LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

MAY 2023

JUNE 26, 2023

AMBIENT AIR QUALITY MONTHLY REPORT

MAY 2023

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-05
DATE: JUNE 26, 2023

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June 26, 2023

LAFARGE CANADA INC.
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Exshaw, AB T0L 2C0

Attention: Nikolaos Veriotes P. Eng.

Dear Mr. Veriotes,

Subject: Ambient Air Quality Monthly Report – May 2023

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 May 2023.

Lagoon	Data Completeness (%)	1-Hour Average	24-hour Average
		Exceedances of AAAQO or AAAQG	Exceedances of AAAQO
TSP	100%	-	3
$PM_{2.5}$	97.6%	50	4
PM_{10}	100%	-	-
NO	100%	-	-
NO_2	100%	0	-
NO_x	100%	-	-
SO_2	100%	0	0
Temperature	100%	-	-
Wind Speed / Direction	100%	-	-
Pressure	100%	-	-
Relative Humidity	100%	-	-
Precipitation	100%	-	-

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The following table summarizes the data completeness and reported exceedances of Alberta Ambient Air Quality Objectives (AAAQOs) or Guidelines (AAAQG) at the Windridge Station for May 2023.

Windridge	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of AAAQG	Exceedances of $PM_{2.5}$ AAAQO	Exceedances of TSP AAAQO
TSP	100%	-	-	5
$PM_{2.5}$	100%	51	4	-
PM_{10}	100%	-	-	-

The GRIMM monitors are considered Industrial Ambient Monitors and are meant for assessing the performance of Lafarge Exshaw's Fugitive Dust Control Best Management Practices – Program; the GRIMM monitors are not Air Monitoring Directive (AMD) compliant. This Program uses the AAAQOs as Guidelines. The following table summarizes the data completeness and exceedances of the Guidelines at the GRIMM Monitors for May 2023.

GRIMM Stations	Data Completeness (%)	1-Hour Average	24-hour Average	
		Exceedances of $PM_{2.5}$ Guidelines	Exceedances of $PM_{2.5}$ Guidelines	Exceedances of TSP Guidelines
West	100%	51	3	3
Berm	100%	36	4	10
Entrance	51.2%	18	2	11

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

Sincerely,

Rowena Seto, B.Sc.
Air Quality Specialist

SIGNATURES

PREPARED BY

June 26, 2023

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Date

APPROVED[1] BY *(must be reviewed for technical accuracy prior to approval)*

June 26, 2023

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Date

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TABLE OF CONTENTS

1 INTRODUCTION 1

1.1 Exshaw Creek Flood Mitigation 1

1.2 Wildfire Impact on Bow Valley Airshed 3

2 MAY 2023 REPORT SUMMARY 4

2.1 Lagoon Station 4

2.2 Windridge Station 5

2.3 West Grimm 5

2.4 Berm Grimm 6

2.5 Entrance Grimm 7

3 LAGOON STATION 8

3.1 Operational Summary 8

3.2 Monitoring Results and Trends 9

4 WINDRIDGE STATION 22

4.1 Operational Summary 22

4.2 Monitoring Results and Trends 22

5 WEST INDUSTRIAL GRIMM 33

5.1 Operational Summary 33

5.2 Monitoring Results and Trends 33

6 BERM INDUSTRIAL GRIMM 41

6.1 Operational Summary 41

6.2 Monitoring Results and Trends 41

7 ENTRANCE INDUSTRIAL GRIMM 49

7.1 Operational Summary 49

7.2 Monitoring Results and Trends 49

BIBLIOGRAPHY 58

TABLES

TABLE 2-1 LAGOON STATION DATA SUMMARY 4
TABLE 2-2 WINDRIDGE STATION DATA SUMMARY 5
TABLE 2-3 WEST STATION DATA SUMMARY....6
TABLE 2-4 BERM STATION DATA SUMMARY....6
TABLE 2-5 ENTRANCE STATION DATA SUMMARY 7
TABLE 3-1 INSTRUMENTATION LIST AT THE LAGOON STATION.....8
TABLE 3-2 SUMMARY OF MAY 2023 DATA AT THE LAGOON STATION.....10
TABLE 3-3 DAYS EXCEEDING THE TSP AAAQO OR $PM_{2.5}$ AAAQO AT THE LAGOON STATION 11
TABLE 4-1 INSTRUMENTATION LIST AT THE WINDRIDGE STATION 22
TABLE 4-2 SUMMARY OF MAY 2023 DATA AT THE WINDRIDGE STATION.....24
TABLE 4-3 DAYS EXCEEDING THE TSP AAAQO OR $PM_{2.5}$ AAAQO AT THE WINDRIDGE STATION 25
TABLE 5-1 INSTRUMENTATION LIST AT THE WEST MONITORING LOCATION 33
TABLE 5-2 SUMMARY OF MAY 2023 DATA AT THE WEST GRIMM.....34
TABLE 5-3 DAYS EXCEEDING THE TSP AAAQO OR $PM_{2.5}$ AAAQO AT THE WEST STATION 35
TABLE 6-1 INSTRUMENTATION LIST AT THE BERM MONITORING LOCATION 41
TABLE 6-2 SUMMARY OF MAY 2023 DATA AT THE BERM GRIMM.....42
TABLE 6-3 DAYS EXCEEDING THE GUIDELINE FOR TSP OR $PM_{2.5}$ AT THE BERM MONITOR.....43
TABLE 7-1 INSTRUMENTATION LIST AT THE ENTRANCE MONITORING LOCATION 49

TABLE 7-2 SUMMARY OF MAY 2023 DATA AT THE ENTRANCE GRIMM 51
TABLE 7-3 DAYS EXCEEDING THE GUIDELINE FOR TSP OR $PM_{2.5}$ AT THE ENTRANCE MONITOR 52

FIGURES

FIGURE 1-1 LOCATIONS OF AIR QUALITY MONITORS IN EXSHAW 1
FIGURE 1-2 PHOTO OF COMPLETED FLOOD MITIGATION WORK AT EXSHAW CREEK.....2
FIGURE 3-1 INLETS ON THE TOP OF WSP'S LAGOON STATION.....9
FIGURE 3-2 1-HOUR CONCENTRATIONS OF NO_X, SO_2, PARTICULATE MATTER, WIND DIRECTION AND WIND SPEED AT THE LAGOON STATION 12
FIGURE 3-3 HISTOGRAM OF HOURLY NO_2 CONCENTRATIONS AT THE LAGOON STATION.....13
FIGURE 3-4 HISTOGRAM OF HOURLY SO_2 CONCENTRATIONS AT THE LAGOON STATION.....13
FIGURE 3-5 HISTOGRAM OF HOURLY $PM_{2.5}$ CONCENTRATIONS AT THE LAGOON STATION.....14
FIGURE 3-6 HISTOGRAM OF HOURLY PM_{10} CONCENTRATIONS AT THE LAGOON STATION.....14
FIGURE 3-7 HISTOGRAM OF HOURLY TSP CONCENTRATIONS AT THE LAGOON STATION.....15
FIGURE 3-8 24-HOUR CONCENTRATIONS OF NO_X, SO_2, AND PARTICULATE MATTER AT THE LAGOON MONITOR 16
FIGURE 3-9 WIND ROSE FOR TSP EXCEEDANCE DAYS RECORDED AT THE LAGOON STATION.....17
FIGURE 3-10 WIND ROSE FOR $PM_{2.5}$ EXCEEDANCE DAYS RECORDED AT THE LAGOON STATION.....18

FIGURE 3-11 LAGOON MONITOR PARTICULATE MATTER TIME VARIATION 19
FIGURE 3-12 LAGOON MONITOR SO_2 TIME VARIATION 20
FIGURE 3-13 LAGOON MONITOR NO_X TIME VARIATION 21
FIGURE 4-1 1-HOUR PARTICULATE MATTER CONCENTRATIONS RECORDED AT THE WINDRIDGE MONITOR 26
FIGURE 4-2 HISTOGRAM OF HOURLY $PM_{2.5}$ CONCENTRATIONS AT THE WINDRIDGE STATION 27
FIGURE 4-3 HISTOGRAM OF HOURLY PM_{10} CONCENTRATIONS AT THE WINDRIDGE STATION 27
FIGURE 4-4 HISTOGRAM OF HOURLY TSP CONCENTRATIONS AT THE WINDRIDGE STATION 28
FIGURE 4-5 24-HOUR PARTICULATE MATTER CONCENTRATIONS AT THE WINDRIDGE MONITOR.....29
FIGURE 4-6 WIND ROSE FOR TSP EXCEEDANCE DAYS RECORDED AT THE WINDRIDGE STATION.....30
FIGURE 4-7 WIND ROSE FOR $PM_{2.5}$ EXCEEDANCE DAYS RECORDED AT THE WINDRIDGE STATION.....31
FIGURE 4-8 WINDRIDGE PARTICULATE MATTER TIME VARIATION.....32
FIGURE 5-1 1-HOUR PARTICULATE MATTER CONCENTRATIONS AT THE WEST MONITOR.....36
FIGURE 5-2 24-HOUR PARTICULATE MATTER CONCENTRATIONS AT THE WEST MONITOR.....37
FIGURE 5-3 WIND ROSE FOR TSP EXCEEDANCE DAYS RECORDED AT THE WEST GRIMM.....38
FIGURE 5-4 WIND ROSE FOR $PM_{2.5}$ EXCEEDANCE DAYS RECORDED AT THE WEST GRIMM.....39
FIGURE 5-5 WEST MONITOR PARTICULATE MATTER TIME VARIATION.....40
FIGURE 6-1 1-HOUR PARTICULATE MATTER CONCENTRATIONS RECORDED AT THE BERM MONITOR 44

FIGURE 6-2 24-HOUR PARTICULATE MATTER CONCENTRATIONS RECORDED AT THE BERM MONITOR 45
FIGURE 6-3 WINDROSE FOR TSP EXCEEDANCE DAYS RECORDED AT THE BERM GRIMM.....46
FIGURE 6-4 WINDROSE FOR $PM_{2.5}$ EXCEEDANCE DAYS RECORDED AT BERM GRIMM 47
FIGURE 6-5 BERM PARTICULATE MATTER TIME VARIATION 48
FIGURE 7-1 1-HOUR PARTICULATE MATTER CONCENTRATIONS RECORDED AT THE ENTRANCE MONITOR.....53
FIGURE 7-2 24-HOUR PARTICULATE MATTER CONCENTRATIONS RECORDED AT THE ENTRANCE MONITOR.....54
FIGURE 7-3 WIND ROSE FOR TSP EXCEEDANCE DAYS RECORDED AT THE ENTRANCE GRIMM 55
FIGURE 7-4 WIND ROSE FOR $PM_{2.5}$ EXCEEDANCE DAYS RECORDED AT THE ENTRANCE GRIMM 56
FIGURE 7-5 ENTRANCE PARTICULE MATER TIME VARIATION.....57

APPENDICES

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 May 1, 2023 and May 31, 2023.

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

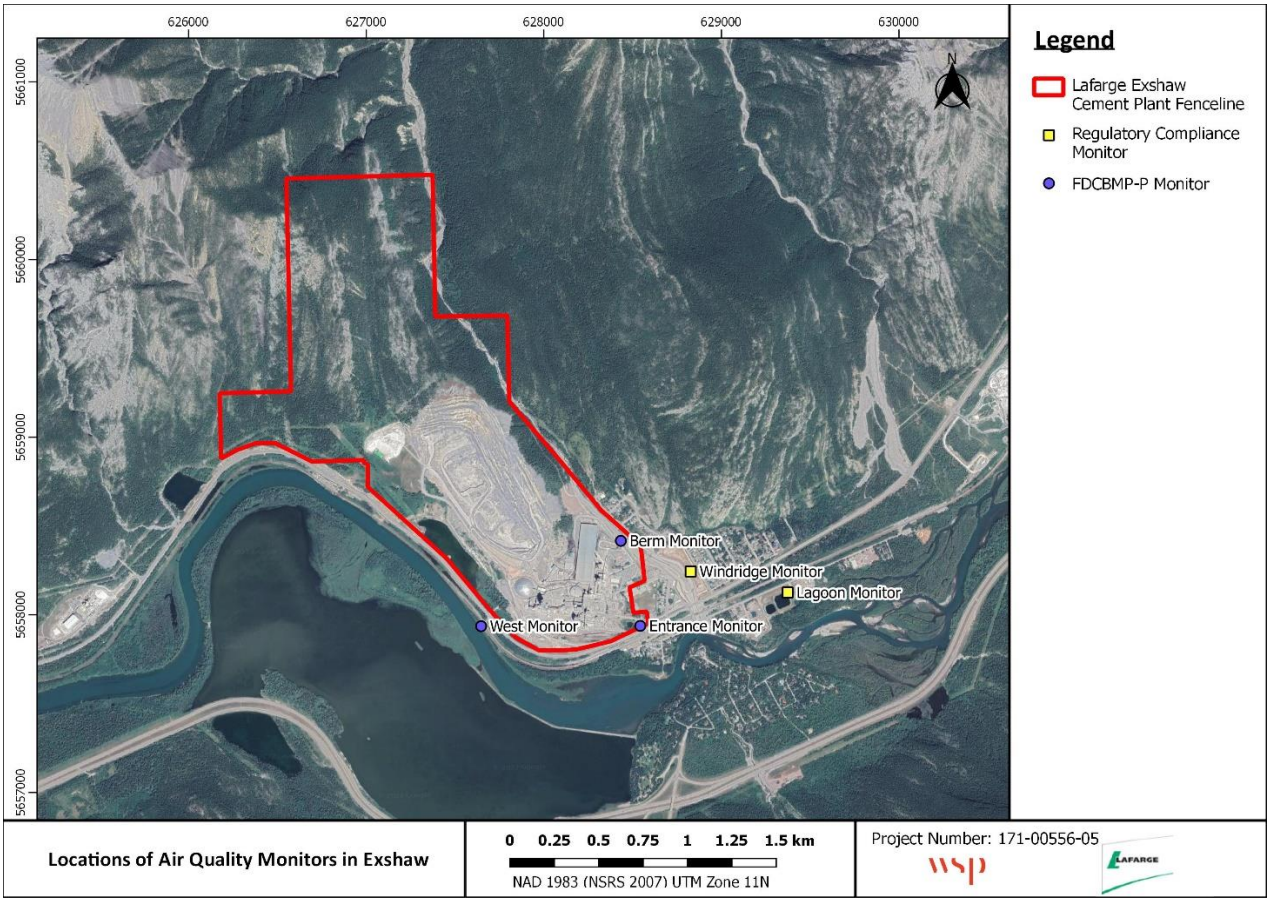

Figure 1-1 Locations of Air Quality Monitors in Exshaw

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 May 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

1.2 WILDFIRE IMPACT ON BOW VALLEY AIRSHED

During the month of May regional wildfire activity, including smoke impacts from Alberta, had a drastic impact on air quality in the Bow Valley airshed. Wildfires produce a large amount of suspend particulate matter which can affect air quality and result in AAAQO and AAAQG exceedances. The majority of TSP and $PM_{2.5}$ exceedances during the month of May can be attributed to smoke from a regional wildfire, and not specific industrial operations from Lafarge Exshaw.

2 MAY 2023 REPORT SUMMARY

This summary section provides the pertinent details on data collected and maintenance/calibration activities at each of the monitoring locations. The monitoring results for each station are described in further detail in their corresponding sections. Maximum hourly concentrations are shown for all particulate matter size fractions, but there are no Alberta Ambient Air Quality Objectives (AAAQO) for 1-hour PM concentrations. The exceedances reported for 1-hour $PM_{2.5}$ are those above the 1-hour $PM_{2.5}$ Alberta Ambient Air Quality Guidelines (AAAQG).

2.1 LAGOON STATION

Table 2-1 Lagoon station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQO or AAAQG	Maximum Concentration	Exceedances of AAAQO
NO_2 (ppb)	100	26.7	0	11.0	-
SO_2 (ppb)	100	14.8	0	3.3	0
$PM_{2.5}$ (µg/m^3)	97.6	250.2	50[1]	155.0	4
PM_{10} (µg/m^3)	100	422.2	-	190.2	-
TSP (µg/m^3)	100	457.4	-	227.8	3
Temperature (°C)	100	27.8	-	20.1	-
Wind Speed (km/hr) /Direction (Degrees)	100	36.1/W	-	25.4/WSW	-
Precipitation (mm)	100	3.5[2]	-	31.25[3]	-

[1] Any exceedances reported for 1-hour $PM_{2.5}$ are over the guideline level (AAAQG) of 80 µg/m^3.
[2] Maximum Daily Total Accumulation of Precipitation (mm) – freezing temperatures can impact the precipitation totals in winter months.
[3] Monthly Total Accumulation of Precipitation (mm) - freezing temperatures can impact the precipitation totals in winter months.

Data Quality Notes:

- There were 4 days exceeding the 24-hour $PM_{2.5}$ AAAQO.
- There were 50 hours exceeding the 1-hour $PM_{2.5}$ AAAQG.
- There was 3 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- At the Lagoon station, PM_{10} and TSP analyzers recorded 100% uptime for the month of May.
- NO_2 and SO_2 analyzers recorded 100% uptime for the month of May.
- All meteorological analyzers recorded 100% uptime for the month of May.
- The $PM_{2.5}$ analyzer recorded 97.6% uptime for the month of May due to 18 hours of equipment malfunction occurring at 2:00 on May 2nd through May 9th, May 14th, May 15th, May 19th, May 20th, and May 23rd through May 28th.

2.2 WINDRIDGE STATION

Table 2-2 Windridge station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of AAAQG	Maximum Concentration	Exceedances of AAAQO
$PM_{2.5}$ (µg/m³)	100	235.0	51*	145.5	4
PM_{10} (µg/m³)	100	409.0	-	182.3	-
TSP (µg/m³)	100	602.0	-	202.0	5

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

Data Quality Notes:

- There were 4 days exceeding the 24-hour $PM_{2.5}$ AAAQO.
- There were 51 hours exceeding the 1-hour $PM_{2.5}$ AAAQG.
- There were 5 days exceeding the 24-hour TSP AAAQO.

Calibration/Maintenance Notes:

- The analyzer recorded 100% uptime during the month of May.

2.3 WEST GRIMM

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

Table 2-3 West station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
$PM_{2.5}$ (µg/m³)	100	259.8	51*	150.0	3
PM_{10} (µg/m³)	100	361.1	-	184.4	-
TSP (µg/m³)	100	361.1	-	184.5	3

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

Data Quality Notes:

- There were 3 days exceeding the 24-hour $PM_{2.5}$ Guidelines.
- There were 51 hours exceeding the 1-hour $PM_{2.5}$ Guidelines.
- There were 3 days exceeding the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer recorded 100% uptime during the month of May.

2.4 BERM GRIMM

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

Table 2-4 Berm station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
$PM_{2.5}$ (µg/m³)	100	216.7	36*	102.7	4
PM_{10} (µg/m³)	100	568.7	-	141.5	-
TSP (µg/m³)	100	1466.8	-	361.4	10

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

Data Quality Notes:

- There was 4 days exceeding the 24-hour $PM_{2.5}$ Guidelines.
- There were 36 hours exceeding the 1-hour $PM_{2.5}$ Guidelines.
- There were 10 days exceeding the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The analyzer recorded 100% uptime during the month of May.

2.5 ENTRANCE GRIMM

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

Table 2-5 Entrance station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
$PM_{2.5}$ ($\mu g/m^3$)	51.2	142.3	18*	96.5	2
PM_{10} ($\mu g/m^3$)	51.2	390.7	-	204.4	-
TSP ($\mu g/m^3$)	51.2	948.4	-	388.2	11

* Any exceedances reported for 1-hour $PM_{2.5}$ are over the guideline level (AAAQG) of 80 $\mu g/m^3$.

Data Quality Notes:

- There were 2 days exceeding the 24-hour $PM_{2.5}$ Guidelines.
- There were 18 hours exceeding the 1-hour $PM_{2.5}$ Guidelines.
- There were 11 days exceeding the 24-hour TSP Guidelines.

Calibration/Maintenance Notes:

- The $PM_{2.5}$, PM_{10}, and TSP monitors recorded 51.2% uptime during the month of May due to 362 hours of collection error (i.e. communication error), which occurred on May 5th 10:00 through May 6th 2:00, May 16th 7:00 through May 18th 2:00, and May 19th 12:00 through May 31st at 24:00. And further, 1 hour of equipment change occurring on May 19th at 11:00.

3 LAGOON STATION

The Lagoon trailer contains NO_x, SO_2, TSP, PM_{10}, and $PM_{2.5}$ analyzers as well as meteorological sensors, and is shown in Figure 3-1. An ambient air quality station has been at this location since 2002, providing a long-term data record for air quality in the Exshaw area.

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes, a wind rose (Figure 3-9) and tables and graphs illustrating the monitoring results for May 2023.

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

3.1 OPERATIONAL SUMMARY

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

Table 3-1 Instrumentation List at the Lagoon Station

Parameter Measured	Equipment Description	Notes
$PM_{2.5}$ Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The $PM_{2.5}$ monitor was calibrated on May 19th. The monitor had 97.6% uptime for the month of May due to 18 hours of equipment malfunction occurring at 2:00 on May 2nd through May 9th, May 14th, May 15th, May 19th, May 20th, and May 23rd through May 28th.
PM_{10} Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM_{10} monitor was calibrated on May 19th. The monitor had 100% uptime for the month of May.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on May 19th. The monitor had 100% uptime for the month of May.
Oxides of Nitrogen	TEI 42C	The NO_x monitor was calibrated on May 9th. The monitor had 100% uptime for the month of May.
Sulphur Dioxide	Teledyne API 102A	The SO_2 monitor was calibrated on May 9th. The monitor had 100% uptime for the month of May.
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime for the month of May.
Wind Speed	MetOne Wind Sensor	The monitor had 100% uptime for the month of May.
Wind Direction		

Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 100% uptime for the month of May.

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

3.2 MONITORING RESULTS AND TRENDS

Table 3-2 summarizes the hourly and daily concentrations recorded in May 2023. 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 May 2023 for the pollutants listed in Table 3-2. Table 3-3 summarizes the recorded exceedances. Additionally, Figure 3-3 to Figure 3-7 show the histograms of the hourly concentrations of NO_2, SO_2, $PM_{2.5}$, PM_{10}, and TSP measured at the Lagoon station.

There was 3 days exceeding the 24-hour TSP (100 µg/m^3) AAAQO. There were 4 exceedances of the 24-hour $PM_{2.5}$ (29 µg/m^3) AAAQO. Furthermore, there were 50 exceedances of the 1-hour $PM_{2.5}$ AAAQG (80 µg/m^3). As discussed in Section 1.2, the Bow Valley airshed was impacted from regional wildfire activity in May. All the exceedances were primarily attributable to wildfire activity and smoke in the airshed from fires in Alberta.

Historically in May, the average number of 24-hour TSP AAAQO exceedances and 24-hour $PM_{2.5}$ AAAQO exceedances are both 0. The maximum number of 24-hour TSP AAAQO exceedances recorded in May was 1 day in 2022. The maximum number of 24-hour $PM_{2.5}$ AAAQO exceedances recorded in May was 1 day in 2019.

