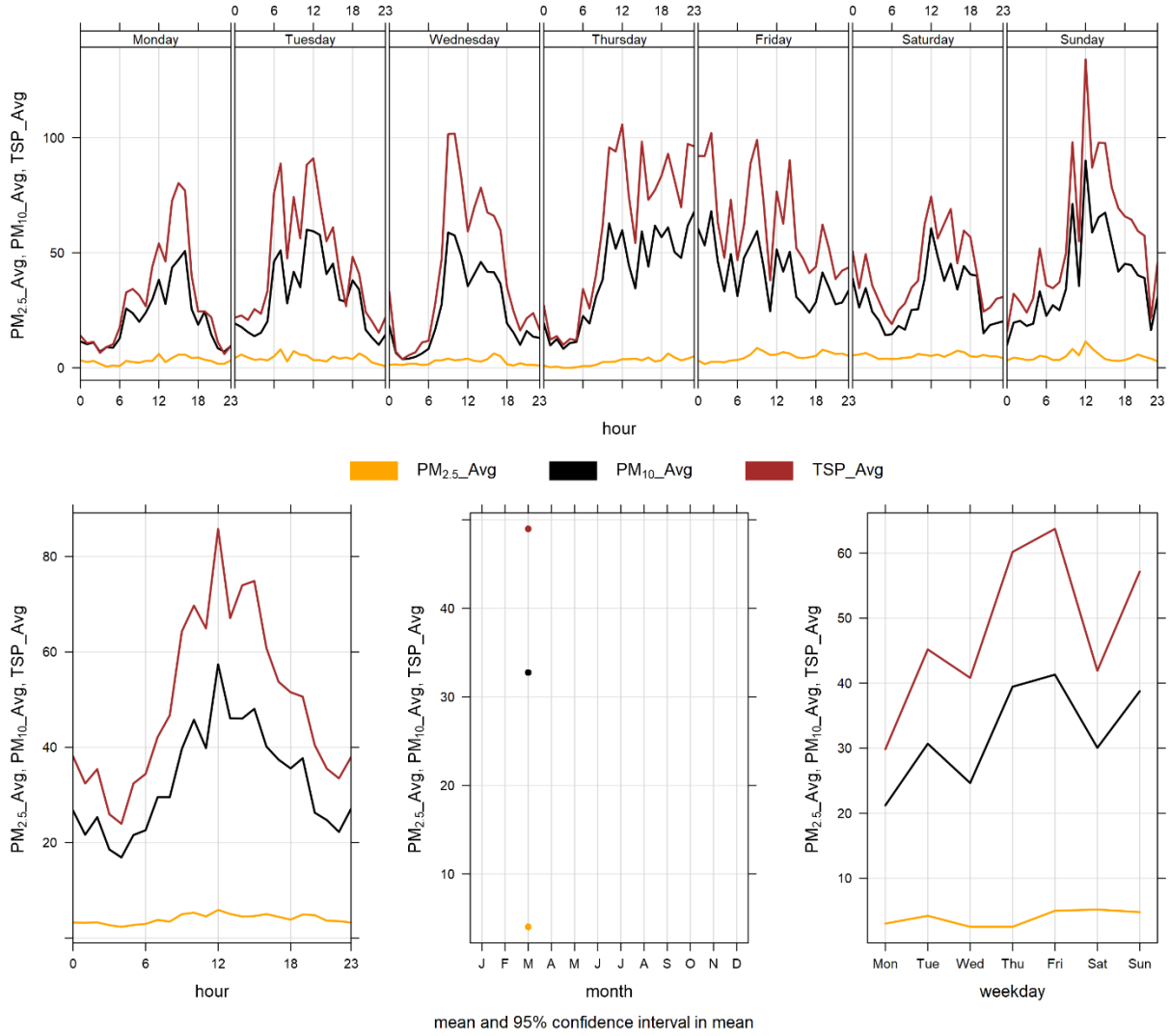
**Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor**

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

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 2024. 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 WEST INDUSTRIAL GRIMM

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## 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 <sub>2.5</sub> , PM <sub>10</sub> , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime for the month of March.

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## 5.2 MONITORING RESULTS AND TRENDS

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

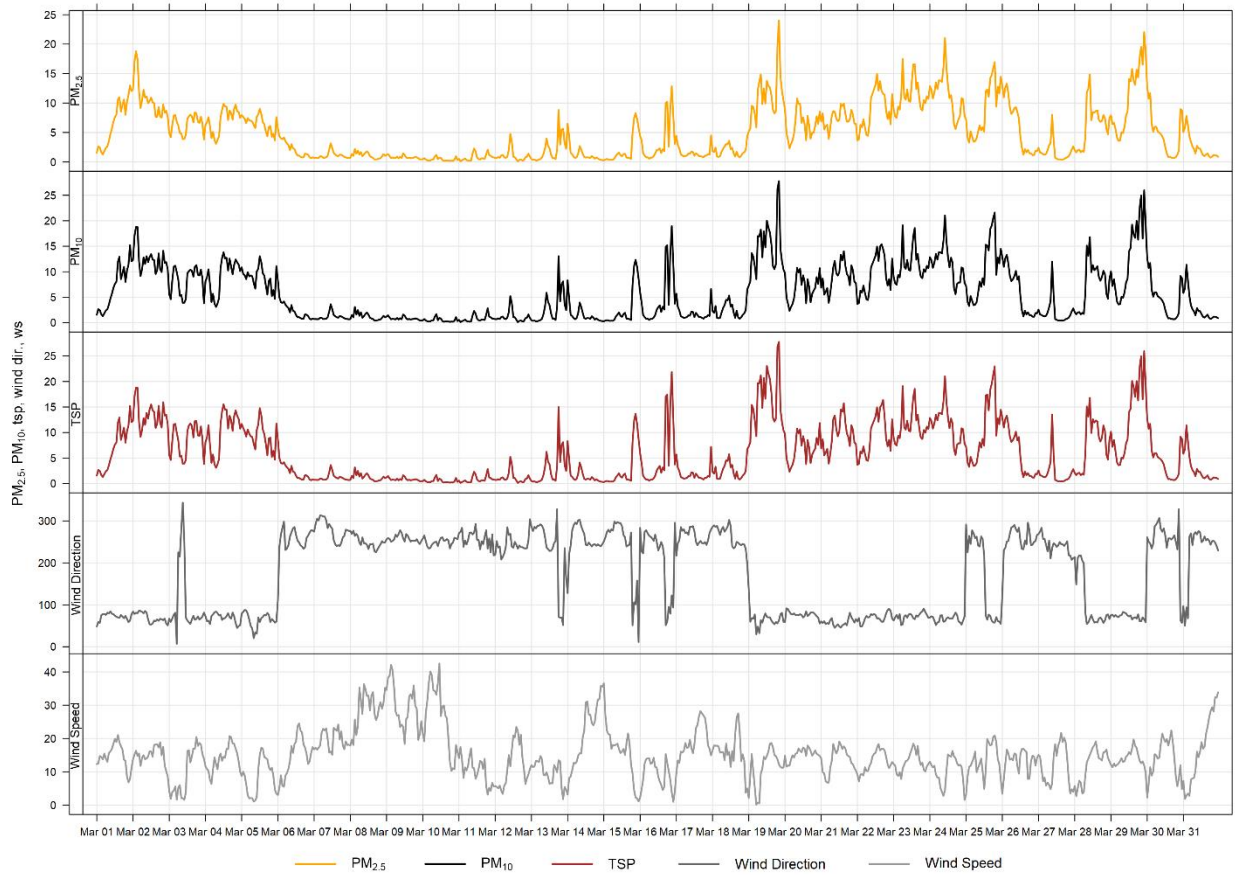
Figure 5-1 and Figure 5-2 show the hourly and daily PM<sub>2.5</sub>, PM<sub>10</sub> and TSP concentrations recorded over the month.

There were zero exceedances of the 24-hour TSP Guideline (100 µg/m<sup>3</sup>) and zero exceedances of the 24-hour PM<sub>2.5</sub> (29µg/m<sup>3</sup>) Guideline. Further, there were zero hours exceeding the 1-hour PM<sub>2.5</sub> Guideline.

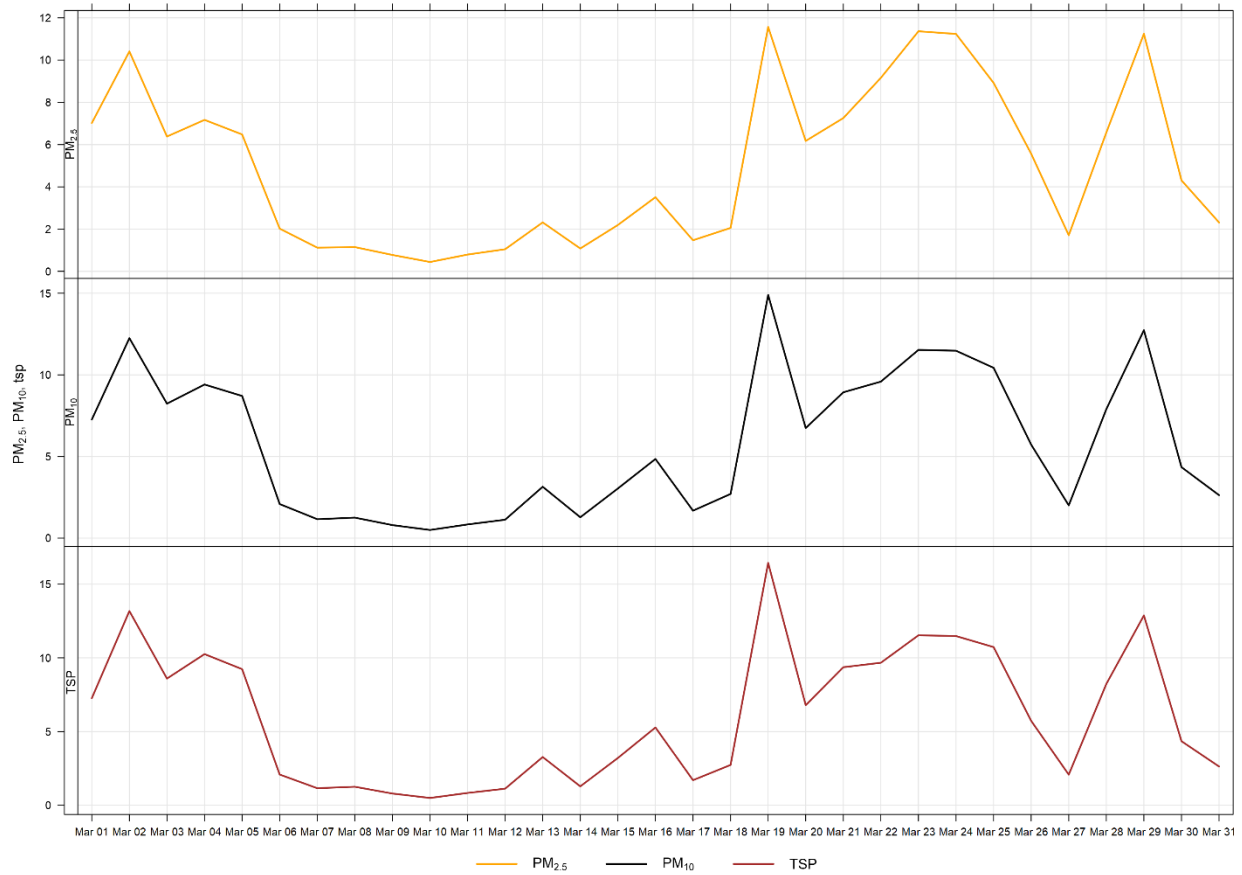
Historically during the month of March, the West monitor records an average of two and zero exceedances of the 24-hour TSP and PM<sub>2.5</sub> guidelines. The maximum number of 24-hour TSP Guideline exceedances recorded in March were 10 days in 2014. The maximum number of 24-hour PM<sub>2.5</sub> Guideline exceedance recorded in March was one day in 2013 and 2018.

**Table 5-2 Summary of March 2024 data at the West GRIMM**

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration		Day
<b>PM<sub>2.5</sub></b> ( $\mu\text{g}/\text{m}^3$ )	80	29	West	0	0	0.1	5.0	24.0	19	20	12.3	62.8	11.6	19	100.0
<b>PM<sub>10</sub></b> ( $\mu\text{g}/\text{m}^3$ )	-	-	West	-	-	0.1	5.8	27.8	19	20	12.3	62.8	14.9	19	100.0
<b>TSP</b> ( $\mu\text{g}/\text{m}^3$ )	-	100	West	-	0	0.1	6.0	27.8	19	20	12.3	62.8	16.4	19	100.0



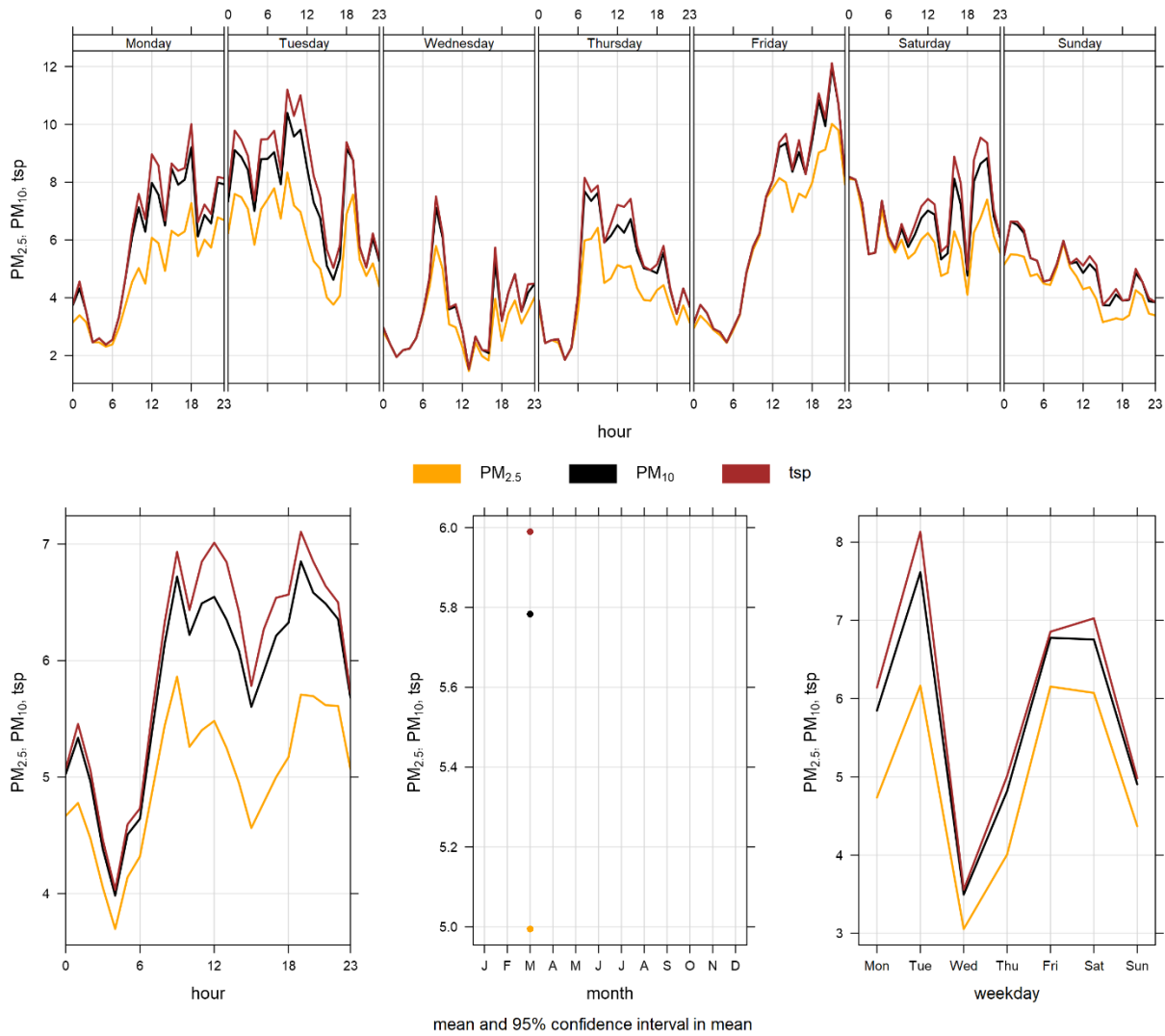
**Figure 5-1 1-hour particulate matter concentrations at the West monitor**



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



Figure 5-3 illustrates the hourly PM concentrations recorded at the West monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 5-3 is based on data collected during March 2024. The West monitor was moved to its current location (Figure 1-1) on December 1<sup>st</sup>, 2021, and will continue to be evaluated to better understand influences from background sources, Lafarge Exshaw, as well as highway and rail sources.



**Figure 5-3 West monitor particulate matter time variation**

# 6 ENTRANCE INDUSTRIAL GRIMM

## 6.1 OPERATIONAL SUMMARY

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

**Table 6-1 Instrumentation List at the Entrance monitoring location**

Parameter Measured	Equipment Description	Notes
PM <sub>2.5</sub> , PM <sub>10</sub> , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 83.6% uptime for the month of March due to 122 hours of equipment malfunction occurring on March 3rd at 13:00 – March 4th at 3:00; March 4th at 17:00; March 7th at 6:00 and 9:00; March 17th at 14:00; March 20th at 1:00 and 2:00; March 20th at 11:00 – March 24th at 4:00; and March 28th at 16:00 – March 29th at 1:00.

## 6.2 MONITORING RESULTS AND TRENDS

The Entrance monitor was placed at its current location as a result of the dispersion modelling conducted for the facility. Figure 7-1 and Figure 7-2 show the hourly and daily PM<sub>2.5</sub>, PM<sub>10</sub>, and TSP concentrations recorded over the month. Table 6-2 summarizes the maximum 1-hour and 24-hour PM concentrations recorded during the month. Table 6-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

During the month of March, there were 16 and 4 exceedances of the 24-hour TSP (100 µg/m<sup>3</sup>) and PM<sub>2.5</sub> (29 µg/m<sup>3</sup>) Guidelines, respectively. There were 7 hours exceeding the 1-hour PM<sub>2.5</sub> Guideline.

Historically, the Entrance monitor records an average of 12 and 0 exceedances of the 24-hour TSP and PM<sub>2.5</sub> guidelines respectively, during the month of March. The maximum number of TSP exceedances recorded during March occurred in 2014, which had 28 days that exceeded the guideline. The maximum number of PM<sub>2.5</sub> exceedances recorded during March is 1 day in 2018. When comparing historically, however, it is important to note the low data completeness (83.6%) recorded this month.

The Entrance monitor is impacted by fugitive dust from plant activities, and high wind events. Trucks also pass near to the Entrance monitor as they enter and exit the Lafarge facility for loading and deliveries. Additionally, the monitor is closely located to Highway 1A. Traffic, particularly large trucks, can create dust while crossing over the railway tracks. This can all lead to the monitor recording high TSP concentrations, which are typically associated with fugitive dust sources.

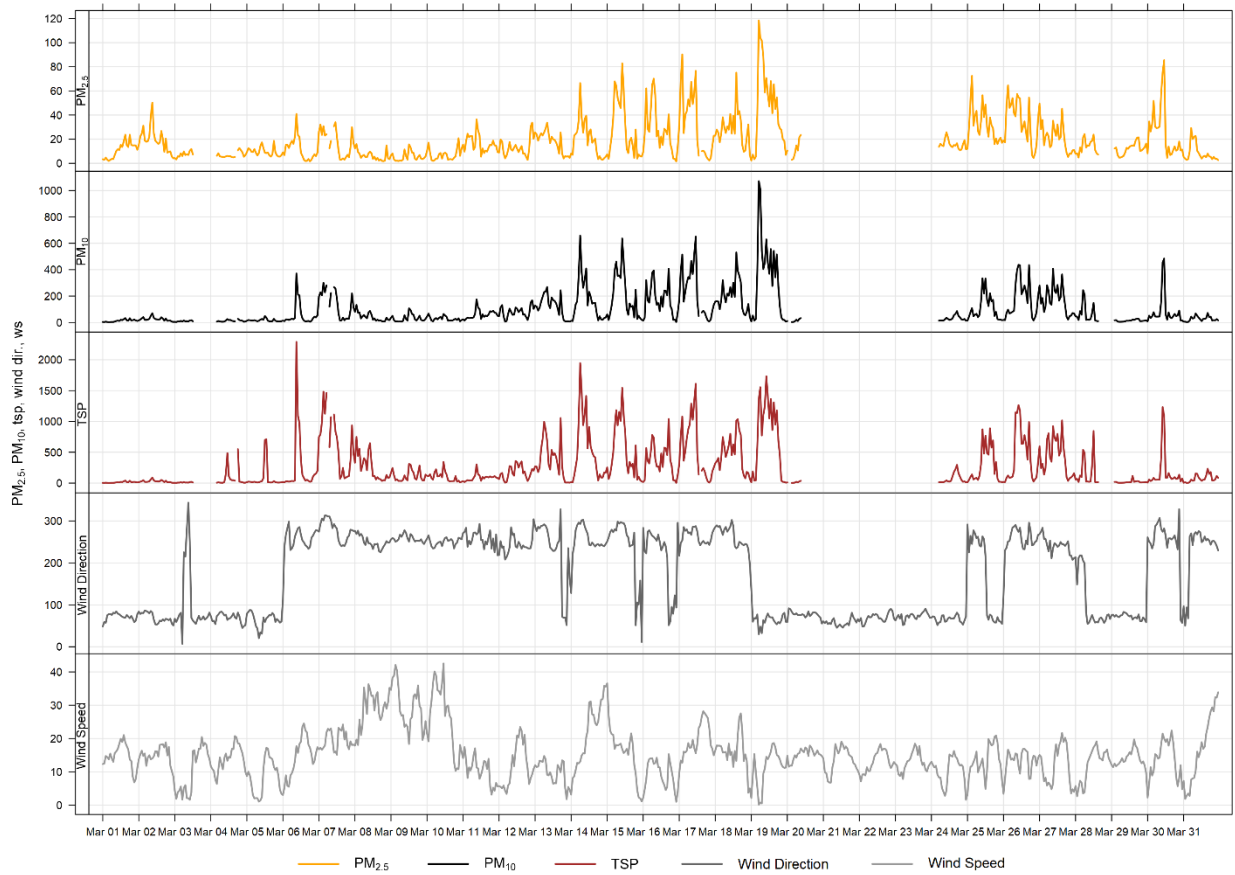
**Table 6-2 Summary of March 2024 data at the Entrance GRIMM**

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
<b>PM<sub>2.5</sub></b> (µg/m <sup>3</sup> )	80	29	Entrance	7	4	1.6	18.7	118.5	19	5	0.2	29.9	46.8	19	83.6
<b>PM<sub>10</sub></b> (µg/m <sup>3</sup> )	-	-	Entrance	-	-	1.9	99.1	1071.4	19	5	0.2	29.9	339.4	19	83.6
<b>TSP</b> (µg/m <sup>3</sup> )	-	100	Entrance	-	16	1.9	266.8	2289.0	6	9	17.7	273.0	750.1	19	83.6

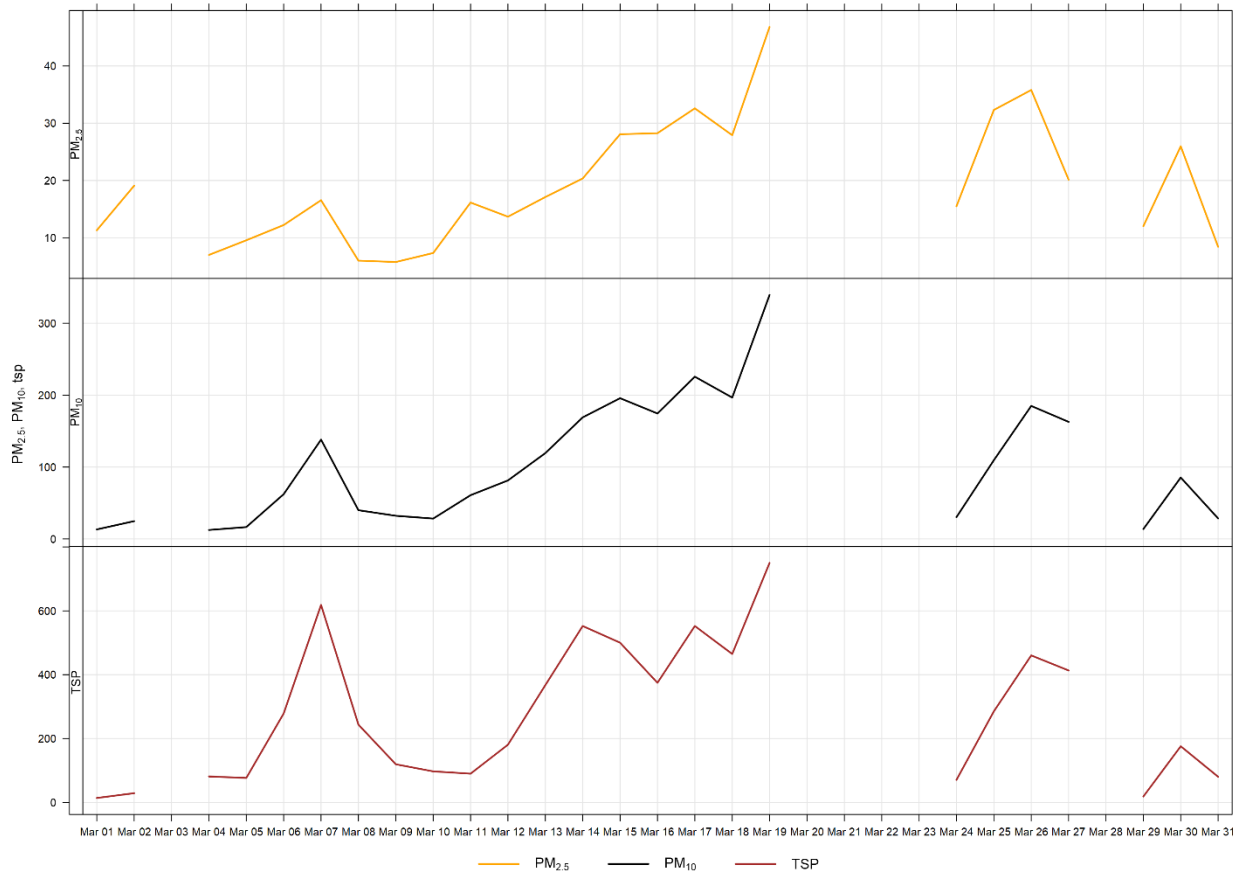
**Table 6-3 Days exceeding the Guideline for TSP or PM<sub>2.5</sub> at the Entrance Monitor**

Date	TSP (ug/m <sup>3</sup> )	PM <sub>2.5</sub> (ug/m <sup>3</sup> )	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
<b>Entrance</b>						
2024-03-06	278.6	-	259.2	14.9	64.0	
2024-03-07	618.4	-	278.2	19.5	54.7	
2024-03-08	243.6	-	247.7	29.3	49.8	high wind event
2024-03-09	119.4	-	257.7	29.1	41.7	high wind event
2024-03-12	180.9	-	247.0	12.0	54.3	
2024-03-13	367.3	-	272.3	9.5	64.0	
2024-03-14	552.4	-	253.7	22.7	46.0	high wind event
2024-03-15	500.2	-	274.3	14.8	51.0	
2024-03-16	374.6	-	255.2	9.4	55.4	
2024-03-17	552.5	32.6	262.4	19.6	41.9	
2024-03-18	464.9	-	263.7	15.5	39.7	
2024-03-19	750.1	46.8	65.3	11.7	64.8	Wind predominately from the east-northeast
2024-03-25	285.3	32.3	43.4	13.3	67.7	Wind predominately from the east-northeast
2024-03-26	460.3	35.8	259.1	13.6	53.5	

<b>2024-03-27</b>	413.2	-	244.4	11.5	48.5	
<b>2024-03-30</b>	175.9	-	269.1	13.9	61.1	
<b>Total # of Exceedances</b>	<b>16</b>	<b>4</b>				
<b>Maximum # of Exceedances (March)</b>	<b>28 (2014)</b>	<b>1 (2018)</b>				
<b>Average # of Exceedances (March)</b>	<b>12</b>	<b>0</b>				
<b>Minimum # of Exceedances (March)</b>	<b>0 (2011)</b>	<b>0 (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021, 2022, 2023)</b>				



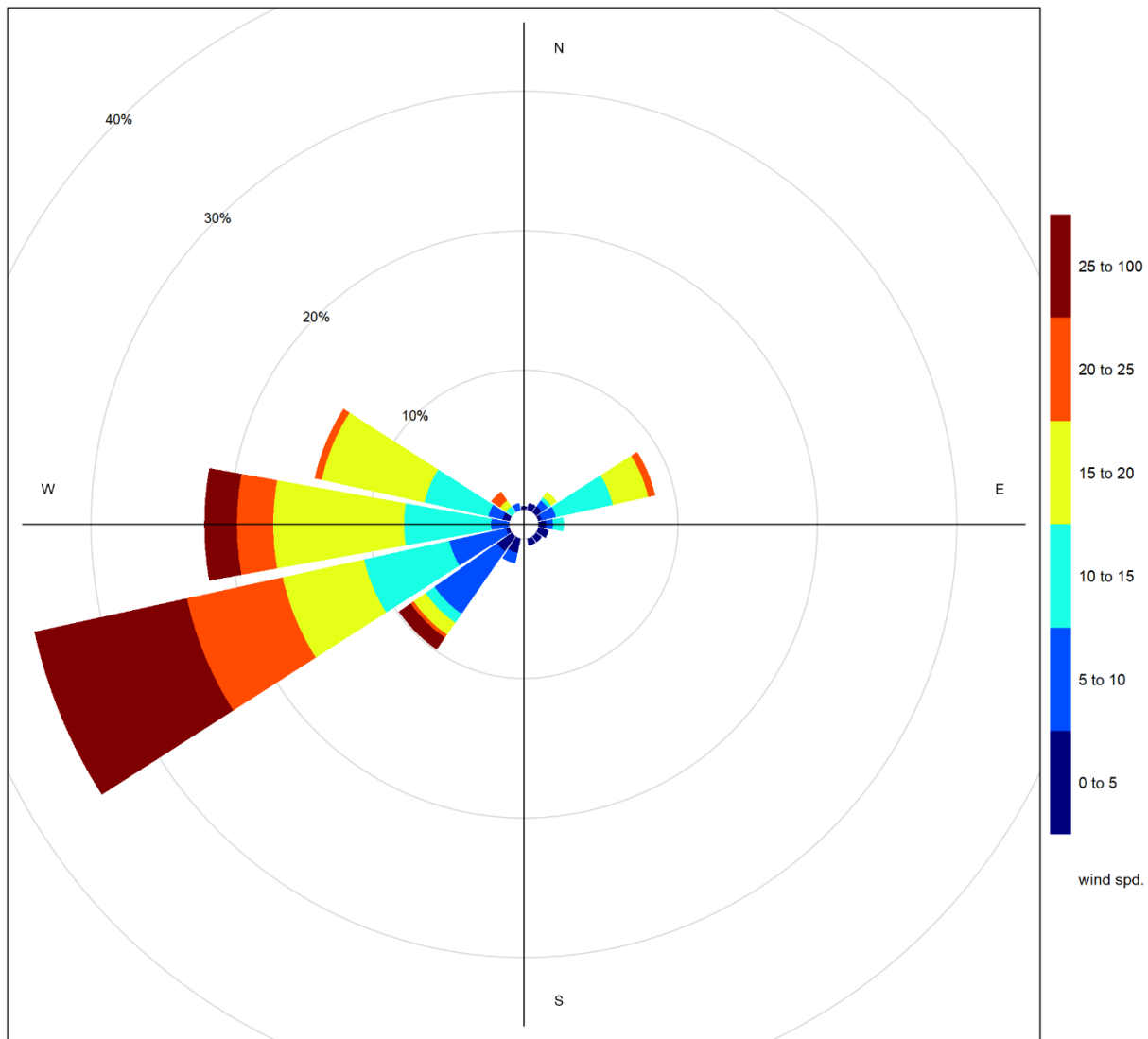
**Figure 6-1 1-hour particulate matter concentrations recorded at the Entrance monitor**



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

Figure 6-3 shows the wind rose for the 16 days of TSP exceedances. The wind rose shows that the wind predominately came from the west-southwest and west direction. This month many of the TSP exceedances were driven by windblown fugitive dust, and winds from the west which suggest impacts from the Lafarge Facility. Figure 6-4 shows the wind rose for the 4 days of PM<sub>2.5</sub> exceedances. The wind rose shows that wind predominately came from west-southwest and east-northeast, suggesting impacts not only from the Facility but also from other sources.