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 May 2023 data at the Lagoon Station

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO_2 (ppb)	159	-	Lagoon	0	-	0.6	7.1	26.7	3	8	16.0	259.9	11.0	18	100.0
SO_2 (ppb)	172	48	Lagoon	0	0	0.0	1.3	14.8	3	8	16.0	259.9	3.3	20	100.0
$PM_{2.5}$ (µg/m^3)	80	29	Lagoon	50	4	0.0	19.1	250.2	16	18	16.2	58.4	155.0	17	97.6
PM_{10} (µg/m^3)	-	-	Lagoon	-	-	1.0	38.9	422.2	16	14	17.5	71.5	190.2	17	100.0
TSP (µg/m^3)	-	100	Lagoon	-	3	0.0	57.2	457.4	16	14	17.5	71.5	227.8	17	100.0
Temperature (°C)	-	-	Lagoon	-	-	3.4	14.2	27.8	15	17	6.2	207.2	20.1	21	100.0
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.4	12.1	36.1/W	23	8	36.1	246.9	25.4/WSW	23	100.0
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.0	3.5[1]	8	5	9.3	270.6	31.3[2]	-	100

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

Table 3-3 Days exceeding the TSP AAAQO or $PM_{2.5}$ AAAQO at the Lagoon Station

Date	TSP (ug/m^3)	$PM_{2.5}$ (ug/m^3)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Trailer						
2023-05-16	174.1	99.3	21.6	13.8	44.6	Regional wildfire activity
2023-05-17	227.8	155.0	64.2	9.1	52.4	Regional wildfire activity
2023-05-18	177.0	110.1	70.9	9.5	52.6	Regional wildfire activity
2023-05-19	-	32.1	245.3	15.9	39.2	Regional wildfire activity
Total # of Exceedances	**3**	**4**				
Maximum # of Exceedances (May)	**1 (2022)**	**1 (2019)**				
Average # of Exceedances (May)	**0**	**0**				
Minimum # of Exceedances (May)	**0 (2010 - 2021)**	**0 (2010 - 2018, 2020 - 2022)**				

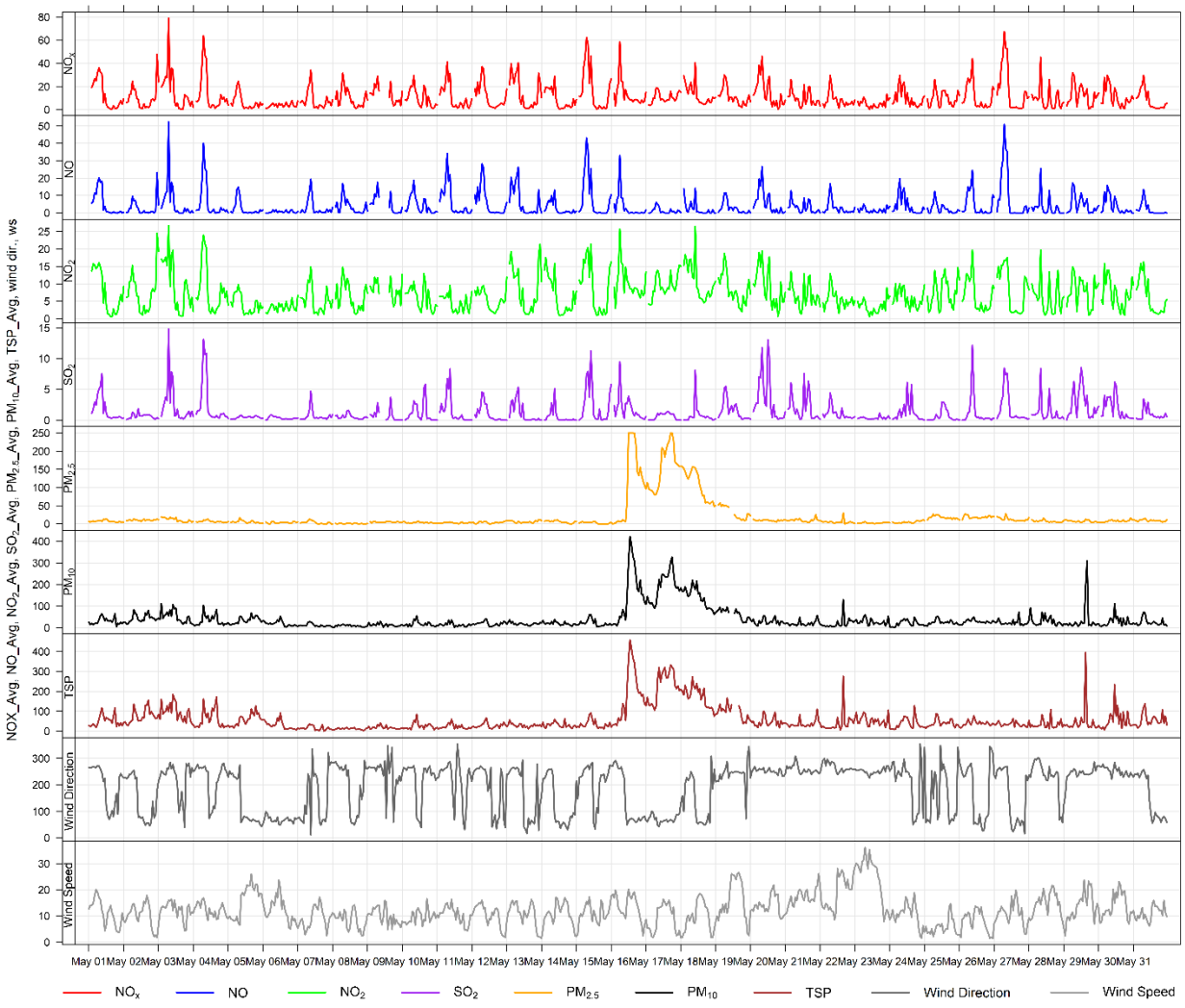

Figure 3-2 **1-hour concentrations of NO_x, SO_2, particulate matter, wind direction and wind speed at the Lagoon station**

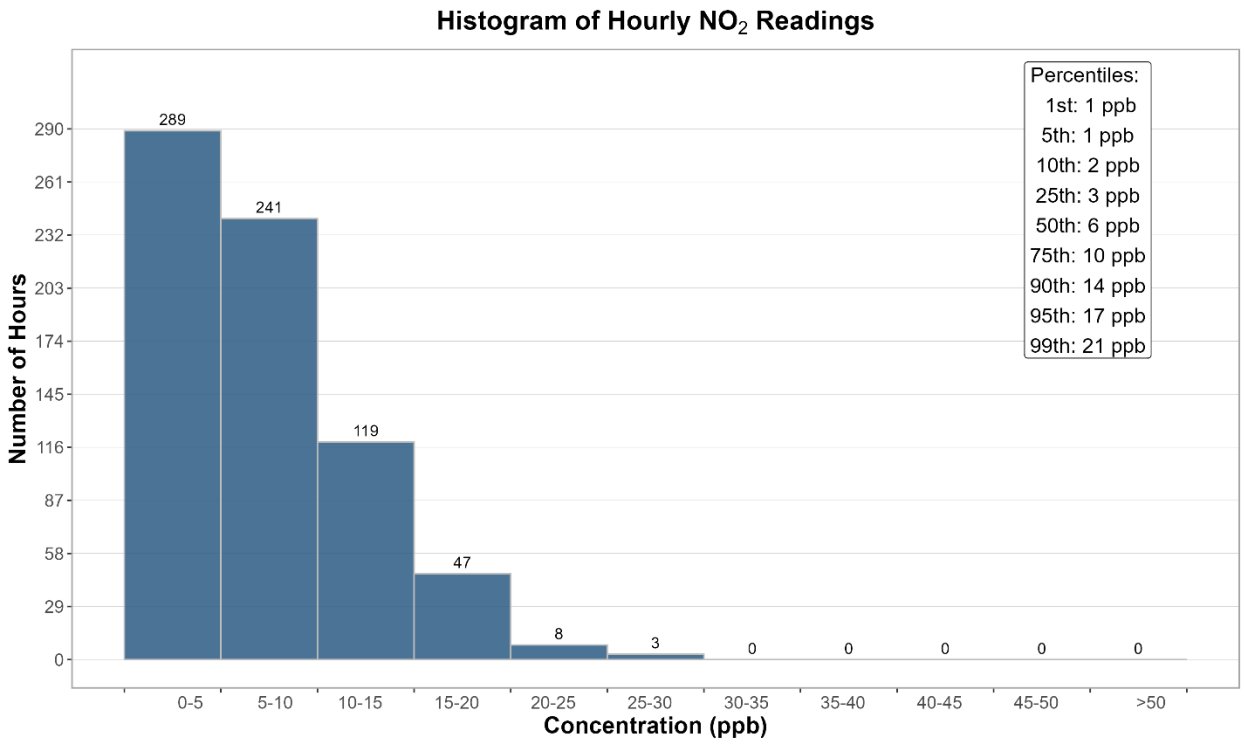

Figure 3-3 Histogram of hourly NO_2 concentrations at the Lagoon station

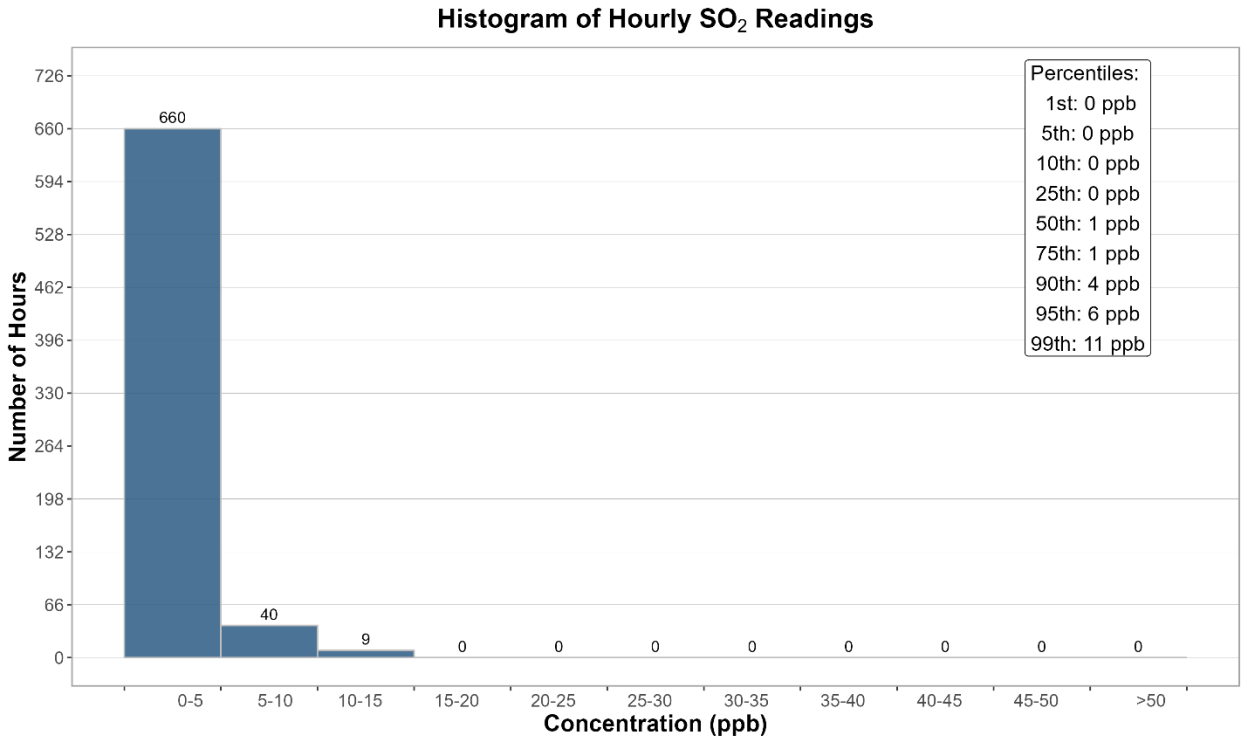

Figure 3-4 Histogram of hourly SO_2 concentrations at the Lagoon station

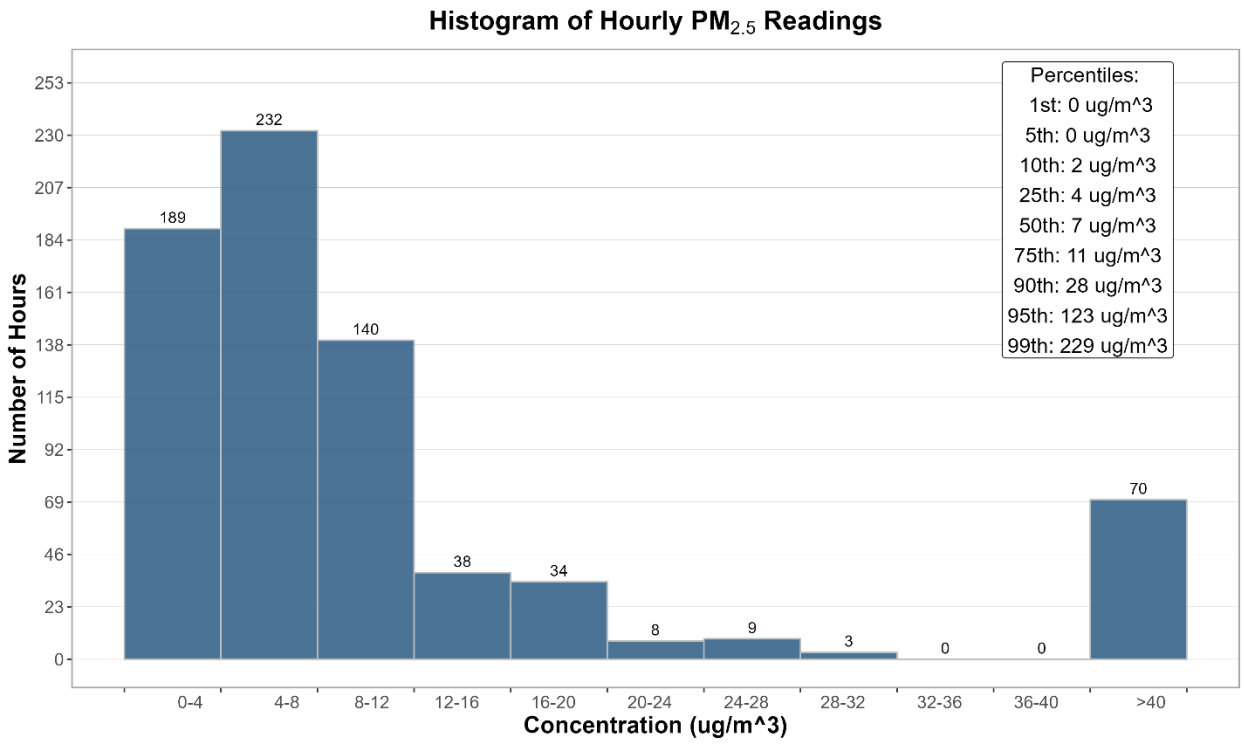

Figure 3-5 Histogram of hourly $PM_{2.5}$ concentrations at the Lagoon station

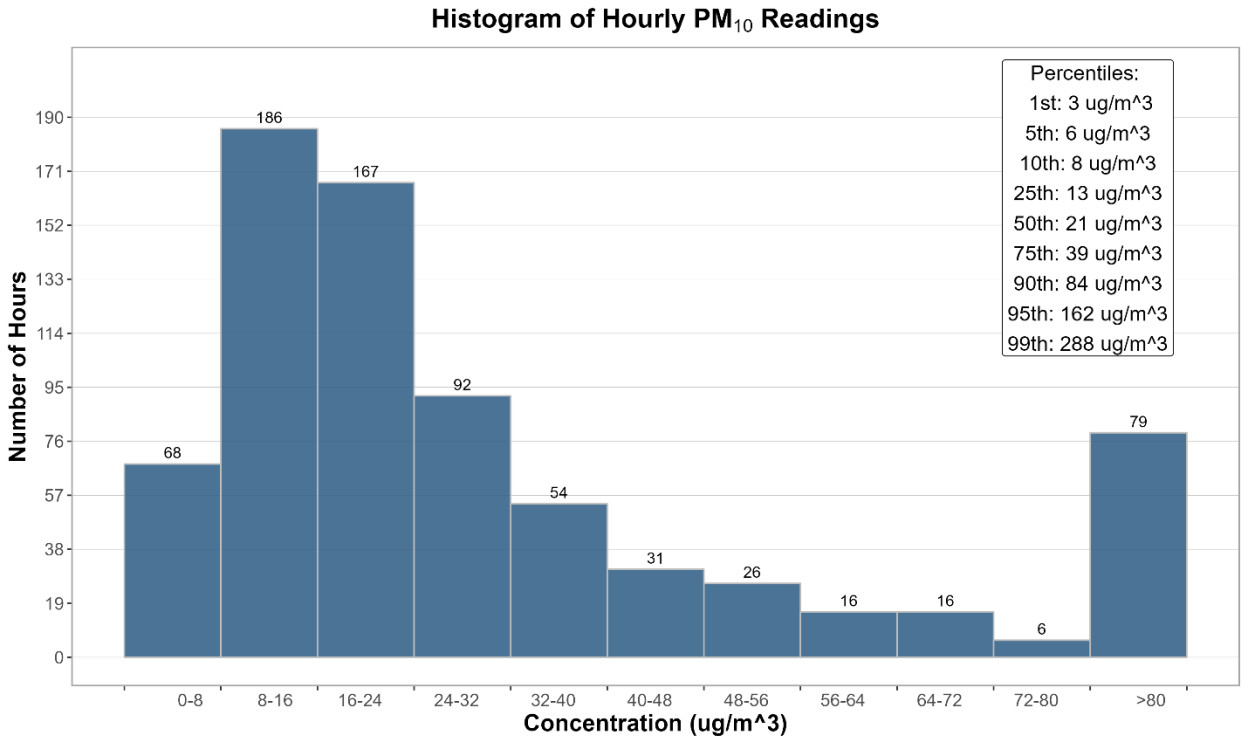

Figure 3-6 Histogram of hourly PM_{10} concentrations at the Lagoon station

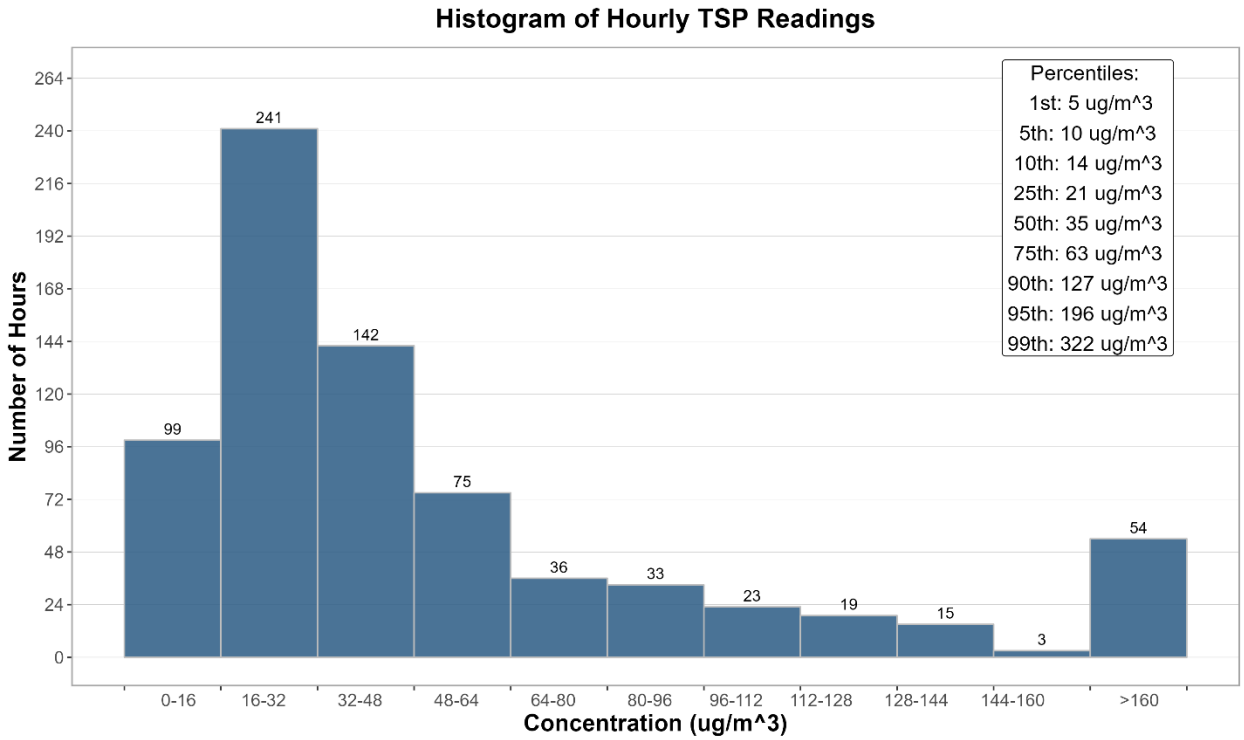

Figure 3-7 Histogram of hourly TSP concentrations at the Lagoon station

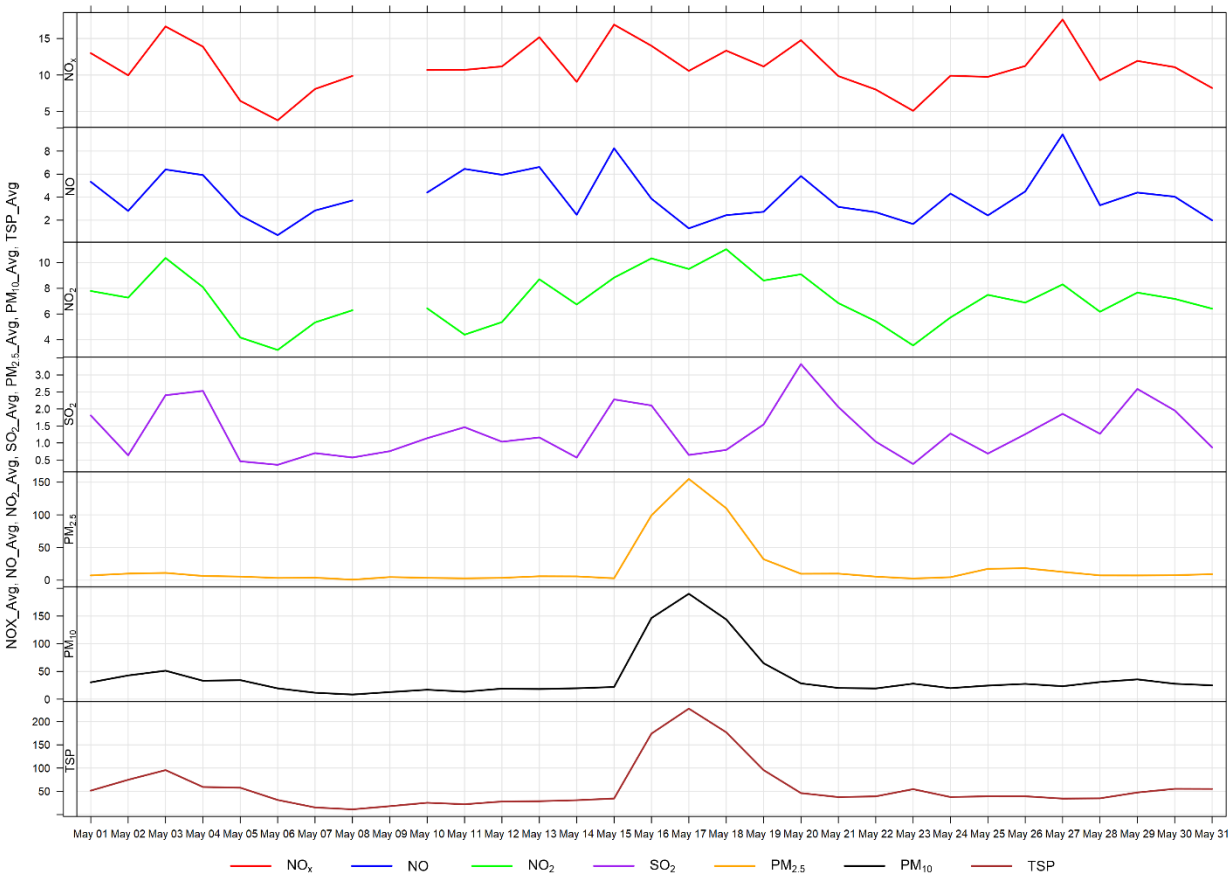

Figure 3-8 24-hour concentrations of NO_x, SO_2, and particulate matter at the Lagoon monitor

The following wind rose (Figure 3-9) shows the wind rose for the 3 days of TSP exceedances. Figure 3-10 shows the wind rose for the 4 days of $PM_{2.5}$ exceedances. The variation in wind conditions producing exceedances shows that, this month, the TSP exceedances were largely driven by wildfire activity rather than windblown fugitive dust, as has been typical.

Figure 3-11 through Figure 3-13 show the variation in concentrations over various time averaging periods for PM, SO_2 and NO_x. The particulate matter plot in Figure 3-11 typically shows that PM_{10} 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. Due to the wildfire impacts during the month of May, the diurnal trend this month is less pronounced.

Figure 3-12 shows the variation of SO_2 over various time periods. SO_2 concentrations patterns are dependent on the timing of the highest SO_2 concentrations recorded in the month because in general SO_2 concentrations are very low. Figure 3-13 shows the variation of NO_x, NO and NO_2, with the peak of all three pollutants occurring in the early morning. This may be indicative of a peak in traffic.

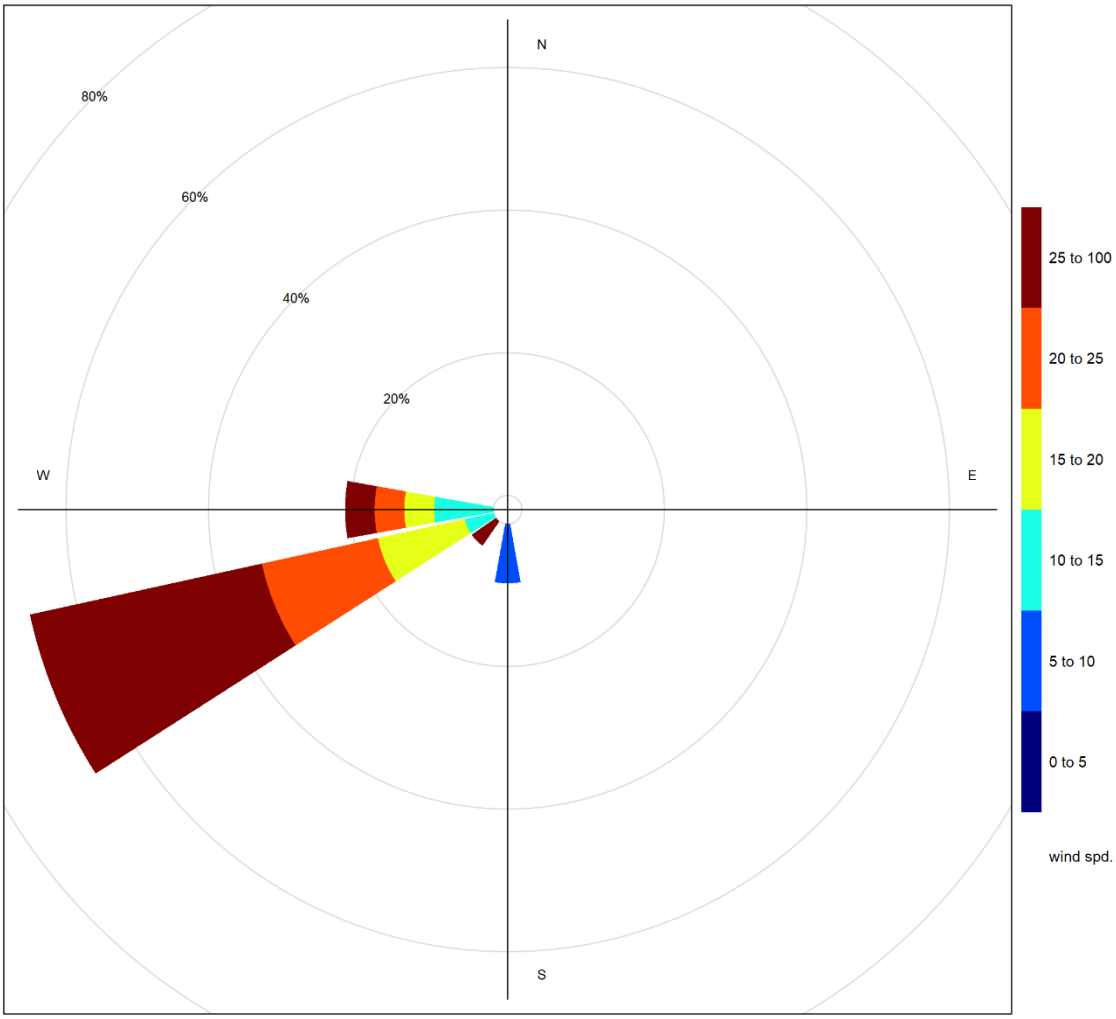

Figure 3-9 Wind rose for TSP exceedance days recorded at the Lagoon Station

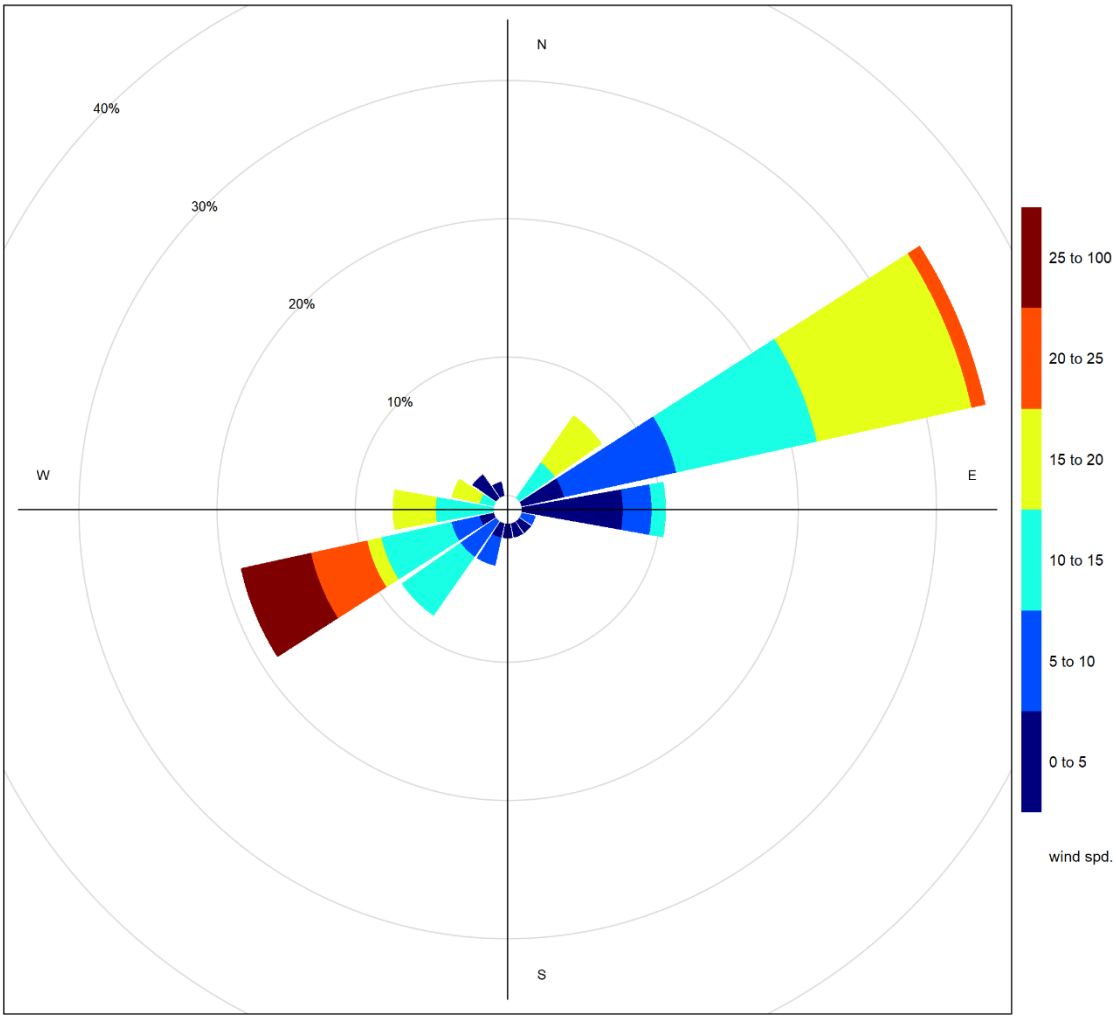

Figure 3-10 Wind rose for $PM_{2.5}$ exceedance days recorded at the Lagoon Station

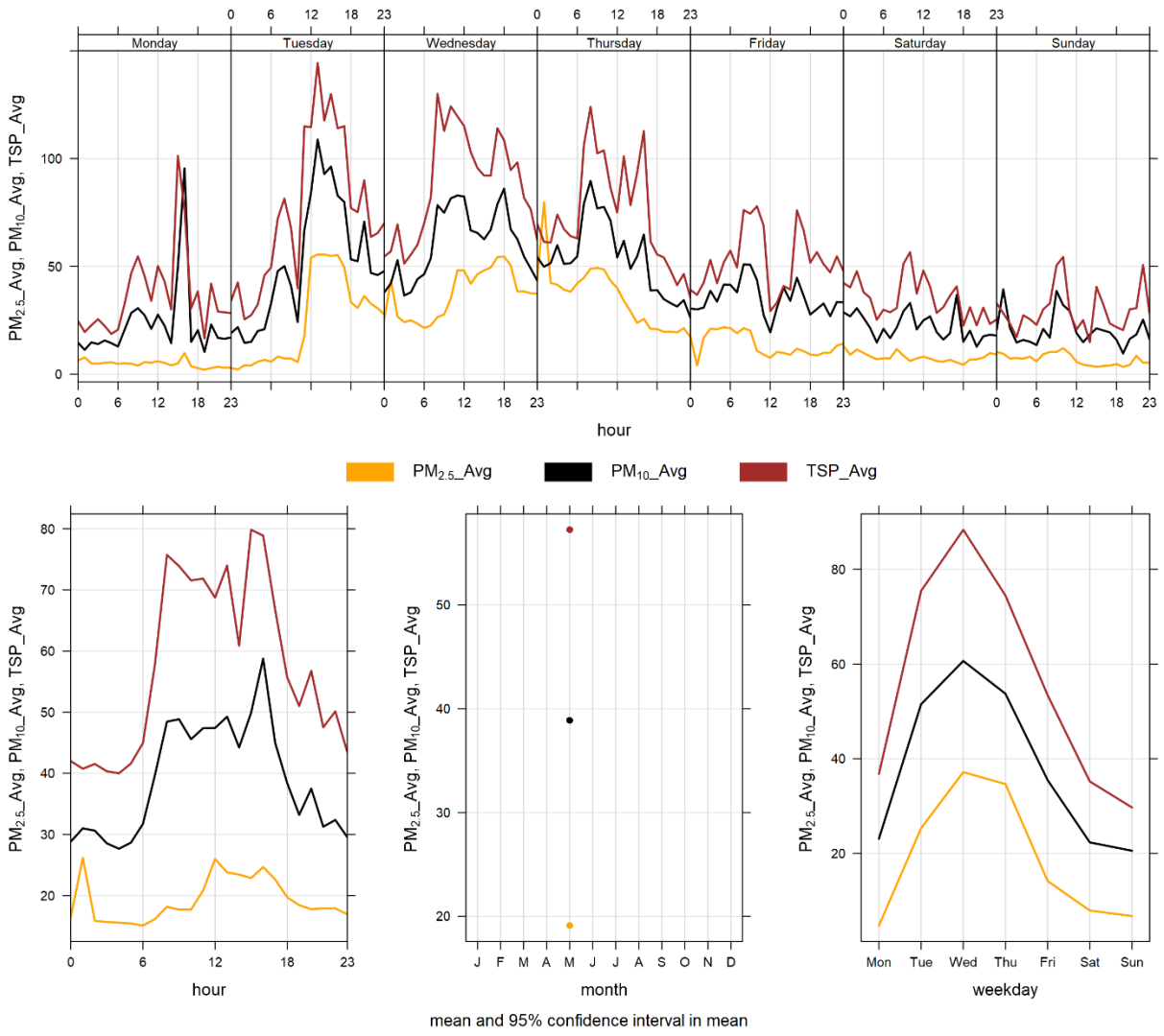

Figure 3-11 Lagoon monitor particulate matter time variation

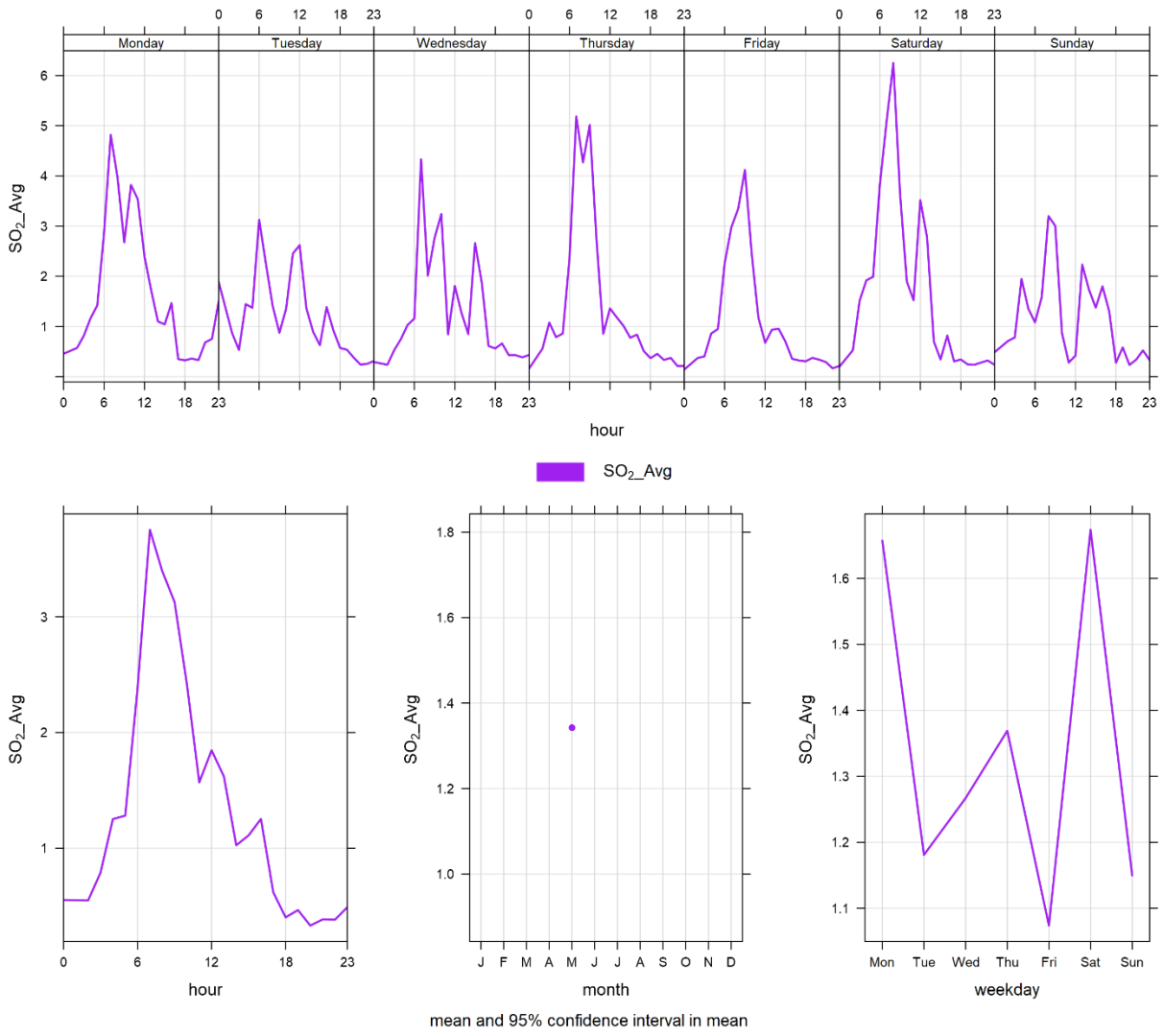

Figure 3-12 Lagoon monitor SO_2 time variation

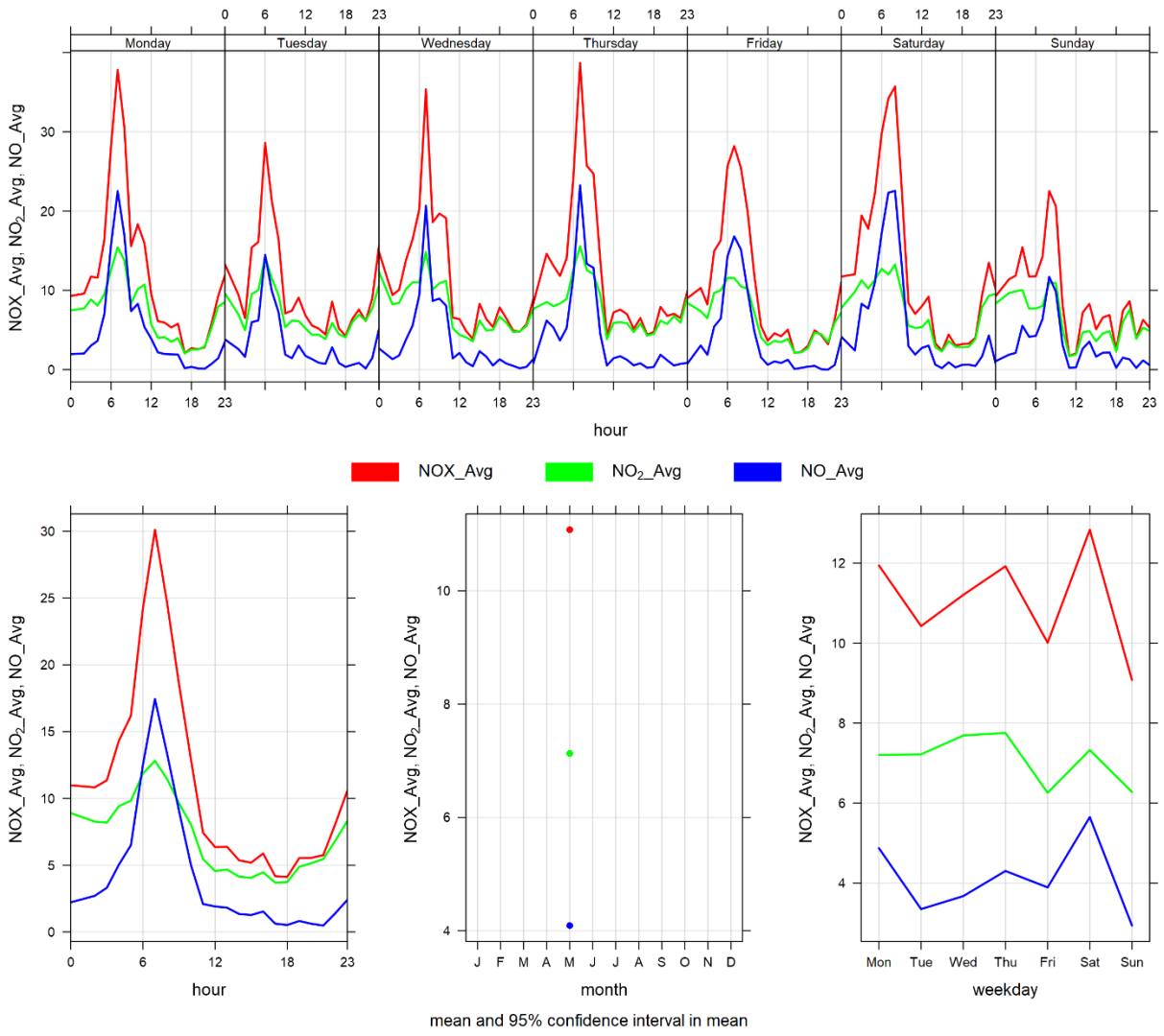

Figure 3-13 Lagoon monitor NO_x time variation

4 WINDRIDGE STATION

The Windridge station contains TSP, PM_{10}, and $PM_{2.5}$ analyzers only. This section provides a summary of the monitoring activities for the Windridge ambient air quality station, including: a table of instrumentation (Table 4-1), a data summary table (Table 4-2), a table of recorded exceedances (Table 4-3), site visit notes, and graphs illustrating the monitoring results for May 2023.

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 Station

Parameter Measured	Equipment Description	Notes
$PM_{2.5}$ Concentrations	MetOne BAM-1020 FRM Continuous Particulate Monitor	The $PM_{2.5}$ monitor was calibrated on May 19th. The monitor recorded 100% uptime during the month of May.
PM_{10} Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM_{10} monitor was calibrated on May 19th. The monitor recorded 100% uptime during the month of May.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on May 19th. The monitor recorded 100% uptime during the month of May.

4.2 MONITORING RESULTS AND TRENDS

Table 4-2 summarizes the hourly and daily concentrations recorded in May 2023, and Table 4-3 summarizes 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 exceedances, Figure 4-7 displays the wind rose for the 24-hour $PM_{2.5}$ exceedances, and Figure 4-8 illustrates the time series for hourly PM over different time periods.

There were 4 exceedances of the 24-hour $PM_{2.5}$ AAAQO, 51 exceedances of the 1-hour $PM_{2.5}$ AAAQG, and 5 exceedances of the 24-hour TSP AAAQO. As discussed in Section 1.2, the Bow Valley airshed was impacted from regional wildfire activity in May. All the exceedances were primarily attributable to wildfire activity and smoke in the airshed from fires in Alberta.

Historically in May, the average number of 24-hour TSP AAAQO exceedances and 24-hour $PM_{2.5}$ AAAQO exceedances is 2 and 0, respectively. The maximum number of 24-hour TSP AAAQO exceedances recorded in May was also 5 days in 2022.

Due to flood mitigation construction at Exshaw creek the Windridge monitoring station was taken out of operation and removed from the site on May 8th, 2019. The flood mitigation work was completed in August 2020. The Windridge station was reinstalled for September 1st, 2020. As per the photo presented in section 1.1 the flood

mitigation work has left an exposed creek bed area immediately west of the Windridge monitor that may contribute to an increase in TSP levels. Further, the strong wind gusting that occurred in May would have contributed to increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 4-2 Summary of May 2023 data at the Windridge Station

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
$PM_{2.5}$ ($\mu g/m^3$)	80	29	Windridge	51	4	0.0	16.9	235.0	16	18	16.2	58.4	145.5	17	100
PM_{10} ($\mu g/m^3$)	-	-	Windridge	-	-	0.0	40.4	409.0	16	16	18.4	70.5	182.3	17	100
TSP ($\mu g/m^3$)	-	100	Windridge	-	5	0.0	55.9	602.0	29	15	23.7	240.6	202.0	17	100

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

Date	TSP (ug/m^3)	$PM_{2.5}$ (ug/m^3)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Windridge						
2023-05-16	160.0	94.1	21.6	13.8	44.6	Regional wildfire activity
2023-05-17	202.0	145.5	64.2	9.1	52.4	Regional wildfire activity
2023-05-18	146.6	94.6	70.9	9.5	52.6	Regional wildfire activity
2023-05-19	131.2	37.4	245.3	15.9	39.2	Regional wildfire activity
2023-05-23	140.7	-	249.4	25.4	44.1	High wind event
Total # of Exceedances	**5**	**4**				
Maximum # of Exceedances (May)	**5 (2022)**	**0 (2018, 2021, 2022)**				
Average # of Exceedances (May)	**2**	**0**				
Minimum # of Exceedances (May)	**1 (2018, 2021)**	**0 (2018, 2021, 2022)**				

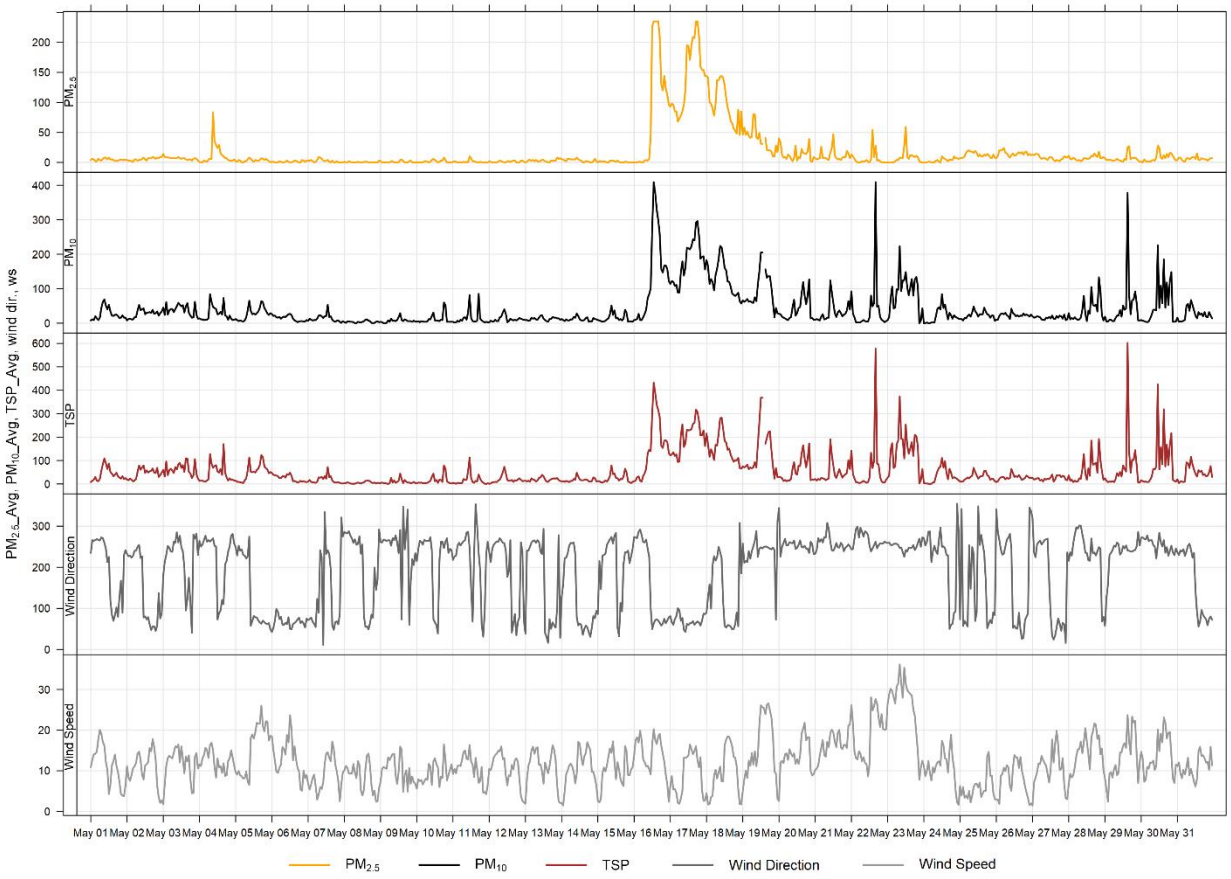

Figure 4-1 1-hour particulate matter concentrations recorded at the Windridge monitor