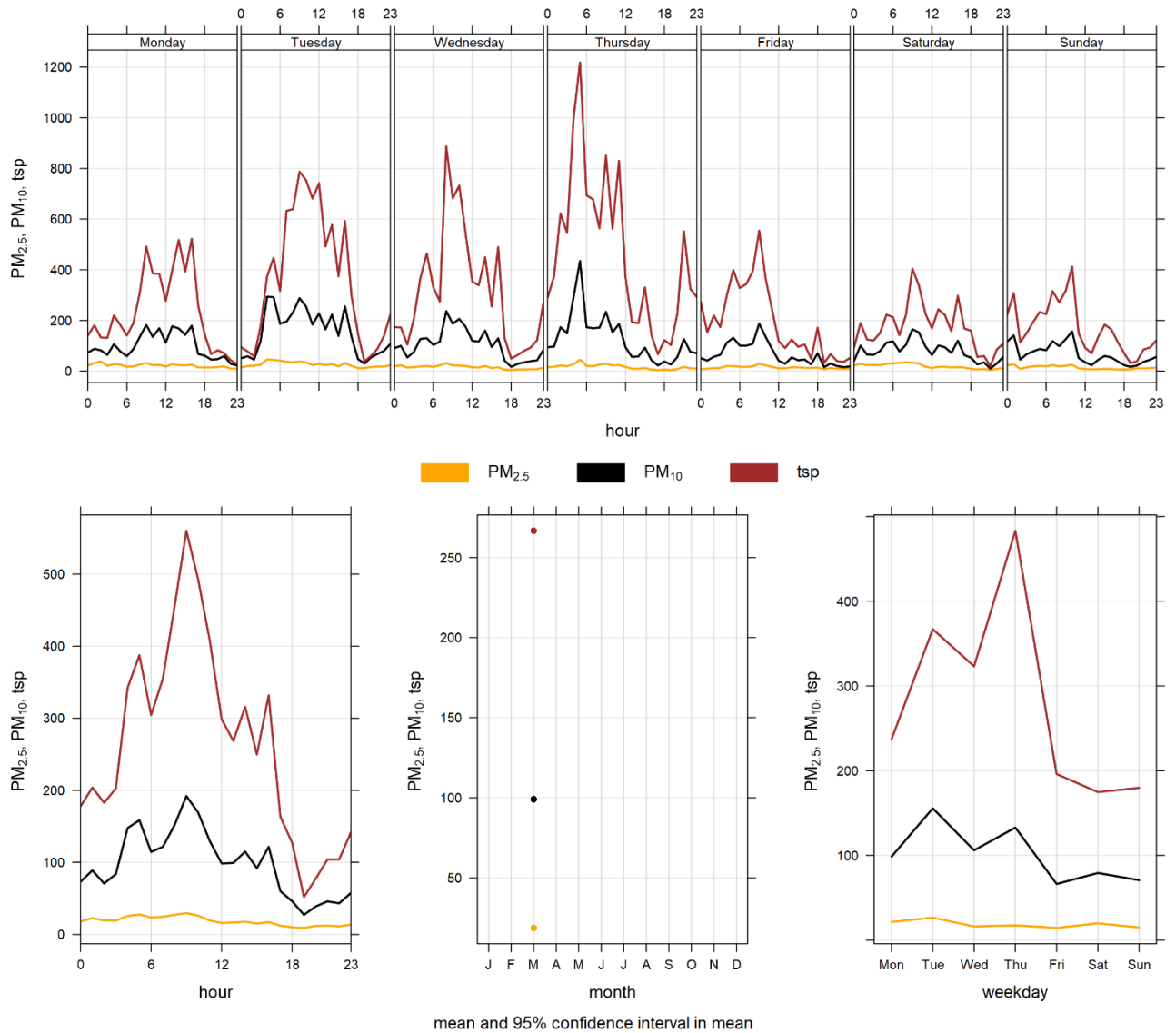
Figure 6-5 illustrates the hourly PM concentrations recorded at the Entrance monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month, and weekday, respectively. Figure 6-5 is based on data collected during March 2024. The diurnal pattern differs from the Windridge, Lagoon and Berm stations and are likely more influenced by daytime traffic emission (from vehicles serving Lafarge as well as regular highway traffic) given its location near the highway entrance to Lafarge.



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







**Figure 6-5** Entrance particulate mater time variation

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- Carslaw, D.C. and K. Ropkins, (2012). Openair — an R package for air quality data analysis. Environmental Modelling & Software. Volume 27–28, 52–61.
- Levelton Consultants Ltd. (2015, June 15). Comparison of GRIMM and E-BAM Data. Alberta, Can

# APPENDIX

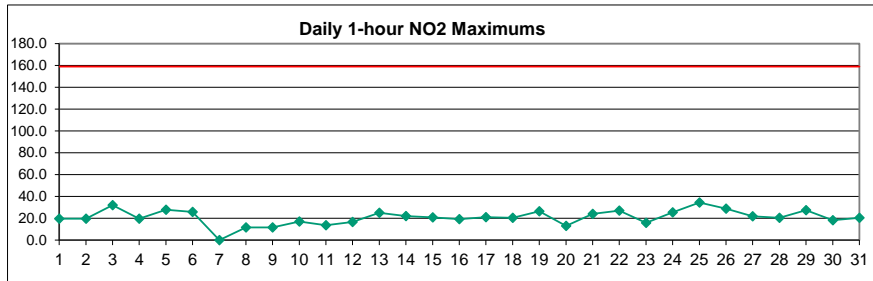
## A DATA & CALIBRATION REPORTS

# APPENDIX



# Lagoon NO<sub>2</sub> (ppb) – March 2024

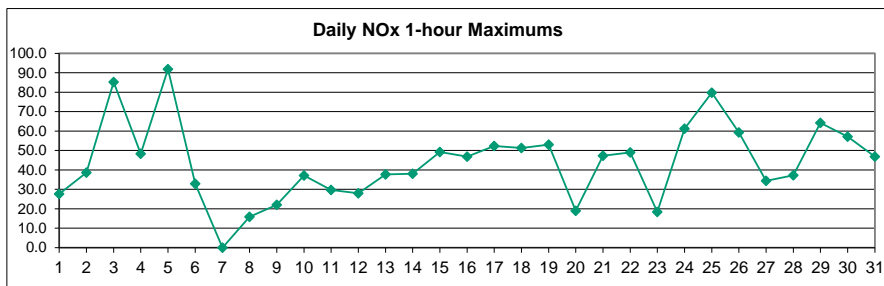
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	14.6	S	3.4	2.7	3.0	3.7	3.8	7.9	8.0	6.2	5.5	6.5	6.9	9.6	14.2	9.7	10.3	13.4	13.6	17.6	19.6	18.7	6.5	7.1	9.2	19.6
2	8.4	S	8.2	7.4	6.9	6.7	7.6	6.6	6.6	6.5	11.2	10.9	12.7	6.0	14.1	6.8	11.7	15.1	16.9	19.6	12.6	9.4	8.8	9.1	10.0	19.6
3	8.2	S	24.8	26.7	30.6	31.9	31.5	30.0	25.3	19.0	19.6	9.3	10.5	5.2	3.7	2.6	4.4	3.9	5.2	4.6	5.9	4.7	4.2	4.2	13.7	31.9
4	8.6	S	9.4	18.1	8.6	3.9	4.5	4.6	4.3	3.0	3.1	3.1	3.5	2.9	2.7	3.0	12.9	5.2	6.1	9.8	15.5	19.6	16.7	13.7	7.9	19.6
5	26.6	S	16.1	17.9	25.9	27.1	26.0	26.5	26.1	27.9	22.8	12.2	3.6	4.8	3.1	2.5	2.6	2.7	4.4	5.2	7.3	15.4	18.3	19.4	15.0	27.9
6	23.4	S	25.8	17.7	22.3	18.3	17.3	14.6	13.2	10.2	11.9	7.5	5.7	2.6	3.7	3.4	3.8	3.8	7.4	5.8	10.1	9.8	9.2	11.7	11.3	25.8
7	10.2	S	4.8	5.2	4.6	4.5	4.6	5.7	11.6	7.9	C	C	C	C	C	C	C	3.3	6.5	8.7	13.3	14.4	12.0	11.6	-	-
8	11.6	S	6.9	10.5	9.2	3.4	2.9	10.0	3.2	3.1	3.0	2.2	3.6	1.6	2.0	1.2	1.0	0.9	0.9	2.4	9.1	6.1	3.2	4.5	4.5	11.6
9	6.8	S	3.5	3.7	4.3	5.2	7.3	11.4	9.3	10.5	5.0	9.0	11.5	8.5	6.8	2.7	6.0	4.8	8.2	6.7	8.7	5.9	2.9	7.8	6.8	11.5
10	16.5	S	1.6	1.0	1.0	2.1	2.9	9.5	9.9	2.4	5.0	14.1	17.1	7.5	5.9	6.6	2.4	2.6	2.9	10.4	15.9	7.4	4.0	11.3	7.0	17.1
11	12.3	S	8.5	10.6	8.8	8.8	11.2	10.8	11.1	13.6	7.7	6.1	8.4	3.9	11.6	6.1	11.8	5.2	8.1	10.0	13.1	7.4	7.2	5.5	9.0	13.6
12	8.2	S	8.6	7.6	10.2	12.2	14.6	15.1	16.6	11.5	4.4	2.3	6.8	3.8	0.8	2.2	1.6	1.2	2.0	6.8	3.9	10.6	8.2	9.9	7.4	16.6
13	13.5	S	11.9	10.5	12.9	10.6	12.4	17.7	19.9	14.5	7.0	5.5	2.3	0.8	4.9	6.7	4.7	3.0	3.3	14.8	7.7	19.0	13.5	24.9	10.5	24.9
14	21.9	S	19.0	19.3	9.9	9.9	5.6	6.5	12.0	15.9	12.2	1.8	1.7	3.0	2.6	2.9	3.0	1.7	1.7	2.6	1.3	1.4	1.7	4.5	7.0	21.9
15	5.6	S	20.8	19.3	15.3	14.5	5.2	6.9	11.4	10.6	9.3	15.4	7.5	9.6	1.7	3.1	4.7	3.3	20.6	13.0	12.9	13.3	14.7	14.7	11.0	20.8
16	17.6	S	12.9	6.5	12.2	13.4	14.8	19.0	15.3	17.8	12.0	3.1	7.4	4.8	3.2	2.7	7.3	9.4	4.1	3.5	8.4	7.8	9.0	19.2	10.1	19.2
17	21.0	S	7.1	9.0	7.9	12.6	15.1	19.7	7.8	8.0	8.7	11.6	4.1	1.5	3.8	7.5	4.7	3.2	7.5	4.5	6.2	8.5	13.6	17.8	9.2	21.0
18	20.5	S	3.2	4.2	10.2	5.6	8.2	9.4	7.3	14.5	4.4	7.9	3.5	2.1	1.9	6.1	4.1	5.8	5.9	7.3	11.8	7.5	5.3	6.6	7.1	20.5
19	13.8	S	13.1	9.4	10.2	10.1	12.5	23.9	26.4	11.4	2.8	3.3	3.6	6.2	9.2	20.2	14.6	20.1	11.9	12.0	20.9	20.9	12.6	11.0	13.0	26.4
20	4.6	S	2.0	2.1	2.7	1.9	3.9	5.4	5.2	5.9	4.7	3.7	4.3	3.4	3.7	4.5	5.7	13.1	5.8	9.6	9.4	7.0	9.8	7.4	5.5	13.1
21	13.9	S	16.1	13.1	8.2	12.6	4.1	9.1	5.9	9.4	6.3	7.9	4.6	4.8	7.8	9.3	8.5	11.6	11.6	11.1	10.4	13.3	23.2	24.0	10.7	24.0
22	21.1	S	8.3	7.3	10.3	5.3	4.7	8.8	9.3	6.3	6.8	7.7	6.9	7.4	17.8	17.2	24.0	27.1	14.3	4.0	3.8	3.6	3.5	3.2	9.9	27.1
23	4.8	S	15.8	5.3	14.0	13.5	4.9	5.6	6.0	5.1	4.1	3.8	3.7	4.8	4.9	5.8	8.7	7.5	6.3	7.6	7.3	7.3	7.9	6.8	7.0	15.8
24	9.4	S	6.8	13.6	9.8	21.1	22.8	9.4	23.3	24.1	13.1	5.0	4.5	4.0	3.3	2.8	2.7	2.9	17.9	9.5	13.9	25.4	7.2	12.1	11.5	25.4
25	19.1	S	23.8	14.9	20.2	21.0	27.0	20.8	13.7	21.6	13.0	10.2	22.0	13.7	7.2	7.7	6.1	7.0	6.6	6.3	13.7	33.6	34.5	18.1	16.6	34.5
26	24.0	S	28.8	25.9	16.5	16.5	12.0	12.0	12.8	16.4	12.0	8.6	2.0	1.6	8.9	8.4	6.1	2.6	6.9	6.2	7.0	6.8	8.8	14.2	11.5	28.8
27	13.3	S	18.2	12.5	21.8	16.7	20.1	19.2	18.6	10.2	4.6	1.9	2.4	4.0	4.5	2.4	2.1	1.9	5.0	3.8	4.3	8.7	8.3	7.3	9.2	21.8
28	7.9	S	8.7	11.9	10.4	9.0	17.9	12.1	11.0	7.0	3.8	9.5	16.5	14.8	13.5	10.6	6.2	8.5	9.0	19.8	15.9	5.8	20.3	12.9	11.4	20.3
29	3.5	S	2.3	3.5	3.8	3.3	3.1	4.0	4.4	4.2	4.8	5.6	4.9	12.9	4.8	9.5	27.4	9.3	15.7	10.1	10.2	10.5	15.0	14.9	8.2	27.4
30	10.4	S	12.9	14.5	8.7	10.9	9.6	7.7	18.1	16.9	15.6	10.4	2.7	15.5	9.6	10.7	16.9	15.6	6.2	7.8	6.9	13.3	15.0	6.0	11.4	18.1
31	8.9	S	2.6	5.1	7.9	6.7	13.5	11.8	12.3	20.3	13.0	3.1	5.2	11.1	8.1	12.6	6.5	2.3	6.0	8.9	4.1	3.8	1.1	2.7	7.7	20.3
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	706	100.0%
MEAN	13.2	-	11.5	10.9	11.2	11.1	11.3	12.3	12.4	11.7	8.6	7.0	6.7	6.1	6.3	6.6	7.8	7.0	8.0	8.7	10.0	11.2	10.5	11.1		
MAX	26.6	-	28.8	26.7	30.6	31.9	31.5	30.0	26.4	27.9	22.8	15.4	22.0	15.5	17.8	20.2	27.4	27.1	20.6	19.8	20.9	33.6	34.5	24.9		



Number of 1HR Exceedences	0	Operational Time	744 HRS
Number of Non-Zero Readings	706	Operational Uptime	100.0 %
Maximum 1-HR Average	34.5 PPB	Monthly Average	9.6 PPB
Maximum 24-HR Average	16.6 PPB		
Monthly Calibration	7		
Standard Deviation	6.4		

# Lagoon NOx (ppb) – March 2024

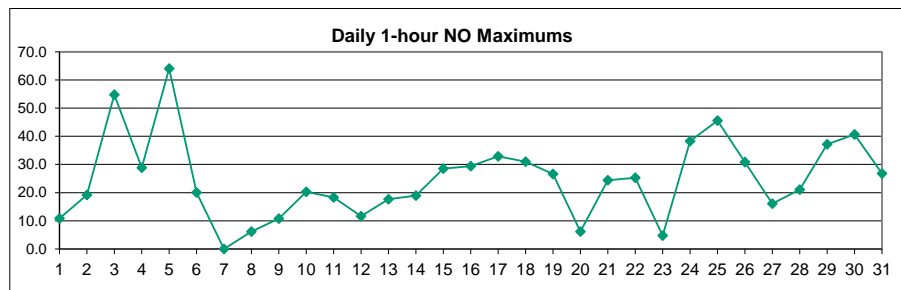
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	22.6	S	3.3	2.4	2.8	3.6	3.5	8.0	9.2	9.0	9.7	10.4	12.1	16.4	24.7	14.0	14.7	15.7	14.0	19.9	25.0	27.7	6.9	6.8	12.3	27.7
2	8.1	S	7.8	7.1	6.5	6.3	7.3	6.3	6.7	8.9	19.9	20.4	25.3	9.6	28.7	12.9	24.9	33.6	34.9	38.6	17.5	11.3	10.5	9.3	15.8	38.6
3	7.9	S	38.4	66.5	85.3	51.4	38.7	50.4	56.3	46.2	72.5	22.2	31.3	14.0	7.3	3.8	7.6	4.5	5.2	4.5	6.4	4.7	3.8	4.1	27.5	85.3
4	9.8	S	10.3	22.5	8.9	3.7	4.1	4.4	5.6	5.2	6.1	6.7	8.3	5.8	5.0	5.0	40.1	5.6	6.0	13.9	26.6	48.3	27.9	16.9	12.9	48.3
5	57.1	S	17.3	23.0	55.6	55.7	35.0	49.3	67.7	91.8	85.5	33.4	5.5	9.1	4.2	3.4	2.7	2.6	4.4	5.3	8.1	16.7	20.3	26.2	29.6	91.8
6	24.3	S	32.9	21.1	24.7	19.0	21.4	19.8	29.3	22.5	31.7	15.5	11.3	4.4	7.0	5.9	5.9	5.7	7.7	5.7	13.8	13.1	13.0	20.3	16.3	32.9
7	15.9	S	5.9	6.7	4.8	5.0	5.5	7.4	21.4	18.4	C	C	C	C	C	C	C	4.1	7.7	10.5	20.7	23.8	19.0	16.3	-	-
8	15.8	S	8.4	13.9	13.4	3.7	3.5	14.2	4.1	4.2	4.5	3.2	5.8	2.1	2.6	1.5	1.0	0.8	0.7	3.0	15.0	7.3	3.6	5.3	6.0	15.8
9	9.9	S	4.0	4.6	5.2	6.9	10.6	18.2	16.0	20.3	8.1	18.5	22.0	13.7	11.4	3.5	9.5	6.5	11.4	9.8	12.2	8.3	3.3	10.8	10.6	22.0
10	29.2	S	1.5	1.0	0.9	2.4	3.2	13.3	16.7	2.9	7.7	31.5	37.1	12.3	11.0	10.4	2.8	2.9	3.3	12.9	27.9	9.8	4.8	16.9	11.4	37.1
11	21.0	S	9.7	14.3	10.8	12.1	16.4	17.5	20.3	26.3	12.4	11.7	17.2	6.4	29.7	9.6	20.6	8.1	9.6	13.0	16.1	8.4	7.3	5.4	14.1	29.7
12	9.8	S	10.1	7.4	10.2	13.1	19.5	20.2	27.9	18.7	6.2	3.2	11.7	5.7	0.9	3.0	1.9	1.1	1.8	9.1	3.8	15.4	11.9	15.1	9.9	27.9
13	23.0	S	18.8	17.1	23.6	18.9	22.2	32.2	37.3	23.8	12.2	9.3	3.3	0.9	7.8	9.3	7.3	3.5	3.3	15.9	7.5	22.9	13.5	37.7	16.1	37.7
14	23.4	S	31.7	38.1	17.1	15.8	7.0	9.8	25.2	33.5	22.6	2.3	2.2	4.3	3.8	3.9	3.5	1.8	1.7	2.8	1.1	1.4	1.7	6.3	11.3	38.1
15	6.8	S	49.2	39.3	32.5	23.9	7.1	11.3	22.0	19.3	20.2	40.5	11.4	15.6	2.2	4.3	6.4	3.6	31.8	13.1	12.8	13.4	15.0	15.2	18.1	49.2
16	19.1	S	23.1	9.2	25.7	28.1	29.9	44.0	36.1	46.8	27.7	4.5	12.6	8.2	5.6	3.5	12.2	12.5	4.4	3.4	9.4	7.6	9.0	20.0	17.5	46.8
17	38.6	S	9.0	14.2	11.8	28.3	35.3	52.3	15.3	17.2	19.4	24.7	5.6	1.8	5.2	11.8	6.1	3.7	8.3	4.8	6.5	9.6	23.8	38.7	17.1	52.3
18	51.3	S	3.6	5.0	21.4	8.7	14.0	14.1	13.8	36.5	6.6	14.9	4.9	2.6	2.2	8.6	5.5	7.8	6.7	8.2	12.8	7.4	5.3	6.5	11.7	51.3
19	20.1	S	16.1	9.2	11.7	10.8	14.7	44.8	53.0	20.2	3.6	4.5	5.4	9.0	14.3	32.7	21.0	35.8	17.8	18.1	36.4	34.4	20.5	21.6	20.7	53.0
20	5.9	S	1.9	2.0	3.9	1.8	3.9	5.9	6.1	7.4	6.5	5.7	6.0	4.5	5.5	5.7	7.6	18.9	5.8	9.6	10.1	7.1	12.2	8.1	6.6	18.9
21	18.0	S	22.4	17.8	8.7	17.5	4.4	15.0	9.2	20.1	11.5	16.2	8.6	8.2	14.5	18.2	13.1	18.6	15.8	13.7	12.5	15.3	47.3	39.4	16.8	47.3
22	43.7	S	8.7	7.6	14.0	5.4	4.8	11.3	11.4	8.1	9.0	10.8	9.5	10.1	38.2	34.9	49.0	48.6	21.1	3.9	3.7	3.4	3.4	3.2	15.8	49.0
23	5.2	S	17.3	5.1	18.4	16.2	5.0	5.9	6.6	6.0	4.8	4.4	4.6	6.3	5.9	7.4	11.7	10.1	6.3	7.4	7.1	7.2	8.0	6.8	8.0	18.4
24	9.9	S	6.7	17.0	13.3	32.7	32.1	10.4	61.2	61.2	27.4	7.2	6.3	5.2	4.0	3.2	2.9	3.1	27.9	10.5	16.4	34.6	6.9	18.0	18.2	61.2
25	19.5	S	45.4	23.9	38.8	40.6	54.1	33.3	22.7	52.9	25.4	19.0	47.6	31.1	9.5	9.8	7.6	10.1	6.9	6.9	16.1	66.6	79.7	23.4	30.0	79.7
26	28.8	S	59.3	54.7	25.5	24.5	15.2	17.3	21.9	40.7	22.4	15.7	2.4	1.8	13.6	12.2	7.5	3.0	9.6	6.9	9.4	8.5	11.5	20.5	18.8	59.3
27	19.6	S	25.1	16.9	31.7	20.1	27.5	26.0	34.4	16.3	7.8	2.3	3.2	5.6	6.5	2.9	2.7	1.9	5.2	3.7	4.2	9.7	8.2	7.2	12.5	34.4
28	7.8	S	8.7	12.1	10.4	8.9	25.0	17.9	17.2	8.4	4.0	17.2	37.2	34.6	26.1	17.7	8.1	13.0	13.5	34.4	24.5	7.1	34.1	16.3	17.6	37.2
29	3.5	S	2.2	3.6	3.9	3.1	3.1	4.2	4.7	4.9	6.0	7.5	6.6	28.7	6.8	17.5	64.3	13.4	26.2	11.3	11.5	10.8	18.4	20.9	12.3	64.3
30	10.9	S	14.7	19.0	9.9	15.8	13.1	12.2	55.4	57.1	47.1	25.9	3.5	31.0	17.1	17.9	30.7	25.0	6.6	8.7	9.9	16.6	15.1	6.4	20.4	57.1
31	9.7	S	2.4	4.9	10.7	6.4	18.3	18.4	23.7	46.8	24.9	4.2	9.0	22.3	13.4	23.3	9.5	2.5	6.9	10.7	4.3	4.3	1.0	2.9	12.2	46.8
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	706	100.0%
MEAN	19.2	-	16.6	16.4	18.1	16.5	16.3	19.8	24.5	25.9	19.1	13.8	12.6	11.0	11.2	10.6	13.6	10.6	10.7	11.0	13.2	15.6	15.1	15.2		
MAX	57.1	-	59.3	66.5	85.3	55.7	54.1	52.3	67.7	91.8	85.5	40.5	47.6	34.6	38.2	34.9	64.3	48.6	34.9	38.6	36.4	66.6	79.7	39.4		



Number of Non-Zero Readings	706
Maximum 1-HR Average	91.8 PPB
Maximum 24-HR Average	30.0 PPB
Monthly Calibration	7
Standard Deviation	14.04
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	15.5 PPB