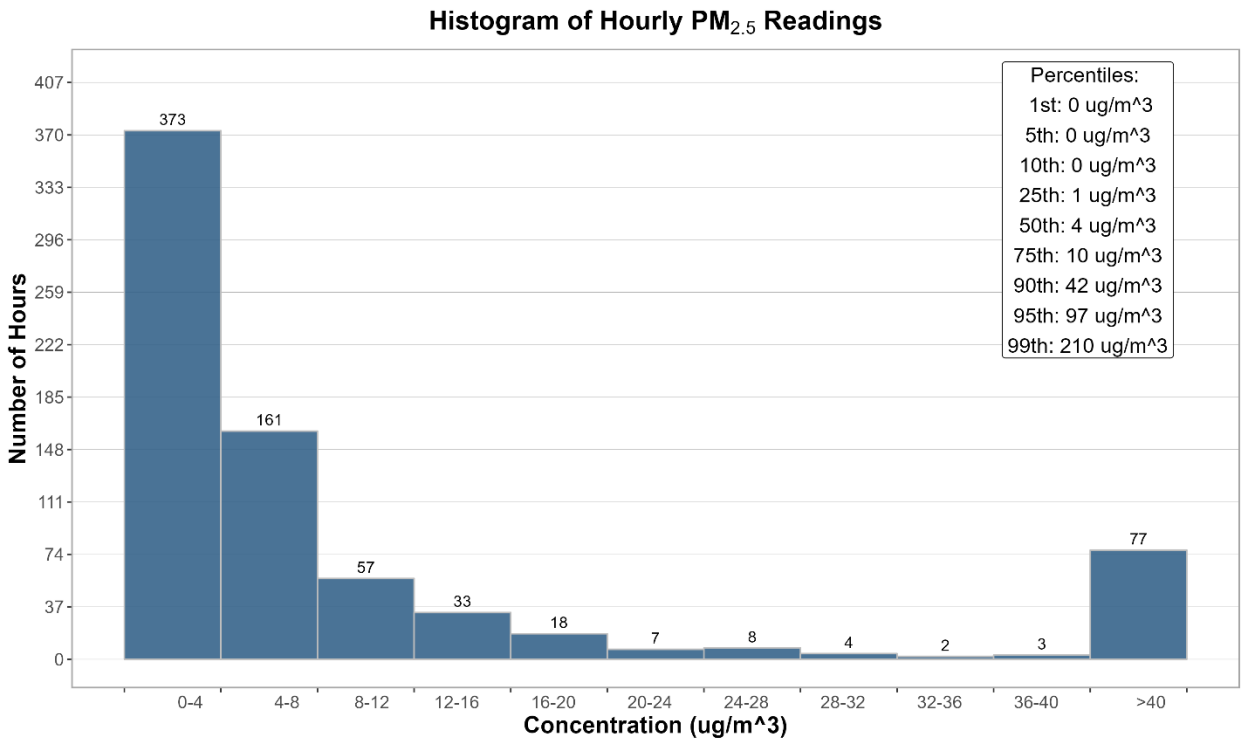

Figure 4-2 **Histogram of hourly $PM_{2.5}$ concentrations at the Windridge station**

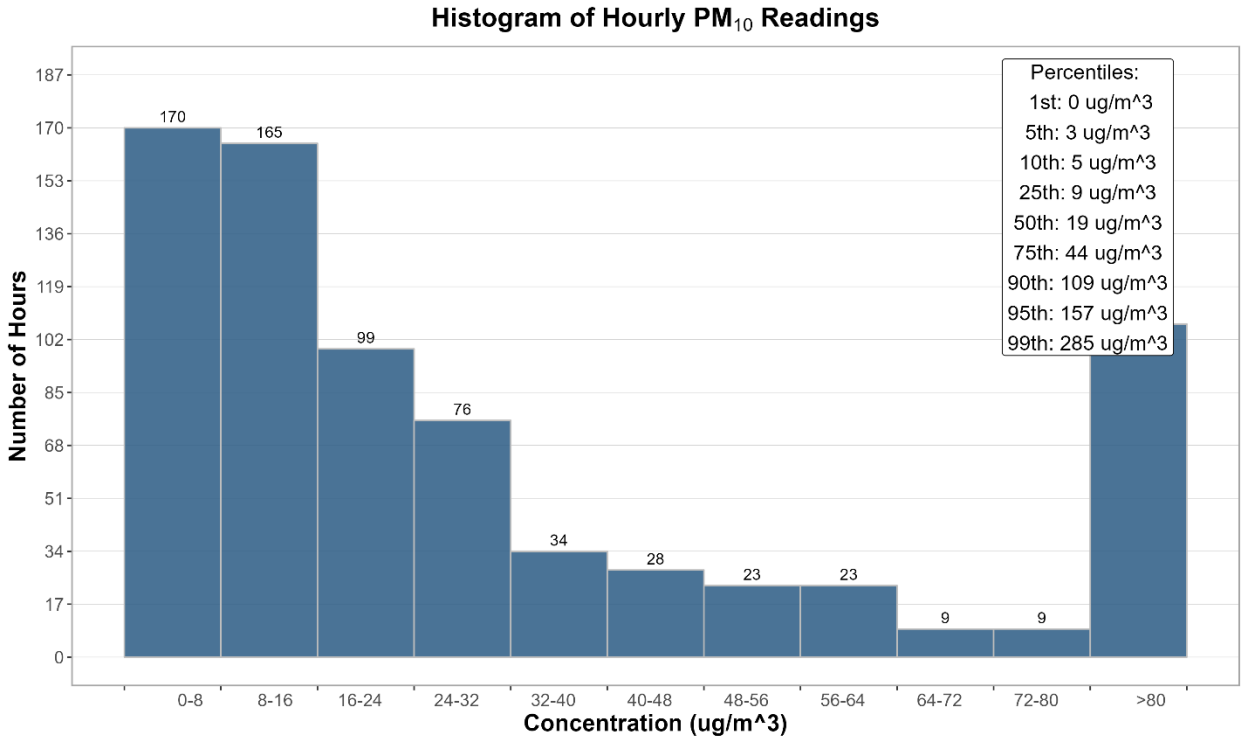

Figure 4-3 **Histogram of hourly PM_{10} concentrations at the Windridge station**

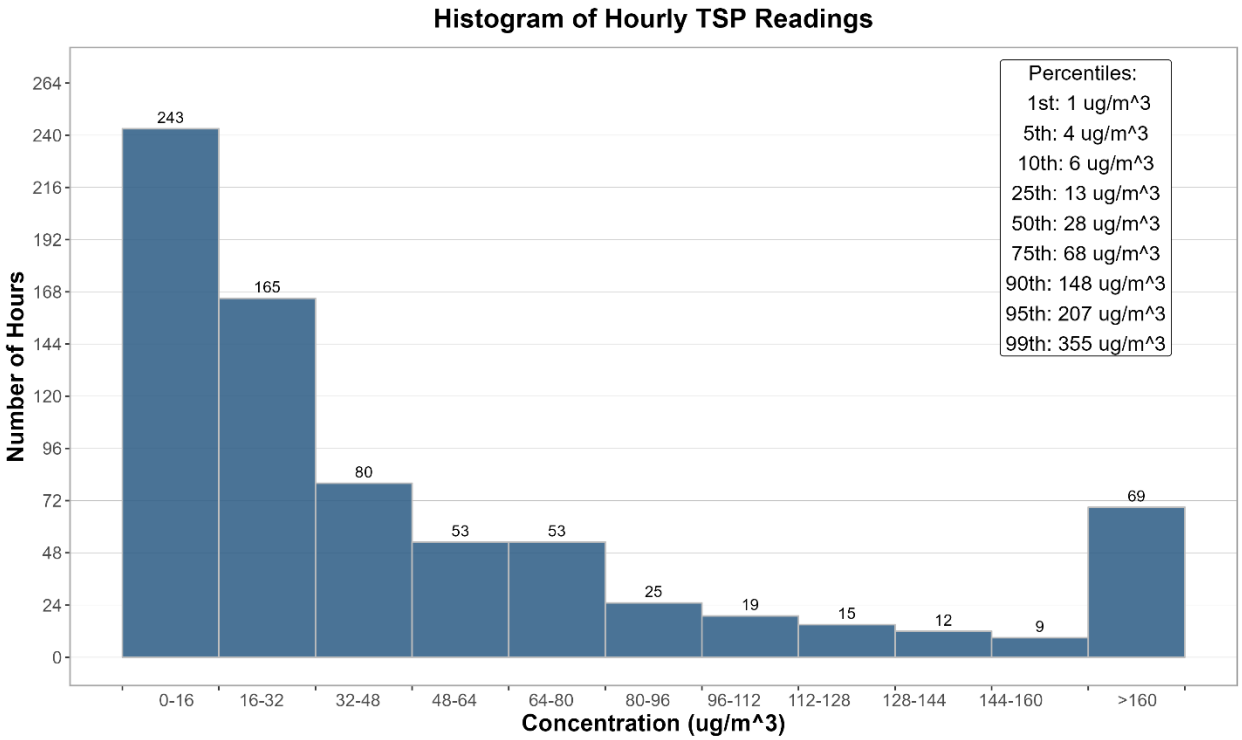

Figure 4-4 Histogram of hourly TSP concentrations at the Windridge station

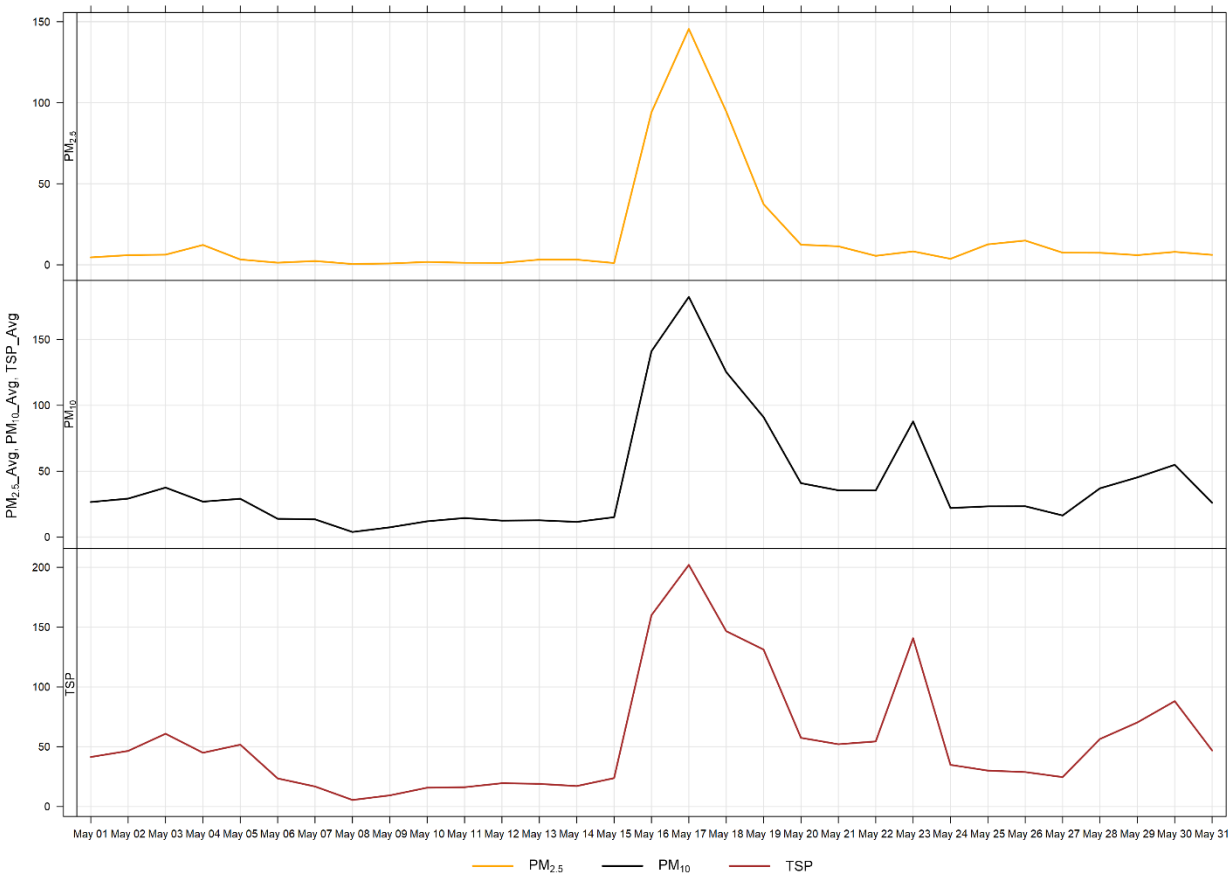

Figure 4-5 24-hour particulate matter concentrations at the Windridge monitor

Figure 4-6 shows the wind rose for the 5 days of TSP exceedances. Figure 4-7 shows the wind rose for the 4 days of $PM_{2.5}$ exceedances. The variation in wind conditions producing exceedances shows that, this month, the TSP exceedances were largely driven by wildfire activity rather than windblown fugitive dust, as has been typical.

Figure 4-8 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 4-8 is based on data collected during May 2023. Similar to the Lagoon station, it shows a more muted diurnal pattern associated with Lafarge operations, daytime emissions from traffic and wildfire smoke impacts in May. The diurnal patterns also follow the diurnal pattern of higher wind speeds during the daytime hours.

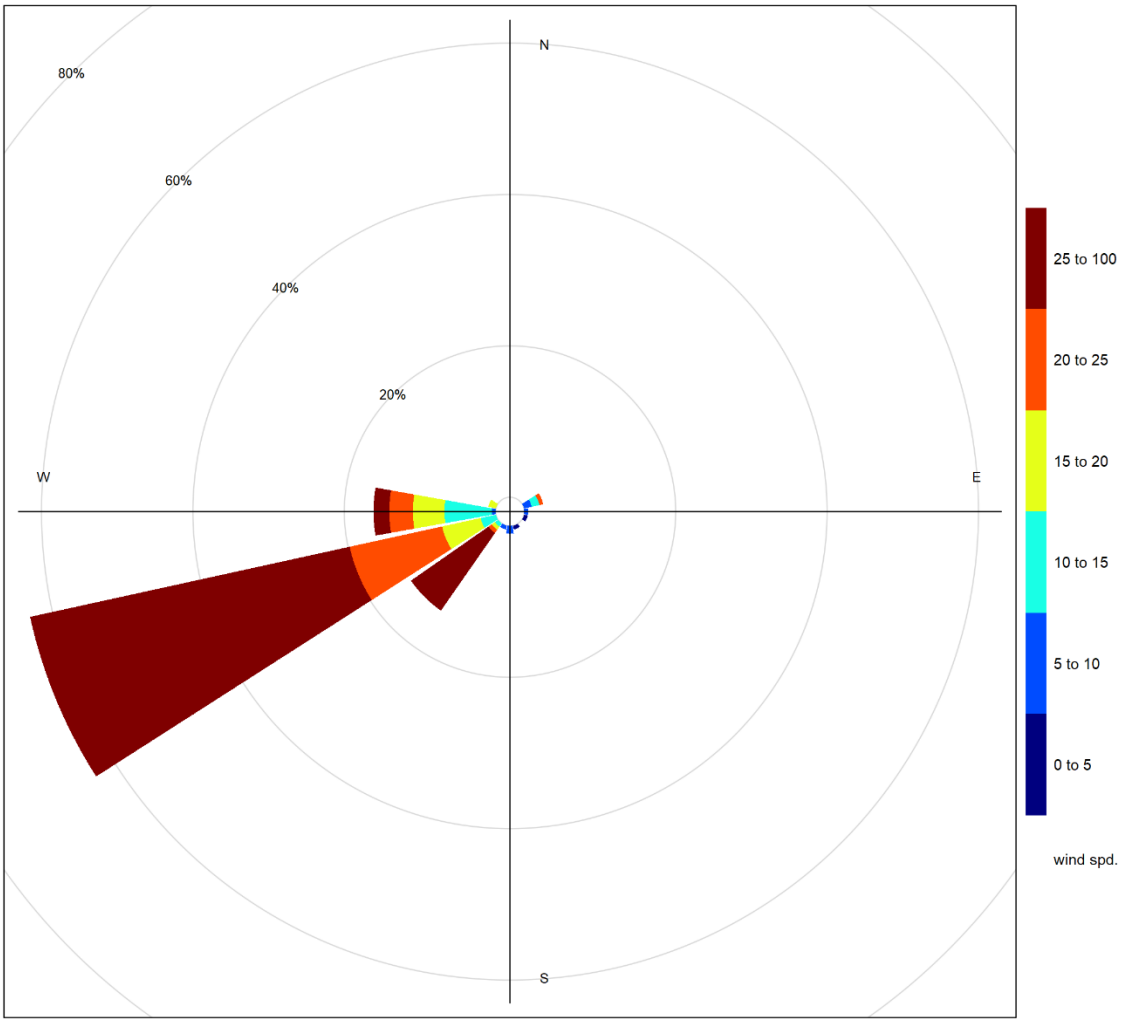

Figure 4-6 Wind rose for TSP exceedance days recorded at the Windridge Station

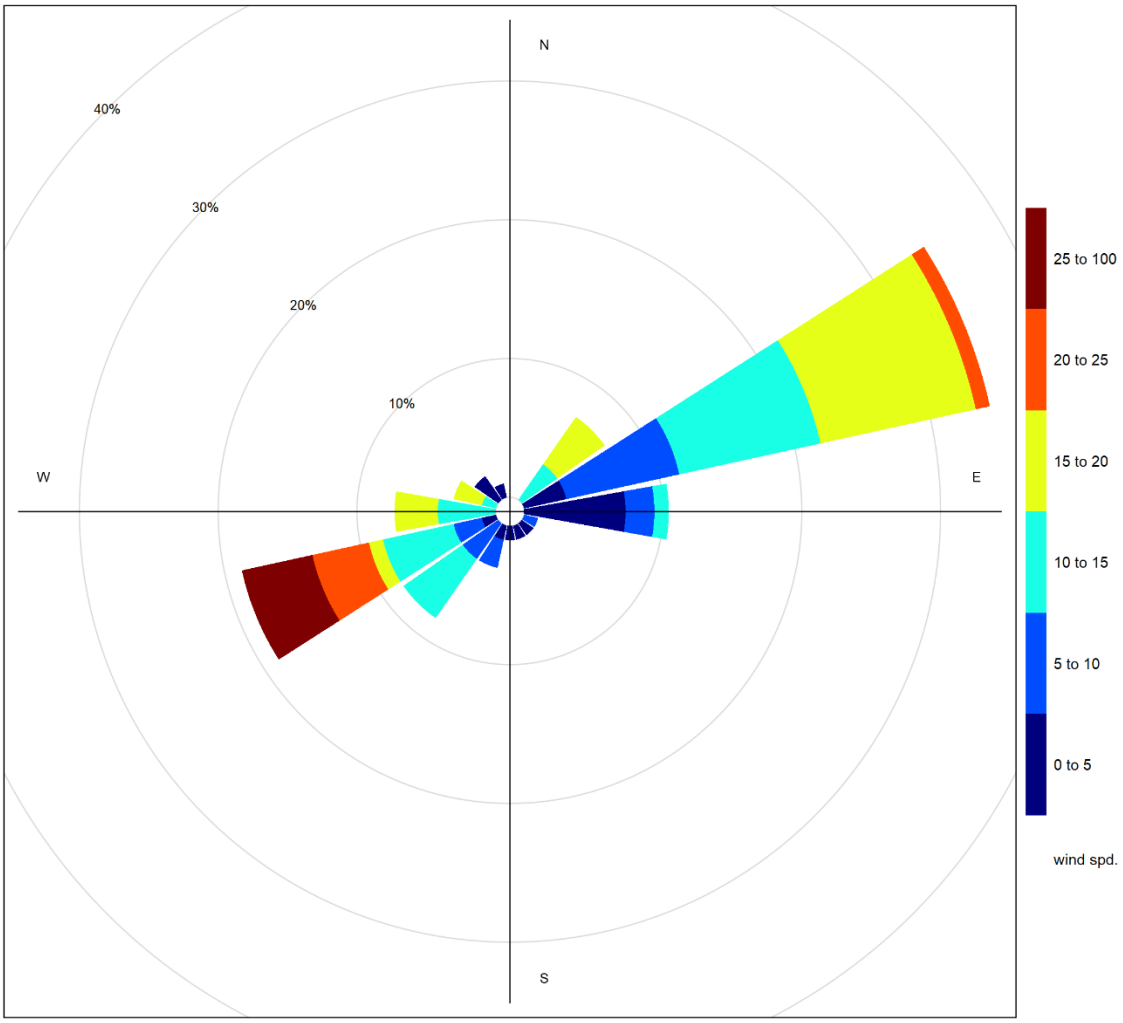

Figure 4-7 Wind rose for $PM_{2.5}$ exceedance days recorded at the Windridge Station

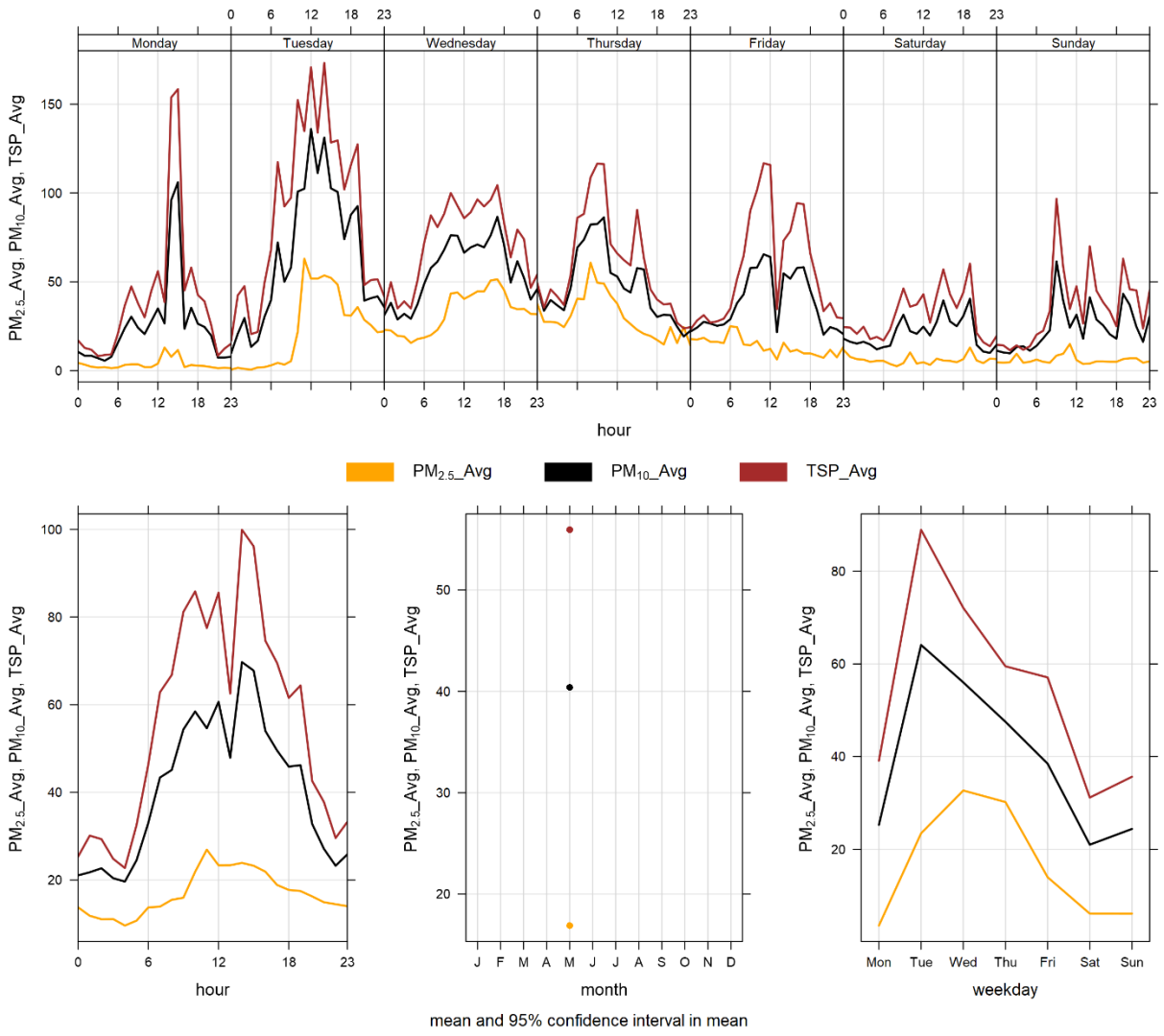

Figure 4-8 Windridge particulate matter time variation

5 WEST INDUSTRIAL GRIMM

5.1 OPERATIONAL SUMMARY

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

Table 5-1 Instrumentation List at the West monitoring location

Parameter Measured	Equipment Description	Notes
$PM_{2.5}$, PM_{10}, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime during the month of May.

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, and Table 5-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

Figure 5-1 and Figure 5-2 show the hourly and daily $PM_{2.5}$, PM_{10} and TSP concentrations recorded over the month.

There were 3 exceedances of the 24-hour TSP Guideline (100 µg/m^3) and 3 exceedances of the 24-hour $PM_{2.5}$ (29µg/m^3) Guideline. Further, there were 51 hours exceeding the 1-hour $PM_{2.5}$ Guideline. As discussed in Section 1.2, the Bow Valley airshed was impacted from regional wildfire activity in May. All the exceedances were primarily attributable to wildfire activity and smoke in the airshed from fires in Alberta.

Historically during the month of May, the West monitor records an average of 0 exceedances of both the 24-hour TSP and $PM_{2.5}$ guidelines. The maximum number of 24-hour $PM_{2.5}$ AAAQO exceedances recorded in May was 1 day in 2014 and 2019.

Table 5-2 Summary of May 2023 data at the West GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
$PM_{2.5}$ ($\mu g/m^3$)	80	29	West	51	3	0.1	17.4	259.8	16	13	20.2	63.3	150.0	17	100
PM_{10} ($\mu g/m^3$)	-	-	West	-	-	0.1	20.7	361.1	16	13	20.2	63.3	184.4	17	100
TSP ($\mu g/m^3$)	-	100	West	-	3	0.1	21.0	361.1	16	13	20.2	63.3	184.5	17	100

Table 5-3 Days exceeding the TSP AAAQO or $PM_{2.5}$ AAAQO at the West Station

Date	TSP (ug/m^3)	$PM_{2.5}$ (ug/m^3)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
West						
2023-05-16	120.4	92.5	21.6	13.8	44.6	Regional wildfire activity
2023-05-17	184.5	150.0	64.2	9.1	52.4	Regional wildfire activity
2023-05-18	102.8	89.5	70.9	9.5	52.6	Regional wildfire activity
Total # of Exceedances	**3**	**3**				
Maximum # of Exceedances (May)	**0 (2010 - 2022)**	**1 (2014, 2019)**				
Average # of Exceedances (May)	**0**	**0**				
Minimum # of Exceedances (May)	**0 (2010 - 2022)**	**0 (2010 - 2013, 2015 - 2018, 2020 - 2022)**				

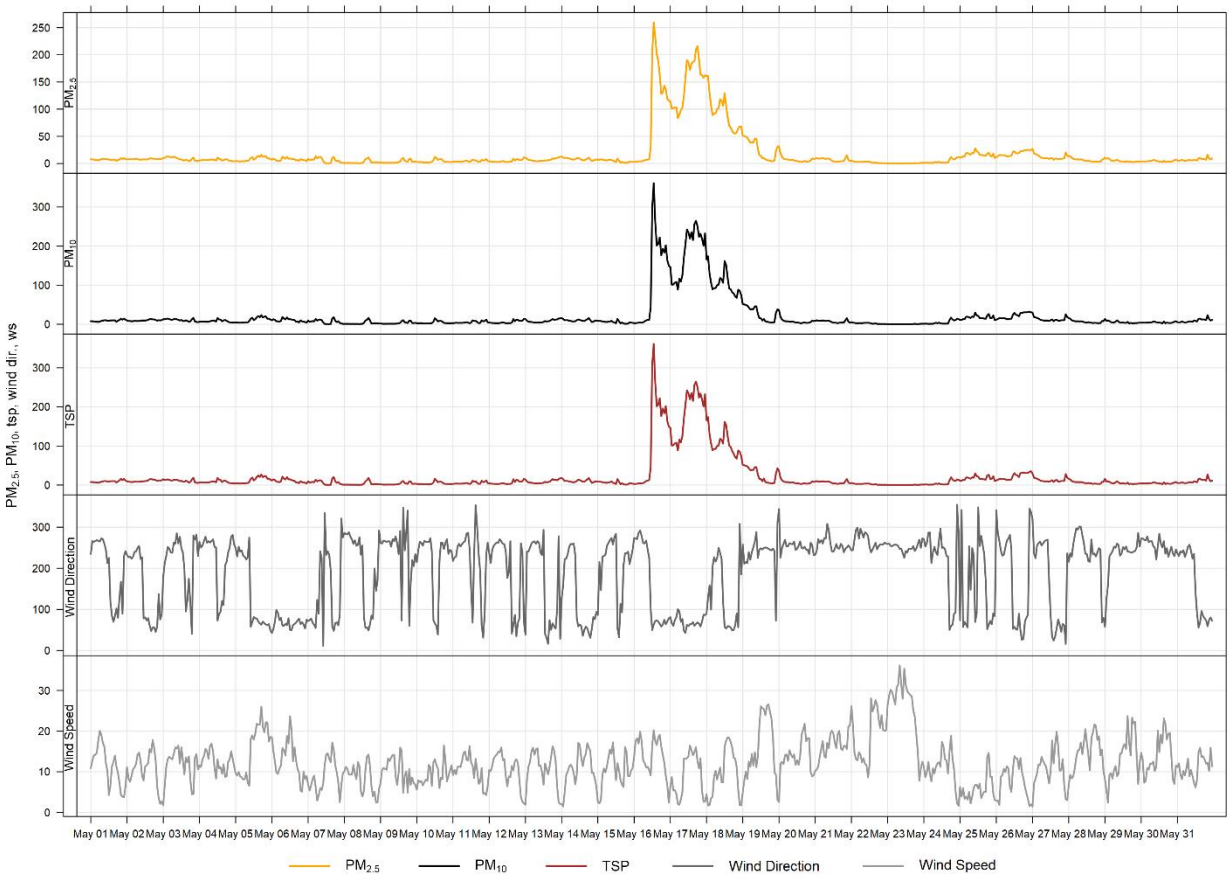

Figure 5-1 1-hour particulate matter concentrations at the West monitor

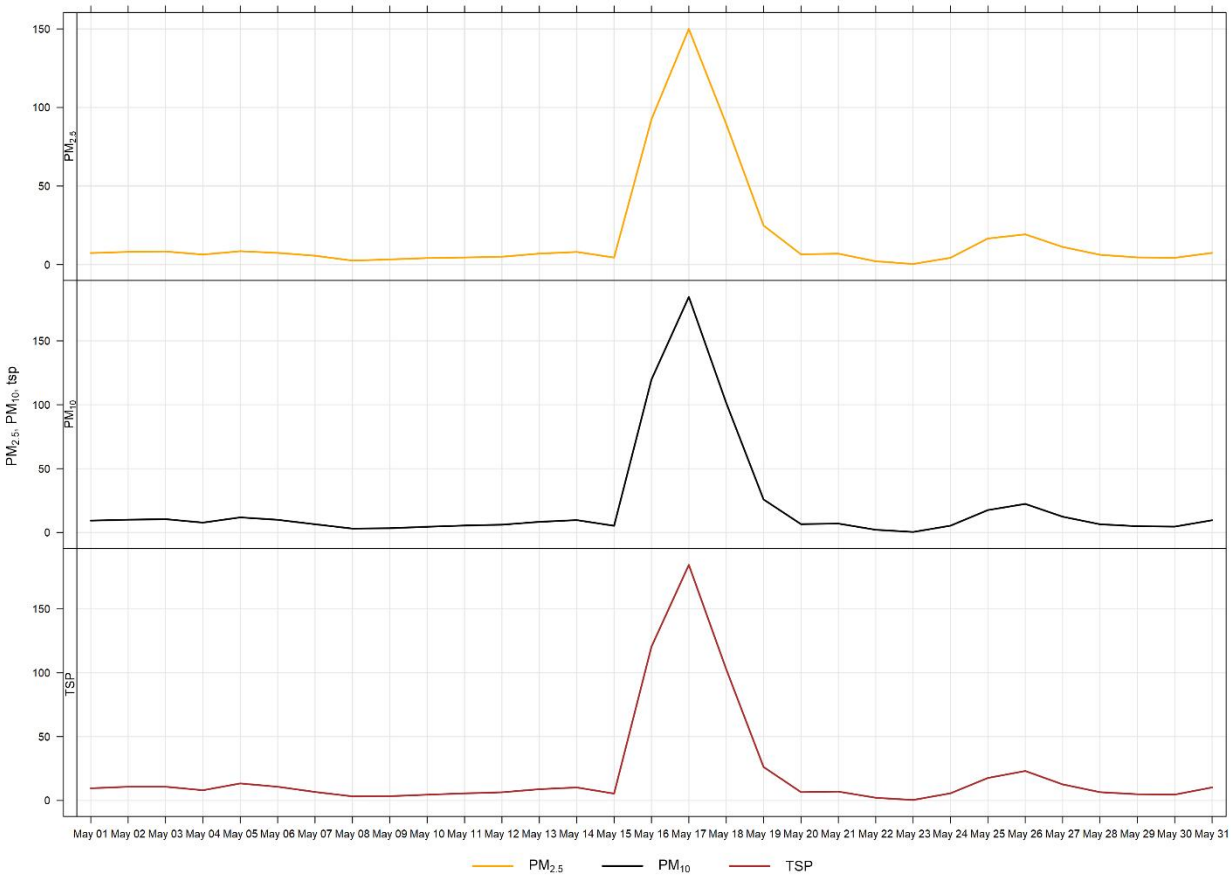

Figure 5-2 24-hour particulate matter concentrations at the West monitor

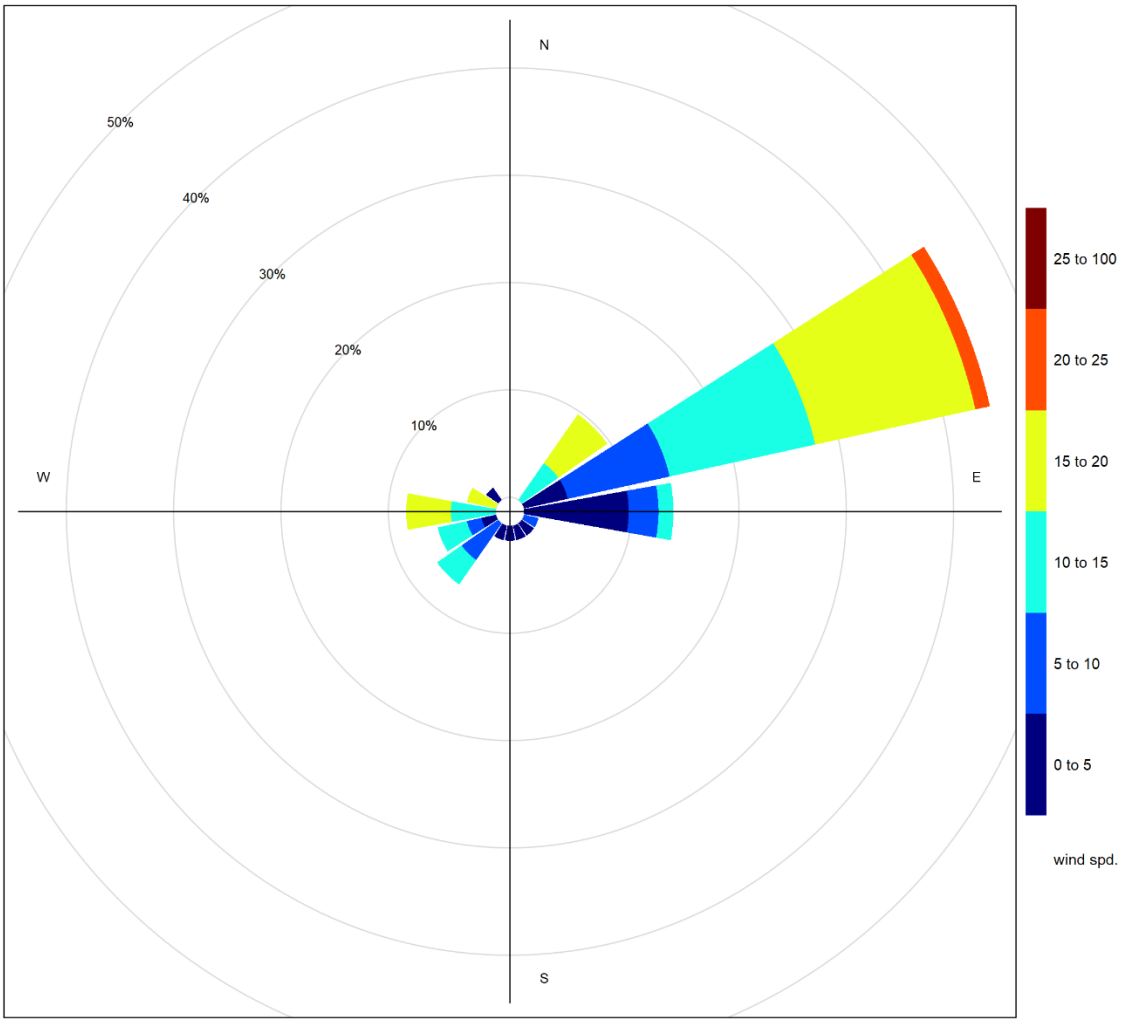

Figure 5-3 Wind rose for TSP exceedance days recorded at the West GRIMM

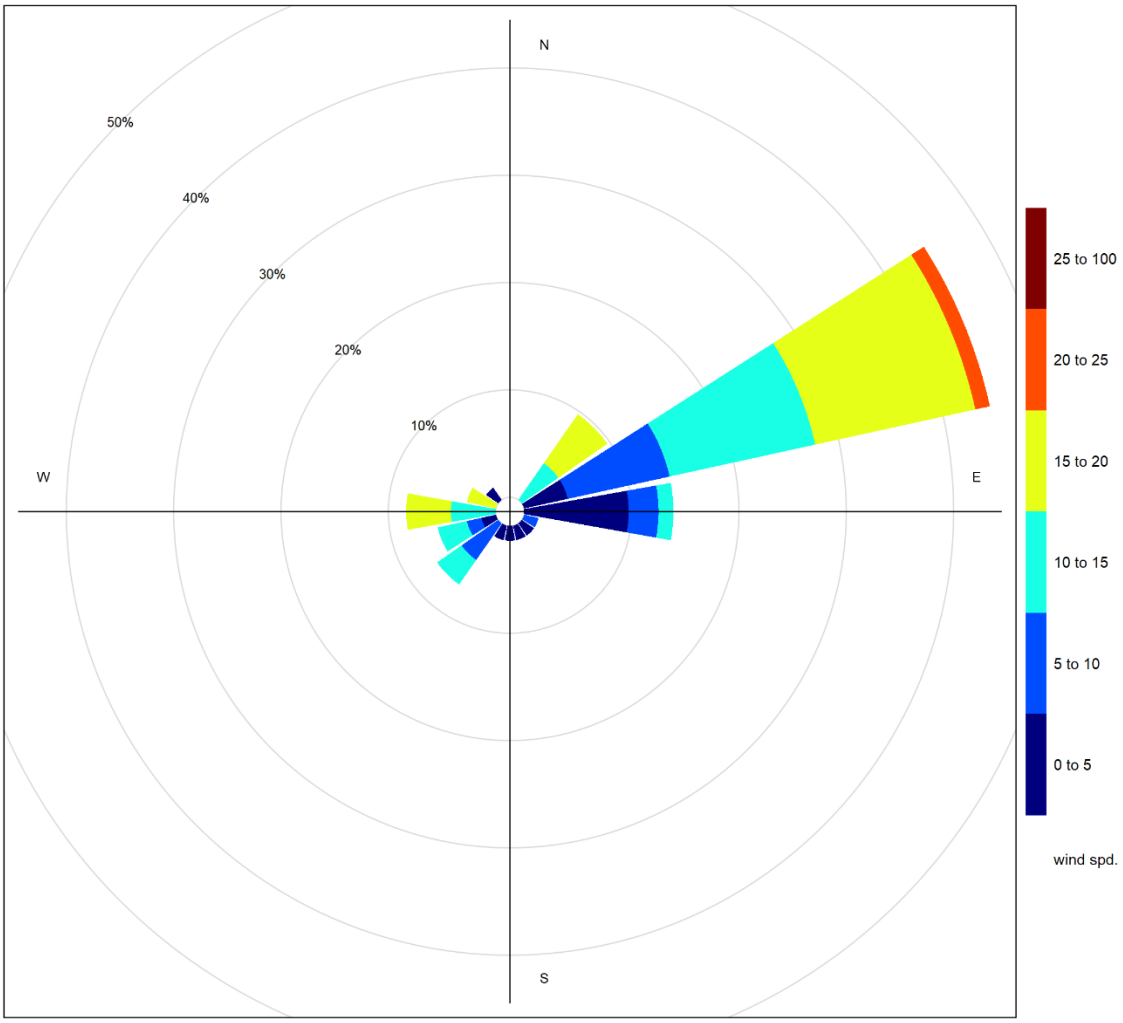

Figure 5-4 Wind rose for $PM_{2.5}$ exceedance days recorded at the West GRIMM

Figure 5-3 shows the wind rose for the 3 days of TSP exceedances, while Figure 5-4 shows the wind rose for the 3 days of $PM_{2.5}$ exceedances. The variation in wind conditions producing exceedances shows that wildfire activity rather than windblown fugitive dust was the primary air quality issue this month. Figure 5-5 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 5-5 is based on data collected during May 2023. The diurnal pattern is skewed due to the wildfire activities recorded in May. Historically this monitor saw daily variations in PM that were more likely a result of higher traffic volume during daylight hours than specific Lafarge operations. The West monitor was moved to its current location (Figure 1-1) on December 1st, 2021, and will continue to be evaluated to better understand influences from background sources, Lafarge Exshaw, as well as highway and rail sources.

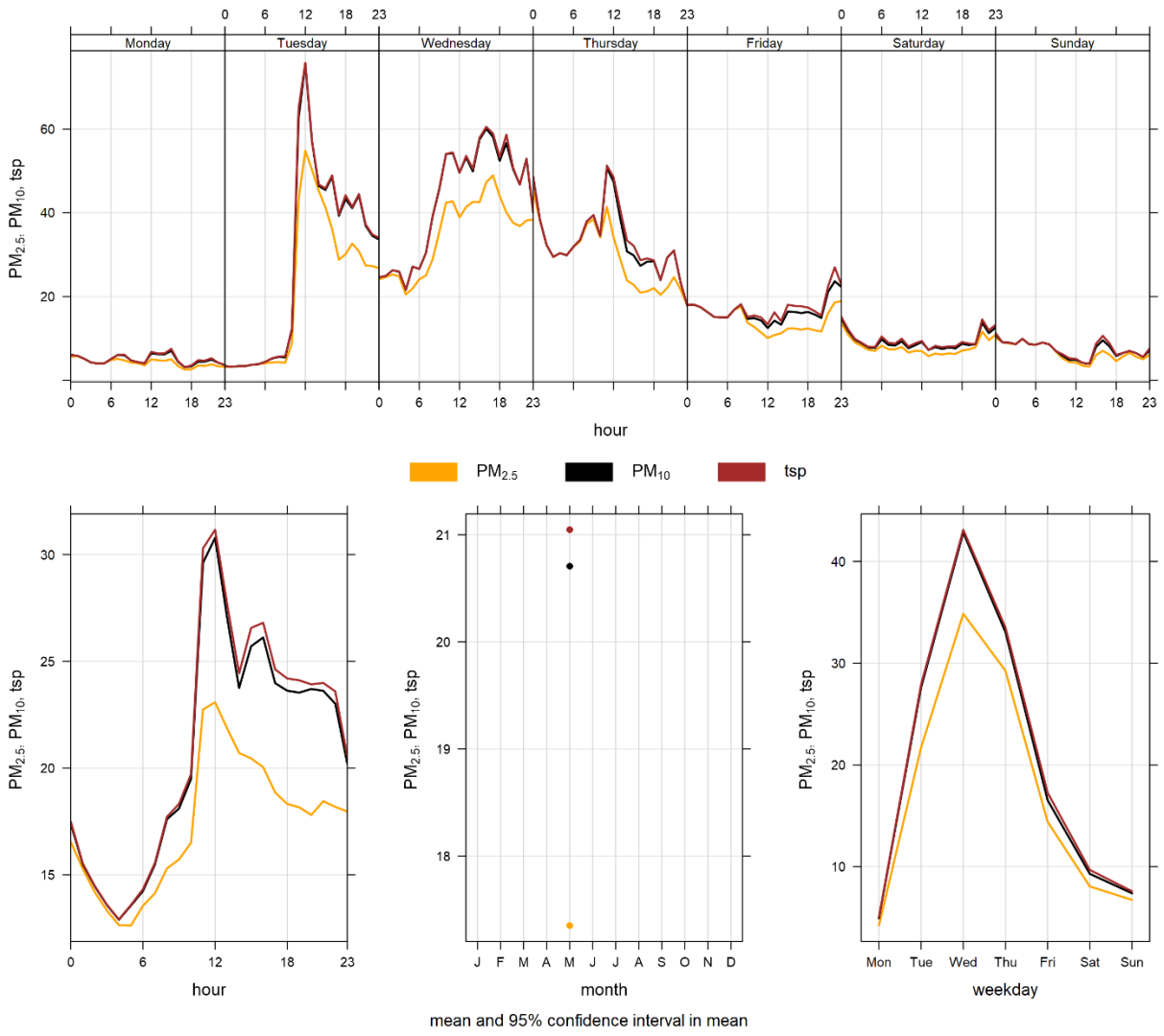

Figure 5-5 West monitor particulate matter time variation

6 BERM INDUSTRIAL GRIMM

6.1 OPERATIONAL SUMMARY

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

Table 6-1 Instrumentation List at the Berm monitoring location

Parameter Measured	Equipment Description	Notes
$PM_{2.5}$, PM_{10}, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 100% uptime during the month of May.

6.2 MONITORING RESULTS AND TRENDS

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

There were 10 and 4 exceedances of the 24-hour TSP (100 µg/m^3) and $PM_{2.5}$ (29 µg/m^3) Guidelines, respectively. There were 36 hours exceeding the 1-hour $PM_{2.5}$ Guideline. As discussed in Section 1.2, the Bow Valley airshed was impacted from regional wildfire activity in May. Several exceedances were primarily attributable to wildfire activity and smoke in the airshed from fires in Alberta.

Historically during the month of May, the Berm monitor records an average of 8 and 0 exceedances of the 24-hour TSP and $PM_{2.5}$ guidelines, respectively. The maximum number of TSP exceedances recorded during May occurred in 2010, 2012 and 2022 where there were 16 days that exceeded the guideline. On the other hand, the maximum number of $PM_{2.5}$ exceedances in May was 2 days in 2022.

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

The Berm monitor is located along a ridge at the edge of the Lafarge property and is in an area where on-site trucks drive through site, which can create fugitive dust. Quarry blasting also has the potential to impact short term PM immediately following a blast. The strong wind gusting that occurred in May would have also contributed to increased particulate levels that may have arisen from multiple sources: Lafarge Plant, Exshaw Creek, dry sections of the Bow River, and open areas.