# Lagoon NO (ppb) – March 2024

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	8.2	S	0.1	0.0	0.0	0.0	0.0	0.3	1.4	3.0	4.4	4.2	5.5	7.2	10.9	4.6	4.7	2.5	0.6	2.5	5.6	9.1	0.5	0.0	3.3	10.9
2	0.0	S	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.5	8.9	9.8	12.8	3.8	14.8	6.3	13.3	18.7	18.2	19.2	5.1	2.1	1.9	0.5	6.0	19.2
3	0.0	S	13.8	39.9	54.7	19.5	7.4	20.4	31.0	27.3	53.1	13.2	21.0	9.0	3.8	1.3	3.5	0.7	0.1	0.0	0.8	0.1	0.0	0.0	13.9	54.7
4	1.3	S	1.2	4.6	0.5	0.0	0.0	0.0	1.5	2.3	3.2	3.9	5.1	3.1	2.5	2.1	27.4	0.6	0.1	4.3	11.4	28.8	11.4	3.5	5.2	28.8
5	30.6	S	1.4	5.3	29.9	28.7	9.2	22.9	41.5	64.1	62.9	21.4	2.1	4.5	1.3	1.0	0.3	0.0	0.2	0.2	1.0	1.6	2.3	7.1	14.8	64.1
6	1.1	S	7.3	3.6	2.6	1.0	4.4	5.4	16.4	12.6	20.1	8.3	5.9	2.0	3.6	2.7	2.5	2.3	0.7	0.3	4.1	3.7	4.2	9.0	5.4	20.1
7	6.1	S	1.4	1.9	0.6	0.8	1.2	1.9	10.2	10.9	C	C	C	C	C	C	C	1.1	1.4	2.1	7.7	9.7	7.3	5.0	-	-
8	4.5	S	1.8	3.7	4.5	0.5	0.8	4.6	1.1	1.3	1.7	1.3	2.5	0.6	0.8	0.5	0.2	0.1	0.1	0.9	6.2	1.5	0.5	1.0	1.8	6.2
9	3.5	S	0.7	1.2	1.2	2.0	3.6	7.1	7.1	10.2	3.4	9.8	10.8	5.6	4.9	1.0	3.8	2.0	3.5	3.5	3.7	2.7	0.7	3.2	4.1	10.8
10	12.9	S	0.2	0.2	0.1	0.5	0.5	4.1	7.1	0.8	2.9	17.6	20.3	5.1	5.3	4.1	0.6	0.4	0.7	2.7	12.2	2.6	1.0	5.9	4.7	20.3
11	9.0	S	1.5	4.0	2.3	3.5	5.5	7.0	9.5	13.0	5.0	5.8	9.1	2.7	18.3	3.7	9.1	3.2	1.8	3.3	3.3	1.2	0.4	0.2	5.3	18.3
12	1.8	S	1.9	0.1	0.3	1.2	5.2	5.4	11.6	7.5	2.0	1.1	5.3	2.2	0.3	1.1	0.5	0.2	0.0	2.4	0.1	5.0	3.9	5.5	2.8	11.6
13	9.8	S	7.2	6.9	11.0	8.5	10.0	14.8	17.7	9.6	5.5	4.1	1.2	0.3	3.2	3.0	2.8	0.7	0.3	1.3	0.1	4.3	0.3	13.1	5.9	17.7
14	1.7	S	13.0	18.9	7.5	6.1	1.6	3.5	13.5	17.9	10.8	0.7	0.8	1.6	1.4	1.2	0.7	0.2	0.2	0.5	0.1	0.2	0.2	2.0	4.5	18.9
15	1.5	S	28.6	20.3	17.5	9.7	2.1	4.7	10.8	9.0	11.1	25.3	4.2	6.4	0.7	1.5	1.9	0.5	11.5	0.4	0.1	0.4	0.5	0.8	7.4	28.6
16	1.8	S	10.5	3.0	13.9	15.0	15.4	25.2	21.1	29.4	16.1	1.8	5.5	3.7	2.7	1.0	5.1	3.3	0.5	0.1	1.3	0.1	0.2	1.0	7.7	29.4
17	17.7	S	2.2	5.4	4.2	15.9	20.4	32.8	7.7	9.6	11.0	13.4	1.8	0.5	1.6	4.5	1.6	0.7	1.2	0.5	0.6	1.4	10.5	21.2	8.1	32.8
18	31.0	S	0.6	1.1	11.5	3.4	6.1	5.1	6.9	22.4	2.4	7.4	1.6	0.8	0.6	2.8	1.6	2.3	1.1	1.2	1.3	0.2	0.2	0.1	4.9	31.0
19	6.5	S	3.2	0.1	1.8	0.9	2.4	21.1	26.6	9.0	1.0	1.4	2.0	3.0	5.3	12.8	6.7	15.9	6.1	6.3	15.7	13.8	8.1	10.7	7.8	26.6
20	1.6	S	0.1	0.1	1.4	0.1	0.2	0.8	1.1	1.7	2.0	2.2	2.0	1.4	2.0	1.5	2.1	6.2	0.3	0.3	1.0	0.4	2.7	1.1	1.4	6.2
21	4.5	S	6.6	5.0	0.8	5.1	0.5	6.2	3.6	11.0	5.6	8.7	4.4	3.7	7.1	9.3	5.0	7.4	4.6	2.9	2.5	2.4	24.4	15.7	6.4	24.4
22	22.8	S	0.8	0.7	4.1	0.4	0.4	2.9	2.6	2.2	2.7	3.6	3.1	3.2	20.8	18.0	25.3	21.8	7.1	0.2	0.2	0.2	0.3	0.4	6.2	25.3
23	0.8	S	2.0	0.3	4.8	3.1	0.4	0.6	1.1	1.2	1.0	0.9	1.2	1.9	1.2	2.0	3.5	2.9	0.3	0.2	0.2	0.2	0.5	0.4	1.3	4.8
24	0.9	S	0.3	3.7	3.8	11.8	9.6	1.4	38.2	37.4	14.6	2.6	2.1	1.6	1.0	0.7	0.5	0.6	10.4	1.4	2.8	9.5	0.1	6.3	7.0	38.2
25	0.8	S	22.0	9.4	19.0	19.9	27.3	13.0	9.5	31.6	12.9	9.3	25.8	17.8	2.8	2.6	1.9	3.5	0.7	1.0	2.9	33.3	45.6	5.6	13.8	45.6
26	5.1	S	30.8	29.1	9.4	8.3	3.7	5.7	9.6	24.7	10.8	7.5	0.7	0.6	5.2	4.3	1.8	0.7	3.1	1.1	2.7	2.0	3.0	6.7	7.7	30.8
27	6.7	S	7.3	4.8	10.2	3.8	7.7	7.2	16.1	6.5	3.5	0.8	1.2	2.0	2.5	0.9	1.0	0.4	0.7	0.3	0.3	1.4	0.3	0.3	3.7	16.1
28	0.3	S	0.4	0.6	0.4	0.3	7.4	6.2	6.5	1.8	0.6	8.0	21.1	20.1	12.9	7.5	2.3	4.7	4.9	15.0	9.0	1.6	14.1	3.7	6.5	21.1
29	0.4	S	0.2	0.4	0.4	0.1	0.3	0.5	0.7	1.1	1.6	2.2	2.0	16.2	2.3	8.3	37.1	4.5	10.8	1.6	1.7	0.8	3.8	6.4	4.5	37.1
30	0.9	S	2.2	5.0	1.6	5.3	4.0	4.9	37.6	40.6	31.8	15.9	1.2	15.9	7.9	7.6	14.2	9.8	0.7	1.3	3.3	3.7	0.5	0.7	9.4	40.6
31	1.1	S	0.1	0.2	3.2	0.1	5.2	7.0	11.8	26.8	12.3	1.5	4.1	11.5	5.8	11.2	3.3	0.6	1.3	2.2	0.6	0.9	0.2	0.6	4.8	26.8
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	706	100.0%
MEAN	6.3	-	5.5	5.8	7.2	5.7	5.2	7.8	12.3	14.5	10.8	7.1	6.2	5.3	5.1	4.3	6.1	3.8	3.0	2.6	3.5	4.7	4.8	4.4		
MAX	31.0	-	30.8	39.9	54.7	28.7	27.3	32.8	41.5	64.1	62.9	25.3	25.8	20.1	20.8	18.0	37.1	21.8	18.2	19.2	15.7	33.3	45.6	21.2		

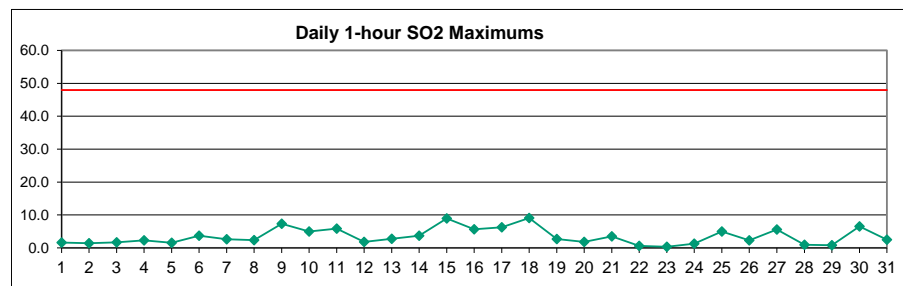


Number of Non-Zero Readings	690	Operational Time	744 HRS
Maximum 1-HR Average	64.1 PPB	Operational Uptime	100.0 %
Maximum 24-HR Average	14.8 PPB	Monthly Average	6.2 PPB
Monthly Calibration	7		
Standard Deviation	8.649		



# Lagoon SO<sub>2</sub> (ppb) – March 2024

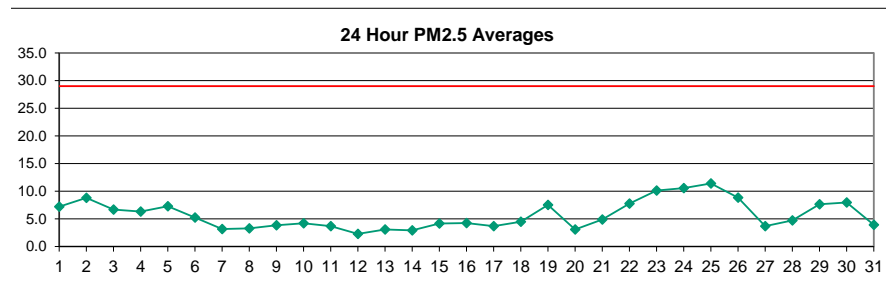
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.5	S	0.1	0.8	0.7	0.7	0.9	0.6	1.4	1.0	0.9	0.9	0.9	1.1	1.6	1.3	1.3	1.0	1.0	0.8	0.5	0.5	0.3	0.3	0.8	1.6
2	0.3	S	0.4	0.6	0.9	0.5	0.5	0.8	0.6	1.4	1.3	0.8	0.7	0.4	0.6	0.5	0.7	1.0	0.9	0.7	0.3	0.4	0.4	0.2	0.6	1.4
3	0.2	S	0.4	0.7	1.1	0.6	0.2	0.5	0.7	0.7	1.4	0.8	0.9	0.7	0.4	0.3	0.8	0.9	0.8	0.7	0.6	0.9	1.4	1.7	0.8	1.7
4	1.2	S	0.5	0.6	0.7	0.8	0.8	0.8	2.3	1.5	1.4	1.9	1.8	1.7	1.5	1.7	1.9	0.7	0.7	0.6	0.6	1.0	0.5	0.2	1.1	2.3
5	0.8	S	0.1	0.3	0.8	0.7	0.3	0.5	0.8	1.4	1.6	0.7	0.3	1.3	1.3	0.7	0.4	0.4	0.5	0.6	0.8	0.7	0.6	0.6	0.7	1.6
6	0.3	S	2.2	1.0	0.5	0.3	0.4	0.6	1.6	1.5	3.7	1.6	0.6	0.5	0.6	0.5	0.4	0.3	0.2	0.4	0.6	1.2	1.1	1.1	0.9	3.7
7	1.3	S	0.1	0.2	0.2	0.2	0.4	0.1	1.2	1.6	C	C	C	C	C	0.2	0.2	0.3	0.4	0.4	2.2	2.6	1.8	2.3	0.9	2.6
8	2.4	S	0.8	1.3	1.4	0.5	0.7	1.4	0.5	0.4	0.4	0.3	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.6	2.4
9	0.4	S	0.2	0.2	0.3	0.8	0.9	2.6	4.5	6.7	1.2	5.9	7.4	5.3	1.2	0.4	0.9	1.1	3.6	1.7	1.0	0.7	0.7	1.4	2.1	7.4
10	3.7	S	0.5	0.7	0.6	0.4	0.4	1.1	2.2	0.5	1.2	4.6	5.0	1.0	1.6	1.5	0.8	0.5	0.5	0.7	1.5	0.6	0.3	0.7	1.3	5.0
11	0.8	S	0.4	0.6	0.7	0.8	0.8	0.7	0.9	1.6	1.2	0.6	3.2	1.0	4.3	1.9	5.8	0.8	0.6	0.5	0.6	0.7	0.3	0.3	1.3	5.8
12	0.8	S	0.5	0.4	0.4	0.5	0.8	1.2	1.8	1.1	0.5	0.3	0.9	0.4	0.2	0.3	0.4	0.3	0.2	0.4	0.2	0.4	0.5	0.8	0.6	1.8
13	2.0	S	1.1	0.7	1.4	1.0	0.8	2.7	2.6	0.6	0.4	0.7	0.5	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.1	0.7	2.7
14	0.0	S	1.3	2.6	1.0	0.6	0.2	0.0	1.5	3.7	2.2	0.1	0.1	0.1	0.1	0.0	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.6	3.7
15	0.2	S	5.4	5.1	4.3	3.4	0.7	0.5	0.9	2.2	3.4	9.0	1.5	1.3	0.2	0.1	0.0	0.3	0.7	0.3	0.1	0.1	0.0	0.0	1.7	9.0
16	0.0	S	1.6	0.5	2.0	2.9	2.3	3.8	3.6	5.7	3.5	0.5	2.7	1.7	1.2	0.6	1.4	1.2	1.1	0.8	0.4	0.1	0.0	0.0	1.6	5.7
17	3.3	S	0.7	1.3	1.1	2.8	4.1	4.3	1.2	2.6	3.2	4.3	0.3	0.7	1.1	1.0	1.6	0.3	0.1	0.2	0.2	1.1	3.6	6.3	1.9	6.3
18	9.1	S	0.7	0.6	2.4	1.1	1.0	0.9	1.2	4.6	0.8	1.4	0.1	0.1	0.1	0.6	0.5	0.3	0.2	0.2	0.4	0.2	0.3	0.2	1.2	9.1
19	0.3	S	0.1	0.1	0.0	0.0	0.1	0.4	0.7	1.4	2.7	2.2	1.3	0.5	0.7	0.5	0.4	0.7	1.0	0.6	0.4	0.3	0.2	0.2	0.6	2.7
20	0.1	S	0.0	0.1	0.3	0.1	0.2	0.1	0.3	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.0	0.3	0.0	0.3	0.7	1.8	0.7	0.5	0.3	1.8
21	0.6	S	0.5	0.3	0.2	0.4	0.3	0.5	2.5	3.5	1.8	1.6	1.1	0.8	0.9	0.8	0.8	0.7	0.4	0.1	0.2	0.1	0.4	0.3	0.8	3.5
22	0.4	S	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.4	0.3	0.5	0.6	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.6
23	0.1	S	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.2	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.1	0.2	0.3	0.2	0.3
24	0.3	S	0.1	0.3	0.2	0.3	0.3	0.3	1.0	1.3	1.0	0.5	0.4	0.5	0.2	0.3	0.3	0.2	0.6	0.0	0.3	0.4	0.4	0.4	0.4	1.3
25	0.4	S	1.6	0.8	1.8	1.8	2.5	1.0	0.6	2.9	1.4	2.7	5.0	1.6	0.7	0.7	0.5	0.5	0.3	0.3	0.3	1.0	1.2	0.3	1.3	5.0
26	0.4	S	1.7	2.3	1.0	0.8	0.5	0.7	0.6	1.8	1.4	0.8	0.3	0.3	1.1	1.6	1.3	0.6	0.8	0.4	0.5	0.4	0.6	1.6	0.9	2.3
27	1.4	S	2.2	1.8	3.6	2.4	2.7	1.0	5.6	1.9	0.7	0.5	0.5	0.6	0.5	0.4	0.4	0.5	0.6	0.4	0.5	0.5	0.3	0.4	1.3	5.6
28	0.5	S	0.3	0.4	0.4	0.4	0.4	0.6	0.6	0.5	0.4	0.6	0.9	0.8	0.6	0.5	0.4	0.4	0.5	0.6	0.7	0.4	0.6	0.4	0.5	0.9
29	0.3	S	0.3	0.5	0.6	0.4	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	0.4	0.8	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.3	0.8
30	0.1	S	0.2	0.7	0.3	0.3	0.4	0.3	2.4	2.9	2.5	1.8	0.5	2.3	2.4	5.2	6.5	2.4	0.7	0.6	1.2	1.3	0.9	0.5	1.6	6.5
31	0.4	S	0.3	0.2	0.3	0.3	0.2	0.6	1.1	2.3	1.6	0.3	1.1	2.1	1.7	2.5	1.2	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.8	2.5
NO.	31	-	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	708	100.0%
MEAN	1.0	-	0.8	0.8	0.9	0.8	0.8	0.9	1.5	1.9	1.4	1.6	1.3	0.9	0.9	1.0	0.6	0.6	0.4	0.5	0.6	0.6	0.7			
MAX	9.1	-	5.4	5.1	4.3	3.4	4.1	4.3	5.6	6.7	3.7	9.0	7.4	5.3	4.3	5.2	6.5	2.4	3.6	1.7	2.2	2.6	3.6	6.3		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	690
Maximum 1-HR Average	9.1 PPB
Maximum 24-HR Average	2.1 PPB
Monthly Calibration	5
Standard Deviation	1.161
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	0.9 PPB

# Lagoon PM<sub>2.5</sub> (µg/m<sup>3</sup>) – March 2024

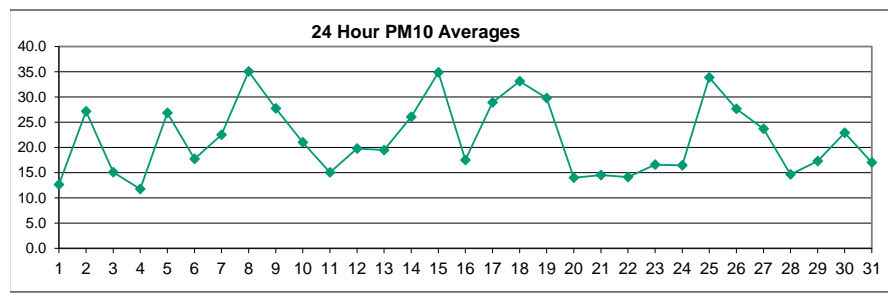
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.6	2.0	3.3	1.3	1.7	3.4	5.3	7.2	6.7	9.6	9.5	6.3	3.8	11.3	9.0	8.5	12.2	9.0	9.1	10.8	13.6	11.7	8.0	8.5	7.2	13.6
2	14.2	15.2	15.8	16.5	11.7	10.1	14.3	10.0	6.7	7.5	7.6	9.8	9.8	7.7	7.0	6.2	4.5	5.7	5.7	4.8	4.3	5.2	6.1	5.0	8.8	16.5
3	5.3	4.6	10.5	9.0	6.8	8.1	8.6	6.7	5.6	6.3	8.4	9.4	8.4	7.1	4.6	4.1	5.3	3.5	3.9	4.0	7.1	5.9	6.4	10.6	6.7	10.6
4	7.9	7.3	6.4	7.7	6.5	5.6	4.9	4.3	4.5	2.8	5.2	7.9	5.7	3.8	3.8	6.0	6.2	9.7	7.8	5.5	7.2	6.7	8.4	9.5	6.3	9.7
5	6.8	14.4	12.7	8.2	9.7	8.5	8.6	5.7	9.4	12.3	18.9	9.5	5.8	4.0	3.9	2.9	2.9	3.4	5.4	4.7	4.2	4.9	4.1	4.0	7.3	18.9
6	3.9	8.6	7.4	11.7	7.9	8.0	6.6	6.3	5.8	9.0	5.7	6.8	6.0	4.2	3.3	1.5	1.2	2.6	1.8	2.3	4.7	3.2	2.8	4.4	5.2	11.7
7	2.6	0.7	2.5	0.8	1.4	2.0	0.4	0.8	0.5	7.7	6.8	7.0	9.7	6.0	0.0	0.0	0.0	0.0	0.1	2.9	6.2	5.5	5.8	6.2	3.2	9.7
8	3.8	5.0	5.4	4.6	7.2	8.9	5.3	3.5	10.2	7.1	3.0	2.5	2.9	2.3	1.4	2.7	1.2	0.0	0.6	0.0	0.0	0.0	0.0	1.6	3.3	10.2
9	4.2	7.3	5.3	1.1	0.0	0.6	1.7	3.3	5.8	8.7	10.1	4.6	0.0	2.0	5.0	4.8	3.3	2.4	2.3	2.4	6.9	4.7	2.2	3.2	3.8	10.1
10	6.1	8.2	7.8	4.6	1.3	0.7	0.0	0.2	1.8	4.4	4.2	6.4	7.8	4.7	4.7	5.8	5.6	5.9	4.3	0.7	2.9	3.6	4.7	4.2	4.2	8.2
11	4.3	3.9	1.7	1.3	5.9	3.7	1.1	5.1	10.1	7.1	8.3	6.8	2.6	3.3	4.5	2.1	0.0	2.1	2.0	0.0	0.0	4.0	4.7	3.7	3.7	10.1
12	3.4	1.3	0.1	1.2	0.2	0.0	0.0	1.4	3.5	4.3	8.9	5.9	0.6	1.2	1.9	1.0	1.0	2.0	3.2	0.5	1.3	3.9	4.8	3.1	2.3	8.9
13	5.3	4.7	2.1	0.4	3.0	3.9	2.2	0.0	1.4	7.1	6.2	2.9	2.7	3.1	1.7	2.5	4.6	4.9	2.8	1.7	1.3	1.0	4.4	4.4	3.1	7.1
14	4.5	3.4	4.7	4.9	4.5	2.1	0.0	0.9	1.5	6.6	7.9	7.3	3.0	0.5	4.9	2.3	1.2	1.7	2.6	1.9	0.6	2.0	0.7	0.0	2.9	7.9
15	0.4	5.0	5.4	5.1	4.5	3.5	2.7	2.5	3.4	2.2	0.5	1.3	4.2	8.8	15.7	7.5	0.0	0.0	5.2	5.3	2.9	3.1	5.3	5.8	4.2	15.7
16	4.0	5.5	9.0	4.1	0.0	3.7	3.3	1.1	6.1	10.2	6.8	6.0	4.2	4.7	1.9	0.0	1.5	4.4	4.6	1.5	3.1	3.3	4.4	8.8	4.3	10.2
17	8.7	8.2	6.1	3.6	1.9	5.9	6.4	4.9	6.4	5.3	2.9	3.0	3.0	2.2	0.0	0.1	5.2	4.3	1.6	2.4	0.0	0.2	2.4	3.3	3.7	8.7
18	2.7	3.3	3.3	3.0	3.8	2.6	2.8	3.9	2.4	4.3	3.1	2.6	7.0	4.7	2.4	1.8	11.2	9.8	6.5	3.1	2.9	10.1	7.6	2.7	4.5	11.2
19	1.9	4.1	6.6	5.4	4.1	5.9	5.7	5.0	5.9	6.4	4.3	3.2	C	C	C	12.7	10.0	10.4	11.0	9.8	15.1	13.1	11.0	6.2	7.5	15.1
20	1.8	2.0	3.1	0.6	0.0	0.0	2.2	2.1	3.8	5.2	8.5	4.4	2.7	2.1	0.0	1.4	1.8	2.5	5.4	5.0	4.8	5.4	4.8	3.8	3.1	8.5
21	5.5	5.0	4.0	3.8	3.5	5.9	5.1	3.5	2.0	3.2	2.2	1.6	5.6	6.1	4.3	3.5	5.6	5.4	4.0	10.8	9.5	7.4	3.8	5.0	4.9	10.8
22	6.5	7.2	6.1	4.5	2.0	2.1	5.9	6.8	5.4	7.6	9.0	11.2	9.2	8.6	10.3	9.4	9.0	9.6	10.7	9.0	9.5	9.5	8.1	8.5	7.7	11.2
23	9.4	8.0	5.0	7.5	8.9	13.1	8.8	11.0	10.9	11.9	8.6	11.5	13.7	12.1	11.6	9.4	7.4	10.6	11.4	9.6	9.3	9.9	11.1	12.5	10.1	13.7
24	12.5	17.3	14.7	10.3	14.3	12.7	15.1	15.3	15.4	19.8	10.9	17.4	9.2	7.8	5.9	5.7	4.4	5.4	4.4	2.9	6.1	7.0	11.6	7.9	10.6	19.8
25	4.3	13.3	14.2	22.8	8.8	13.2	15.7	16.4	13.2	12.7	19.5	16.8	9.3	17.8	8.1	6.3	6.6	5.9	5.2	4.0	4.3	9.4	11.6	14.4	11.4	22.8
26	12.1	11.8	23.0	28.1	26.0	13.7	10.8	8.7	7.4	7.1	10.7	10.1	5.3	0.0	1.6	5.0	3.5	3.6	5.8	4.0	2.8	5.7	3.9	1.8	8.8	28.1
27	3.0	6.6	5.5	3.7	2.9	3.8	5.1	5.4	4.3	6.3	8.8	5.6	4.4	4.2	2.9	2.3	3.6	1.4	0.0	1.9	0.6	2.0	1.8	1.8	3.7	8.8
28	2.5	2.5	1.2	1.7	4.0	5.0	4.0	3.4	6.2	10.0	9.0	4.6	1.8	6.2	5.3	5.2	8.0	6.1	4.2	7.0	5.3	3.0	3.3	3.4	4.7	10.0
29	3.7	4.0	4.1	4.6	5.6	4.7	2.9	3.7	3.9	4.9	10.2	8.0	8.6	9.2	12.7	7.7	6.5	13.1	12.1	9.6	9.8	10.8	9.8	13.5	7.6	13.5
30	8.2	9.1	10.5	9.6	10.3	9.1	8.4	6.6	6.9	17.0	15.1	13.8	11.6	4.7	5.6	4.6	2.6	5.3	4.9	4.1	2.8	4.8	8.3	7.2	8.0	17.0
31	2.4	0.1	3.8	3.1	1.7	1.8	1.3	5.0	5.6	8.4	10.6	8.4	4.8	3.2	3.0	6.1	7.1	6.8	1.9	0.0	1.5	2.2	2.6	2.8	3.9	10.6
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	741	100.0%
MEAN	5.2	6.4	6.8	6.3	5.5	5.6	5.3	5.2	5.9	7.8	8.1	7.2	5.8	5.4	4.9	4.5	4.6	5.1	4.9	4.3	4.9	5.5	5.6	5.7		
MAX	14.2	17.3	23.0	28.1	26.0	13.7	15.7	16.4	15.4	19.8	19.5	17.4	13.7	17.8	15.7	12.7	12.2	13.1	12.1	10.8	15.1	13.1	11.6	14.4		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	710
Maximum 1-HR Average	28.1 UG/M3
Maximum 24-HR Average	11.4 UG/M3
Monthly Calibration	3
Standard Deviation	4.041
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	5.7 UG/M3