Table 6-2 Summary of May 2023 data at the Berm GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
$PM_{2.5}$ ($\mu g/m^3$)	80	29	Berm	36	4	0.4	15.5	216.7	16	13	20.2	63.3	102.7	17	100
PM_{10} ($\mu g/m^3$)	-	-	Berm	-	-	0.4	38.4	568.7	29	15	23.7	240.6	141.5	19	100
TSP ($\mu g/m^3$)	-	100	Berm	-	10	0.4	77.5	1466.8	19	12	26.1	248.4	361.4	23	100

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

Date	TSP (ug/m^3)	$PM_{2.5}$ (ug/m^3)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Berm						
2023-05-16	109.0	72.4	21.6	13.8	44.6	Regional wildfire activity
2023-05-17	106.9	102.7	64.2	9.1	52.4	Regional wildfire activity
2023-05-18	115.1	72.5	70.9	9.5	52.6	Regional wildfire activity
2023-05-19	318.0	38.8	245.3	15.9	39.2	Regional wildfire activity
2023-05-20	101.2	-	251.1	14.1	32.3	
2023-05-22	105.9	-	261.8	18.7	59.0	
2023-05-23	361.4	-	249.4	25.4	44.1	High wind event
2023-05-28	158.3	-	254.1	14.9	40.5	
2023-05-29	142.3	-	244.5	13.5	42.4	
2023-05-30	176.4	-	252.7	13.8	44.5	
Total # of Exceedances	**10**	**4**				
Maximum # of Exceedances (May)	**16 (2010, 2012, 2022)**	**2 (2022)**				
Average # of Exceedances (May)	**8**	**0**				
Minimum # of Exceedances (May)	**2 (2014, 2019, 2020)**	**0 (2010 – 2018, 2020-2021)**				

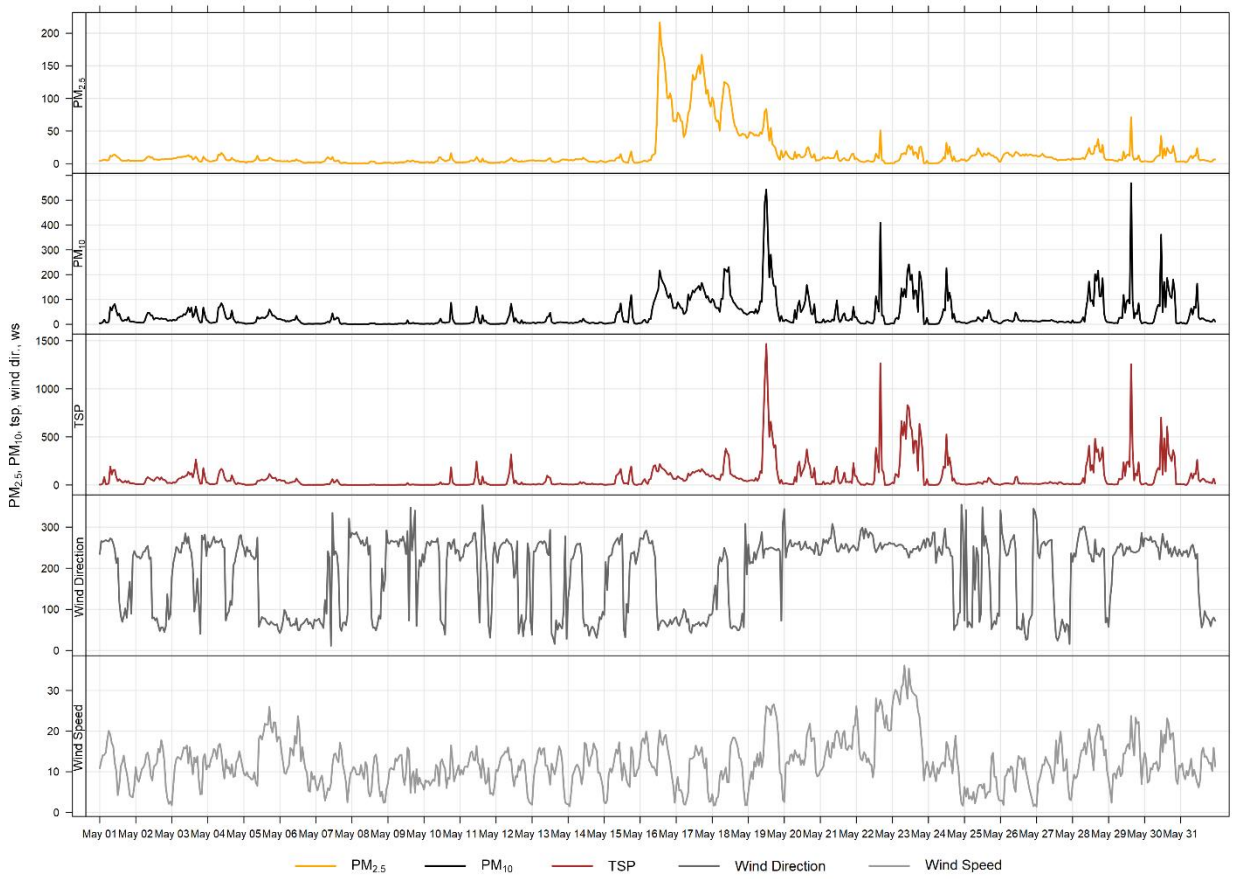

Figure 6-1 1-hour particulate matter concentrations recorded at the Berm monitor

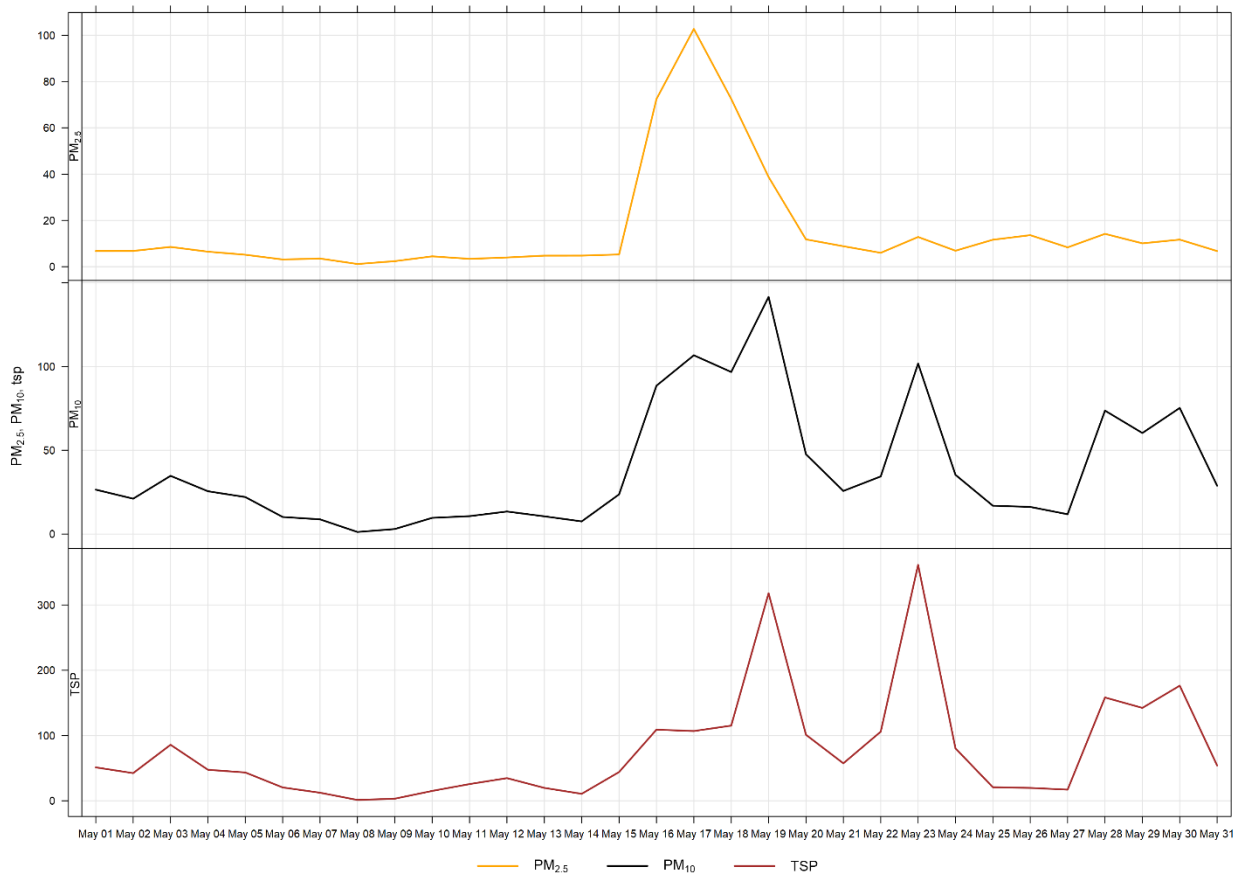

Figure 6-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 6-3 shows the wind rose for the 10 days of TSP exceedances. Figure 6-4 shows the wind rose for 4 days of $PM_{2.5}$ exceedances. The variation in wind conditions producing exceedances shows that both wildfire activity and windblown fugitive dust were the primary air quality issue this month.

Figure 6-5 shows the variation of PM recorded at the Berm monitor over various time averaging periods. The Berm monitor diurnal pattern is associated with Lafarge operations, but also daytime emissions from other activities and sources in Exshaw.

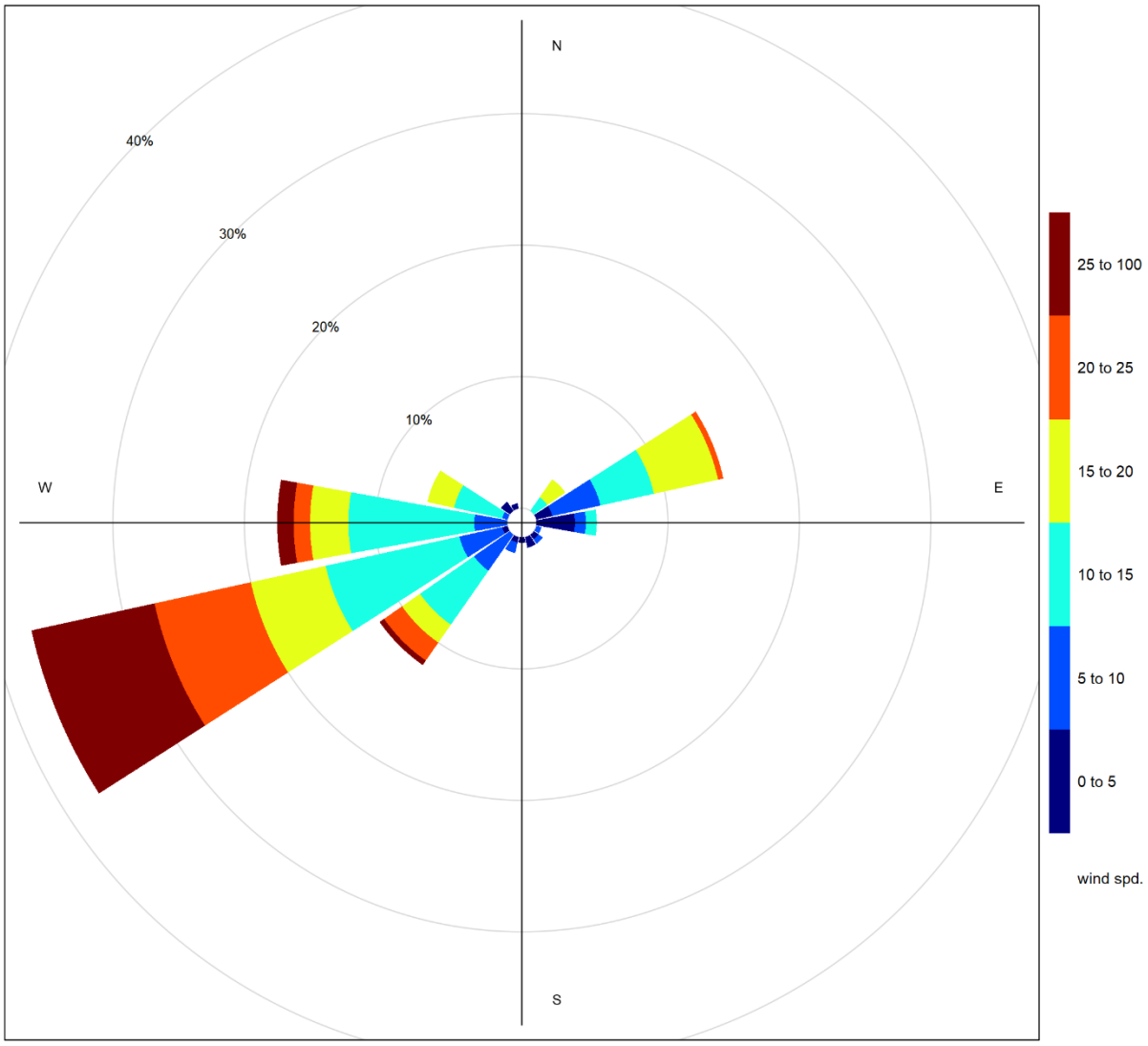

Figure 6-3 Windrose for TSP exceedance days recorded at the Berm GRIMM

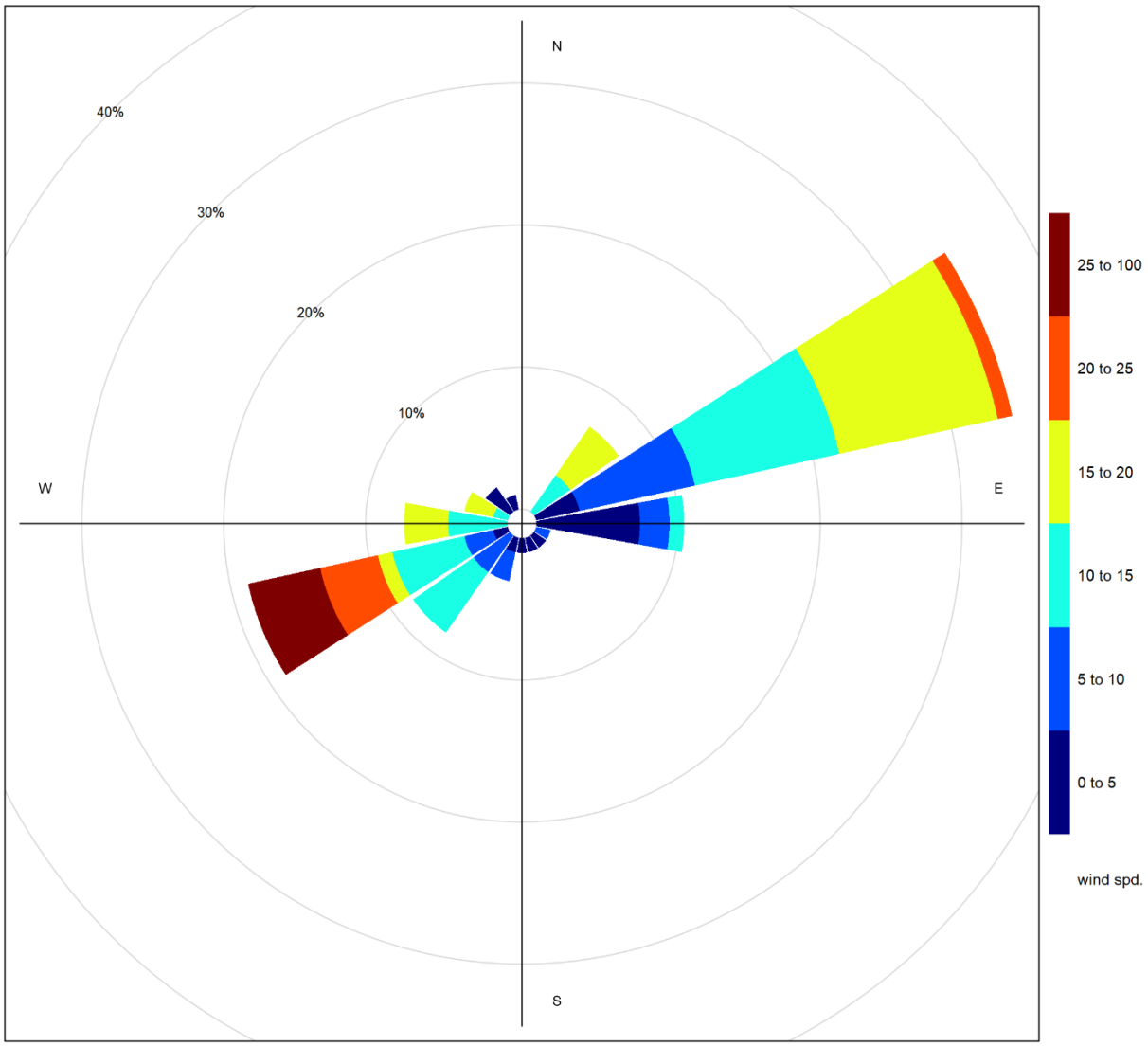

Figure 6-4 Windrose for $PM_{2.5}$ exceedance days recorded at Berm GRIMM

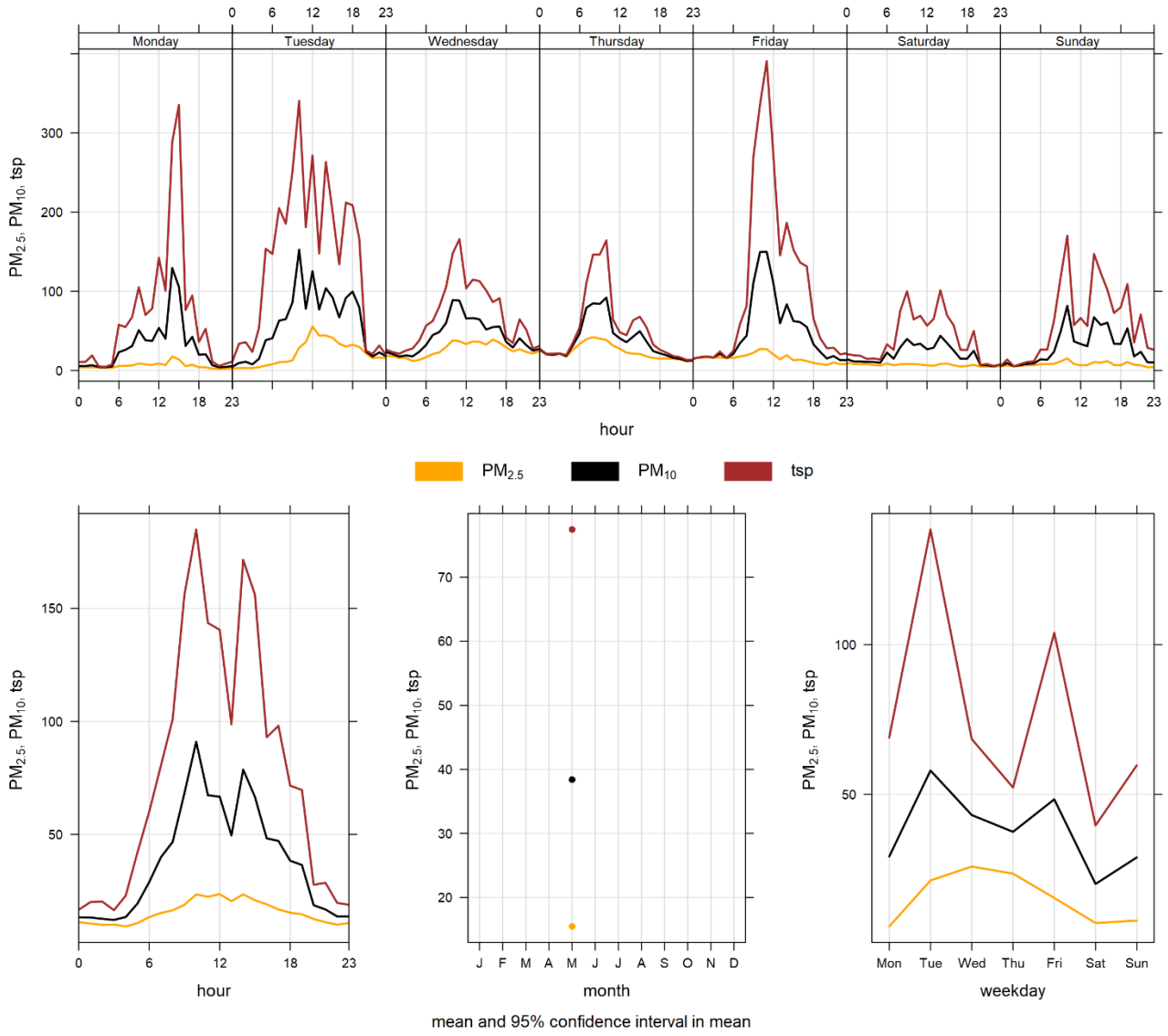

Figure 6-5 Berm particulate matter time variation

7 ENTRANCE INDUSTRIAL GRIMM

7.1 OPERATIONAL SUMMARY

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

Table 7-1 Instrumentation List at the Entrance monitoring location

Parameter Measured	Equipment Description	Notes
$PM_{2.5}$, PM_{10}, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The analyzer had 51.2% uptime during the month of May due to 362 hours of collection error (i.e. communication error), which occurred on May 5th 10:00 through May 6th 2:00, May 16th 7:00 through May 18th 2:00, and May 19th 12:00 through May 31st at 24:00. And further, 1 hour of equipment change occurring on May 19th at 11:00.

7.2 MONITORING RESULTS AND TRENDS

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

During the month of May, there were 11 and 2 exceedances of the 24-hour TSP (100 µg/m^3) and $PM_{2.5}$ (29 µg/m^3) Guidelines, respectively. There was 18 hours exceeding the 1-hour $PM_{2.5}$ Guideline. As discussed in Section 1.2, the Bow Valley airshed was impacted from regional wildfire activity in May. Several exceedances were primarily attributable to wildfire activity and smoke in the airshed from fires in Alberta.

Historically, the Entrance monitor records an average of 12 and 0 exceedances of the 24-hour TSP and $PM_{2.5}$ guidelines respectively, during the month of May. The maximum number of TSP exceedances recorded during May occurred in 2014, which had 20 days that exceeded the guideline. The maximum number of 24-hour $PM_{2.5}$ AAAQO exceedances recorded in May was 3 days in 2019.

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

The Entrance monitor is impacted by fugitive dust from plant activities, and high wind events. Trucks also pass near to the Entrance monitor as they enter and exit the Lafarge facility for loading and deliveries. Additionally, the monitor is closely located to Highway 1A. Traffic, particularly large trucks, can create dust while crossing over the

railway tracks. This can all lead to the monitor recording high TSP concentrations, which are typically associated with fugitive dust sources.

Table 7-2 Summary of May 2023 data at the Entrance GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour					Maximum 24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration	Day	
$PM_{2.5}$ ($\mu g/m^3$)	80	29	Entrance	18	2	1.0	25.0	142.3	18	8	9.6	249.3	96.5	18	51.2
PM_{10} ($\mu g/m^3$)	-	-	Entrance	-	-	1.0	104.8	390.7	4	6	13.1	265.8	204.4	3	51.2
TSP ($\mu g/m^3$)	-	100	Entrance	-	11	1.0	195.3	948.4	3	15	13.5	95.0	388.2	3	51.2

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

Date	TSP (ug/m^3)	$PM_{2.5}$ (ug/m^3)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2023-05-01	262.1	-	248.5	11.4	38.1	
2023-05-02	264.5	-	103.1	10.2	44.7	
2023-05-03	388.2	35.2	244.5	12.1	39.2	
2023-05-04	257.0	-	253.2	12.4	49.6	
2023-05-10	187.9	-	257.7	9.6	72.4	
2023-05-11	202.4	-	257.1	10.4	66.4	
2023-05-12	163.9	-	258.9	10.2	53.1	
2023-05-13	152.9	-	295.0	10.9	45.9	
2023-05-14	133.9	-	51.8	10.7	49.0	
2023-05-15	238.3	-	248.4	10.6	42.3	
2023-05-18	257.0	96.5	70.9	9.5	52.6	Regional wildfire activity
Total # of Exceedances	**11**	**2**				
Maximum # of Exceedances (May)	**20 (2014)**	**3 (2019)**				
Average # of Exceedances (May)	**12**	**0**				
Minimum # of Exceedances (May)	**2 (2020)**	**0 (2010, 2012, 2013, 2015, 2017, 2018, 2020 - 2022)**				

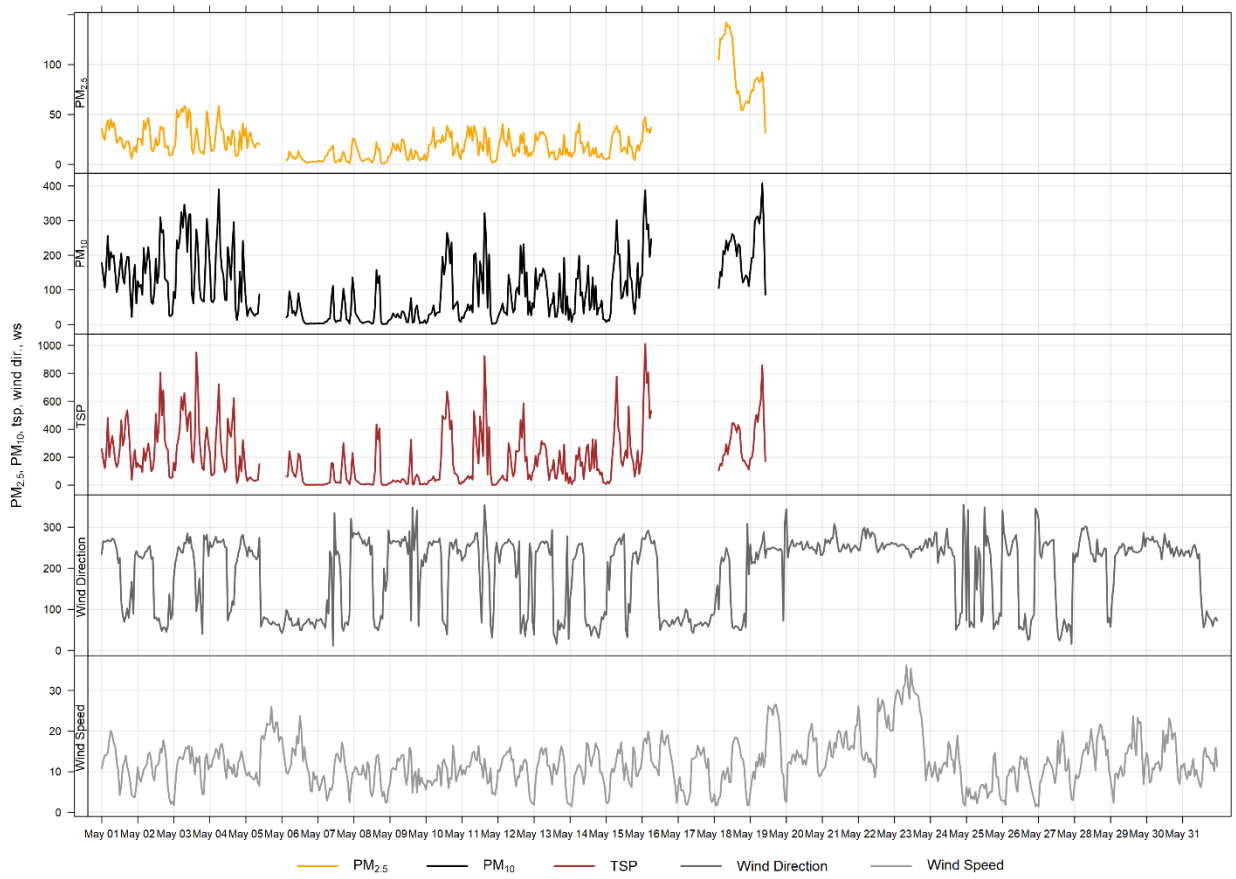

Figure 7-1 1-hour particulate matter concentrations recorded at the Entrance monitor