# Lagoon PM<sub>10</sub> (µg/m<sup>3</sup>) – March 2024

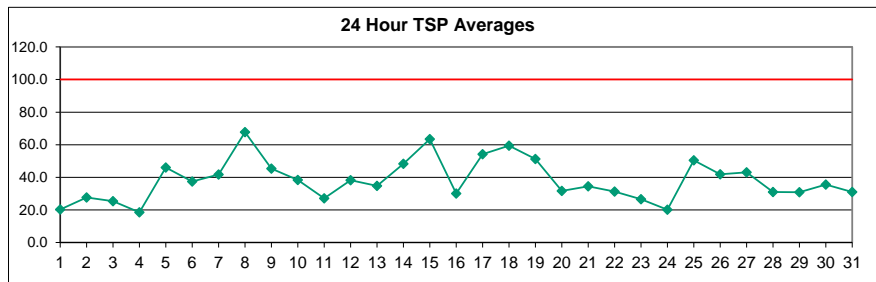
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.5	8.4	8.4	9.2	5.1	14.5	4.2	5.9	7.4	6.9	8.4	19.5	12.2	12.3	13.8	21.9	21.9	13.2	23.8	14.0	15.4	22.3	12.6	12.3	12.6	23.8
2	16.5	18.7	21.6	22.4	17.3	20.3	15.6	16.1	15.5	19.4	17.9	21.5	37.6	31.6	49.8	91.4	76.1	31.4	40.7	16.3	15.6	18.9	8.7	10.9	27.2	91.4
3	7.0	6.1	10.9	9.6	23.8	7.9	20.1	22.5	19.9	21.2	29.5	35.2	16.2	8.7	22.2	15.4	11.6	14.5	9.2	6.9	5.0	4.3	20.7	13.3	15.1	35.2
4	1.7	7.2	7.0	5.3	7.3	10.8	8.4	4.9	3.9	7.0	10.8	10.3	14.9	11.9	13.4	15.8	7.9	20.3	14.7	24.7	19.6	26.0	18.6	9.8	11.8	26.0
5	10.0	45.4	33.7	23.1	27.3	32.5	15.2	19.3	22.7	26.2	53.5	45.3	48.4	30.6	25.6	25.9	19.6	17.7	24.5	13.9	8.6	13.8	14.0	47.1	26.8	53.5
6	55.3	15.1	15.1	15.9	10.1	20.3	18.3	15.8	9.9	26.2	21.9	34.1	32.4	8.3	14.8	0.2	1.3	6.4	7.7	23.2	23.0	18.5	12.7	19.1	17.7	55.3
7	15.6	12.6	8.5	9.4	6.0	11.0	7.5	8.9	5.1	22.6	22.0	30.3	56.2	19.6	14.8	8.9	8.6	13.4	8.9	36.7	68.5	44.6	19.0	80.9	22.5	80.9
8	90.7	113.5	120.7	78.1	81.6	53.2	45.6	29.1	63.0	25.7	29.6	15.7	8.7	35.9	3.8	3.0	2.3	1.6	3.6	2.1	4.0	18.1	4.5	7.0	35.0	120.7
9	25.3	47.9	20.0	3.6	3.5	6.2	14.2	18.6	32.7	50.9	75.5	13.8	33.6	62.9	57.4	41.5	8.4	17.6	24.0	41.7	24.1	10.2	10.3	21.3	27.7	75.5
10	43.6	34.8	32.1	6.6	3.0	4.0	10.8	10.1	25.4	35.4	9.1	48.8	44.3	49.8	15.8	24.9	24.8	11.5	7.3	5.2	18.2	20.3	14.5	3.3	21.0	49.8
11	25.5	8.0	5.9	8.6	19.6	6.5	14.6	37.1	19.0	7.0	12.4	12.5	6.1	18.4	20.8	15.4	14.6	25.4	16.2	15.9	16.9	16.5	6.3	12.0	15.0	37.1
12	18.3	6.1	29.7	16.3	13.8	19.2	17.7	12.6	33.6	41.1	71.9	17.6	11.7	41.3	29.3	0.0	12.6	17.7	9.3	8.3	11.4	16.1	11.1	7.8	19.8	71.9
13	4.9	5.6	4.7	7.5	9.3	5.8	9.5	19.0	27.4	72.3	72.5	27.2	25.5	8.0	4.2	26.5	32.3	22.7	13.5	9.2	16.4	13.1	13.0	17.5	19.5	72.5
14	23.3	20.6	14.7	7.8	19.2	11.3	20.0	17.4	31.8	49.0	88.7	138.7	15.4	9.5	27.8	24.3	11.6	17.7	15.0	13.8	14.7	12.0	9.5	11.5	26.1	138.7
15	25.0	72.0	58.7	33.0	20.9	11.6	21.3	16.8	18.4	23.7	32.8	23.7	40.2	84.6	122.9	15.1	26.0	20.0	55.0	25.0	14.4	20.7	27.5	27.8	34.9	122.9
16	17.8	25.4	33.0	7.3	4.3	7.8	11.0	10.7	41.8	35.9	26.3	28.0	21.6	25.2	12.6	10.5	5.5	15.8	13.1	6.3	9.4	15.3	16.2	18.9	17.5	41.8
17	32.3	36.7	23.0	9.5	6.2	10.6	16.1	18.9	21.3	15.2	17.3	33.2	91.7	25.0	15.1	48.3	104.8	39.1	12.3	16.9	1.8	29.0	55.9	13.9	28.9	104.8
18	9.4	10.6	11.5	13.2	11.9	15.7	10.6	17.9	33.9	32.1	29.5	38.9	65.5	39.5	29.8	19.5	128.4	111.2	33.3	14.5	26.5	51.9	34.7	5.5	33.1	128.4
19	11.2	14.8	12.1	18.0	23.3	23.8	20.6	29.8	91.4	62.9	34.3	13.1	C	C	24.3	37.2	48.2	41.5	36.3	31.4	35.3	22.6	13.0	10.2	29.8	91.4
20	7.9	9.2	5.8	1.8	4.2	11.4	12.4	15.1	12.5	20.4	17.2	18.0	15.3	12.4	7.5	20.5	20.1	11.3	18.6	6.9	30.5	15.2	28.4	12.7	14.0	30.5
21	9.6	8.3	8.7	18.6	5.7	5.8	11.8	16.7	28.7	41.1	19.8	10.3	11.4	20.0	25.1	10.6	10.4	17.8	13.9	14.6	8.2	8.5	11.7	10.6	14.5	41.1
22	9.8	9.4	16.0	8.9	8.1	12.0	12.1	7.2	6.0	13.8	13.4	23.9	19.2	15.3	20.3	14.1	18.2	18.8	20.8	19.1	10.0	10.8	14.8	16.4	14.1	23.9
23	8.9	17.7	16.2	7.4	9.2	17.9	19.8	16.3	19.4	19.3	21.4	18.0	22.0	22.7	14.4	24.0	14.5	14.8	12.7	16.2	21.7	11.9	17.5	13.9	16.6	24.0
24	21.1	18.9	17.4	18.7	24.1	19.5	22.9	17.4	15.6	26.8	26.0	24.3	13.4	19.7	9.1	6.1	9.2	10.0	8.4	12.7	11.1	15.5	16.1	9.9	16.4	26.8
25	8.7	27.9	25.8	54.6	17.5	28.9	55.2	52.6	69.0	75.4	75.5	74.7	47.7	37.3	24.6	8.7	15.5	20.9	6.0	9.2	12.6	15.6	25.5	23.7	33.9	75.5
26	19.9	22.7	62.3	63.1	38.4	25.9	19.1	28.3	28.8	33.8	39.5	37.6	36.1	3.4	7.5	39.6	31.1	19.4	13.0	14.4	10.4	37.0	14.8	17.1	27.6	63.1
27	17.1	40.6	11.0	13.8	10.1	13.0	15.1	17.7	28.8	61.4	73.0	43.2	17.0	12.1	45.4	18.4	26.4	16.2	8.0	32.3	14.7	9.2	12.9	11.5	23.7	73.0
28	16.5	17.2	9.3	14.5	18.6	10.4	11.8	18.0	10.3	18.4	18.1	7.1	23.7	29.1	18.7	14.0	3.5	4.9	8.5	9.5	17.4	19.3	14.5	18.2	14.6	29.1
29	19.3	18.8	10.9	8.0	7.0	6.4	4.9	7.9	9.1	11.2	11.9	18.5	20.6	22.6	32.0	25.4	33.2	30.4	22.5	19.7	23.0	19.7	17.2	14.8	17.3	33.2
30	11.7	20.8	6.3	19.4	24.2	21.8	15.5	13.7	11.1	30.1	48.1	36.8	50.1	5.5	34.8	27.0	38.9	26.1	34.8	24.1	10.7	10.5	13.2	14.3	22.9	50.1
31	8.2	6.5	6.3	5.8	9.1	5.7	12.5	11.7	15.2	27.4	46.0	25.7	12.0	11.6	24.9	26.7	50.0	46.2	9.0	18.8	14.6	1.0	3.3	10.3	17.0	50.0
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	742	100.0%
MEAN	19.4	23.5	21.5	17.4	15.8	15.2	16.6	17.9	25.1	31.0	34.6	30.5	29.0	24.5	25.2	22.0	27.0	22.4	17.6	16.9	17.2	18.3	16.5	16.9		
MAX	90.7	113.5	120.7	78.1	81.6	53.2	55.2	52.6	91.4	75.4	88.7	138.7	91.7	84.6	122.9	91.4	128.4	111.2	55.0	41.7	68.5	51.9	55.9	80.9		



Number of Non-Zero Readings	741	Operational Time	744 HRS
Maximum 1-HR Average	138.7 UG/M3	Operational Uptime	100.0 %
Maximum 24-HR Average	35.0 UG/M3	Monthly Average	21.7 UG/M3
Monthly Calibration	2		
Standard Deviation	18.3		

# Lagoon TSP ( $\mu\text{g}/\text{m}^3$ ) – March 2024

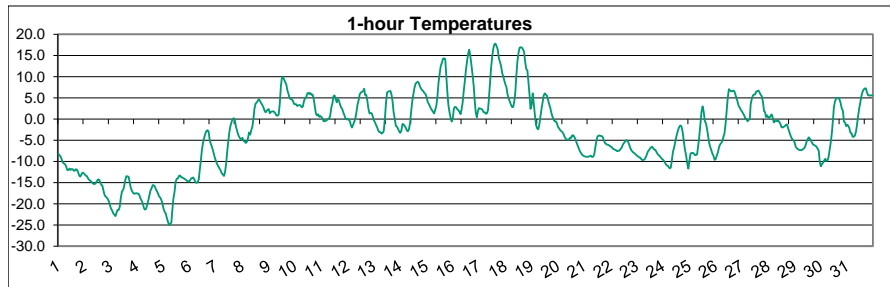
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.7	18.3	10.1	7.1	11.2	9.4	0.0	11.3	9.8	23.2	33.9	22.0	29.7	22.7	31.2	37.4	26.0	20.1	30.9	17.9	22.7	37.4	24.3	19.7	20.2	37.4
2	19.4	32.0	32.2	29.9	22.6	17.8	20.1	21.4	25.0	32.0	34.4	41.9	45.2	44.9	40.3	40.1	27.3	31.9	29.8	13.1	21.0	15.2	11.0	15.8	27.7	45.2
3	10.5	20.2	34.6	19.5	24.9	25.3	29.0	19.7	18.5	28.9	48.5	72.8	31.4	23.5	23.9	24.8	23.5	20.3	13.6	24.4	15.7	25.7	20.7	10.7	25.4	72.8
4	12.9	19.8	11.8	8.9	9.6	17.4	12.2	12.1	8.5	4.1	4.8	7.1	12.4	18.7	18.5	18.1	19.9	49.8	32.7	40.1	33.1	30.0	26.3	15.6	18.5	49.8
5	21.5	89.0	48.8	32.8	50.7	54.8	30.4	25.9	36.0	35.8	81.6	88.6	102.6	63.6	37.3	27.0	24.5	19.5	17.8	18.4	12.8	17.9	34.4	132.4	46.0	132.4
6	128.2	39.4	20.6	34.1	12.9	30.0	35.4	25.2	27.5	66.4	44.5	78.3	80.3	32.3	14.9	14.6	11.1	7.7	8.4	42.2	57.6	39.9	25.8	22.9	37.5	128.2
7	20.8	30.4	16.8	17.8	10.1	8.0	19.4	21.5	14.4	47.4	26.2	58.6	118.4	37.6	15.2	11.9	13.6	9.4	11.6	81.1	138.7	78.8	32.2	161.3	41.7	161.3
8	184.3	245.7	281.6	144.4	161.8	90.6	70.3	74.7	93.4	48.8	49.1	33.0	25.9	43.2	6.3	8.9	8.6	7.9	4.5	3.0	9.9	18.2	7.1	5.7	67.8	281.6
9	39.9	63.5	32.9	3.6	4.9	16.7	30.6	38.0	37.5	71.1	84.0	25.5	62.6	113.4	104.6	71.3	16.4	30.1	40.2	71.3	42.3	23.9	23.4	40.8	45.3	113.4
10	68.0	63.5	59.4	11.3	15.3	27.1	34.9	21.0	46.9	69.3	21.8	77.0	80.1	93.1	28.2	38.3	37.2	23.3	10.2	10.5	21.1	22.1	24.0	17.3	38.4	93.1
11	29.2	21.5	11.4	19.5	24.6	13.1	22.3	62.6	30.8	13.9	31.4	21.9	16.6	40.0	37.1	30.4	30.5	43.1	25.7	28.1	35.1	27.1	12.7	22.8	27.1	62.6
12	24.4	23.0	43.2	28.7	22.1	33.7	23.0	32.4	64.9	97.1	141.0	34.0	17.5	82.7	51.8	10.2	20.4	36.3	18.1	20.5	28.0	31.9	17.9	14.3	38.2	141.0
13	9.3	13.8	13.2	10.6	17.3	8.9	16.0	27.0	52.2	116.3	115.8	45.0	53.1	16.5	13.3	46.7	72.0	57.2	21.5	13.7	29.2	22.5	24.9	17.6	34.7	116.3
14	42.2	30.5	19.3	16.7	17.4	18.6	32.0	46.6	60.8	106.5	166.8	277.4	34.7	25.5	46.8	38.6	21.7	38.0	15.5	18.7	26.7	20.0	19.3	19.1	48.3	277.4
15	42.4	113.4	91.7	64.3	41.4	19.4	43.6	35.5	36.3	48.8	70.5	50.3	81.5	152.7	224.2	18.1	48.4	34.1	101.7	52.5	30.7	35.1	46.6	41.1	63.5	224.2
16	32.9	47.2	53.5	19.7	5.5	13.4	19.7	21.4	55.9	58.7	43.8	52.9	28.3	46.2	14.4	13.8	15.6	38.4	32.1	12.8	15.5	24.9	23.9	31.0	30.1	58.7
17	47.4	50.0	39.1	22.3	15.4	12.6	21.0	39.3	40.2	38.7	36.1	70.4	186.2	45.9	21.4	78.4	190.7	83.5	27.6	30.7	15.8	49.7	113.2	24.4	54.2	190.7
18	20.8	23.3	18.6	9.8	22.5	25.8	20.8	32.7	57.9	48.8	70.9	67.3	112.8	58.4	48.9	38.1	245.4	197.2	60.9	27.3	52.0	87.7	57.0	20.7	59.4	245.4
19	27.0	30.9	33.7	31.5	46.4	50.7	39.1	45.5	129.9	96.8	50.1	12.7	C	C	49.7	69.5	82.3	81.7	60.1	53.9	60.3	38.1	25.0	12.2	51.2	129.9
20	12.4	24.9	6.0	6.3	7.1	10.0	21.0	16.7	18.4	36.4	49.5	59.8	71.4	55.2	28.2	55.9	50.6	32.8	48.0	33.0	34.3	29.9	34.7	18.3	31.7	71.4
21	23.9	18.9	17.3	17.7	15.2	13.5	25.5	32.4	49.1	35.0	44.5	42.1	24.2	57.4	93.2	72.7	44.6	53.9	29.4	26.1	20.9	23.9	28.4	18.9	34.5	93.2
22	16.6	23.0	18.7	4.8	10.2	19.2	11.9	11.1	15.5	38.2	61.9	62.3	50.9	49.5	53.9	50.2	47.4	50.1	46.2	33.4	20.5	15.9	24.6	14.3	31.3	62.3
23	17.4	29.0	21.7	13.3	13.7	19.6	23.3	20.3	21.9	15.9	23.8	23.0	40.0	64.5	45.7	40.3	49.5	27.3	21.7	20.1	21.3	17.3	25.6	23.0	26.6	64.5
24	20.4	22.3	23.6	22.6	21.8	22.8	19.5	21.6	20.0	25.1	33.1	29.8	27.9	14.9	17.2	14.3	12.0	13.0	15.3	21.0	17.6	19.8	20.4	9.1	20.2	33.1
25	13.9	27.3	38.1	57.1	22.9	33.5	78.0	80.1	103.0	94.7	116.8	121.1	76.3	72.8	51.8	20.9	23.3	20.6	17.5	19.6	10.7	26.9	38.1	44.8	50.4	121.1
26	29.3	29.2	62.6	53.5	42.3	37.9	34.4	37.4	44.3	54.2	66.8	57.3	73.7	14.2	17.0	88.1	54.6	30.0	24.7	35.9	20.0	43.0	23.8	30.9	41.9	88.1
27	35.0	73.6	22.0	17.5	18.0	22.2	22.0	34.0	60.1	92.0	122.5	72.6	29.7	28.8	85.4	39.5	48.3	33.0	28.6	48.9	29.2	22.0	20.5	29.2	43.1	122.5
28	29.7	26.3	19.1	14.8	32.6	32.6	16.7	35.5	25.3	24.3	16.7	16.1	64.9	84.2	54.3	27.8	30.2	14.1	18.3	51.2	44.3	24.6	9.2	32.0	31.0	84.2
29	27.0	40.7	18.0	21.2	15.8	15.7	9.2	16.2	14.8	23.6	26.0	23.1	31.3	36.8	50.8	78.1	80.1	59.9	37.6	21.6	29.2	14.3	23.1	25.8	30.8	80.1
30	18.7	22.6	15.8	22.5	38.3	22.1	23.5	28.7	11.6	50.6	77.4	51.6	70.8	17.8	60.4	55.0	60.5	47.1	58.6	30.0	21.1	18.1	18.7	13.4	35.6	77.4
31	27.8	26.9	12.5	13.1	9.8	7.5	14.3	22.9	23.1	43.4	65.5	41.4	22.1	23.1	39.7	55.1	99.3	81.9	16.6	34.6	26.0	9.0	14.9	14.1	31.0	99.3
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	742	100.0%
MEAN	34.3	43.2	37.0	25.7	25.3	24.2	26.4	31.3	40.4	51.2	60.0	56.0	56.8	49.3	46.0	39.8	49.5	41.7	29.8	30.8	31.1	29.4	27.5	29.7		
MAX	184.3	245.7	281.6	144.4	161.8	90.6	78.0	80.1	129.9	116.3	166.8	277.4	186.2	152.7	224.2	88.1	245.4	197.2	101.7	81.1	138.7	87.7	113.2	161.3		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	741
Maximum 1-HR Average	281.6 UG/M3
Maximum 24-HR Average	67.8 UG/M3
Monthly Calibration	2
Standard Deviation	33.5
Operational time	744 HRS
Operational Uptime	100.0 %
Monthly Average	38.1 UG/M3

# Lagoon Temperature (°C) – March 2024

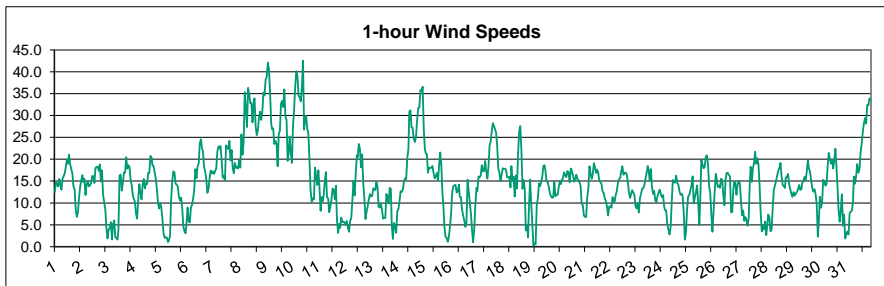
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	-8.3	-8.5	-9.0	-9.5	-10.2	-10.5	-10.7	-11.1	-12.0	-12.0	-11.7	-12.0	-11.8	-11.9	-12.2	-12.2	-11.9	-12.0	-12.5	-13.3	-13.6	-13.1	-12.7	-12.8	-11.5	-8.3	
2	-13.1	-13.4	-13.5	-14.1	-14.3	-14.5	-14.7	-15.1	-15.3	-15.4	-15.1	-14.7	-14.3	-14.3	-14.8	-15.5	-15.7	-16.7	-17.7	-18.3	-18.5	-18.9	-19.4	-20.3	-15.7	-13.1	
3	-21.2	-21.6	-22.3	-22.6	-22.9	-22.2	-21.5	-21.5	-20.7	-18.5	-17.1	-16.8	-15.9	-14.4	-13.5	-13.5	-13.7	-14.9	-16.1	-16.9	-17.3	-17.6	-17.6	-17.5	-18.2	-13.5	
4	-17.6	-17.6	-18.1	-18.8	-19.4	-20.0	-20.9	-21.4	-21.2	-20.3	-19.3	-18.1	-16.9	-16.3	-15.6	-15.6	-16.0	-16.7	-17.1	-17.6	-18.3	-18.6	-19.1	-20.0	-18.3	-15.6	
5	-21.2	-21.9	-22.3	-23.4	-24.3	-25.0	-24.8	-24.4	-21.6	-18.8	-17.3	-14.8	-14.1	-14.0	-13.5	-13.3	-13.7	-13.8	-13.9	-14.1	-14.3	-14.5	-14.7	-14.8	-17.9	-13.3	
6	-14.5	-14.1	-13.9	-13.8	-14.3	-14.9	-15.0	-14.9	-14.2	-12.2	-10.0	-7.4	-5.6	-4.5	-3.5	-2.8	-2.6	-2.9	-4.9	-5.9	-6.5	-7.3	-8.2	-9.3	-9.3	-2.6	
7	-10.0	-10.7	-11.2	-11.6	-12.1	-12.8	-13.0	-13.4	-12.6	-10.5	-8.1	-5.5	-3.2	-1.7	-0.7	0.0	0.2	-0.2	-1.8	-2.7	-3.7	-4.3	-4.7	-4.7	-6.6	0.2	
8	-4.4	-5.1	-5.3	-5.6	-5.4	-4.5	-3.2	-3.7	-2.6	-1.7	0.3	2.4	3.6	3.9	4.3	4.7	4.3	3.8	3.4	2.8	2.0	1.6	1.9	2.2	0.0	4.7	
9	2.4	1.4	1.7	1.8	1.8	1.7	1.3	0.9	0.8	1.1	3.7	7.9	9.6	10.0	9.4	8.8	8.2	6.8	5.9	5.0	4.7	4.7	4.3	3.6	4.5	10.0	
10	3.5	3.5	3.1	3.2	3.3	3.2	2.8	2.9	4.1	4.9	5.1	6.0	6.2	5.9	6.2	5.7	5.8	4.8	3.1	1.3	0.9	1.1	0.5	0.8	3.7	6.2	
11	0.5	0.2	-0.5	-0.5	-0.4	-0.3	0.0	0.1	0.7	2.7	3.7	5.4	5.6	4.7	4.0	4.7	4.4	3.5	2.8	2.4	1.6	0.9	0.1	-0.1	1.9	5.6	
12	0.1	-0.2	-0.5	-1.4	-2.0	-1.4	-0.7	0.1	1.5	3.4	4.4	5.9	6.3	6.4	6.6	7.2	5.7	5.7	4.4	2.5	1.3	1.5	1.3	0.5	2.4	7.2	
13	-0.3	-0.8	-1.5	-2.0	-2.7	-3.1	-3.1	-3.4	-3.3	-2.7	0.0	3.9	6.3	6.5	6.6	6.7	5.7	4.4	1.7	0.2	-1.6	-1.8	-2.3	-2.9	0.4	6.7	
14	-3.3	-2.7	-1.2	-1.3	-1.6	-2.1	-2.6	-2.9	-2.4	-1.0	1.9	4.2	5.9	7.4	8.4	8.7	8.9	8.4	7.8	7.2	6.9	6.7	6.2	5.9	3.1	8.9	
15	5.3	4.1	3.6	3.0	2.5	2.1	1.6	1.3	2.2	3.1	5.4	8.7	10.7	12.6	13.3	14.3	14.3	14.2	10.1	6.7	3.4	1.7	0.3	-0.6	6.0	14.3	
16	0.2	2.5	2.9	2.8	2.3	2.1	1.7	1.2	2.2	3.8	6.5	8.9	11.6	13.6	15.5	16.4	14.7	12.6	10.4	7.7	4.0	1.6	0.4	2.0	6.1	16.4	
17	2.6	2.5	2.4	2.2	1.6	1.6	1.3	1.3	2.1	4.6	8.4	12.1	14.8	16.7	17.7	17.8	17.2	16.4	14.4	13.5	12.5	10.8	10.2	9.1	8.9	17.8	
18	8.2	7.5	5.8	4.9	4.1	3.4	2.8	2.9	4.1	6.5	9.9	13.5	15.6	16.8	17.0	16.9	16.5	15.9	13.5	11.8	11.5	8.6	5.5	2.4	9.4	17.0	
19	3.3	6.0	3.5	0.8	-1.4	-2.2	-2.4	-1.2	0.7	2.6	4.2	5.5	6.1	5.8	5.5	4.5	3.5	2.6	1.4	0.5	-0.1	-0.6	-0.5	-1.1	2.0	6.1	
20	-1.8	-2.1	-2.6	-2.8	-3.1	-3.5	-4.1	-4.6	-4.8	-4.9	-4.8	-4.4	-4.4	-3.9	-3.9	-4.2	-4.8	-5.6	-6.3	-7.0	-7.6	-8.1	-8.4	-8.6	-4.8	-1.8	
21	-8.8	-8.9	-8.9	-8.9	-8.9	-8.8	-8.7	-9.0	-8.9	-8.4	-6.7	-5.2	-4.1	-3.9	-3.8	-4.0	-4.0	-4.3	-5.1	-5.7	-5.9	-6.1	-6.1	-6.3	-6.6	-3.8	
22	-6.5	-6.7	-6.9	-7.1	-7.2	-7.4	-7.6	-7.5	-7.5	-7.1	-6.8	-6.2	-5.7	-5.4	-5.0	-5.0	-5.3	-6.0	-6.8	-7.4	-7.7	-8.0	-8.1	-8.4	-6.8	-5.0	
23	-8.6	-8.8	-9.1	-9.1	-9.4	-9.7	-9.7	-9.5	-9.1	-8.4	-7.7	-7.4	-7.0	-6.7	-6.5	-7.0	-7.2	-7.3	-7.8	-8.2	-8.5	-8.8	-9.1	-9.4	-8.3	-6.5	
24	-9.7	-10.0	-10.5	-10.9	-11.0	-11.3	-11.6	-11.5	-9.7	-7.7	-6.7	-5.4	-4.2	-3.1	-2.2	-1.6	-1.5	-1.9	-3.3	-5.4	-7.3	-8.6	-10.5	-11.7	-7.4	-1.5	
25	-9.8	-8.1	-8.0	-8.0	-8.1	-8.6	-8.5	-8.4	-6.4	-4.2	-1.3	1.7	3.0	1.7	-0.5	-1.0	-2.4	-4.0	-5.5	-6.5	-7.3	-8.1	-8.7	-9.7	-5.3	3.0	
26	-9.4	-8.5	-7.8	-6.6	-6.0	-5.7	-5.2	-4.3	-3.4	-1.2	1.8	5.1	7.1	6.8	6.6	6.5	6.7	6.5	5.7	4.8	4.1	3.1	2.7	2.2	0.5	7.1	
27	1.8	1.3	0.9	0.2	0.0	-0.5	-0.2	0.1	3.5	4.7	5.6	5.8	5.8	6.6	6.6	6.8	6.3	5.7	5.4	4.1	1.9	1.7	0.5	0.9	3.1	6.8	
28	0.3	0.3	0.8	1.1	0.4	-0.8	-0.5	-0.5	-0.5	-0.3	-0.7	-1.1	-1.9	-2.0	-1.8	-1.7	-1.4	-1.3	-2.2	-2.9	-3.8	-4.4	-4.7	-5.0	-1.4	1.1	
29	-5.5	-6.5	-6.9	-7.1	-7.3	-7.3	-7.4	-7.2	-7.0	-6.8	-6.1	-5.4	-4.8	-4.3	-4.6	-5.2	-5.6	-6.1	-6.2	-6.3	-6.6	-7.0	-7.6	-10.0	-6.4	-4.3	
30	-11.2	-10.6	-10.3	-9.8	-9.4	-9.9	-9.9	-8.9	-7.1	-5.4	-3.0	0.1	2.9	4.2	4.9	5.0	5.0	4.7	3.8	2.5	2.0	-0.6	-0.9	-1.7	-2.7	5.0	
31	-1.3	-1.6	-2.1	-3.2	-3.4	-4.2	-4.2	-3.9	-3.0	-1.1	0.9	2.7	4.1	5.4	6.4	7.0	7.2	7.3	6.4	5.6	5.6	5.5	5.6	5.6	2.0	7.3	
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	-5.1	-5.1	-5.4	-5.7	-6.1	-6.4	-6.4	-6.4	-5.5	-4.2	-2.6	-0.8	0.4	0.9	1.2	1.2	0.9	0.3	-0.9	-1.9	-2.8	-3.4	-4.0	-4.5			
MAX	8.2	7.5	5.8	4.9	4.1	3.4	2.8	2.9	4.1	6.5	9.9	13.5	15.6	16.8	17.7	17.8	17.2	16.4	14.4	13.5	12.5	10.8	10.2	9.1			



Number of Non-Zero Readings	744		
Maximum 1-HR Average	17.8 C		
Maximum 24-HR Average	9.4 C		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	8.54	Operational Uptime	100.0 %
		Monthly Average	-3.0 C

# Lagoon Wind Speed (km/hr) – March 2024

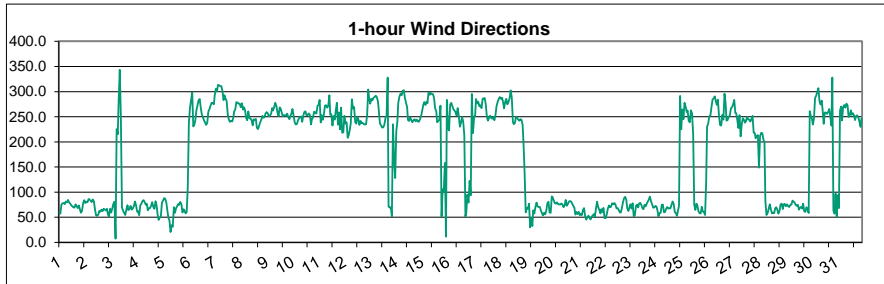
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	12.5	14.8	14.4	13.8	15.5	14.0	13.0	15.7	16.1	16.9	18.4	19.9	18.9	21.0	18.8	17.7	16.7	13.7	13.3	8.5	6.8	7.8	11.2	13.8	14.7	21.0
2	15.2	16.4	14.8	15.5	11.8	14.3	15.0	13.8	14.0	14.6	16.2	16.1	14.6	18.1	18.2	18.3	17.3	18.9	14.9	17.5	11.9	10.2	8.6	4.3	14.6	18.9
3	1.9	3.9	4.3	5.6	1.7	5.2	6.0	2.1	2.1	1.6	3.8	16.2	16.5	12.8	14.7	17.0	17.0	20.5	17.8	18.7	18.2	15.3	14.0	11.7	10.3	20.5
4	10.9	10.3	7.6	6.4	10.7	14.3	12.4	10.8	14.2	15.5	13.3	14.5	14.3	16.9	16.8	20.7	20.4	18.6	18.4	17.0	15.6	13.2	10.0	8.7	13.8	20.7
5	10.0	8.9	6.3	3.0	2.0	2.1	2.1	1.1	1.4	2.4	10.8	15.1	17.2	17.0	14.4	14.2	13.8	11.5	10.5	11.2	8.8	4.6	3.4	3.0	8.1	17.2
6	5.2	9.0	5.8	5.5	8.9	9.6	10.9	13.2	17.7	15.7	18.4	19.1	23.6	24.5	22.4	21.8	18.2	17.3	15.4	12.3	13.1	15.6	17.4	16.8	14.9	24.5
7	17.2	16.6	17.2	18.0	21.8	22.9	22.5	23.0	19.8	15.8	16.1	15.1	23.2	22.8	22.3	24.2	19.7	22.1	17.9	16.8	19.2	18.1	18.2	17.9	19.5	24.2
8	19.7	18.1	25.7	21.0	23.9	35.3	31.6	27.4	36.3	34.9	32.8	32.9	28.4	32.9	33.9	27.5	25.5	26.6	29.5	30.9	29.0	30.8	35.2	34.6	29.3	36.3
9	38.3	38.9	42.1	40.4	35.2	28.2	26.9	27.0	23.5	24.2	23.5	18.4	25.8	26.5	32.7	33.3	32.0	35.9	29.8	29.0	19.6	21.2	25.2	21.5	29.1	42.1
10	19.2	27.6	31.4	36.7	40.1	39.0	34.5	34.2	33.2	36.5	42.5	26.8	29.6	29.9	26.9	26.0	19.9	12.9	10.3	11.1	10.8	18.1	16.0	14.1	26.1	42.5
11	17.4	13.6	8.2	11.3	10.4	11.8	15.0	17.1	11.3	11.0	7.9	9.1	10.9	13.3	13.0	10.9	13.9	5.8	3.2	5.2	4.3	6.7	5.6	5.7	10.1	17.4
12	5.5	5.1	5.9	4.3	3.4	5.9	6.6	10.6	15.0	11.7	16.5	20.9	20.4	23.5	22.4	18.1	21.1	14.3	11.0	6.3	8.0	9.2	10.9	12.0	12.0	23.5
13	11.4	11.6	13.3	13.2	12.9	14.8	13.8	9.1	8.9	9.9	8.5	6.4	6.6	6.6	12.1	11.2	9.9	13.4	13.2	5.1	1.8	5.5	4.6	3.2	9.5	14.8
14	8.1	8.6	10.5	12.7	12.5	13.1	14.9	15.6	15.5	20.3	22.4	30.8	31.2	27.3	27.1	24.7	24.0	25.0	28.8	31.7	31.8	35.8	35.6	36.6	22.7	36.6
15	26.9	22.3	21.3	21.1	16.9	18.1	17.9	18.1	18.4	16.8	15.7	16.1	16.9	15.1	18.6	21.5	18.5	12.2	9.5	4.5	2.3	2.0	1.1	2.3	14.8	26.9
16	4.7	7.7	12.5	13.8	14.0	14.1	12.4	12.7	14.2	11.4	11.3	8.6	7.1	6.1	4.5	5.5	15.3	12.7	10.2	7.6	3.8	1.0	4.0	9.6	9.4	15.3
17	13.4	12.7	16.1	15.8	16.3	18.6	17.2	17.3	19.6	17.1	15.6	18.3	23.2	24.0	26.6	28.2	27.6	26.9	26.2	23.2	17.9	16.9	15.0	16.4	19.6	28.2
18	17.9	17.8	17.8	17.6	15.8	15.9	16.0	13.6	18.5	15.0	16.0	11.5	16.3	13.3	21.2	26.3	27.6	22.1	13.2	15.2	13.3	3.7	5.0	2.1	15.5	27.6
19	8.9	15.3	10.1	5.3	0.2	0.8	0.5	9.5	11.0	14.5	13.8	14.8	16.0	18.4	18.6	17.4	15.0	14.7	13.8	12.3	11.5	11.2	11.3	14.8	11.7	18.6
20	11.6	11.9	11.9	13.7	15.0	14.3	15.4	15.6	17.0	16.4	15.9	17.3	16.9	14.7	17.9	17.3	16.3	14.9	15.5	16.4	15.4	15.2	14.8	14.0	15.2	17.9
21	9.9	9.5	7.1	6.8	6.8	11.3	13.3	18.4	16.7	15.5	16.6	19.1	18.1	16.9	17.6	17.0	15.2	14.8	14.4	12.6	12.3	11.1	10.3	9.2	13.4	19.1
22	7.1	9.2	9.3	8.9	11.4	10.3	10.2	11.8	12.7	14.6	15.4	15.7	17.3	18.4	16.5	16.9	16.9	16.5	14.6	12.3	11.1	12.0	12.9	12.4	13.1	18.4
23	11.9	9.3	8.7	9.9	7.9	11.0	12.1	13.2	13.4	14.1	15.6	16.8	18.4	17.6	15.1	17.8	13.7	12.0	12.7	10.6	10.1	11.6	12.4	13.0	12.9	18.4
24	12.1	11.3	11.8	9.1	8.3	8.3	5.2	4.0	2.8	4.4	10.3	15.2	14.8	14.6	16.3	14.6	14.1	12.6	11.9	12.1	11.5	7.9	1.6	3.2	9.9	16.3
25	8.5	11.5	11.8	12.9	14.1	16.1	9.9	11.3	12.5	14.0	10.0	4.9	10.3	19.8	18.9	17.9	18.2	20.5	20.9	18.9	13.8	12.3	7.5	3.4	13.3	20.9
26	7.9	12.5	16.6	15.6	13.6	14.0	13.5	15.5	13.5	11.7	9.5	15.4	16.9	16.9	16.4	16.0	7.9	7.9	13.2	14.8	14.6	11.9	14.1	15.1	13.6	16.9
27	14.6	10.8	7.2	8.3	5.9	6.8	6.1	4.8	6.4	14.5	18.3	14.8	17.9	19.1	21.7	19.0	20.2	18.9	14.0	7.7	3.5	4.8	4.0	5.8	11.5	21.7
28	2.7	5.1	7.3	6.7	3.5	3.9	8.8	12.9	13.9	15.1	16.2	17.4	18.0	19.2	16.1	14.1	13.9	13.4	15.9	16.0	16.7	14.2	13.2	12.1	12.3	19.2
29	11.4	12.5	11.7	12.1	12.5	13.2	14.1	13.0	13.2	14.6	15.0	15.9	15.2	17.0	19.7	17.8	17.2	15.1	13.3	12.6	13.1	12.0	9.7	2.3	13.5	19.7
30	6.4	11.4	8.9	10.1	15.3	15.0	14.0	14.3	18.3	21.5	20.0	19.0	19.9	17.9	19.8	22.4	18.9	14.2	8.5	5.7	8.1	12.0	4.8	7.3	13.9	22.4
31	1.9	2.8	3.5	2.8	7.7	8.0	8.2	10.3	16.0	14.4	16.0	18.9	16.9	17.5	21.5	23.5	26.2	28.2	29.4	28.1	32.4	32.3	33.9	33.6	18.1	33.9
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	11.9	12.8	12.9	12.8	12.8	13.9	13.5	14.1	15.1	15.4	16.2	16.8	18.1	18.7	19.4	19.3	18.4	17.2	15.8	14.6	13.2	13.0	12.6	12.3		
MAX	38.3	38.9	42.1	40.4	40.1	39.0	34.5	34.2	36.3	36.5	42.5	32.9	31.2	32.9	33.9	33.3	32.0	35.9	29.8	31.7	32.4	35.8	35.6	36.6		



Number of Non-Zero Readings	744
Maximum 1-HR Average	42.5 KM/HR
Maximum 24-HR Average	29.3 KM/HR
Monthly Calibration	0
Standard Deviation	7.605
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	15.0 KM/HR

# Lagoon Wind Direction (°) – March 2024

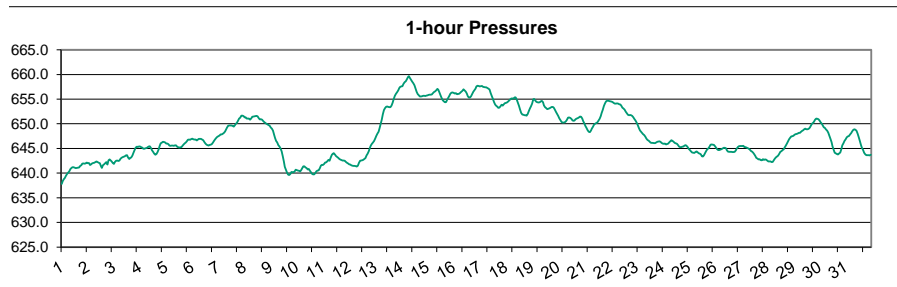
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	59.1	57.0	75.0	77.8	78.1	75.9	81.1	79.7	84.4	79.0	77.4	74.2	71.5	69.9	69.2	75.7	71.9	68.1	73.4	66.6	58.7	62.3	77.4	83.8	73.5	84.4
2	78.2	80.9	80.2	86.2	85.1	83.2	79.9	85.2	81.4	65.0	53.6	52.9	55.5	62.4	60.9	65.2	61.8	66.6	65.3	63.4	66.9	55.2	50.8	66.8	68.9	86.2
3	59.2	67.2	76.4	80.9	7.1	225.2	215.0	280.4	343.5	249.5	69.4	62.6	58.5	54.3	65.1	73.7	64.3	66.3	72.4	64.8	67.7	72.0	81.4	72.8	67.9	343.5
4	61.2	61.8	53.9	73.2	76.9	82.0	83.9	80.1	74.6	76.5	63.9	67.5	68.3	73.0	79.8	70.2	66.9	81.6	72.9	56.5	44.8	49.1	51.3	78.8	69.1	83.9
5	83.1	87.8	86.7	78.7	65.0	49.5	43.6	20.5	34.2	31.2	69.7	59.0	67.9	71.0	75.9	74.6	80.5	76.2	59.1	66.1	62.4	57.5	60.0	110.6	70.5	110.6
6	238.4	267.7	283.4	298.4	230.7	234.5	242.4	263.0	273.0	282.4	285.4	267.0	253.4	248.9	241.9	238.9	233.6	237.5	259.9	264.8	272.2	277.9	277.2	274.5	259.2	298.4
7	292.8	305.6	301.3	313.3	312.6	310.7	310.7	301.3	282.9	292.7	286.3	281.5	254.3	244.4	239.9	242.1	240.2	247.8	260.7	264.5	279.2	278.2	276.2	276.2	278.2	313.3
8	268.9	276.7	264.3	269.0	263.8	248.1	242.9	260.6	247.0	246.6	242.9	233.0	244.9	243.9	245.8	228.0	225.3	232.1	238.8	244.3	251.9	248.2	248.9	256.1	247.7	276.7
9	259.2	257.2	250.7	252.3	255.9	267.2	262.2	268.9	277.9	271.6	258.5	251.0	268.6	265.3	257.0	250.9	253.3	252.8	252.3	256.3	249.3	245.0	252.0	257.7	257.7	277.9
10	265.4	252.1	239.1	234.4	235.6	243.1	247.0	249.6	250.5	240.0	252.1	259.7	260.8	252.6	253.7	256.8	252.9	234.5	245.0	248.5	260.0	258.5	256.3	271.1	249.4	271.1
11	274.0	283.7	238.5	253.1	243.8	254.1	271.9	272.7	268.0	271.7	292.8	254.5	254.8	232.4	251.4	244.5	261.9	277.7	234.2	258.2	225.0	267.9	218.1	218.7	258.7	292.8
12	251.9	236.5	239.2	208.1	214.0	222.8	237.3	284.9	266.5	269.2	239.1	236.4	250.1	243.3	233.9	241.5	237.4	237.5	235.2	234.4	235.1	253.4	304.0	286.9	247.0	304.0
13	276.0	285.9	282.6	288.1	289.0	291.9	288.7	280.2	261.3	236.8	232.9	228.6	229.0	234.2	247.3	252.1	327.8	71.7	69.0	69.8	51.6	235.1	164.5	128.1	272.3	327.8
14	221.3	241.4	277.7	289.8	295.9	292.7	301.6	302.7	287.3	277.7	269.0	243.3	241.8	248.5	243.6	239.1	243.6	244.6	240.8	244.3	241.3	239.8	244.9	251.1	253.7	302.7
15	260.9	273.4	279.1	273.2	280.0	276.9	298.4	293.8	297.1	295.3	295.0	287.6	266.3	261.2	239.1	241.5	243.2	272.1	51.2	105.7	101.2	157.9	11.2	283.4	274.3	298.4
16	227.7	222.7	274.2	277.7	270.6	264.7	262.1	258.2	252.7	267.2	250.7	230.0	238.0	249.7	239.8	212.8	51.4	59.9	94.9	78.9	122.4	93.6	295.6	217.2	255.2	295.6
17	247.3	253.6	285.4	276.6	280.0	270.8	272.8	267.1	286.0	285.9	287.6	275.2	250.5	242.2	247.9	252.3	247.2	246.2	249.5	243.0	253.0	271.4	279.6	285.8	262.4	287.6
18	289.4	285.9	288.0	277.9	266.7	279.6	285.7	274.5	280.1	286.7	302.3	287.9	239.5	234.9	237.6	250.1	248.0	244.4	241.9	245.3	243.9	233.5	197.3	137.6	263.7	302.3
19	59.8	68.3	67.0	77.0	29.9	47.8	32.6	63.7	57.4	70.3	79.2	71.3	70.1	70.3	62.7	57.4	53.6	58.9	55.7	62.8	77.5	80.8	59.4	59.0	65.3	80.8
20	91.6	89.5	83.2	77.9	76.9	79.5	75.7	75.6	75.2	77.5	75.7	69.8	73.3	84.3	73.1	76.3	81.5	82.0	81.0	77.2	73.0	69.5	55.4	60.4	76.1	91.6
21	56.3	60.7	54.1	56.6	54.1	64.0	68.2	52.1	45.4	49.6	53.3	48.3	45.7	51.1	53.1	56.2	51.1	67.1	81.0	70.3	64.4	57.6	65.9	60.2	56.9	81.0
22	68.4	48.3	48.4	56.3	67.1	73.4	69.9	70.8	77.9	75.6	78.3	75.6	67.6	68.1	64.6	59.9	59.5	67.2	79.3	87.3	90.4	85.4	67.3	62.5	69.8	90.4
23	70.3	75.8	67.3	77.9	51.7	53.5	72.5	75.0	69.4	76.9	78.5	75.3	68.1	65.8	74.8	71.8	76.7	81.5	84.8	90.9	82.4	76.2	69.1	69.5	73.3	90.9
24	72.5	71.2	62.4	51.6	57.8	58.8	74.5	75.2	59.7	60.6	67.4	70.3	67.3	67.5	67.6	74.7	81.3	75.9	60.3	57.9	52.7	62.3	72.3	291.5	66.1	291.5
25	225.0	264.4	245.2	277.6	270.2	259.1	262.3	241.5	239.0	263.0	256.6	216.1	74.9	64.4	76.7	73.6	62.1	58.0	57.6	70.6	61.5	59.7	54.6	121.5	43.4	277.6
26	230.1	236.1	251.1	252.2	269.5	284.3	286.4	290.5	280.4	274.0	283.9	252.3	233.3	232.5	253.5	244.1	295.8	277.0	241.9	243.5	249.8	252.4	266.6	268.8	259.1	295.8
27	274.6	283.7	257.4	257.2	242.9	227.7	253.3	210.9	235.1	247.1	243.8	238.3	241.3	249.7	244.6	244.3	240.5	245.2	251.6	218.3	217.6	207.3	211.3	213.5	244.4	283.7
28	148.5	211.9	218.0	217.6	205.3	199.0	82.1	54.3	57.8	66.6	75.5	65.5	57.6	59.2	58.0	67.3	69.8	64.8	56.9	62.5	75.4	77.1	66.3	75.5	69.7	218.0
29	76.5	71.8	75.7	72.1	70.5	74.7	75.1	83.1	81.3	79.4	74.5	72.4	74.5	64.9	68.8	70.4	67.4	77.1	61.3	60.7	70.0	65.1	58.5	260.9	71.5	260.9
30	250.7	246.0	234.4	245.9	287.4	291.7	298.7	306.9	280.8	274.3	282.3	264.7	236.1	258.2	258.6	255.9	259.4	265.4	250.5	232.3	328.1	63.4	57.0	96.7	269.1	328.1
31	50.3	93.7	67.9	262.7	270.2	242.5	268.8	273.2	268.1	275.8	273.1	249.5	252.8	262.9	253.8	257.2	253.3	243.4	251.9	252.5	248.4	240.3	229.8	247.1	252.2	275.8
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	173.8	181.2	180.9	190.0	184.0	191.3	191.8	193.4	192.8	190.8	185.5	174.9	165.7	165.5	165.8	165.1	163.3	157.5	149.4	150.4	154.1	153.3	151.0	175.6		
MAX	292.8	305.6	301.3	313.3	312.6	310.7	310.7	306.9	343.5	295.3	302.3	287.9	268.6	265.3	258.6	257.2	327.8	277.7	260.7	264.8	328.1	278.2	304.0	291.5		



Number of Non-Zero Readings	744
Maximum 1-HR Average	344 degrees
Maximum 24-HR Average	278 degrees
Monthly Calibration	0
Standard Deviation	95.88
Operational Time	744 HRS
Operational Uptime	100.0 %
Monthly Average	172.8 degrees

# Lagoon Pressure (mmHg) – March 2024

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	637.8	638.3	638.8	639.0	639.5	639.8	640.1	640.4	640.8	641.1	641.2	641.2	641.1	641.0	641.1	641.1	641.2	641.5	641.6	641.9	641.9	641.9	642.0	642.1	640.7	642.1
2	642.0	642.1	641.6	641.8	641.9	642.0	642.1	642.3	642.4	642.2	642.1	642.0	641.4	641.0	641.6	641.8	642.0	642.2	641.7	642.6	642.8	642.6	642.4	642.1	642.0	642.8
3	641.9	642.3	642.5	642.6	642.5	642.5	642.9	643.1	643.2	643.3	643.4	643.6	643.6	643.1	642.9	643.1	643.2	643.6	644.1	644.7	645.2	645.3	645.3	645.4	643.5	645.4
4	645.4	645.3	645.2	645.0	644.9	645.0	645.1	645.3	645.4	645.5	645.1	644.7	644.3	644.0	643.7	643.9	644.3	644.8	645.5	646.0	646.2	646.4	646.3	646.2	645.1	646.4
5	646.0	646.0	645.8	645.6	645.5	645.6	645.6	645.5	645.6	645.6	645.3	645.3	645.2	645.2	645.3	645.6	645.8	646.0	646.2	646.5	646.8	646.8	646.8	646.9	645.9	646.9
6	647.0	646.8	646.8	646.8	646.6	646.8	646.9	646.9	646.8	646.7	646.3	646.0	645.8	645.7	645.6	645.7	645.8	645.9	646.2	646.6	646.9	647.2	647.3	646.5	647.3	
7	647.5	647.6	647.9	647.9	648.0	648.2	648.4	648.9	649.2	649.6	649.7	649.6	649.7	649.6	649.4	649.7	650.0	650.2	650.6	651.1	651.2	651.7	651.6	651.6	649.5	651.7
8	651.3	651.3	651.1	651.0	651.1	650.8	651.1	651.4	651.5	651.5	651.6	651.6	651.5	651.1	650.9	650.9	650.8	650.5	650.3	650.2	650.0	649.9	649.8	649.6	650.9	651.6
9	649.3	649.0	648.6	647.8	647.2	646.6	646.2	645.7	645.4	645.0	644.4	643.4	642.3	641.3	640.7	640.1	639.7	639.6	639.8	640.2	640.2	640.2	640.3	640.7	643.5	649.3
10	640.6	640.5	640.5	640.3	640.7	641.1	641.4	641.4	641.1	641.0	640.7	640.8	640.5	640.2	639.8	639.7	639.7	640.0	640.4	640.5	640.5	641.0	641.5	641.7	640.6	641.7
11	641.7	641.8	642.1	642.2	642.4	642.7	642.5	643.1	643.7	643.9	644.1	643.8	643.5	643.3	643.1	642.9	642.7	642.6	642.6	642.6	642.5	642.3	642.1	642.0	642.8	644.1
12	641.8	641.7	641.6	641.5	641.4	641.5	641.4	641.3	641.5	642.1	642.5	642.5	642.6	642.7	642.9	643.0	643.6	643.9	644.5	645.1	645.6	646.0	646.2	646.6	643.1	646.6
13	647.0	647.6	648.0	648.4	649.2	649.9	650.8	651.9	652.8	653.2	653.5	653.5	653.4	653.4	653.4	653.7	654.3	655.0	655.7	656.1	656.4	656.8	657.3	657.5	652.9	657.5
14	657.6	657.6	658.1	658.4	658.6	659.0	659.5	659.7	659.3	658.9	658.5	658.2	657.8	657.2	656.4	656.0	655.8	655.6	655.5	655.6	655.7	655.7	655.6	655.7	657.3	659.7
15	655.8	655.8	655.9	655.9	656.0	656.2	656.4	656.6	656.8	657.1	656.9	656.4	655.8	655.2	654.8	654.5	654.4	654.4	654.9	655.2	655.6	656.1	656.3	656.4	655.8	657.1
16	656.3	656.1	656.2	656.0	656.0	656.1	656.3	656.5	656.7	657.0	656.8	656.6	656.1	655.7	655.3	655.3	655.6	656.1	656.5	656.8	657.1	657.6	657.7	657.7	656.4	657.7
17	657.6	657.6	657.7	657.5	657.4	657.4	657.4	657.3	657.1	656.9	656.2	655.6	655.1	654.4	653.9	653.7	653.5	653.2	653.3	653.5	653.9	653.7	654.0	654.2	655.5	657.7
18	654.2	654.3	654.5	654.7	655.0	655.1	655.1	655.4	655.3	654.9	654.3	653.6	652.9	652.2	651.9	651.8	651.7	651.8	651.6	652.0	652.6	653.1	653.6	653.6	653.6	655.4
19	654.1	654.9	655.0	654.8	654.5	654.4	654.3	654.4	654.5	654.6	654.4	653.7	653.4	653.2	653.0	653.1	653.2	653.3	653.4	653.4	653.3	652.9	652.4	652.0	653.8	655.0
20	651.6	651.1	650.7	650.4	650.2	650.3	650.3	650.5	650.8	651.2	651.3	651.2	651.0	650.7	650.6	650.7	650.9	651.1	651.2	651.3	651.5	651.4	651.1	650.5	650.9	651.6
21	650.1	649.6	649.1	648.7	648.4	648.3	648.6	649.0	649.4	649.9	650.0	650.1	650.3	650.6	651.0	651.6	652.2	652.8	653.6	654.2	654.6	654.7	654.7	654.6	651.1	654.7
22	654.5	654.5	654.4	654.2	654.1	654.1	654.1	654.1	654.0	653.9	653.7	653.3	653.1	652.9	652.5	652.2	651.8	651.7	651.8	651.7	651.6	651.4	651.0	650.7	653.0	654.5
23	650.3	649.7	649.2	648.6	648.4	648.2	647.9	647.7	647.4	647.0	646.7	646.6	646.4	646.2	646.1	646.1	646.1	646.2	646.4	646.4	646.4	646.4	646.3	646.1	647.2	650.3
24	646.0	646.0	646.0	645.8	645.9	646.0	646.2	646.5	646.7	646.6	646.3	646.1	646.1	646.0	645.7	645.4	645.3	645.3	645.4	645.4	645.6	645.7	645.5	645.2	645.9	646.7
25	644.9	644.7	644.4	644.2	644.1	644.1	644.3	644.4	644.2	644.0	643.9	643.8	643.4	643.4	643.7	644.2	644.5	644.9	645.0	645.4	645.8	645.8	645.8	645.7	644.5	645.8
26	645.5	645.1	644.9	644.7	644.7	644.8	644.9	645.0	645.1	645.1	644.6	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.9	645.3	645.4	645.5	644.5	645.5
27	645.5	645.5	645.5	645.3	645.3	645.2	645.1	644.9	644.8	644.5	644.4	644.1	643.8	643.5	643.1	643.0	642.8	642.8	642.6	642.6	642.8	642.7	642.8	642.7	644.0	645.5
28	642.5	642.4	642.4	642.4	642.2	642.3	642.6	642.9	643.2	643.4	643.6	643.9	644.3	644.5	644.7	644.8	645.2	645.6	646.0	646.4	646.8	647.2	647.5	647.5	644.3	647.5
29	647.6	647.8	647.9	647.9	648.0	648.2	648.2	648.4	648.6	648.7	648.9	649.0	648.9	648.9	649.0	649.2	649.6	650.0	650.2	650.5	650.9	651.1	651.0	650.9	649.1	651.1
30	650.7	650.3	650.0	649.6	649.3	649.1	648.8	648.6	648.2	647.6	646.9	646.3	645.4	644.8	644.1	644.0	643.9	643.8	644.0	644.2	644.9	645.6	646.1	646.6	646.8	650.7
31	646.9	647.3	647.4	647.5	647.8	648.1	648.4	648.8	648.9	648.8	648.6	648.0	647.3	646.5	645.7	645.1	644.7	644.1	643.8	643.6	643.6	643.6	643.6	643.8	646.3	648.9
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	648.1	648.1	648.1	648.0	648.0	648.0	648.2	648.3	648.4	648.4	648.3	648.1	647.8	647.5	647.3	647.3	647.4	647.5	647.7	647.9	648.2	648.3	648.3	648.4		
MAX	657.6	657.6	658.1	658.4	658.6	659.0	659.5	659.7	659.3	658.9	658.5	658.2	657.8	657.2	656.4	656.0	655.8	656.1	656.5	656.8	657.1	657.6	657.7	657.7		

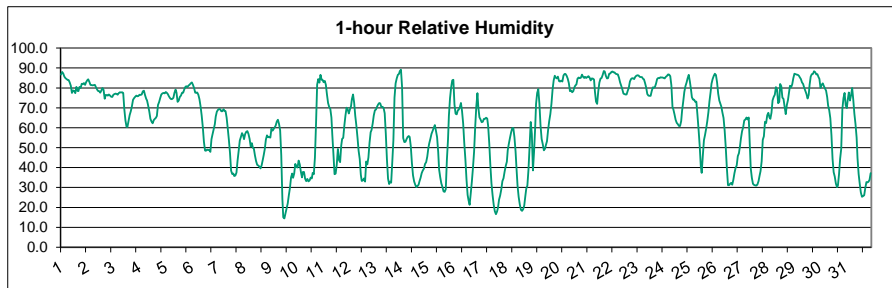


Number of Non-Zero Readings	744	Operational Time	744 HRS
Maximum 1-HR Average	660 MMHG	Operational Uptime	100.0 %
Maximum 24-HR Average	657 MMHG	Monthly Average	648.0 MMHG
Monthly Calibration	0		
Standard Deviation	5.061		