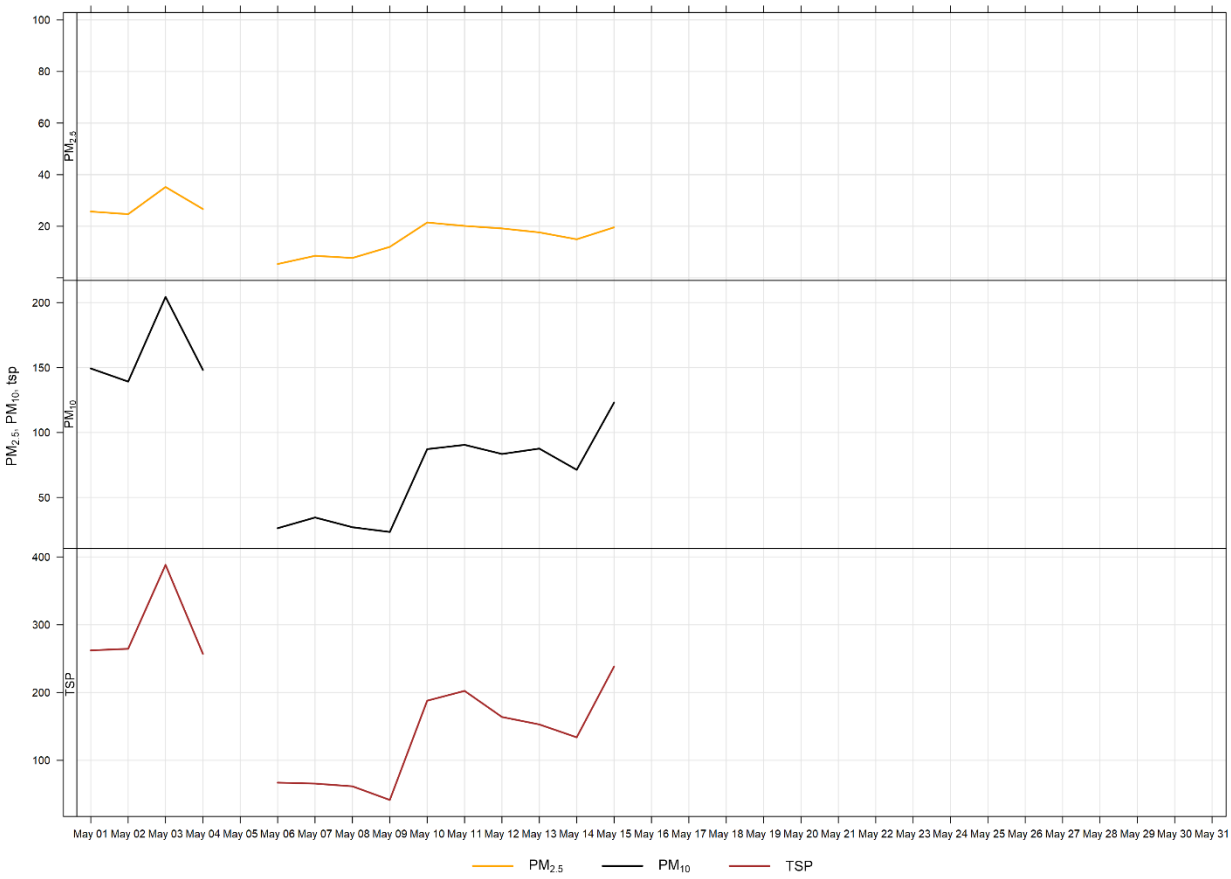

Figure 7-2 24-hour particulate matter concentrations recorded at the Entrance monitor

Figure 7-3 shows the wind rose for the 11 days of TSP exceedances. Figure 7-4 shows the wind rose for the 2 days of $PM_{2.5}$ exceedances. The wind rose shows that the wind predominately came from the west-southwest 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. The variation in wind conditions producing exceedances also shows the impact of wildfire activity.

Figure 7-5 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 7-5 is based on data collected during May 2023. The diurnal pattern differs from the Windridge, Lagoon and Berm stations and are likely more influenced by daytime traffic emission (from vehicles serving Lafarge as well as regular highway traffic) given its location near the highway entrance to Lafarge.

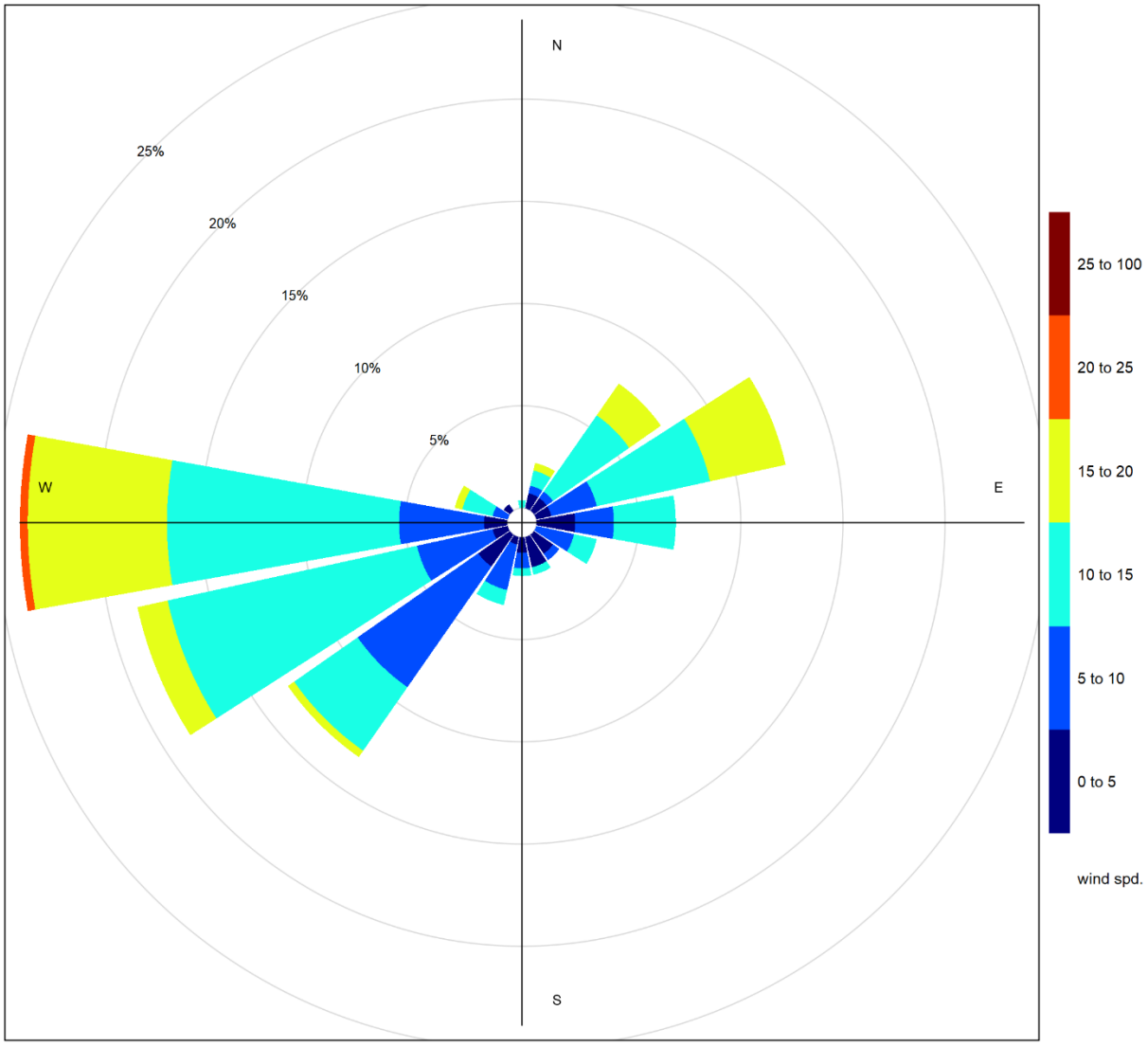

Figure 7-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

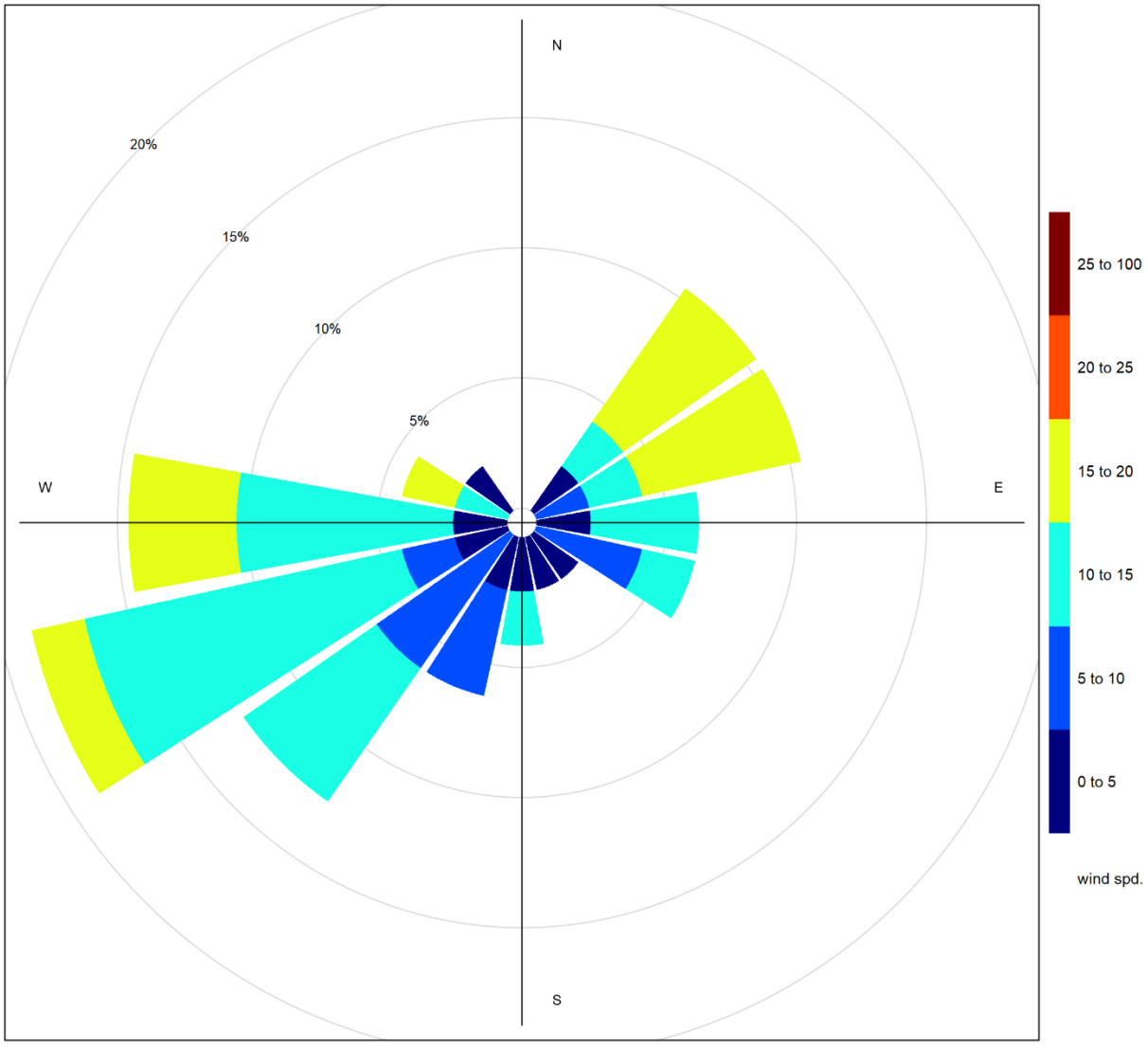

Figure 7-4 Wind rose for $PM_{2.5}$ exceedance days recorded at the Entrance GRIMM

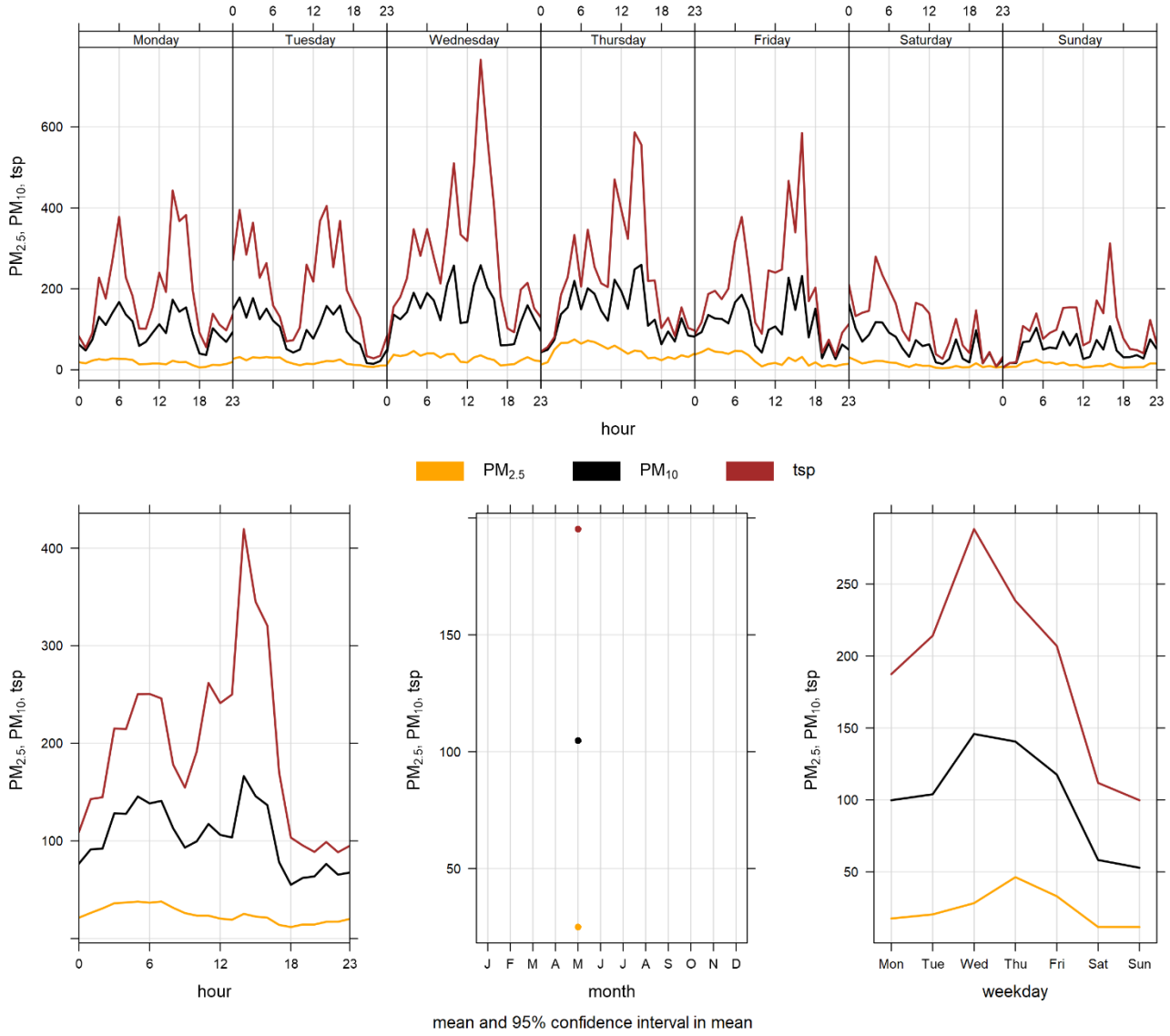

Figure 7-5 Entrance particule mater time variation

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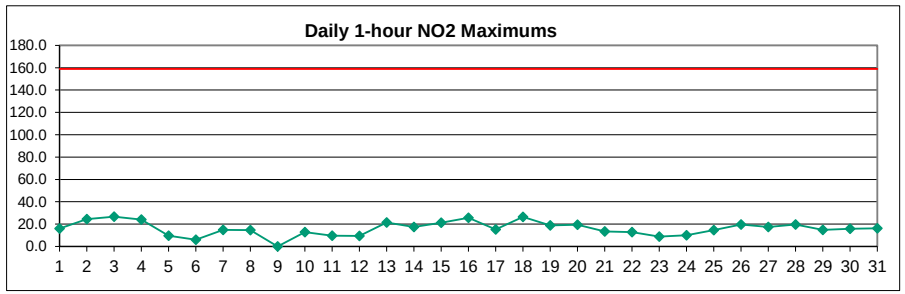
APPENDIX

A DATA & CALIBRATION REPORTS

APPENDIX

Lagoon NO_2 (ppb) – May 2023

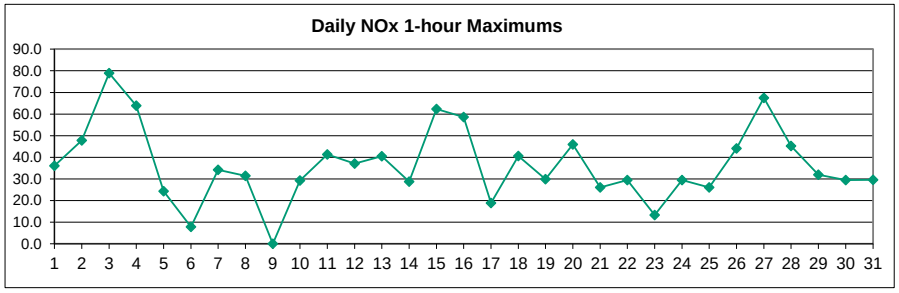
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	14.4	S	13.7	15.7	15.4	14.4	15.0	16.1	14.8	12.9	4.5	10.3	3.7	1.5	1.3	0.6	0.6	2.8	1.2	1.3	2.4	4.8	6.8	4.9	7.8	16.1
2	9.3	S	6.1	6.3	10.5	11.1	15.3	10.6	10.6	6.6	6.4	1.8	1.4	1.1	3.8	1.6	2.5	2.0	3.0	7.5	8.7	7.8	8.7	24.5	7.3	24.5
3	19.4	S	17.1	16.3	16.7	17.6	15.3	26.7	9.2	18.4	19.6	5.6	2.5	4.7	1.1	0.9	0.7	0.8	10.4	11.2	8.5	6.2	3.1	6.1	10.4	26.7
4	2.1	S	6.0	5.5	7.5	11.3	20.6	24.0	21.5	20.3	6.5	2.3	1.6	3.2	1.9	1.4	2.8	3.4	4.0	10.2	7.3	8.9	6.0	7.8	8.1	24.0
5	3.9	S	4.7	3.5	7.4	7.7	7.7	9.7	7.8	7.5	3.0	1.1	1.5	1.6	1.4	2.6	1.3	1.7	2.1	5.3	5.2	1.7	4.5	2.9	4.2	9.7
6	3.4	S	1.7	1.5	2.3	3.2	4.2	4.0	2.5	3.5	1.8	4.5	3.4	4.2	2.2	3.0	5.0	3.3	2.3	3.4	6.1	3.5	2.5	2.3	3.2	6.1
7	6.7	S	6.0	5.9	5.6	3.3	6.6	11.1	10.4	14.9	9.4	1.6	1.7	2.0	1.2	2.9	3.0	2.2	1.3	4.5	9.3	5.2	5.1	3.1	5.3	14.9
8	5.4	S	5.7	10.0	3.0	3.8	9.6	14.7	11.8	8.4	11.6	10.6	6.9	3.8	4.8	1.7	1.2	1.7	3.7	2.4	3.8	2.2	8.1	9.8	6.3	14.7
9	7.3	S	9.4	8.2	7.5	11.9	10.3	11.7	7.2	C	C	C	C	C	C	7.7	12.2	6.8	3.5	4.3	8.2	7.1	8.2	3.8	-	-
10	12.7	S	7.2	7.3	7.4	8.6	9.6	8.0	10.7	7.8	7.0	3.8	2.8	1.8	4.7	12.9	10.4	2.8	8.4	4.9	2.2	1.3	1.8	4.1	6.4	12.9
11	3.6	S	6.4	6.3	6.5	5.8	6.1	7.3	6.0	9.5	3.3	1.7	2.1	2.8	1.4	1.9	5.1	4.1	1.5	3.5	6.9	3.1	1.5	4.3	4.4	9.5
12	7.8	S	8.0	6.6	9.0	6.9	7.4	9.1	9.5	7.3	6.8	4.1	2.8	2.4	2.1	1.8	1.5	2.3	2.9	4.5	5.7	5.5	4.6	5.2	5.4	9.5
13	11.9	S	15.7	19.3	15.4	11.7	12.2	12.4	14.4	5.8	3.7	8.8	2.1	1.4	1.3	1.2	1.9	3.6	1.9	5.7	4.6	5.5	18.3	21.4	8.7	21.4
14	10.7	S	14.0	17.5	13.9	11.7	11.4	10.5	8.0	15.8	7.1	2.8	1.0	1.0	1.1	1.2	1.8	3.4	2.3	3.1	2.2	2.5	7.8	4.2	6.7	17.5
15	7.9	S	11.1	9.9	10.6	17.1	16.0	19.5	20.4	11.8	21.3	12.8	3.4	2.3	1.0	1.0	3.3	1.8	1.1	2.8	1.2	1.8	10.0	14.8	8.8	21.3
16	16.2	S	9.1	3.0	9.6	13.1	25.8	16.2	15.5	7.5	14.8	11.1	10.1	8.7	8.6	7.3	8.8	8.7	8.5	7.0	6.0	8.2	6.7	7.3	10.3	25.8
17	13.4	S	4.2	3.9	4.2	8.0	7.9	13.1	13.9	12.6	8.4	9.0	8.2	7.1	8.0	8.9	8.5	13.9	9.8	8.9	7.9	9.8	13.4	15.3	9.5	15.3
18	15.1	S	15.3	18.4	16.8	13.3	17.0	17.1	12.0	11.5	26.5	9.1	8.3	5.9	5.8	5.4	4.6	5.0	6.9	7.8	6.3	6.9	9.1	9.9	11.0	26.5
19	10.8	S	11.7	10.0	12.9	12.5	18.8	16.7	12.9	6.3	7.5	7.7	5.4	7.5	8.0	6.5	3.3	2.8	2.0	6.6	4.4	3.8	8.8	11.2	8.6	18.8
20	7.1	S	10.0	9.3	11.8	15.3	19.0	14.8	19.4	12.1	6.7	5.5	14.1	17.7	5.8	2.6	5.7	3.1	5.7	0.7	2.5	10.6	4.8	4.8	9.1	19.4
21	7.5	S	8.6	8.2	13.5	9.0	7.5	4.4	5.8	6.4	1.9	1.4	3.3	12.8	3.8	6.0	12.0	12.5	3.9	6.9	4.8	4.0	6.8	6.4	6.8	13.5
22	3.4	S	4.6	2.1	4.8	5.1	7.3	12.9	10.8	6.5	6.4	7.9	3.8	1.6	5.7	6.2	4.5	2.8	5.4	3.8	4.7	4.8	6.2	3.9	5.4	12.9
23	5.1	S	5.0	3.1	4.3	4.3	6.1	5.1	2.6	2.2	0.6	2.1	1.0	3.0	2.0	1.6	1.6	3.2	4.2	2.7	5.0	2.3	8.9	5.8	3.6	8.9
24	6.4	S	4.2	5.2	10.0	5.0	8.5	10.1	6.4	9.4	9.5	3.6	6.2	3.9	2.1	6.5	3.5	6.1	3.3	2.3	3.2	5.0	4.2	7.1	5.7	10.1
25	9.7	S	6.4	1.8	2.5	5.3	6.8	13.8	10.6	6.8	1.7	2.2	11.6	12.0	14.3	10.1	10.8	4.6	5.7	3.2	2.6	8.1	7.0	14.7	7.5	14.7
26	11.2	S	5.0	5.8	9.3	12.9	12.4	10.8	11.9	19.7	11.5	3.3	2.8	3.0	2.3	4.6	2.6	1.9	3.9	2.4	2.6	2.9	6.0	9.6	6.9	19.7
27	8.7	S	11.8	15.0	11.4	15.3	15.4	16.8	16.7	17.5	10.1	2.3	1.8	1.8	2.0	2.4	1.8	1.6	1.4	1.7	2.2	12.1	11.6	9.7	8.3	17.5
28	8.4	S	10.0	7.8	7.2	6.8	5.2	6.1	19.7	6.5	2.2	1.0	1.6	3.0	13.4	4.1	1.4	1.4	1.6	9.7	13.9	3.9	1.4	5.7	6.2	19.7
29	6.3	S	3.5	6.4	6.6	7.1	14.9	14.0	11.0	2.1	6.9	12.0	10.9	11.0	7.7	8.0	10.2	1.1	1.2	2.5	2.5	12.5	8.7	9.2	7.7	14.9
30	10.2	S	5.4	4.2	15.8	9.8	14.0	13.9	11.0	5.2	2.8	9.5	8.4	4.8	3.2	1.2	4.4	1.6	1.1	8.4	6.7	5.4	6.1	12.0	7.2	15.8
31	9.7	S	8.3	9.4	12.4	15.8	13.8	16.3	10.2	6.3	11.4	4.2	2.2	2.8	1.9	1.8	1.5	1.4	1.5	2.3	2.0	1.8	4.9	5.6	6.4	16.3
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	707	100.0%
MEAN	8.9	-	8.3	8.2	9.4	9.8	11.9	12.8	11.5	9.6	8.0	5.5	4.6	4.7	4.1	4.1	4.5	3.7	3.7	4.9	5.1	5.5	6.8	8.3		
MAX	19.4	-	17.1	19.3	16.8	17.6	25.8	26.7	21.5	20.3	26.5	12.8	14.1	17.7	14.3	12.9	12.2	13.9	10.4	11.2	13.9	12.5	18.3	24.5		