# Lagoon Relative Humidity (%) – March 2024

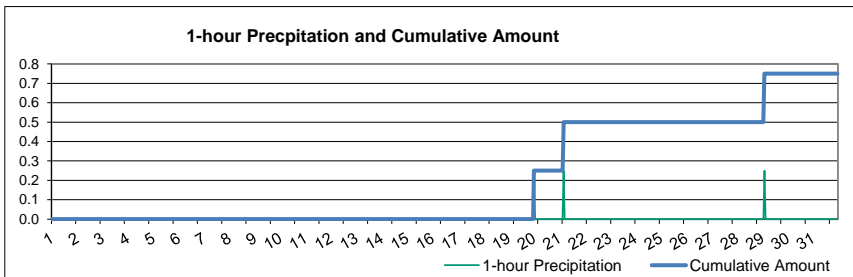
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	86.7	88.0	87.2	85.7	84.9	84.5	84.0	84.0	82.8	81.1	77.5	78.7	78.5	77.4	80.5	78.5	78.4	80.5	80.0	82.1	81.9	82.4	81.5	82.9	82.1	88.0
2	83.9	84.3	83.1	81.5	81.4	81.3	81.5	81.5	80.3	79.2	78.5	78.4	77.6	78.8	80.0	79.0	74.6	76.5	76.4	76.1	76.8	76.2	75.5	75.5	79.1	84.3
3	76.6	77.0	77.2	76.9	76.6	77.4	77.8	77.7	77.8	77.5	69.3	63.7	60.5	60.4	63.4	66.4	68.3	70.7	74.0	74.9	75.6	76.2	75.9	75.9	72.8	77.8
4	76.6	76.5	76.7	78.2	78.6	76.3	74.5	73.6	71.1	68.2	64.5	63.1	62.2	63.8	64.5	65.1	65.9	71.4	72.9	75.0	76.7	77.3	77.5	77.3	72.0	78.6
5	78.0	77.6	76.9	75.8	75.0	74.4	74.5	75.0	77.6	79.2	77.7	72.9	73.7	75.5	76.2	77.7	77.6	79.3	80.5	80.8	80.4	81.2	81.7	82.3	77.6	82.3
6	82.7	81.6	80.0	77.6	77.6	77.8	76.6	74.3	70.8	66.2	60.5	53.1	48.5	48.5	49.0	48.9	48.8	47.8	54.2	56.8	59.3	61.8	65.6	68.1	64.0	82.7
7	69.0	69.4	69.3	68.3	68.3	69.3	68.6	68.4	65.1	59.6	54.0	47.4	38.4	36.7	37.0	35.8	36.0	37.5	43.5	48.4	53.6	55.4	57.3	56.2	54.7	69.4
8	54.2	56.9	57.9	58.3	56.9	54.4	50.6	52.2	50.0	49.6	46.1	43.3	41.4	41.0	40.5	39.6	41.2	43.9	46.1	49.3	54.1	56.2	55.3	55.3	49.8	58.3
9	55.1	59.6	58.6	59.2	60.1	61.1	63.1	64.0	61.9	58.8	46.2	24.4	15.0	14.5	17.0	19.5	22.0	26.1	29.8	35.1	37.0	34.9	37.0	41.8	41.7	64.0
10	40.4	40.0	43.6	41.6	37.9	35.1	37.8	37.8	34.4	33.2	34.4	33.0	33.5	34.9	34.6	37.3	36.6	45.0	62.2	81.7	84.5	82.6	86.6	84.1	48.0	86.6
11	84.1	82.9	83.5	81.7	76.7	72.5	70.5	69.5	65.2	56.4	46.8	36.7	37.0	41.6	49.3	43.8	42.7	51.0	54.4	55.0	61.1	66.2	70.1	69.2	61.2	84.1
12	67.2	69.2	70.8	74.5	76.7	72.5	65.9	61.0	55.1	48.4	44.3	36.3	33.3	33.5	34.6	32.9	43.1	41.6	45.0	52.4	57.7	58.9	62.0	66.2	54.3	76.7
13	68.7	69.2	70.7	71.7	72.5	72.2	70.4	70.6	70.0	67.2	56.9	44.2	34.5	31.8	33.0	32.4	42.7	53.7	75.1	82.3	84.7	86.6	87.1	88.4	64.0	88.4
14	89.1	80.2	54.8	52.9	53.0	54.3	55.4	55.9	55.3	50.8	42.4	36.1	33.0	31.4	30.1	30.7	31.4	33.1	34.8	37.2	38.6	39.5	41.9	42.7	46.0	89.1
15	45.5	49.9	52.2	54.5	57.0	58.4	60.0	61.3	58.4	55.3	47.9	39.2	35.2	32.1	30.3	28.1	27.8	29.1	44.0	54.1	66.0	74.8	80.2	83.7	51.0	83.7
16	84.1	71.7	67.1	66.8	68.7	69.0	70.3	72.4	68.3	62.2	52.2	44.1	34.0	26.2	23.6	21.3	27.0	32.9	40.0	48.0	60.6	70.8	77.4	70.4	55.4	84.1
17	65.3	64.1	62.8	63.0	64.5	64.4	65.0	64.6	60.9	52.3	41.2	32.0	26.1	21.3	18.0	16.5	17.9	19.8	23.9	26.1	29.1	33.2	34.7	38.1	41.9	65.3
18	40.8	43.0	48.0	52.0	55.0	57.6	59.8	59.8	55.3	48.3	38.2	30.8	25.2	21.6	18.8	18.3	19.0	20.9	25.8	29.3	31.0	39.0	50.7	62.9	39.7	62.9
19	56.9	38.6	48.0	60.0	72.0	77.5	79.4	72.1	61.2	54.4	51.8	48.7	49.5	51.2	53.3	58.8	63.3	66.8	72.0	79.0	83.7	86.1	85.2	84.8	64.8	86.1
20	85.6	83.4	83.3	83.7	83.2	86.2	87.0	87.0	86.1	84.7	82.5	78.4	78.7	77.8	78.4	80.3	81.2	81.7	84.7	85.3	84.9	85.2	86.7	85.5	83.4	87.0
21	85.0	85.5	85.0	85.5	85.9	85.3	83.8	84.8	84.6	84.2	78.2	73.1	72.0	78.2	82.6	84.6	85.0	86.6	88.4	88.3	86.2	84.8	84.9	87.1	83.7	88.4
22	87.3	88.0	88.2	87.9	87.9	87.1	86.9	86.8	85.1	82.7	81.1	79.3	77.1	77.0	76.7	76.7	78.5	80.1	83.2	84.5	84.9	84.8	84.5	85.5	83.4	88.2
23	86.1	86.3	86.2	85.6	85.4	85.5	84.5	84.4	82.4	80.1	76.9	76.1	76.0	77.0	78.5	80.3	80.1	80.4	82.0	84.4	85.0	84.9	85.3	85.2	82.4	86.3
24	85.3	85.0	84.8	85.6	86.1	86.8	86.7	85.9	81.3	70.5	69.2	66.7	64.1	62.4	61.8	60.9	60.9	63.4	68.5	73.0	78.0	80.8	82.7	84.9	75.6	86.8
25	86.6	83.2	79.2	75.3	74.1	74.1	73.1	73.1	66.4	59.1	51.0	40.7	37.4	45.8	53.8	56.4	59.5	63.3	67.8	73.4	77.9	82.1	84.4	86.0	67.7	86.6
26	87.1	86.4	82.8	77.1	73.7	72.0	70.6	67.6	65.0	58.7	50.0	39.6	31.2	31.2	31.9	32.3	31.4	33.8	37.2	39.8	41.1	45.7	47.2	50.9	53.5	87.1
27	54.6	58.2	60.2	63.7	64.1	65.1	64.1	65.1	50.8	39.7	34.9	31.8	31.2	31.1	31.0	31.5	33.2	36.1	38.2	43.2	53.9	55.8	63.0	62.3	48.5	65.1
28	66.3	67.5	65.1	64.4	67.5	73.8	75.5	76.6	80.4	79.1	72.3	73.0	82.0	80.8	75.1	74.5	70.5	66.8	71.4	73.9	77.9	81.0	80.3	81.7	74.1	82.0
29	84.9	87.1	86.9	86.7	86.6	86.2	85.4	84.4	82.8	82.0	80.1	78.5	76.9	74.7	76.4	81.6	85.7	86.9	87.1	88.3	87.9	86.8	87.0	85.5	84.0	88.3
30	84.6	80.1	81.6	82.4	81.0	79.7	78.6	75.3	71.2	68.9	64.8	56.4	44.4	37.7	35.5	32.0	30.2	31.0	36.6	44.4	49.6	69.3	74.9	77.5	61.1	84.6
31	71.3	69.9	73.9	77.7	73.7	76.2	80.0	74.0	67.0	61.7	55.1	44.7	36.8	31.8	27.5	25.4	25.6	26.1	29.9	32.8	32.6	32.8	33.9	37.3	49.9	80.0
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	73.2	72.3	71.8	72.1	72.3	72.5	72.3	71.6	68.5	64.5	58.9	53.0	49.8	49.2	49.8	49.9	51.2	53.7	58.4	62.4	65.6	68.2	70.2	71.5		
MAX	89.1	88.0	88.2	87.9	87.9	87.1	87.0	87.0	86.1	84.7	82.5	79.3	82.0	80.8	82.6	84.6	85.7	86.9	88.4	88.3	87.9	86.8	87.1	88.4		



Number of Non-Zero Readings	744
Maximum 1-HR Average	89.1 %
Maximum 24-HR Average	84.0 %
Operational Time	744 HRS
Monthly Calibration	0
Operational Uptime	100.0 %
Standard Deviation	19.29
Monthly Average	63.5 %

# Lagoon Precipitation (mm) – March 2024

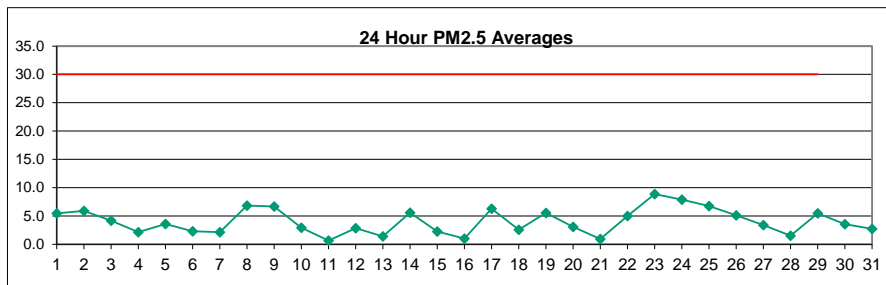
Day	HOUR																								DAILY MAX 24-HOUR TOTAL		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Number of Non-Zero Readings	3		
Maximum 1-HR Average	0.3 MM		
Maximum 24-HR Average	0.3 MM		
Monthly Calibration	0	Operational Time	744 HRS
Standard Deviation	0.016	Operational Uptime	100.0 %
		Monthly Average	0.00 MM

# Windridge PM<sub>2.5</sub> (µg/m<sup>3</sup>) – March 2024

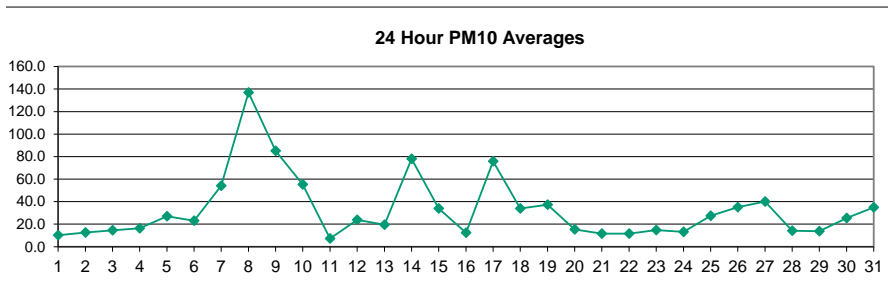
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	4.0	9.0	8.0	8.0	6.0	4.0	8.0	8.0	8.0	7.0	6.0	9.0	11.0	10.0	10.0	10.0	5.5	11.0
2	11.0	12.0	12.0	8.0	4.0	5.0	5.0	5.0	7.0	6.0	5.0	6.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	6.0	4.0	6.0	5.0	5.0	5.9	12.0
3	5.0	5.0	2.0	0.0	3.0	8.0	5.0	2.0	4.0	8.0	9.0	5.0	3.0	4.0	4.0	3.0	2.0	2.0	4.0	4.0	3.0	5.0	6.0	4.0	4.2	9.0
4	3.0	3.0	2.0	2.0	2.0	0.0	0.0	0.0	1.0	3.0	2.0	0.0	0.0	1.0	2.0	2.0	3.0	4.0	3.0	7.0	5.0	2.0	3.0	1.0	2.1	7.0
5	4.0	5.0	4.0	4.0	6.0	3.0	1.0	6.0	7.0	12.0	9.0	4.0	0.0	0.0	1.0	1.0	0.0	5.0	5.0	3.0	1.0	1.0	2.0	2.0	3.6	12.0
6	3.0	3.0	5.0	7.0	4.0	1.0	0.0	1.0	1.0	0.0	1.0	4.0	6.0	4.0	1.0	0.0	7.0	5.0	1.0	0.0	0.0	0.0	1.0	0.0	2.3	7.0
7	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	7.0	7.0	6.0	7.0	5.0	4.0	3.0	0.0	0.0	0.0	2.0	3.0	2.1	7.0
8	6.0	4.0	8.0	11.0	9.0	9.0	9.0	13.0	12.0	16.0	13.0	8.0	2.0	5.0	7.0	2.0	0.0	1.0	3.0	9.0	5.0	2.0	6.0	4.0	6.8	16.0
9	3.0	4.0	10.0	7.0	4.0	2.0	2.0	2.0	1.0	4.0	15.0	7.0	6.0	11.0	8.0	8.0	9.0	12.0	11.0	8.0	9.0	8.0	5.0	4.0	6.7	15.0
10	0.0	5.0	7.0	9.0	5.0	6.0	5.0	1.0	0.0	4.0	13.0	6.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	1.0	0.0	1.0	2.0	0.0	2.9	13.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	3.0	0.0	0.0	3.0	2.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	8.0	5.0	4.0	5.0	6.0	7.0	7.0	4.0	3.0	2.0	5.0	3.0	0.0	2.8	9.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0	4.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0	2.0	0.0	0.0	1.0	3.0	3.0	1.4	5.0
14	3.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	4.0	6.0	5.0	7.0	6.0	11.0	6.0	9.0	22.0	15.0	10.0	11.0	14.0	5.6	22.0
15	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	7.0	5.0	4.0	4.0	9.0	5.0	2.0	2.0	2.0	2.0	0.0	0.0	2.3	9.0
16	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	3.0	3.0	2.0	2.0	2.0	0.0	0.0	0.0	1.0	4.0
17	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	42.0	29.0	21.0	9.0	7.0	7.0	7.0	10.0	6.0	4.0	2.0	1.0	6.3	42.0
18	0.0	0.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	5.0	7.0	12.0	12.0	8.0	3.0	0.0	0.0	0.0	1.0	4.0	2.6	12.0
19	4.0	3.0	2.0	2.0	3.0	4.0	14.0	20.0	0.0	5.0	3.0	C	C	C	2.0	7.0	6.0	9.0	7.0	12.0	7.0	2.0	3.0	1.0	5.5	20.0
20	X	2.0	0.0	0.0	3.0	4.0	6.0	12.0	8.0	5.0	2.0	3.0	2.0	0.0	2.0	2.0	3.0	3.0	0.0	3.0	6.0	4.0	1.0	0.0	3.1	12.0
21	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	2.0	3.0	2.0	2.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	2.0	0.0	0.0	2.0	3.0	0.9	3.0
22	1.0	1.0	3.0	1.0	1.0	4.0	4.0	2.0	7.0	8.0	7.0	6.0	7.0	10.0	6.0	6.0	2.0	4.0	9.0	7.0	6.0	5.0	6.0	7.0	5.0	10.0
23	7.0	6.0	5.0	9.0	8.0	9.0	10.0	11.0	12.0	11.0	8.0	8.0	8.0	10.0	9.0	9.0	14.0	10.0	6.0	6.0	7.0	10.0	10.0	10.0	8.9	14.0
24	11.0	12.0	11.0	8.0	9.0	12.0	12.0	13.0	13.0	11.0	14.0	10.0	8.0	6.0	1.0	1.0	3.0	3.0	2.0	4.0	9.0	5.0	6.0	5.0	7.9	14.0
25	10.0	7.0	8.0	5.0	0.0	3.0	3.0	12.0	8.0	6.0	7.0	9.0	17.0	4.0	5.0	7.0	5.0	4.0	12.0	7.0	7.0	5.0	3.0	8.0	6.8	17.0
26	9.0	15.0	12.0	8.0	6.0	6.0	5.0	6.0	4.0	3.0	3.0	7.0	6.0	5.0	2.0	5.0	3.0	0.0	0.0	8.0	6.0	3.0	1.0	0.0	5.1	15.0
27	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	6.0	6.0	7.0	7.0	6.0	11.0	12.0	8.0	3.0	1.0	2.0	0.0	0.0	1.0	3.4	12.0
28	0.0	0.0	1.0	0.0	0.0	0.0	2.0	2.0	3.0	7.0	4.0	1.0	2.0	3.0	2.0	0.0	1.0	0.0	0.0	1.0	3.0	3.0	1.0	0.0	1.5	7.0
29	1.0	1.0	2.0	1.0	2.0	3.0	1.0	4.0	6.0	8.0	8.0	6.0	7.0	10.0	6.0	3.0	2.0	6.0	6.0	12.0	11.0	11.0	9.0	5.0	5.5	12.0
30	2.0	4.0	4.0	2.0	3.0	4.0	2.0	2.0	2.0	2.0	2.0	7.0	8.0	4.0	3.0	6.0	7.0	4.0	1.0	3.0	4.0	3.0	4.0	2.0	3.5	8.0
31	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	2.0	3.0	3.0	4.0	3.0	4.0	6.0	3.0	1.0	2.0	3.0	11.0	9.0	4.0	4.0	2.7	11.0
NO.	30	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	740	99.9%
MEAN	3.2	3.2	3.3	2.7	2.4	2.7	3.0	3.8	3.5	5.0	5.3	4.5	5.9	5.1	4.5	4.6	5.0	4.5	3.9	4.9	4.8	3.6	3.5	3.3	7.5	
MAX	11.0	15.0	12.0	11.0	9.0	12.0	14.0	20.0	13.0	16.0	15.0	10.0	42.0	29.0	21.0	12.0	14.0	12.0	12.0	22.0	15.0	11.0	11.0	14.0	17.4	70.0



Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	561		
Maximum 1-HR Average	42.0 UG/M3		
Maximum 24-HR Average	8.9 UG/M3		
Monthly Calibration	3	Operational Time	743 HRS
Standard Deviation	4.1	Operational Uptime	99.9 %
		Monthly Average	4.0 UG/M3

# Windridge PM<sub>10</sub> (µg/m<sup>3</sup>) – March 2024

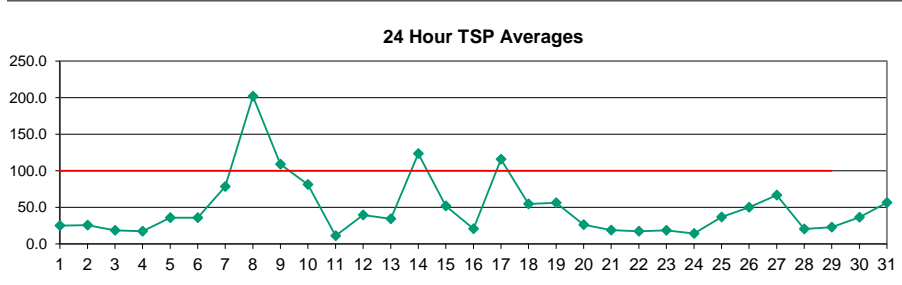
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	4.0	4.0	4.0	2.0	5.0	6.0	4.0	3.0	7.0	11.0	14.0	9.0	15.0	14.0	19.0	15.0	10.0	11.0	19.0	15.0	11.0	14.0	12.0	10.1	19.0	
2	13.0	19.0	17.0	13.0	12.0	8.0	7.0	11.0	14.0	19.0	13.0	12.0	13.0	17.0	22.0	20.0	11.0	21.0	6.0	7.0	6.0	6.0	7.0	7.0	12.5	22.0
3	6.0	6.0	10.0	9.0	4.0	20.0	8.0	13.0	9.0	27.0	35.0	14.0	18.0	19.0	32.0	9.0	19.0	8.0	9.0	11.0	14.0	19.0	12.0	19.0	14.6	35.0
4	15.0	14.0	19.0	12.0	19.0	11.0	11.0	7.0	7.0	9.0	16.0	12.0	21.0	18.0	5.0	9.0	28.0	22.0	33.0	49.0	33.0	8.0	7.0	7.0	16.3	49.0
5	33.0	20.0	11.0	23.0	27.0	23.0	22.0	18.0	32.0	46.0	35.0	23.0	36.0	32.0	32.0	27.0	19.0	46.0	35.0	27.0	14.0	22.0	18.0	26.0	27.0	46.0
6	22.0	12.0	7.0	10.0	6.0	3.0	5.0	17.0	34.0	35.0	35.0	63.0	49.0	51.0	27.0	29.0	38.0	41.0	23.0	14.0	8.0	5.0	8.0	13.0	23.1	63.0
7	16.0	18.0	25.0	21.0	24.0	17.0	28.0	21.0	28.0	27.0	38.0	65.0	135.0	50.0	49.0	145.0	74.0	166.0	99.0	54.0	34.0	9.0	66.0	87.0	54.0	166.0
8	163.0	210.0	299.0	196.0	137.0	215.0	131.0	210.0	229.0	243.0	167.0	51.0	107.0	98.0	156.0	24.0	11.0	24.0	73.0	158.0	104.0	78.0	78.0	124.0	136.9	299.0
9	134.0	87.0	134.0	85.0	67.0	37.0	37.0	43.0	28.0	42.0	67.0	48.0	153.0	163.0	106.0	118.0	76.0	134.0	141.0	132.0	42.0	48.0	61.0	60.0	85.1	163.0
10	17.0	67.0	67.0	57.0	74.0	121.0	80.0	91.0	78.0	78.0	244.0	55.0	53.0	34.0	35.0	46.0	39.0	13.0	10.0	11.0	7.0	14.0	25.0	11.0	55.3	244.0
11	6.0	0.0	0.0	2.0	3.0	1.0	22.0	9.0	4.0	8.0	6.0	9.0	11.0	17.0	15.0	16.0	10.0	15.0	3.0	5.0	6.0	3.0	2.0	2.0	7.3	22.0
12	3.0	0.0	0.0	6.0	4.0	4.0	4.0	27.0	43.0	60.0	50.0	58.0	58.0	41.0	24.0	47.0	66.0	27.0	38.0	1.0	2.0	3.0	3.0	5.0	23.9	66.0
13	6.0	3.0	2.0	4.0	3.0	5.0	6.0	17.0	35.0	64.0	54.0	36.0	19.0	20.0	32.0	29.0	13.0	17.0	10.0	10.0	9.0	21.0	35.0	20.0	19.6	64.0
14	40.0	0.0	2.0	3.0	3.0	11.0	10.0	15.0	38.0	92.0	188.0	111.0	75.0	93.0	66.0	65.0	73.0	63.0	109.0	172.0	149.0	155.0	164.0	174.0	78.0	188.0
15	119.0	35.0	20.0	16.0	11.0	10.0	8.0	15.0	12.0	22.0	9.0	28.0	100.0	55.0	43.0	70.0	72.0	48.0	29.0	6.0	24.0	22.0	28.0	14.0	34.0	119.0
16	26.0	3.0	2.0	1.0	5.0	4.0	2.0	11.0	14.0	14.0	15.0	28.0	29.0	12.0	10.0	14.0	13.0	10.0	17.0	24.0	9.0	16.0	4.0	15.0	12.4	29.0
17	9.0	7.0	6.0	4.0	5.0	10.0	8.0	8.0	7.0	12.0	27.0	81.0	325.0	203.0	205.0	212.0	151.0	120.0	129.0	131.0	74.0	71.0	10.0	6.0	75.9	325.0
18	4.0	7.0	6.0	4.0	4.0	5.0	9.0	15.0	19.0	23.0	24.0	35.0	76.0	53.0	126.0	138.0	142.0	50.0	18.0	26.0	4.0	9.0	8.0	7.0	33.8	142.0
19	13.0	9.0	14.0	15.0	16.0	39.0	142.0	140.0	14.0	41.0	27.0	C	C	93.0	50.0	52.0	28.0	34.0	27.0	31.0	10.0	11.0	8.0	8.0	37.4	142.0
20	X	0.0	0.0	1.0	7.0	13.0	11.0	22.0	25.0	27.0	30.0	20.0	16.0	9.0	18.0	17.0	16.0	20.0	16.0	24.0	13.0	32.0	10.0	7.0	15.4	32.0
21	10.0	9.0	5.0	3.0	2.0	6.0	16.0	24.0	43.0	16.0	7.0	5.0	4.0	24.0	16.0	16.0	16.0	8.0	11.0	11.0	9.0	9.0	7.0	2.0	11.6	43.0
22	3.0	4.0	5.0	10.0	7.0	8.0	8.0	6.0	12.0	14.0	17.0	20.0	22.0	18.0	13.0	11.0	15.0	9.0	17.0	9.0	15.0	14.0	11.0	12.0	11.7	22.0
23	10.0	13.0	11.0	9.0	10.0	13.0	16.0	16.0	11.0	13.0	13.0	18.0	18.0	18.0	16.0	23.0	24.0	19.0	15.0	14.0	12.0	13.0	17.0	14.0	14.8	24.0
24	15.0	16.0	16.0	17.0	11.0	14.0	16.0	20.0	16.0	19.0	20.0	13.0	11.0	10.0	8.0	5.0	7.0	8.0	8.0	13.0	14.0	10.0	8.0	22.0	13.2	22.0
25	21.0	20.0	19.0	10.0	10.0	18.0	9.0	72.0	65.0	40.0	50.0	63.0	45.0	23.0	28.0	25.0	23.0	15.0	21.0	18.0	15.0	14.0	11.0	22.0	27.4	72.0
26	28.0	42.0	37.0	11.0	14.0	15.0	17.0	19.0	23.0	20.0	28.0	99.0	84.0	65.0	57.0	55.0	5.0	8.0	52.0	77.0	40.0	16.0	11.0	18.0	35.0	99.0
27	27.0	11.0	6.0	1.0	3.0	4.0	11.0	10.0	16.0	109.0	111.0	76.0	58.0	83.0	107.0	92.0	99.0	68.0	28.0	13.0	10.0	6.0	1.0	12.0	40.1	111.0
28	12.0	12.0	18.0	6.0	14.0	11.0	36.0	17.0	15.0	18.0	18.0	26.0	25.0	12.0	7.0	11.0	13.0	10.0	8.0	7.0	9.0	18.0	10.0	8.0	14.2	36.0
29	13.0	13.0	12.0	7.0	6.0	8.0	5.0	5.0	7.0	7.0	12.0	15.0	13.0	23.0	26.0	30.0	26.0	29.0	13.0	15.0	16.0	13.0	11.0	6.0	13.8	30.0
30	11.0	9.0	9.0	14.0	9.0	9.0	11.0	10.0	16.0	38.0	19.0	87.0	90.0	32.0	35.0	51.0	46.0	37.0	24.0	23.0	6.0	10.0	8.0	5.0	25.4	90.0
31	3.0	2.0	3.0	4.0	2.0	1.0	1.0	4.0	15.0	35.0	30.0	15.0	43.0	28.0	47.0	65.0	57.0	60.0	70.0	57.0	92.0	81.0	27.0	95.0	34.9	95.0
NO.	30	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	741	99.9%
MEAN	26.7	21.7	25.4	18.6	16.9	21.6	22.6	29.5	29.5	39.6	45.8	39.8	57.4	46.1	46.0	48.1	40.2	37.4	35.6	37.7	26.3	24.7	22.3	27.1	42.0	
MAX	163.0	210.0	299.0	196.0	137.0	215.0	142.0	210.0	229.0	243.0	244.0	111.0	325.0	203.0	205.0	212.0	151.0	166.0	141.0	172.0	149.0	155.0	164.0	174.0	91.1	433.3



Number of Non-Zero Readings	734
Maximum 1-HR Average	325.0 UG/M3
Maximum 24-HR Average	136.9 UG/M3
Monthly Calibration	2
Standard Deviation	43.02
Operational Time	743 HRS
Operational Uptime	99.9 %
Monthly Average	32.7 UG/M3

# Windridge TSP ( $\mu\text{g}/\text{m}^3$ ) – March 2024

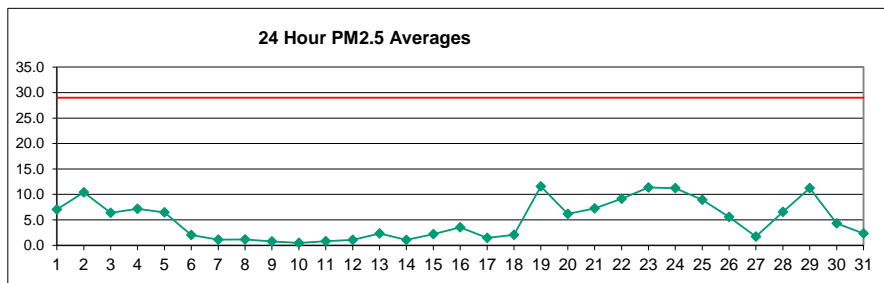
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	6.0	7.0	12.0	6.0	1.0	5.0	10.0	18.0	44.0	44.0	22.0	27.0	24.0	42.0	99.0	37.0	37.0	36.0	23.0	25.0	28.0	14.0	17.0	16.0	25.0	99.0	
2	21.0	25.0	45.0	13.0	14.0	19.0	12.0	19.0	48.0	44.0	22.0	31.0	19.0	48.0	55.0	47.0	14.0	35.0	18.0	16.0	19.0	13.0	8.0	8.0	25.5	55.0	
3	6.0	11.0	18.0	15.0	6.0	20.0	21.0	22.0	21.0	39.0	101.0	18.0	10.0	9.0	6.0	8.0	11.0	8.0	10.0	12.0	23.0	15.0	13.0	16.0	18.3	101.0	
4	12.0	12.0	15.0	11.0	16.0	10.0	7.0	7.0	4.0	14.0	15.0	14.0	21.0	27.0	11.0	14.0	34.0	37.0	39.0	34.0	42.0	9.0	6.0	3.0	17.3	42.0	
5	45.0	27.0	20.0	44.0	44.0	36.0	36.0	33.0	50.0	67.0	56.0	26.0	42.0	37.0	29.0	26.0	17.0	22.0	23.0	12.0	18.0	46.0	43.0	56.0	35.6	67.0	
6	43.0	12.0	8.0	8.0	9.0	8.0	7.0	32.0	63.0	58.0	63.0	92.0	87.0	77.0	42.0	41.0	54.0	51.0	28.0	25.0	14.0	12.0	12.0	12.0	35.8	92.0	
7	22.0	22.0	20.0	17.0	21.0	16.0	25.0	19.0	33.0	31.0	49.0	111.0	217.0	71.0	79.0	248.0	140.0	205.0	129.0	86.0	70.0	15.0	103.0	133.0	78.4	248.0	
8	250.0	368.0	438.0	259.0	204.0	323.0	203.0	259.0	353.0	374.0	269.0	76.0	140.0	130.0	213.0	32.0	21.0	31.0	105.0	227.0	157.0	120.0	132.0	163.0	202.0	438.0	
9	174.0	126.0	181.0	134.0	95.0	56.0	43.0	54.0	32.0	40.0	88.0	93.0	145.0	132.0	153.0	161.0	104.0	178.0	180.0	111.0	67.0	68.0	102.0	94.0	108.8	181.0	
10	38.0	117.0	96.0	87.0	133.0	217.0	132.0	124.0	115.0	114.0	287.0	89.0	82.0	56.0	58.0	66.0	44.0	13.0	12.0	9.0	5.0	12.0	31.0	8.0	81.0	287.0	
11	6.0	3.0	3.0	7.0	6.0	3.0	28.0	10.0	7.0	15.0	9.0	10.0	13.0	30.0	28.0	26.0	17.0	24.0	0.0	6.0	7.0	5.0	2.0	0.0	11.0	30.0	
12	0.0	0.0	7.0	9.0	6.0	6.0	11.0	49.0	74.0	116.0	79.0	94.0	96.0	72.0	38.0	67.0	105.0	41.0	54.0	8.0	5.0	2.0	3.0	5.0	39.5	116.0	
13	8.0	2.0	0.0	6.0	3.0	14.0	11.0	24.0	59.0	109.0	96.0	69.0	36.0	43.0	58.0	46.0	33.0	43.0	24.0	14.0	15.0	30.0	50.0	29.0	34.3	109.0	
14	52.0	3.0	4.0	8.0	6.0	11.0	17.0	18.0	56.0	160.0	299.0	209.0	133.0	170.0	103.0	103.0	115.0	89.0	168.0	261.0	229.0	241.0	265.0	240.0	123.3	299.0	
15	165.0	56.0	41.0	30.0	6.0	22.0	11.0	18.0	17.0	34.0	18.0	46.0	169.0	80.0	62.0	100.0	102.0	69.0	49.0	15.0	42.0	33.0	35.0	23.0	51.8	169.0	
16	46.0	7.0	4.0	1.0	5.0	4.0	1.0	23.0	10.0	22.0	25.0	49.0	51.0	24.0	28.0	33.0	29.0	17.0	29.0	28.0	9.0	24.0	8.0	15.0	20.5	51.0	
17	16.0	12.0	8.0	4.0	1.0	6.0	8.0	5.0	10.0	17.0	30.0	128.0	513.0	315.0	336.0	301.0	237.0	209.0	185.0	196.0	111.0	117.0	5.0	6.0	115.7	513.0	
18	11.0	11.0	6.0	7.0	8.0	7.0	17.0	15.0	29.0	35.0	26.0	49.0	113.0	93.0	206.0	242.0	233.0	80.0	31.0	35.0	16.0	16.0	7.0	13.0	54.4	242.0	
19	15.0	21.0	24.0	36.0	31.0	76.0	233.0	251.0	36.0	80.0	54.0	54.0	C	77.0	53.0	69.0	35.0	30.0	41.0	35.0	16.0	12.0	6.0	8.0	56.2	251.0	
20	X	0.0	0.0	1.0	9.0	15.0	8.0	30.0	44.0	33.0	51.0	38.0	29.0	16.0	43.0	39.0	32.0	34.0	36.0	40.0	30.0	38.0	27.0	7.0	26.1	51.0	
21	13.0	13.0	6.0	4.0	6.0	7.0	19.0	43.0	48.0	26.0	9.0	6.0	24.0	40.0	33.0	33.0	26.0	7.0	26.0	17.0	17.0	11.0	6.0	6.0	18.6	48.0	
22	10.0	8.0	5.0	11.0	14.0	8.0	4.0	10.0	20.0	26.0	33.0	27.0	30.0	35.0	24.0	25.0	21.0	20.0	21.0	19.0	15.0	11.0	7.0	7.0	17.1	35.0	
23	7.0	10.0	10.0	12.0	15.0	19.0	12.0	14.0	15.0	14.0	14.0	22.0	29.0	25.0	27.0	34.0	26.0	23.0	17.0	22.0	20.0	16.0	19.0	20.0	18.4	34.0	
24	17.0	17.0	17.0	14.0	11.0	12.0	14.0	15.0	19.0	26.0	22.0	13.0	18.0	12.0	9.0	7.0	7.0	9.0	7.0	15.0	12.0	8.0	10.0	30.0	14.2	22.0	
25	27.0	17.0	21.0	1.0	6.0	21.0	18.0	99.0	97.0	62.0	57.0	103.0	69.0	35.0	45.0	39.0	24.0	19.0	28.0	23.0	23.0	15.0	9.0	22.0	36.7	103.0	
26	27.0	43.0	32.0	13.0	13.0	16.0	24.0	22.0	30.0	34.0	36.0	179.0	135.0	102.0	100.0	82.0	7.0	14.0	75.0	108.0	58.0	20.0	9.0	18.0	49.9	179.0	
27	48.0	14.0	7.0	7.0	6.0	7.0	21.0	24.0	23.0	206.0	197.0	132.0	85.0	143.0	170.0	144.0	145.0	111.0	52.0	19.0	6.0	6.0	6.0	18.0	66.5	206.0	
28	22.0	11.0	25.0	11.0	17.0	14.0	76.0	23.0	25.0	29.0	26.0	50.0	49.0	18.0	2.0	9.0	11.0	8.0	11.0	8.0	10.0	12.0	15.0	6.0	20.3	76.0	
29	29.0	21.0	14.0	10.0	14.0	7.0	6.0	5.0	10.0	17.0	18.0	14.0	20.0	26.0	53.0	66.0	57.0	50.0	22.0	25.0	17.0	15.0	20.0	9.0	22.7	66.0	
30	5.0	5.0	7.0	19.0	17.0	16.0	27.0	15.0	35.0	54.0	40.0	117.0	128.0	52.0	50.0	70.0	54.0	45.0	40.0	28.0	7.0	10.0	13.0	17.0	36.3	128.0	
31	2.0	4.0	4.0	0.0	0.0	4.0	5.0	7.0	21.0	53.0	50.0	27.0	47.0	43.0	80.0	106.0	93.0	108.0	115.0	90.0	146.0	135.0	49.0	168.0	56.5	168.0	
NO.	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	742	99.9%
MEAN	38.1	32.4	35.4	26.0	24.0	32.4	34.4	42.2	46.7	64.3	69.7	64.9	85.8	67.1	74.0	74.9	60.8	53.7	51.5	50.6	40.5	35.5	33.5	37.9			
MAX	250.0	368.0	438.0	259.0	204.0	323.0	233.0	259.0	353.0	374.0	299.0	209.0	513.0	315.0	336.0	301.0	237.0	209.0	185.0	261.0	229.0	241.0	265.0	240.0			



Number of 24HR Exceedences	4	Proposed Guideline
Number of Non-Zero Readings	733	
Maximum 1-HR Average	513.0 UG/M3	
Maximum 24-HR Average	202.0 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	65.3	Monthly Average
		743 HRS
		99.9 %
		49.0 UG/M3

# West PM<sub>2.5</sub> (µg/m<sup>3</sup>) – March 2024

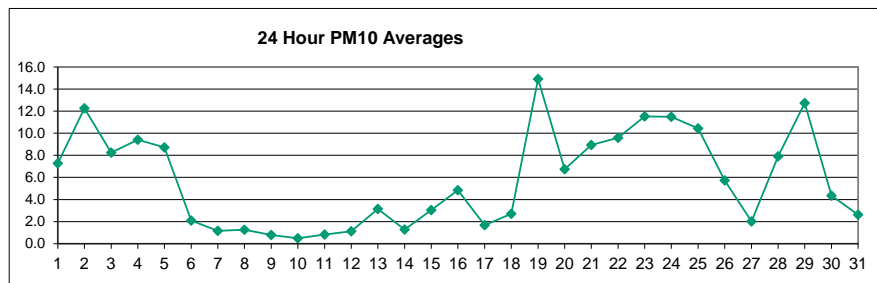
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.6	2.4	1.6	1.3	1.8	2.4	2.6	3.5	4.7	5.7	6.8	7.6	8.0	10.6	11.0	8.5	9.7	10.6	8.0	10.2	11.4	13.0	12.0	12.3	7.0	13.0
2	17.1	18.8	17.4	12.0	9.2	10.5	12.2	10.9	11.1	10.0	10.4	10.9	10.1	10.0	7.7	7.7	9.3	7.7	7.5	9.8	8.4	8.7	7.7	4.9	10.4	18.8
3	4.2	6.2	7.9	8.0	6.8	6.2	4.9	4.8	3.9	3.9	4.6	7.3	7.7	8.0	7.7	6.7	8.4	8.2	6.8	6.6	7.7	6.5	3.8	6.2	6.4	8.4
4	6.7	7.6	6.1	4.1	5.1	3.7	3.1	3.7	4.4	7.6	8.9	9.9	9.4	9.4	7.1	8.7	8.3	7.2	9.0	9.7	8.6	8.5	7.5	7.9	7.2	9.9
5	7.6	7.3	6.6	7.4	7.1	7.0	6.8	6.3	5.8	7.7	8.1	9.0	8.2	6.7	6.4	5.2	4.4	5.9	6.1	4.3	4.8	3.7	7.6	5.7	6.5	9.0
6	4.4	4.0	3.9	4.2	3.5	3.1	2.8	2.0	3.0	2.3	2.2	1.5	1.1	1.1	0.9	0.8	0.8	1.4	1.3	1.2	0.8	0.6	0.8	0.7	2.0	4.4
7	0.7	0.7	0.7	1.0	0.9	0.7	0.7	0.8	1.1	2.1	3.2	2.4	1.5	1.3	1.1	1.0	1.2	1.2	1.1	0.9	0.8	0.7	0.7	0.7	1.1	3.2
8	1.4	1.0	2.2	1.4	1.9	1.2	1.7	1.0	1.3	1.6	1.8	1.5	1.0	0.8	0.7	0.4	0.4	0.5	0.6	0.6	0.9	1.3	1.0	1.2	1.1	2.2
9	1.3	1.0	0.7	0.8	0.7	0.7	0.9	0.6	0.9	0.7	1.5	1.2	0.8	0.6	0.7	0.6	0.7	0.7	0.8	0.8	0.6	0.4	0.4	0.5	0.8	1.5
10	0.6	0.4	0.3	0.2	0.3	0.4	0.4	0.9	1.2	0.5	0.7	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	1.0	0.3	0.5	0.4	1.2
11	0.1	0.3	0.4	0.6	0.3	0.2	0.2	0.2	1.4	2.3	1.8	0.7	0.5	0.4	0.6	0.6	0.5	1.3	2.1	1.2	1.0	0.8	0.8	0.7	0.8	2.3
12	0.7	0.8	0.7	1.1	1.2	0.8	0.7	0.9	2.1	4.8	3.4	0.9	0.8	0.5	0.1	0.3	0.4	0.3	0.3	0.8	0.9	1.4	0.9	0.5	1.0	4.8
13	0.3	0.4	0.3	0.3	0.4	0.5	0.8	1.4	2.3	4.0	2.8	2.3	1.2	0.6	0.7	0.5	2.1	8.8	2.9	5.5	5.6	3.2	2.2	6.5	2.3	8.8
14	4.3	1.5	1.3	0.9	0.7	0.8	1.5	2.7	2.1	1.4	0.8	0.7	0.8	0.8	0.7	1.0	0.8	0.6	0.8	0.6	0.4	0.3	0.3	0.3	1.1	4.3
15	0.4	0.5	0.4	0.3	0.4	0.4	0.6	1.0	1.4	1.6	1.2	1.0	1.3	1.4	0.7	0.7	0.7	0.5	4.9	7.4	8.3	7.3	5.8	4.4	2.2	8.3
16	3.7	1.5	1.1	0.8	0.8	0.5	0.7	0.7	1.0	1.4	2.0	2.1	2.3	1.5	2.1	1.8	10.0	10.2	2.6	9.0	12.9	7.8	3.1	4.4	3.5	12.9
17	2.8	2.3	1.3	1.1	0.9	1.0	1.1	1.4	1.4	1.8	1.7	1.1	1.5	1.3	1.0	1.0	0.9	0.8	1.1	1.1	1.3	1.2	4.5	1.9	1.5	4.5
18	1.7	2.4	0.9	0.9	1.0	1.7	2.2	2.6	3.0	3.6	2.2	2.4	1.5	0.9	1.7	1.0	0.8	1.1	1.5	1.7	2.0	4.4	5.2	2.1	5.2	
19	5.6	9.5	9.3	8.2	5.9	12.3	13.6	14.9	9.8	12.5	9.9	13.8	12.9	12.6	11.3	8.9	8.3	8.6	19.7	24.0	14.5	12.1	10.4	9.0	11.6	24.0
20	4.9	3.7	2.3	3.1	3.7	4.8	7.2	10.8	9.8	9.9	6.7	7.5	6.5	3.7	7.8	6.2	4.0	4.9	5.0	6.1	7.7	6.5	8.5	6.9	6.2	10.8
21	8.2	5.5	6.1	6.3	3.9	5.8	7.8	8.6	8.5	7.4	6.9	7.1	9.9	9.5	9.9	8.2	6.9	6.8	7.3	8.9	8.0	6.5	6.5	3.7	7.3	9.9
22	3.9	6.3	5.9	7.2	5.8	4.6	4.4	6.5	10.9	11.6	12.4	13.1	14.9	12.1	13.7	12.0	11.6	11.4	8.8	7.3	8.5	6.4	11.5	9.0	9.2	14.9
23	7.7	7.5	9.4	8.9	11.2	17.5	11.0	10.6	12.3	10.4	10.2	13.4	16.5	16.6	12.4	13.5	10.7	9.0	8.7	10.5	10.0	11.1	10.7	12.9	11.4	17.5
24	12.3	10.8	11.8	13.5	12.4	13.9	13.8	13.6	16.0	21.0	16.0	12.9	10.8	11.3	9.6	6.4	5.6	6.5	7.2	7.9	10.8	10.6	7.8	7.2	11.2	21.0
25	4.1	3.3	5.2	4.3	3.4	3.5	4.0	5.2	6.2	5.4	5.9	5.2	12.0	12.3	11.1	14.2	14.8	16.0	16.9	9.4	12.7	11.6	14.5	12.9	8.9	16.9
26	11.0	12.7	13.3	11.6	9.2	8.2	8.5	9.1	9.3	8.5	7.3	4.2	2.4	1.2	2.2	1.6	2.0	1.5	1.5	1.2	1.1	1.9	1.8	2.4	5.6	13.3
27	1.6	1.5	1.3	1.2	1.4	2.0	2.8	3.2	8.0	3.8	0.7	0.6	0.4	0.5	0.4	0.4	0.5	0.7	0.8	1.0	1.5	2.1	2.6	2.0	1.7	8.0
28	1.6	2.0	2.1	1.6	1.9	1.7	4.2	11.8	12.5	14.8	7.1	8.4	8.4	8.7	8.7	7.1	6.8	7.0	8.0	7.4	5.6	4.7	7.5	7.9	6.6	14.8
29	6.4	6.6	5.6	4.1	3.6	3.6	5.1	4.9	6.0	7.9	8.6	14.0	13.7	15.8	13.8	13.1	15.6	14.3	17.6	19.5	16.5	22.1	18.6	12.7	11.2	22.1
30	10.7	11.7	6.4	5.1	5.9	6.0	5.2	5.0	4.7	4.3	3.7	2.5	1.5	0.8	0.9	0.7	0.7	0.7	0.8	1.2	1.9	9.0	8.8	5.1	4.3	11.7
31	5.8	7.8	6.2	4.3	3.4	2.6	2.2	1.4	2.7	2.3	2.3	1.7	1.1	1.0	1.3	1.5	0.9	0.7	0.9	1.2	1.1	1.1	0.9	1.1	2.3	7.8
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	4.7	4.8	4.5	4.1	3.7	4.1	4.3	4.9	5.4	5.9	5.3	5.4	5.5	5.2	4.9	4.6	4.8	5.0	5.2	5.7	5.7	5.6	5.6	5.1		
MAX	17.1	18.8	17.4	13.5	12.4	17.5	13.8	14.9	16.0	21.0	16.0	14.0	16.5	16.6	13.8	14.2	15.6	16.0	19.7	24.0	16.5	22.1	18.6	12.9		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	24.0 UG/M3	
Maximum 24-HR Average	11.6 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	4.562	Monthly Average
		744 HRS
		100.0 %
		5.0 UG/M3

# West PM<sub>10</sub> (µg/m<sup>3</sup>) – March 2024

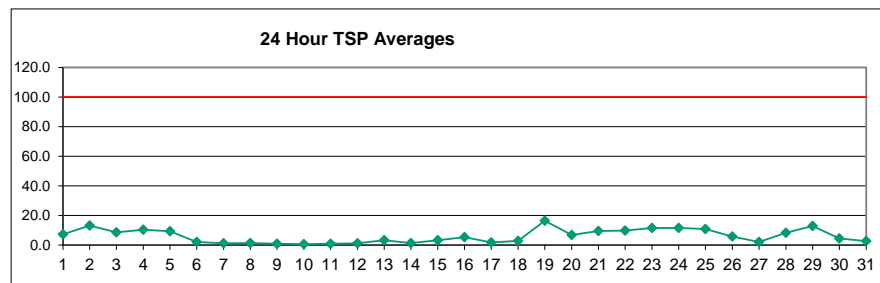
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.6	2.4	1.6	1.3	1.8	2.4	2.6	3.5	4.7	5.7	6.8	7.6	8.0	11.9	12.9	8.5	9.7	10.9	8.0	10.2	11.4	15.2	12.0	12.3	7.3	15.2
2	17.1	18.8	18.7	12.0	9.2	10.5	12.8	11.5	13.0	11.9	12.9	13.5	12.4	12.3	9.6	10.3	13.6	10.5	9.9	14.1	11.7	11.9	10.5	5.6	12.2	18.8
3	4.6	8.2	11.0	11.2	9.9	8.4	5.3	5.5	3.9	3.9	4.6	9.7	10.1	10.4	10.2	9.0	11.0	11.3	9.4	9.3	10.4	8.7	3.8	8.1	8.2	11.3
4	8.9	10.5	7.6	4.1	5.7	3.7	3.1	3.7	4.8	10.7	12.7	13.8	12.6	12.7	10.3	12.6	11.0	9.5	11.3	12.4	11.8	11.4	10.1	10.8	9.4	13.8
5	9.6	9.3	8.5	9.9	9.1	9.3	9.1	7.8	6.7	10.0	10.6	13.0	11.8	9.7	9.2	7.3	5.5	8.2	8.6	5.2	6.4	4.7	11.1	8.3	8.7	13.0
6	5.0	4.0	3.9	4.2	3.5	3.1	2.8	2.0	3.4	2.3	2.2	1.5	1.1	1.1	0.9	0.8	0.8	1.6	1.5	1.3	0.8	0.6	0.8	0.7	2.1	5.0
7	0.7	0.7	0.7	1.0	0.9	0.7	0.7	0.8	1.1	2.2	3.6	2.7	1.5	1.3	1.1	1.0	1.3	1.2	1.1	0.9	0.8	0.7	0.7	0.7	1.2	3.6
8	1.5	1.0	3.1	1.6	2.5	1.3	2.0	1.0	1.3	1.7	2.0	1.6	1.0	0.8	0.7	0.4	0.4	0.5	0.6	0.6	0.9	1.3	1.0	1.2	1.3	3.1
9	1.4	1.0	0.7	0.8	0.7	0.7	0.9	0.6	0.9	0.7	1.6	1.4	0.8	0.6	0.7	0.6	0.7	0.7	0.8	0.8	0.6	0.4	0.4	0.5	0.8	1.6
10	0.7	0.4	0.3	0.2	0.3	0.5	0.5	1.2	1.7	0.5	0.9	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	1.1	0.3	0.5	0.5	1.7
11	0.1	0.3	0.4	0.6	0.3	0.2	0.2	0.2	1.4	2.3	1.8	0.8	0.5	0.4	0.6	0.6	0.5	1.5	2.8	1.2	1.0	0.8	0.8	0.7	0.8	2.8
12	0.7	0.8	0.7	1.1	1.2	0.8	0.7	1.0	2.1	5.2	3.9	1.1	1.0	0.6	0.1	0.3	0.4	0.3	0.3	0.9	1.0	1.6	0.9	0.5	1.1	5.2
13	0.3	0.4	0.3	0.3	0.4	0.5	0.8	1.7	3.2	5.9	4.1	3.4	1.8	0.8	0.8	0.5	3.1	13.0	4.2	7.6	8.1	3.6	2.4	8.3	3.1	13.0
14	4.7	1.5	1.3	0.9	0.7	0.9	1.9	4.0	3.1	1.9	0.9	0.8	0.9	0.9	0.8	1.2	1.0	0.6	0.8	0.6	0.4	0.3	0.3	0.3	1.3	4.7
15	0.4	0.5	0.4	0.3	0.4	0.4	0.6	1.2	1.6	2.0	1.4	1.1	1.7	1.9	0.8	0.8	0.7	0.5	7.3	11.1	12.3	11.0	8.6	5.9	3.0	12.3
16	4.0	1.5	1.1	0.8	0.8	0.5	0.7	0.7	1.0	1.5	2.5	3.0	3.4	2.1	3.1	2.6	14.9	15.2	3.5	13.5	18.9	11.6	3.7	5.7	4.8	18.9
17	3.1	2.4	1.3	1.1	0.9	1.0	1.1	1.4	1.4	2.1	2.1	1.1	1.9	1.5	1.1	1.1	0.9	0.8	1.1	1.1	1.5	1.3	6.6	2.3	1.7	6.6
18	1.9	3.3	0.9	0.9	1.0	2.0	2.9	3.5	4.5	4.4	5.3	3.2	3.5	2.0	1.0	2.4	1.0	0.8	1.1	1.5	1.8	2.5	6.6	7.3	2.7	7.3
19	8.1	13.6	12.9	11.1	8.5	17.0	16.9	18.3	12.8	17.9	14.8	20.0	18.7	17.7	15.4	11.1	10.5	11.5	26.2	27.8	14.5	12.1	10.4	9.7	14.9	27.8
20	4.9	3.7	2.3	3.1	3.7	4.8	7.2	10.8	9.8	10.6	7.4	9.3	8.1	3.8	8.5	7.1	4.0	5.6	6.3	6.8	8.9	7.6	10.7	6.9	6.7	10.8
21	8.7	5.5	6.1	6.8	3.9	5.8	8.2	10.9	12.1	9.7	9.2	9.9	13.3	12.2	14.0	11.2	9.6	9.1	7.3	11.2	10.3	8.0	7.7	3.7	8.9	14.0
22	3.9	6.3	5.9	7.2	5.8	4.6	4.4	6.5	10.9	11.6	12.4	13.1	14.9	12.1	14.9	15.4	14.4	13.1	8.8	7.3	8.5	6.4	12.6	9.0	9.6	15.4
23	7.7	7.5	9.4	8.9	11.2	19.1	11.0	10.6	12.3	10.4	10.2	13.4	17.0	18.6	12.4	13.5	10.7	9.0	8.7	10.5	10.0	11.1	10.7	12.9	11.5	19.1
24	12.3	10.8	11.8	13.5	12.4	13.9	13.8	13.6	16.0	21.0	16.0	12.9	10.8	12.7	11.8	6.8	5.6	7.6	7.9	7.9	10.8	10.6	7.8	7.2	11.5	21.0
25	4.1	3.3	5.2	4.3	3.4	3.5	4.0	5.9	8.1	7.0	8.7	7.4	15.3	15.1	14.2	18.4	19.1	20.5	21.6	9.4	12.7	11.6	14.5	12.9	10.4	21.6
26	11.0	12.7	13.3	11.6	9.2	8.2	8.5	9.1	10.1	8.5	9.1	5.1	2.4	1.2	2.3	1.6	2.0	1.5	1.5	1.2	1.1	1.9	1.8	2.5	5.7	13.3
27	1.6	1.5	1.3	1.2	1.4	2.0	3.0	4.2	12.0	5.6	0.7	0.6	0.4	0.5	0.4	0.4	0.5	0.7	0.8	1.0	1.5	2.2	2.8	2.1	2.0	12.0
28	1.6	2.0	2.1	1.6	1.9	1.7	5.6	15.1	13.1	16.8	9.9	11.3	10.3	10.6	11.0	9.0	8.2	9.0	10.2	9.5	5.6	4.7	8.5	10.1	7.9	16.8
29	7.2	8.5	6.3	4.1	3.6	3.6	5.1	4.9	6.0	7.9	8.6	14.0	14.6	19.2	17.4	16.7	20.0	16.3	22.5	24.9	16.5	26.0	19.1	12.7	12.7	26.0
30	10.7	11.7	6.4	5.1	5.9	6.0	5.2	5.0	4.7	4.3	3.7	2.5	1.5	0.8	0.9	0.7	0.7	0.7	0.8	1.2	1.9	9.2	8.8	5.8	4.3	11.7
31	6.7	11.4	8.3	5.2	3.4	2.6	2.2	1.4	2.9	2.3	2.3	1.7	1.1	1.0	1.3	1.6	0.9	0.7	0.9	1.2	1.1	1.1	0.9	1.1	2.6	11.4
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	5.0	5.3	5.0	4.4	4.0	4.5	4.6	5.4	6.1	6.7	6.2	6.5	6.5	6.3	6.1	5.6	5.9	6.2	6.3	6.9	6.6	6.5	6.4	5.7		
MAX	17.1	18.8	18.7	13.5	12.4	19.1	16.9	18.3	16.0	21.0	16.0	20.0	18.7	19.2	17.4	18.4	20.0	20.5	26.2	27.8	18.9	26.0	19.1	12.9		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	27.8 UG/M3		
Maximum 24-HR Average	14.9 UG/M3		
IZS Calibration Time		OperatioEI Time	744 HRS
Down Time	0	OperatioEI Uptime	100.0 %
Standard Deviation	5.4	Monthly Average	5.8 UG/M3

# West TSP ( $\mu\text{g}/\text{m}^3$ ) – March 2024

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.6	2.4	1.6	1.3	1.8	2.4	2.6	3.5	4.7	5.7	6.8	7.6	8.0	11.9	12.9	8.5	9.7	10.9	8.0	10.2	11.4	15.2	12.0	12.3	7.3	15.2
2	17.1	18.8	18.7	12.0	9.2	10.5	12.8	11.5	13.8	12.7	14.5	15.5	14.4	14.0	10.9	11.7	15.2	11.9	11.0	16.0	13.3	13.5	11.6	5.6	13.2	18.8
3	4.6	8.2	11.6	11.7	10.0	8.4	5.3	5.5	3.9	3.9	4.6	10.3	11.4	11.8	11.3	9.0	12.2	12.2	9.4	9.3	11.2	8.7	3.8	8.1	8.6	12.2
4	9.0	11.4	7.6	4.1	5.7	3.7	3.1	3.7	4.8	11.7	14.1	15.5	14.5	14.5	10.8	13.3	12.5	10.3	13.2	14.3	13.3	12.7	10.8	11.7	10.3	15.5
5	10.9	10.2	9.2	10.6	9.8	9.3	9.1	7.8	6.7	10.5	11.6	14.8	13.4	10.6	9.7	7.8	5.5	8.8	9.0	5.2	6.4	4.7	11.7	8.6	9.2	14.8
6	5.0	4.0	3.9	4.2	3.5	3.1	2.8	2.0	3.4	2.3	2.2	1.5	1.1	1.1	0.9	0.8	0.8	1.6	1.5	1.3	0.8	0.6	0.8	0.7	2.1	5.0
7	0.7	0.7	0.7	1.0	0.9	0.7	0.7	0.8	1.1	2.2	3.6	2.7	1.5	1.3	1.1	1.0	1.3	1.2	1.1	0.9	0.8	0.7	0.7	0.7	1.2	3.6
8	1.5	1.0	3.1	1.6	2.5	1.3	2.0	1.0	1.3	1.7	2.0	1.6	1.0	0.8	0.7	0.4	0.4	0.5	0.6	0.6	0.9	1.3	1.0	1.2	1.3	3.1
9	1.4	1.0	0.7	0.8	0.7	0.7	0.9	0.6	0.9	0.7	1.6	1.4	0.8	0.6	0.7	0.6	0.7	0.7	0.8	0.8	0.6	0.4	0.4	0.5	0.8	1.6
10	0.7	0.4	0.3	0.2	0.3	0.5	0.5	1.2	1.7	0.5	0.9	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	1.1	0.3	0.5	0.5	1.7
11	0.1	0.3	0.4	0.6	0.3	0.2	0.2	0.2	1.4	2.3	1.8	0.8	0.5	0.4	0.6	0.6	0.5	1.5	2.8	1.2	1.0	0.8	0.8	0.7	0.8	2.8
12	0.7	0.8	0.7	1.1	1.2	0.8	0.7	1.0	2.1	5.2	3.9	1.1	1.0	0.6	0.1	0.3	0.4	0.3	0.3	0.9	1.0	1.6	0.9	0.5	1.1	5.2
13	0.3	0.4	0.3	0.3	0.4	0.5	0.8	1.7	3.2	6.2	4.3	3.7	1.8	0.8	0.8	0.5	3.4	15.0	4.2	7.6	8.1	3.6	2.4	8.3	3.3	15.0
14	4.7	1.5	1.3	0.9	0.7	0.9	1.9	4.1	3.1	1.9	0.9	0.8	0.9	0.9	0.8	1.2	1.0	0.6	0.8	0.6	0.4	0.3	0.3	0.3	1.3	4.7
15	0.4	0.5	0.4	0.3	0.4	0.4	0.6	1.2	1.6	2.0	1.4	1.1	1.7	1.9	0.8	0.8	0.7	0.5	8.0	12.3	13.7	11.7	8.7	5.9	3.2	13.7
16	4.0	1.5	1.1	0.8	0.8	0.5	0.7	0.7	1.0	1.5	2.5	3.0	3.4	2.1	3.1	2.6	17.1	17.4	3.5	15.4	21.9	12.6	3.7	5.7	5.3	21.9
17	3.1	2.4	1.3	1.1	0.9	1.0	1.1	1.4	1.4	2.1	2.1	1.1	1.9	1.5	1.1	1.1	0.9	0.8	1.1	1.1	1.5	1.3	7.2	2.3	1.7	7.2
18	1.9	3.3	0.9	0.9	1.0	2.0	2.9	3.5	4.5	4.4	5.7	3.2	3.6	2.0	1.0	2.4	1.0	0.8	1.1	1.5	1.8	2.5	6.7	7.3	2.7	7.3
19	8.1	15.4	14.6	12.4	9.3	19.7	19.7	21.2	14.8	20.7	16.6	23.1	21.6	20.5	17.8	12.9	12.1	12.7	26.8	27.8	14.5	12.1	10.4	9.7	16.4	27.8
20	4.9	3.7	2.3	3.1	3.7	4.8	7.2	10.8	9.8	10.6	7.4	9.3	8.1	3.8	8.5	7.1	4.0	5.6	6.3	6.8	8.9	7.6	11.8	6.9	6.8	11.8
21	8.7	5.5	6.1	6.8	3.9	5.8	8.2	12.6	13.3	10.7	9.2	10.2	14.5	14.1	15.7	11.9	9.8	9.1	7.3	11.4	10.6	8.0	7.7	3.7	9.4	15.7
22	3.9	6.3	5.9	7.2	5.8	4.6	4.4	6.5	10.9	11.6	12.4	13.1	14.9	12.1	14.9	15.4	16.4	13.1	8.8	7.3	8.5	6.4	12.6	9.0	9.7	16.4
23	7.7	7.5	9.4	8.9	11.2	19.1	11.0	10.6	12.3	10.4	10.2	13.4	17.0	18.6	12.4	13.5	10.7	9.0	8.7	10.5	10.0	11.1	10.7	12.9	11.5	19.1
24	12.3	10.8	11.8	13.5	12.4	13.9	13.8	13.6	16.0	21.0	16.0	12.9	10.8	12.7	11.8	6.8	5.6	7.6	7.9	7.9	10.8	10.6	7.8	7.2	11.5	21.0
25	4.1	3.3	5.2	4.3	3.4	3.5	4.0	5.9	8.1	7.0	8.8	7.4	17.3	17.4	14.4	18.4	19.6	21.4	23.0	9.4	12.7	11.6	14.5	12.9	10.7	23.0
26	11.0	12.7	13.3	11.6	9.2	8.2	8.5	9.1	10.1	8.5	9.1	5.1	2.4	1.2	2.3	1.6	2.0	1.5	1.5	1.2	1.1	1.9	1.8	2.5	5.7	13.3
27	1.6	1.5	1.3	1.2	1.4	2.0	3.0	4.2	13.5	5.8	0.7	0.6	0.4	0.5	0.4	0.4	0.5	0.7	0.8	1.0	1.5	2.2	2.8	2.1	2.1	13.5
28	1.6	2.0	2.1	1.6	1.9	1.7	5.6	15.1	13.1	16.8	9.9	12.6	12.0	12.3	12.1	9.1	8.2	9.0	11.4	10.3	5.6	4.7	8.5	10.2	8.2	16.8
29	7.2	8.5	6.3	4.1	3.6	3.6	5.1	4.9	6.0	7.9	8.6	14.0	14.6	20.1	19.0	17.0	20.1	16.3	22.8	24.9	16.5	26.0	19.1	12.7	12.9	26.0
30	10.7	11.7	6.4	5.1	5.9	6.0	5.2	5.0	4.7	4.3	3.7	2.5	1.5	0.8	0.9	0.7	0.7	0.7	0.8	1.2	1.9	9.2	8.8	5.8	4.3	11.7
31	6.7	11.4	8.3	5.2	3.4	2.6	2.2	1.4	2.9	2.3	2.3	1.7	1.1	1.0	1.3	1.6	0.9	0.7	0.9	1.2	1.1	1.1	0.9	1.1	2.6	11.4
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	5.1	5.5	5.1	4.5	4.0	4.6	4.7	5.6	6.3	6.9	6.4	6.8	7.0	6.8	6.4	5.8	6.3	6.5	6.6	7.1	6.8	6.6	6.5	5.7		
MAX	17.1	18.8	18.7	13.5	12.4	19.7	19.7	21.2	16.0	21.0	16.6	23.1	21.6	20.5	19.0	18.4	20.1	21.4	26.8	27.8	21.9	26.0	19.1	12.9		

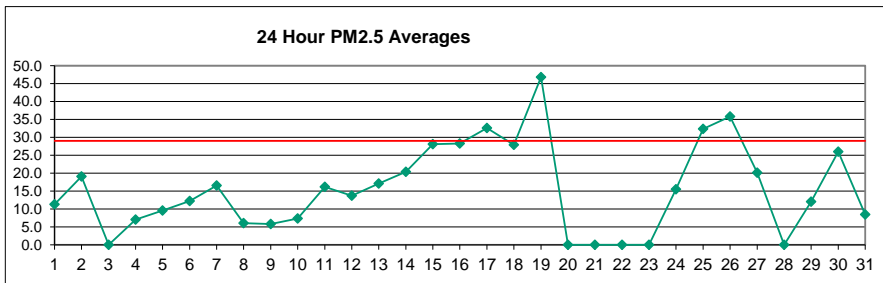


Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	744	
Maximum 1-HR Average	27.8 UG/M3	
Maximum 24-HR Average	16.4 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	5.659	Monthly Average
		744 HRS
		100.0 %
		6.0 UG/M3



# Entrance PM<sub>2.5</sub> (µg/m<sup>3</sup>) – March 2024

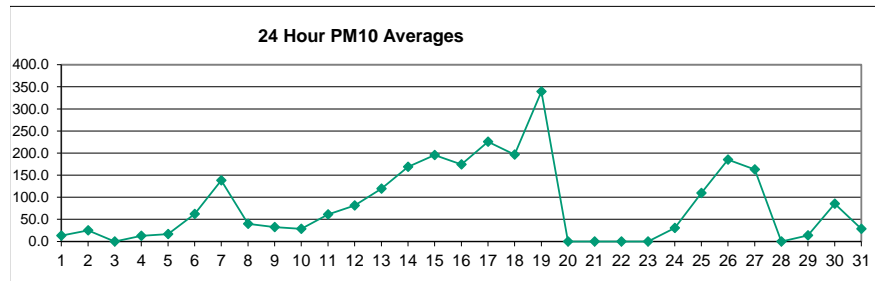
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.9	4.7	3.0	1.9	2.9	3.6	3.5	6.9	10.2	11.6	11.0	15.3	13.6	18.3	23.7	15.1	13.5	23.7	15.2	14.8	15.0	14.7	11.2	15.1	11.3	23.7
2	22.3	24.7	31.1	18.9	17.9	18.3	21.9	39.4	50.3	24.9	18.8	17.4	16.1	17.2	26.8	20.2	9.5	20.4	8.9	9.4	9.9	5.6	4.1	4.3	19.1	50.3
3	3.2	5.8	5.5	8.3	6.0	9.8	6.9	7.4	6.9	10.5	11.8	7.4	X	X	X	X	X	X	X	X	X	X	X	X	-	-
4	X	X	X	6.3	8.4	5.8	5.4	5.3	5.2	5.7	6.2	5.9	5.8	5.1	4.9	5.2	X	10.8	12.6	10.9	9.1	5.4	6.8	9.2	7.0	12.6
5	12.5	11.7	9.6	9.3	11.8	8.7	6.5	8.5	14.5	17.3	12.7	8.8	8.5	8.8	6.6	5.6	7.4	18.6	9.0	6.6	5.6	5.6	6.7	9.0	9.6	18.6
6	6.9	15.4	15.2	12.7	16.2	18.6	16.2	22.1	41.0	23.4	22.0	8.7	6.1	2.9	1.9	2.0	3.5	1.6	3.0	5.6	7.5	6.0	8.9	26.3	12.2	41.0
7	32.1	23.5	30.7	23.0	24.1	X	12.5	18.5	X	30.7	34.0	21.6	11.1	3.0	3.1	4.1	3.0	5.0	7.0	5.0	13.2	29.9	16.7	12.4	16.6	34.0
8	15.9	9.4	7.9	4.5	6.2	6.9	5.2	5.1	8.3	9.6	8.3	3.6	5.5	2.7	4.4	2.3	3.2	2.0	1.8	2.3	14.7	4.2	3.4	6.7	6.0	15.9
9	8.1	3.2	2.0	2.1	1.9	2.3	2.1	3.2	11.4	6.1	3.1	15.6	13.3	9.0	8.6	3.7	2.8	5.3	6.8	3.9	3.5	4.3	5.8	10.3	5.8	15.6
10	17.1	8.8	2.7	2.0	2.6	3.9	4.0	7.7	8.5	3.9	8.1	8.7	7.8	2.9	3.4	3.4	3.1	4.5	5.9	12.5	20.7	6.2	12.2	15.5	7.3	20.7
11	9.7	18.2	24.5	21.6	22.6	22.6	11.2	13.6	36.3	27.2	23.2	5.5	12.3	8.5	10.6	9.7	13.1	15.5	15.0	18.7	14.9	14.6	9.3	9.0	16.1	36.3
12	19.7	18.1	8.2	4.2	6.4	10.8	17.6	11.5	10.5	13.1	15.2	12.0	9.3	12.1	14.2	8.0	8.1	5.4	2.8	11.2	30.3	33.7	20.4	25.5	13.7	33.7
13	24.0	18.8	22.4	24.9	23.1	25.6	28.9	33.7	24.9	16.7	22.1	19.9	19.4	17.3	13.7	7.9	25.6	7.9	4.0	5.9	5.5	5.8	4.6	8.1	17.1	33.7
14	7.0	22.9	24.3	26.0	35.3	66.5	38.0	25.5	36.5	39.5	14.9	26.1	28.0	17.1	18.8	20.3	9.3	3.4	5.8	3.4	2.9	4.2	5.4	7.4	20.4	66.5
15	3.7	13.1	22.3	37.3	67.8	64.5	54.2	49.3	45.8	82.9	60.1	33.7	12.0	8.5	18.4	21.1	14.7	4.5	27.9	3.9	7.3	5.9	5.6	9.5	28.1	82.9
16	24.2	62.1	28.5	26.0	43.3	65.2	70.1	56.6	22.3	26.9	12.8	22.2	15.2	28.6	27.3	23.9	40.5	16.5	11.7	4.0	3.6	1.6	13.7	31.5	28.3	70.1
17	68.6	90.3	25.0	40.4	43.0	52.9	47.3	67.4	49.1	58.5	76.6	19.2	6.4	X	10.0	10.5	9.0	5.5	3.7	2.3	4.4	13.9	22.8	23.0	32.6	90.3
18	27.9	25.4	17.5	24.8	38.2	30.1	25.2	30.5	27.9	40.9	24.7	39.4	24.5	75.1	40.5	43.3	35.9	15.1	9.6	10.6	21.7	32.2	6.8	2.3	27.9	75.1
19	7.2	3.4	5.5	40.8	118.5	104.0	101.6	88.5	58.9	70.6	57.1	47.2	68.1	41.5	65.4	45.1	54.7	32.6	29.1	27.6	19.9	18.6	7.0	10.6	46.8	118.5
20	X	X	2.9	3.7	7.9	14.7	10.6	21.7	23.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	13.7	16.1	14.9	14.2	20.7	25.7	21.6	16.1	14.2	13.4	15.1	14.7	16.6	12.1	10.8	11.4	15.9	19.0	11.7	12.1	15.5	25.7
25	29.2	52.2	72.5	31.3	39.2	43.4	26.6	23.6	34.6	56.4	38.3	48.7	30.4	22.0	37.9	31.6	29.1	15.9	20.4	16.0	19.2	21.2	17.0	18.9	32.3	72.5
26	17.4	48.1	64.6	46.0	48.5	54.0	41.5	38.9	57.5	54.8	53.7	26.0	30.0	34.6	25.3	18.0	54.4	25.5	6.7	4.4	8.1	15.2	36.6	49.5	35.8	64.6
27	28.2	35.8	14.9	22.5	25.3	22.3	13.3	14.9	35.3	27.4	22.7	32.2	19.8	21.6	45.2	26.8	15.7	8.8	5.3	8.0	7.8	10.7	11.0	7.9	20.1	45.2
28	8.3	4.8	13.0	9.1	21.5	24.2	13.2	14.9	14.5	17.9	18.6	23.8	11.1	8.3	7.2	X	X	X	X	X	X	X	X	-	-	
29	X	12.3	13.1	6.9	4.7	4.8	5.4	6.2	8.9	12.8	12.0	13.7	14.5	14.8	14.6	18.9	21.2	21.5	10.3	10.6	11.8	13.4	16.3	8.2	12.0	21.5
30	34.6	26.4	32.4	51.7	30.4	29.2	29.5	30.5	57.7	75.2	85.5	15.9	4.6	13.7	6.9	7.5	10.8	13.9	10.5	11.3	18.0	10.7	11.4	5.2	26.0	85.5
31	3.9	2.8	3.6	9.8	29.2	20.1	22.1	22.7	10.4	8.6	6.1	3.9	5.6	6.2	5.0	8.0	5.7	5.4	3.4	5.3	3.8	3.7	2.6	4.4	8.4	29.2
NO.	24	25	26	27	28	27	28	28	27	27	27	27	26	25	26	25	24	25	25	25	25	25	25	25	622	84%
MEAN	18.1	22.5	19.3	19.1	25.6	27.7	23.4	24.6	27.1	29.6	26.0	19.2	15.9	16.5	17.7	15.1	17.1	12.1	9.9	9.0	11.8	12.3	11.1	13.7		
MAX	68.6	90.3	72.5	51.7	118.5	104.0	101.6	88.5	58.9	82.9	85.5	48.7	68.1	75.1	65.4	45.1	54.7	32.6	29.1	27.6	30.3	33.7	36.6	49.5		



Number of 24HR Exceedences	4	Proposed Guideline	
Number of Non-Zero Readings	622		
Maximum 1-HR Average	118.5 UG/M3		
Maximum 24-HR Average	46.8 UG/M3		
Monthly Calibration	0	Operational Time	622 HRS
Standard Deviation	17.22	Operational Uptime	83.6 %
		Monthly Average	18.7 UG/M3

# Entrance PM<sub>10</sub> (µg/m<sup>3</sup>) – March 2024

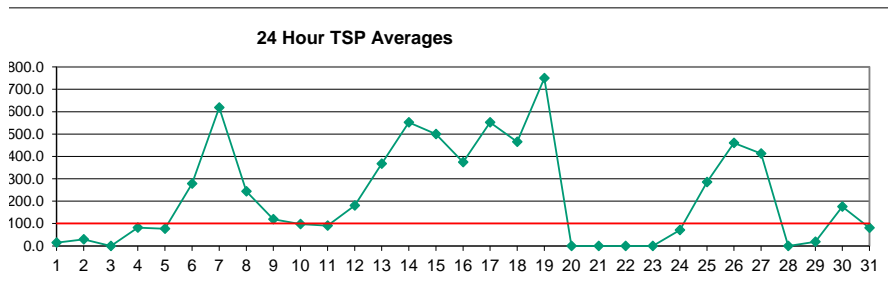
Day	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	2.9	5.9	3.3	1.9	2.9	3.6	3.5	6.9	11.3	13.6	11.0	19.9	17.2	24.7	33.0	15.9	13.5	31.7	15.2	17.6	21.0	15.2	11.2	15.1	13.3	33.0	
2	22.3	30.9	40.6	19.9	18.9	21.4	27.0	50.5	69.5	35.0	25.5	23.7	21.7	23.8	39.2	29.3	13.2	29.5	11.9	13.0	13.6	6.1	4.1	4.3	24.8	69.5	
3	3.2	7.8	7.3	11.8	6.9	14.5	8.6	9.7	7.4	15.4	17.5	9.3	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
4	X	X	X	6.4	11.4	7.5	5.6	5.3	6.7	14.6	25.2	17.6	19.2	12.3	10.3	8.8	X	27.4	18.1	15.4	12.6	5.4	6.8	13.0	12.5	27.4	
5	18.4	17.1	14.2	13.9	17.6	12.8	9.4	12.6	21.6	26.0	20.6	48.4	36.2	12.7	9.3	7.9	10.2	27.0	12.8	9.1	7.7	8.1	10.0	13.5	16.5	48.4	
6	10.2	23.1	22.6	18.7	23.4	27.9	24.3	33.2	371.0	211.5	205.2	69.6	30.7	14.5	7.2	9.8	11.8	5.4	11.4	30.8	43.6	38.2	54.1	196.5	62.3	371.0	
7	228.3	205.4	300.0	228.5	281.0	X	120.0	222.7	X	267.9	257.5	179.0	71.5	13.9	16.1	36.5	16.5	28.9	29.6	29.0	91.4	220.2	113.9	80.9	138.1	300.0	
8	133.2	74.8	75.6	30.4	46.3	56.3	41.3	31.6	74.5	86.7	59.4	20.5	30.2	12.3	20.9	12.3	16.5	8.7	7.4	9.6	36.5	19.8	17.8	36.2	40.0	133.2	
9	49.9	16.7	7.5	8.3	6.7	7.4	6.3	11.8	54.6	25.9	14.6	106.5	94.9	64.2	58.2	22.0	14.8	29.8	51.1	20.4	14.2	15.3	27.1	44.8	32.2	106.5	
10	66.1	40.5	13.2	9.1	25.7	33.0	23.5	34.7	42.1	24.3	64.1	53.0	43.4	12.4	14.9	14.6	15.4	22.0	27.8	18.6	31.1	9.2	18.2	23.2	28.3	66.1	
11	14.6	27.3	36.7	32.4	34.0	34.0	38.6	65.3	175.0	112.8	101.7	26.2	60.8	42.7	52.0	47.3	60.2	84.9	81.2	87.7	75.2	70.9	50.5	48.8	60.9	175.0	
12	114.3	131.3	45.9	6.2	11.0	64.6	104.7	79.6	57.6	59.4	113.1	103.5	78.1	91.7	108.6	59.2	60.9	41.1	18.5	57.1	149.6	167.5	103.3	126.5	81.4	167.5	
13	120.9	90.4	111.8	158.3	194.4	230.0	234.6	268.1	135.9	108.4	190.0	169.2	163.3	144.9	107.7	56.8	243.5	75.2	17.6	8.6	8.1	8.7	6.8	12.2	119.4	268.1	
14	10.5	67.3	136.2	160.0	347.1	658.2	380.4	262.9	323.1	408.6	129.0	231.7	196.0	142.6	147.5	148.6	70.4	16.0	46.3	23.2	20.4	33.2	37.8	60.8	169.1	658.2	
15	18.3	68.4	130.2	217.4	394.3	460.9	353.4	356.0	336.6	636.5	457.7	292.8	103.3	57.6	143.8	117.6	125.4	37.9	247.8	26.4	50.1	31.3	19.6	14.2	195.7	636.5	
16	36.3	320.2	166.2	150.6	246.0	377.2	393.2	202.1	134.8	146.4	85.7	197.4	117.7	241.4	240.2	204.8	406.8	128.1	101.3	19.6	22.0	3.5	74.8	171.0	174.5	406.8	
17	390.5	514.4	157.6	233.5	299.9	343.5	331.3	466.2	367.0	518.3	650.8	166.7	48.5	X	75.9	88.3	75.3	40.6	14.3	7.7	21.8	85.7	133.3	158.5	225.6	650.8	
18	160.9	158.4	100.4	169.9	320.2	204.1	152.5	217.8	202.9	266.7	192.9	300.6	193.7	530.4	390.7	355.2	306.2	107.3	65.3	53.8	80.7	139.6	41.3	7.3	196.6	530.4	
19	52.4	14.5	25.3	385.6	1071.4	1010.1	546.5	404.5	454.0	629.7	453.6	369.1	556.1	276.4	542.6	342.2	515.5	276.8	123.9	38.4	19.9	18.6	7.0	10.6	339.4	1071.4	
20	X	X	2.9	3.7	8.1	20.1	10.6	27.7	32.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	X	13.7	16.1	14.9	14.2	24.3	35.3	26.3	19.4	22.0	29.9	55.6	65.4	85.7	50.1	38.3	23.1	20.8	26.4	12.9	13.5	30.4	85.7
25	43.4	78.3	108.7	46.9	58.9	65.1	39.8	57.9	157.4	334.4	220.5	332.8	175.0	123.9	220.6	161.0	171.1	49.5	79.7	24.9	21.5	21.4	17.0	18.9	109.5	334.4	
26	17.4	71.5	96.9	68.9	72.7	81.0	88.6	285.6	397.1	436.8	433.2	214.1	239.2	279.3	231.0	146.6	434.9	200.1	35.9	15.3	37.9	77.4	198.3	279.7	185.0	436.8	
27	142.5	185.2	79.2	121.4	281.9	241.1	144.8	134.4	407.6	241.0	223.0	284.0	165.9	190.7	364.0	218.3	133.1	43.2	21.7	46.9	52.4	70.8	68.1	46.1	162.8	407.6	
28	43.5	18.8	85.6	58.3	244.6	210.8	19.7	21.7	20.0	25.5	71.2	148.8	16.0	11.3	9.9	X	X	X	X	X	X	X	X	X	-	-	
29	X	16.8	18.0	7.0	4.7	4.8	5.4	6.2	8.9	12.8	12.0	13.7	14.5	21.3	19.3	25.2	28.2	27.6	10.3	10.6	11.8	13.4	16.3	8.2	13.8	28.2	
30	51.3	33.7	46.6	77.6	45.5	43.7	44.2	45.7	156.1	454.2	484.3	61.8	20.8	75.2	39.1	31.8	46.7	64.4	48.2	53.3	89.5	15.6	14.6	6.0	85.4	484.3	
31	5.6	2.8	3.7	14.2	43.8	30.2	33.1	68.2	51.1	36.2	23.4	10.4	26.4	27.9	32.0	71.8	40.5	43.3	14.7	18.0	16.0	25.0	16.1	30.3	28.5	71.8	
NO.	24	25	26	27	28	27	28	28	27	27	27	27	26	25	26	25	24	25	25	25	25	25	25	25	25	622	84%
MEAN	73.2	88.9	70.6	83.7	147.6	158.5	114.5	121.5	151.9	192.0	169.2	129.3	98.5	99.1	115.0	91.9	121.5	59.9	46.0	27.1	38.8	45.9	43.2	57.6			
MAX	390.5	514.4	300.0	385.6	1071.4	1010.1	546.5	466.2	454.0	636.5	650.8	369.1	556.1	530.4	542.6	355.2	515.5	276.8	247.8	87.7	149.6	220.2	198.3	279.7			



Number of Non-Zero Readings	622
Maximum 1-HR Average	1071.4 UG/M3
Maximum 24-HR Average	339.4 UG/M3
Monthly Calibration	0
Standard Deviation	134.5
Operational Time	622 HRS
Operational Uptime	83.6 %
Monthly Average	99.1 UG/M3

# Entrance TSP ( $\mu\text{g}/\text{m}^3$ ) – March 2024

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.9	5.9	3.3	1.9	2.9	3.6	3.5	6.9	11.3	13.6	11.0	20.6	17.3	28.7	40.8	15.9	13.5	37.4	15.2	17.6	21.0	15.2	11.2	15.1	14.0	40.8
2	22.3	31.0	46.6	19.9	18.9	21.4	28.1	59.4	88.9	43.7	29.4	29.6	25.1	29.9	50.6	37.6	15.2	37.9	13.3	14.9	16.2	6.1	4.1	4.3	28.9	88.9
3	3.2	8.0	7.3	14.4	6.9	16.0	8.6	9.7	7.4	17.1	21.2	9.3	X	X	X	X	X	X	X	X	X	X	X	X	-	-
4	X	X	X	6.4	13.0	7.6	5.6	5.3	18.2	149.6	486.4	110.1	59.0	47.7	46.8	39.0	X	549.9	23.1	19.4	14.2	5.4	6.8	14.9	81.4	549.9
5	23.4	21.5	17.4	17.0	22.2	14.8	9.4	14.2	23.3	30.8	81.0	699.5	710.2	16.1	11.4	9.6	11.6	33.7	14.9	10.0	8.1	9.8	12.8	17.4	76.7	710.2
6	12.2	28.7	27.8	22.2	28.7	35.7	31.1	42.9	2289.0	1088.9	975.1	367.9	131.2	81.5	39.6	53.7	37.2	20.6	29.2	102.6	139.8	152.9	198.6	749.2	278.6	2289.0
7	788.7	985.7	1481.4	1124.4	1460.1	X	583.0	1069.6	X	1111.1	838.0	737.7	501.7	67.9	113.8	246.1	77.2	90.1	104.9	115.2	364.5	934.9	478.1	330.8	618.4	1481.4
8	749.0	440.4	554.4	195.6	291.8	404.3	365.5	207.4	546.1	646.5	332.7	109.0	114.7	59.7	95.2	68.4	62.3	35.2	47.9	45.5	132.3	82.6	93.0	167.4	243.6	749.0
9	244.6	126.5	46.3	59.8	35.2	36.1	33.1	53.5	124.0	68.9	45.8	309.1	301.7	208.6	170.7	71.9	58.1	162.1	283.4	86.6	43.2	42.7	136.8	117.6	119.4	309.1
10	114.3	142.7	80.4	56.1	175.5	222.6	108.0	110.6	146.1	93.5	342.1	190.7	139.4	45.4	29.0	32.3	32.5	33.7	113.5	23.6	39.5	10.9	22.5	28.9	97.3	342.1
11	17.8	34.9	47.4	41.7	43.6	43.6	83.7	122.4	304.1	145.2	122.4	37.4	98.8	74.1	100.5	105.2	92.5	108.3	94.5	98.2	112.8	91.6	81.0	64.2	90.0	304.1
12	147.2	164.5	48.2	7.7	13.7	115.1	275.7	268.6	152.8	120.7	358.0	338.8	251.2	315.1	349.9	159.2	188.6	100.5	34.8	77.9	151.3	228.6	202.5	270.5	180.9	358.0
13	265.3	179.2	249.8	552.6	715.2	993.7	871.3	681.7	300.7	219.9	536.7	453.1	484.4	425.0	292.1	135.6	1054.8	268.4	84.4	9.6	8.6	9.6	7.6	14.9	367.3	1054.8
14	12.3	117.3	262.1	413.4	989.5	1946.4	1472.4	939.4	1106.8	1412.6	562.1	907.1	594.9	501.2	438.9	415.6	207.2	42.8	140.4	90.5	91.5	169.4	170.7	253.5	552.4	1946.4
15	65.1	144.2	299.2	491.2	889.1	1182.8	938.9	1153.3	1008.6	1544.3	1101.5	819.6	327.4	159.5	343.0	273.9	311.9	92.5	610.3	55.3	102.4	46.8	25.8	18.1	500.2	1544.3
16	46.0	567.5	358.8	319.2	493.1	779.4	736.1	396.2	270.3	272.0	189.3	479.7	261.4	574.4	565.2	454.7	1041.0	376.2	276.1	47.5	45.7	4.3	129.6	306.5	374.6	1041.0
17	761.9	1078.5	363.3	514.9	717.9	873.9	950.2	1287.4	1027.1	1338.6	1610.0	484.8	139.4	X	201.8	242.9	187.0	91.0	25.9	8.6	39.7	187.9	252.5	321.5	552.5	1610.0
18	353.3	406.4	210.0	417.7	746.4	593.2	423.0	508.0	617.9	799.8	453.3	624.0	464.6	1011.3	1035.8	856.1	781.7	227.3	122.5	77.7	182.0	164.1	68.3	12.2	464.9	1035.8
19	187.8	40.5	45.0	595.2	1365.8	1554.3	772.8	1104.1	1244.7	1732.6	1404.6	1048.4	1364.9	860.7	1308.6	949.0	1179.6	696.4	452.4	38.6	19.9	18.6	7.0	10.6	750.1	1732.6
20	X	X	2.9	3.7	8.1	21.9	10.6	27.8	37.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
24	X	X	X	X	13.7	16.1	14.9	14.2	27.0	43.7	26.7	22.9	36.1	106.3	181.4	226.1	295.6	161.7	103.7	49.8	20.8	27.2	12.9	13.5	70.7	295.6
25	50.9	100.8	140.3	60.3	75.6	83.6	50.7	120.3	301.9	870.6	479.2	769.0	486.0	461.0	888.2	576.4	691.6	148.0	340.4	72.9	21.5	21.4	17.0	18.9	285.3	888.2
26	17.4	84.3	122.8	86.1	91.7	104.3	207.2	1144.1	1136.2	1263.4	1171.7	637.2	639.3	776.2	638.2	380.4	989.4	358.8	89.7	25.0	60.8	95.4	330.9	597.3	460.3	1263.4
27	243.7	310.4	138.9	242.2	710.9	806.4	412.3	346.7	921.5	735.8	683.9	798.4	445.8	510.0	1016.4	575.4	376.8	97.9	35.9	78.8	91.8	115.7	160.7	60.1	413.2	1016.4
28	67.5	18.8	123.4	97.7	539.4	490.4	25.2	25.3	20.5	27.7	286.1	845.2	18.2	11.5	15.1	X	X	X	X	X	X	X	X	-	-	
29	X	19.8	20.6	7.0	4.7	4.8	5.4	6.2	8.9	12.8	12.0	13.7	14.5	116.1	20.1	27.4	33.2	30.9	10.3	10.6	11.8	13.4	16.3	8.2	18.6	116.1
30	57.4	33.7	47.3	84.1	53.3	53.9	55.4	58.7	404.6	1232.2	1086.0	88.6	86.9	163.2	99.2	65.1	74.8	95.7	66.4	73.6	135.4	28.3	71.4	6.0	175.9	1232.2
31	13.5	2.8	3.7	16.4	56.2	38.2	42.0	155.5	150.4	89.9	60.8	37.6	54.6	59.2	122.6	232.3	148.1	178.3	41.8	43.3	57.8	115.4	85.3	123.8	80.4	232.3
NO.	24	25	26	27	28	27	28	28	27	27	27	27	26	25	26	25	24	25	25	25	25	25	25	25	622	84%
MEAN	177.8	203.8	182.6	202.5	342.3	387.6	304.4	355.0	455.4	560.2	492.9	407.0	298.8	268.4	316.0	249.8	331.7	163.0	127.0	51.7	77.3	103.9	104.1	141.8		
MAX	788.7	1078.5	1481.4	1124.4	1460.1	1946.4	1472.4	1287.4	2289.0	1732.6	1610.0	1048.4	1364.9	1011.3	1308.6	949.0	1179.6	696.4	610.3	115.2	364.5	934.9	478.1	749.2		



Number of 24HR Exceedences	16	Proposed Guideline	
Number of Non-Zero Readings	622		
Maximum 1-HR Average	2289.0 UG/M3		
Maximum 24-HR Average	750.1 UG/M3		
Monthly Calibration	0	Operational Time	622 HRS
Standard Deviation	365.3	Operational Uptime	83.6 %
		Monthly Average	266.8 UG/M3