Number of 1HR Exceedences	0		
Number of Non-Zero Readings	707		
Maximum 1-HR Average	26.7	PPB	
Maximum 24-HR Average	11.0	PPB	
		Operational Time	744 HRS
Monthly Calibration	6	Operational Uptime	100.0 %
Standard Deviation	4.9	Monthly Average	7.1 PPB

Lagoon NOx (ppb) – May 2023

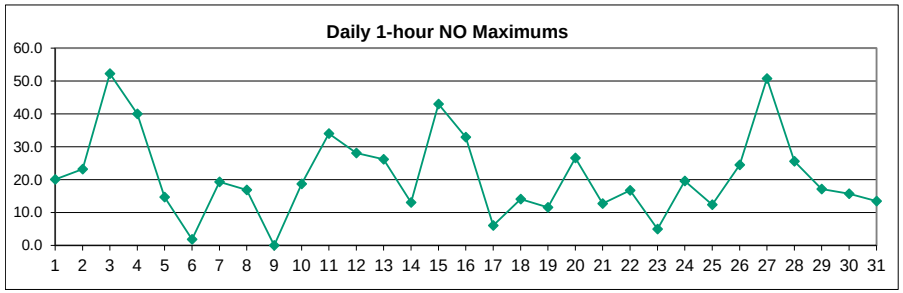
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	19.9	S	19.2	22.2	26.8	24.9	32.1	36.1	32.3	31.0	6.1	13.8	4.5	2.1	1.4	0.4	0.6	3.3	1.2	1.2	2.2	5.2	7.6	4.8	13.0	36.1
2	9.4	S	6.1	6.8	12.9	13.6	24.6	17.2	17.7	9.9	8.9	1.9	1.4	1.2	5.1	1.6	2.8	1.9	3.1	8.3	9.4	7.7	9.8	47.8	10.0	47.8
3	24.0	S	19.6	21.6	25.0	28.8	27.7	78.9	15.3	35.7	34.2	7.4	3.0	5.8	1.0	0.7	0.6	0.7	13.0	11.9	10.8	6.9	3.0	7.3	16.7	78.9
4	2.1	S	7.3	7.1	9.1	18.0	39.9	63.9	47.0	44.1	8.3	2.6	1.7	4.1	3.8	1.3	2.8	3.4	4.2	13.0	8.9	10.8	6.8	9.3	13.9	63.9
5	3.9	S	5.3	3.3	10.1	11.8	20.8	24.3	18.0	10.6	3.5	1.1	1.8	1.6	1.3	3.0	1.1	1.7	2.3	6.1	5.3	1.6	6.2	3.9	6.5	24.3
6	4.9	S	1.5	1.3	2.2	3.4	4.7	5.7	3.1	5.0	1.9	5.4	4.0	4.9	2.3	3.5	6.6	3.6	2.3	4.9	7.8	3.7	2.5	2.3	3.8	7.8
7	7.5	S	6.2	7.7	6.0	3.5	9.4	19.0	22.5	34.2	18.7	1.8	1.9	2.6	1.3	4.2	3.5	2.4	1.4	4.6	11.3	6.0	6.7	3.5	8.1	34.2
8	8.4	S	9.0	16.1	3.3	4.1	16.1	31.4	22.8	12.7	19.2	16.3	11.2	5.7	7.2	2.2	1.2	1.7	4.2	2.4	3.7	2.1	10.0	16.0	9.9	31.4
9	8.2	S	14.2	13.8	12.4	22.5	19.3	29.1	16.1	C	C	C	C	C	C	10.6	24.3	8.5	3.5	4.1	8.0	6.8	8.3	3.6	-	-
10	15.7	S	8.5	8.0	10.5	17.0	20.5	19.9	29.3	16.5	13.4	6.4	3.5	1.7	6.1	20.8	18.1	2.8	11.3	6.7	1.9	1.2	1.6	4.6	10.7	29.3
11	4.1	S	12.9	19.8	17.9	15.7	25.5	41.3	24.0	31.3	5.3	2.4	2.4	3.9	1.4	2.0	6.0	4.8	1.3	6.2	9.7	2.9	1.2	4.1	10.7	41.3
12	9.3	S	18.1	11.7	23.9	13.9	24.8	37.1	35.1	17.4	14.4	6.5	3.3	2.6	2.2	1.9	1.3	2.7	3.2	4.4	5.5	5.2	4.3	8.1	11.2	37.1
13	17.7	S	21.7	39.6	30.9	22.5	30.6	33.6	40.5	9.7	4.7	12.2	2.2	1.3	1.1	1.0	2.0	4.1	1.6	6.5	4.3	5.2	31.5	24.4	15.2	40.5
14	10.5	S	14.9	19.5	19.0	18.8	17.5	20.2	12.5	28.8	9.5	3.3	0.8	0.8	1.0	1.2	1.9	4.3	2.8	3.8	2.0	2.3	9.4	4.0	9.1	28.8
15	8.7	S	11.6	11.5	14.3	36.4	44.6	62.3	57.0	22.6	46.5	19.1	4.2	2.7	0.7	0.9	3.5	1.8	0.8	2.5	0.8	1.6	12.0	22.6	16.9	62.3
16	26.4	S	14.1	3.3	16.8	22.7	58.6	24.9	23.6	8.4	17.1	12.3	9.9	8.4	8.8	6.9	8.7	8.8	8.4	6.6	5.5	8.2	6.4	7.2	14.0	58.6
17	15.0	S	4.0	3.7	4.7	9.8	9.9	18.9	18.7	16.2	8.4	9.4	8.5	6.8	7.7	8.7	8.2	15.9	10.5	9.7	7.5	9.5	14.8	16.5	10.6	18.9
18	15.2	S	29.2	24.2	18.1	13.6	20.1	23.5	14.3	13.3	40.6	9.7	8.7	6.0	6.1	5.3	4.5	4.8	6.9	9.5	6.2	6.5	10.9	9.7	13.3	40.6
19	10.5	S	12.0	11.5	15.2	17.9	29.9	28.0	21.3	7.7	10.7	10.6	6.7	10.7	11.0	8.6	3.5	3.0	1.9	7.4	4.1	3.4	8.6	12.6	11.2	29.9
20	6.8	S	12.5	14.3	19.2	23.0	38.4	30.1	46.0	23.9	9.9	8.3	24.1	28.9	8.0	2.6	7.5	3.2	8.0	0.4	2.1	13.6	4.5	4.4	14.8	46.0
21	8.1	S	11.4	11.6	26.1	14.2	12.2	7.5	9.9	9.1	1.8	1.1	4.1	21.4	4.7	8.3	19.7	19.7	4.0	7.5	4.5	3.9	8.0	8.0	9.9	26.1
22	3.2	S	5.1	2.0	6.3	6.7	15.7	29.5	20.9	9.1	9.6	11.0	5.5	1.4	9.0	9.3	5.5	2.9	6.4	3.9	5.2	5.1	7.0	4.3	8.0	29.5
23	8.3	S	7.2	3.3	7.1	5.8	11.0	8.5	3.2	2.8	0.3	3.2	1.1	4.9	2.8	1.8	1.6	5.3	5.5	2.8	7.4	2.1	13.3	8.1	5.1	13.3
24	10.1	S	4.9	6.4	14.9	6.8	21.9	29.5	11.1	21.6	23.7	5.1	14.7	7.0	2.6	9.8	3.8	6.4	3.2	1.9	2.9	4.9	4.2	10.4	9.9	29.5
25	11.7	S	9.0	1.5	2.2	8.8	11.9	26.1	17.5	10.2	1.5	2.3	16.1	16.2	16.6	12.0	12.8	4.6	6.6	3.0	2.3	8.0	7.0	16.4	9.8	26.1
26	12.3	S	5.8	6.3	10.6	21.7	27.2	23.3	27.4	44.1	19.1	3.7	2.7	3.4	2.3	6.7	2.5	1.6	4.6	2.0	2.4	2.7	6.3	19.8	11.2	44.1
27	17.5	S	12.5	22.6	18.8	40.1	45.6	67.5	53.3	52.5	17.1	2.2	1.6	1.7	2.0	2.3	1.6	1.3	1.0	1.3	1.9	15.5	15.4	9.6	17.6	67.5
28	11.0	S	13.1	8.6	10.6	10.4	8.0	10.3	45.2	10.4	2.6	0.7	1.5	4.0	26.1	6.6	1.2	1.1	1.6	13.9	16.8	3.6	1.0	5.6	9.3	45.2
29	6.2	S	3.1	6.8	7.4	9.6	31.9	29.8	19.6	2.4	10.3	19.4	22.4	18.6	11.3	13.7	18.2	0.8	0.9	2.9	2.2	15.1	9.9	12.0	11.9	31.9
30	14.3	S	5.6	5.3	27.8	15.9	29.5	26.6	21.6	7.2	3.3	19.0	15.1	7.8	4.1	1.1	5.5	1.5	0.8	10.1	7.6	5.9	7.4	11.8	11.1	29.5
31	9.4	S	10.0	10.8	13.7	19.7	21.0	29.6	18.6	8.4	15.9	4.4	2.2	2.9	1.8	1.5	1.3	1.0	1.3	2.0	1.7	1.5	4.9	5.4	8.2	29.6
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	707	100.0%
MEAN	11.0	-	10.8	11.4	14.3	16.2	24.2	30.1	24.7	18.6	12.9	7.4	6.4	6.4	5.4	5.2	5.9	4.2	4.1	5.5	5.5	5.8	8.1	10.6		
MAX	26.4	-	29.2	39.6	30.9	40.1	58.6	78.9	57.0	52.5	46.5	19.4	24.1	28.9	26.1	20.8	24.3	19.7	13.0	13.9	16.8	15.5	31.5	47.8		



Number of Non-Zero Readings	707		
Maximum 1-HR Average	78.9 PPB		
Maximum 24-HR Average	17.6 PPB		
		Operational Time	744 HRS
Monthly Calibration	6	Operational Uptime	100.0 %
Standard Deviation	10.93	Monthly Average	11.1 PPB

Lagoon NO (ppb) – May 2023

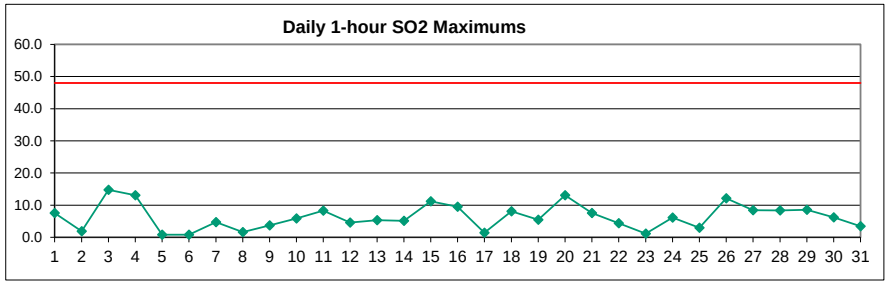
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	5.7	S	5.6	6.6	11.4	10.7	17.3	20.1	17.7	18.3	1.7	3.7	0.9	0.7	0.2	0.0	0.0	0.6	0.1	0.0	0.0	0.4	0.9	0.0	5.3	20.1
2	0.3	S	0.1	0.5	2.6	2.7	9.5	6.9	7.3	3.6	2.6	0.1	0.0	0.1	1.3	0.1	0.3	0.0	0.2	0.9	0.8	0.0	1.3	23.2	2.8	23.2
3	4.7	S	2.6	5.4	8.4	11.3	12.5	52.2	6.2	17.5	14.7	1.8	0.6	1.2	0.0	0.0	0.0	0.0	2.6	0.9	2.4	0.8	0.0	1.3	6.4	52.2
4	0.1	S	1.5	1.7	1.8	6.9	19.4	40.0	25.6	23.9	2.0	0.4	0.1	0.9	2.0	0.0	0.1	0.1	0.3	3.0	1.7	2.0	0.9	1.6	5.9	40.0
5	0.0	S	0.7	0.0	2.8	4.3	13.3	14.7	10.4	3.4	0.6	0.0	0.3	0.1	0.0	0.5	0.0	0.0	0.3	0.9	0.2	0.0	1.9	1.0	2.4	14.7
6	1.6	S	0.0	0.0	0.0	0.3	0.5	1.8	0.8	1.7	0.2	1.1	0.7	0.8	0.2	0.6	1.7	0.4	0.0	1.5	1.8	0.2	0.0	0.0	0.7	1.8
7	0.8	S	0.3	1.9	0.6	0.3	3.0	8.1	12.3	19.4	9.4	0.3	0.3	0.8	0.2	1.4	0.5	0.3	0.1	0.2	2.1	0.8	1.8	0.4	2.8	19.4
8	3.1	S	3.4	6.2	0.4	0.4	6.7	16.9	11.2	4.5	7.8	5.9	4.5	2.1	2.6	0.6	0.1	0.2	0.6	0.1	0.0	0.0	2.1	6.2	3.7	16.9
9	1.0	S	5.0	5.8	5.0	10.8	9.2	17.5	9.1	C	C	C	C	C	C	3.1	12.3	1.9	0.1	0.0	0.0	0.0	0.2	0.0	-	-
10	3.1	S	1.4	0.8	3.2	8.5	11.1	12.1	18.7	8.9	6.5	2.8	0.8	0.1	1.5	8.2	7.8	0.1	3.0	2.0	0.0	0.0	0.0	0.6	4.4	18.7
11	0.6	S	6.6	13.6	11.6	10.1	19.6	34.1	18.1	21.9	2.1	0.8	0.3	1.2	0.1	0.1	1.0	0.8	0.0	2.8	3.0	0.0	0.0	0.0	6.5	34.1
12	1.7	S	10.2	5.2	15.0	7.2	17.6	28.1	25.8	10.3	7.8	2.6	0.7	0.3	0.2	0.2	0.0	0.5	0.4	0.0	0.0	0.0	0.0	2.9	5.9	28.1
13	6.0	S	6.1	20.4	15.7	11.0	18.5	21.3	26.2	4.0	1.1	3.6	0.2	0.0	0.0	0.0	0.2	0.6	0.0	0.9	0.0	0.0	13.2	3.1	6.6	26.2
14	0.0	S	1.0	2.1	5.3	7.2	6.3	9.8	4.7	13.1	2.6	0.5	0.0	0.0	0.0	0.1	0.1	1.0	0.6	0.8	0.0	0.0	1.6	0.0	2.5	13.1
15	0.9	S	0.7	1.8	3.9	19.5	28.7	43.0	36.6	11.0	25.3	6.5	0.9	0.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	2.1	7.9	8.2	43.0
16	10.3	S	5.2	0.3	7.4	9.7	32.9	8.8	8.3	1.1	2.5	1.4	0.0	0.0	0.3	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.1	3.9	32.9
17	1.7	S	0.0	0.0	0.7	2.1	2.3	6.0	5.0	3.7	0.2	0.6	0.5	0.0	0.0	0.0	0.0	2.1	0.8	1.0	0.0	0.0	1.5	1.2	1.3	6.0
18	0.2	S	14.0	6.0	1.3	0.5	3.2	6.6	2.4	2.0	14.1	0.8	0.6	0.3	0.3	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.9	0.0	2.4	14.1
19	0.0	S	0.4	1.7	2.5	5.5	11.3	11.6	8.6	1.5	3.3	3.1	1.4	3.4	3.1	2.2	0.3	0.3	0.0	0.9	0.0	0.0	0.0	1.5	2.7	11.6
20	0.0	S	2.7	5.1	7.5	7.9	19.5	15.4	26.6	12.0	3.4	2.9	10.1	11.3	2.3	0.1	1.9	0.2	2.3	0.0	0.0	3.1	0.0	0.0	5.8	26.6
21	0.7	S	2.9	3.5	12.7	5.3	4.8	3.1	4.2	2.8	0.0	0.0	0.9	8.7	1.1	2.4	7.9	7.3	0.2	0.7	0.0	0.0	1.3	1.8	3.2	12.7
22	0.0	S	0.6	0.0	1.6	1.7	8.6	16.8	10.3	2.7	3.3	3.3	1.7	0.0	3.4	3.2	1.0	0.1	1.1	0.2	0.6	0.5	0.8	0.5	2.7	16.8
23	3.3	S	2.3	0.2	2.9	1.6	5.0	3.5	0.7	0.7	0.0	1.2	0.2	2.0	0.8	0.4	0.1	2.1	1.4	0.2	2.5	0.0	4.5	2.4	1.7	5.0
24	3.8	S	0.9	1.2	5.0	1.9	13.6	19.6	4.8	12.4	14.3	1.6	8.5	3.2	0.6	3.4	0.4	0.3	0.0	0.0	0.0	0.0	0.1	3.4	4.3	19.6
25	2.1	S	2.7	0.0	0.0	3.5	5.2	12.4	7.2	3.6	0.0	0.1	4.7	4.3	2.5	2.0	2.1	0.0	1.0	0.0	0.0	0.0	0.1	1.8	2.4	12.4
26	1.2	S	0.8	0.6	1.5	8.9	15.0	12.8	15.7	24.5	7.7	0.4	0.0	0.4	0.0	2.1	0.0	0.0	0.8	0.0	0.0	0.0	0.5	10.3	4.5	24.5
27	8.9	S	0.8	7.8	7.6	24.9	30.3	50.8	36.7	35.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.0	0.0	9.5	50.8
28	2.7	S	3.3	1.0	3.6	3.8	2.9	4.4	25.6	4.1	0.5	0.0	0.0	1.1	12.8	2.6	0.0	0.0	0.0	4.3	3.0	0.0	0.0	0.0	3.3	25.6
29	0.0	S	0.0	0.5	0.8	2.6	17.2	15.9	8.8	0.3	3.5	7.5	11.6	7.7	3.7	5.8	8.0	0.0	0.0	0.4	0.0	2.7	1.3	2.9	4.4	17.2
30	4.2	S	0.3	1.2	12.1	6.2	15.7	12.9	10.8	2.1	0.6	9.5	6.8	3.1	1.0	0.0	1.3	0.0	0.0	1.9	1.0	0.6	1.4	0.0	4.0	15.7
31	0.0	S	1.7	1.4	1.4	4.0	7.4	13.4	8.6	2.3	4.6	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.0	13.4
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	707	100.0%
MEAN	2.2	-	2.7	3.3	5.0	6.5	12.5	17.4	13.4	9.1	5.0	2.1	1.9	1.8	1.3	1.3	1.5	0.6	0.5	0.8	0.6	0.5	1.4	2.4		
MAX	10.3	-	14.0	20.4	15.7	24.9	32.9	52.2	36.7	35.1	25.3	9.5	11.6	11.3	12.8	8.2	12.3	7.3	3.0	4.3	3.0	3.5	13.2	23.2		



Number of Non-Zero Readings	572		
Maximum 1-HR Average	52.2 PPB		
Maximum 24-HR Average	9.5 PPB		
		Operational Time	744 HRS
Monthly Calibration	6	Operational Uptime	100.0 %
Standard Deviation	6.9	Monthly Average	4.1 PPB

Lagoon SO_2 (ppb) – May 2023

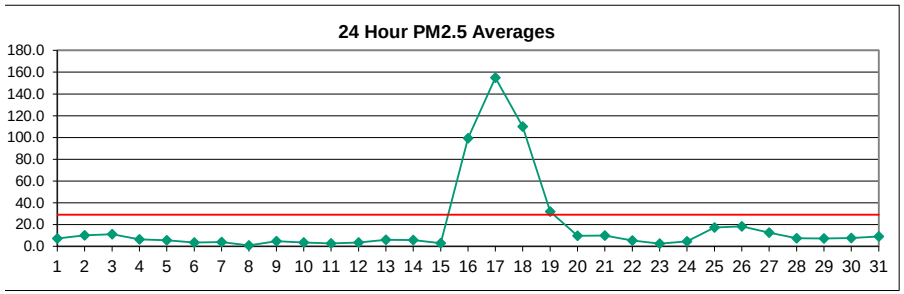
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	1.0	S	1.1	1.7	2.9	2.4	4.2	5.1	5.5	7.5	1.1	3.0	1.1	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.6	0.5	0.3	1.8	7.5
2	0.4	S	0.1	0.2	0.3	0.3	1.3	1.1	0.4	0.5	1.9	0.7	0.7	0.7	0.9	0.8	0.9	0.9	0.8	0.7	0.4	0.2	0.2	0.4	0.6	1.9
3	0.3	S	0.6	1.8	2.8	3.8	3.2	14.8	2.8	7.9	6.9	0.8	0.8	1.8	0.5	0.3	0.4	0.2	0.4	0.8	1.1	1.5	0.6	1.5	2.4	14.8
4	0.6	S	1.0	1.6	1.5	2.0	6.4	13.1	10.7	10.8	1.5	0.9	0.7	0.5	0.5	0.5	0.7	0.4	0.4	1.0	1.0	1.1	0.6	0.6	2.5	13.1
5	0.3	S	0.2	0.2	0.2	0.2	0.4	0.4	0.7	0.8	0.6	0.5	0.4	0.5	0.6	0.6	0.4	0.4	0.6	0.7	0.6	0.5	0.4	0.3	0.5	0.8
6	0.3	S	0.0	0.1	0.5	0.8	0.8	0.6	0.6	0.6	0.4	0.5	0.4	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.8
7	0.3	S	0.2	0.2	0.2	0.2	0.5	0.7	1.7	4.7	1.9	0.4	0.4	0.4	0.3	0.4	0.5	0.4	0.4	0.4	0.2	0.5	0.9	0.4	0.7	4.7
8	0.9	S	0.7	0.8	0.3	0.3	0.4	0.8	0.4	0.5	1.5	1.6	1.0	0.6	0.5	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.5	0.5	0.6	1.6
9	0.4	S	0.9	0.8	0.5	1.3	0.6	2.8	1.3	C	C	C	C	0.1	0.2	0.6	3.7	0.9	0.3	0.0	0.0	0.1	0.0	0.0	0.8	3.7
10	0.0	S	0.0	0.2	0.3	0.9	1.1	1.2	3.1	2.6	2.7	0.6	0.4	0.1	1.0	5.2	5.8	0.2	0.3	0.3	0.0	0.0	0.0	0.0	1.1	5.8
11	0.0	S	1.3	2.7	1.6	1.4	2.3	6.7	5.0	8.3	1.0	0.3	0.4	0.5	0.2	0.2	0.5	0.8	0.2	0.1	0.0	0.0	0.0	0.0	1.5	8.3
12	0.0	S	0.9	0.4	1.8	1.1	2.2	4.6	4.4	2.6	2.7	1.2	0.5	0.4	0.4	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	1.0	4.6
13	0.0	S	0.5	3.0	3.3	1.4	3.5	4.4	5.3	1.1	0.5	2.7	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.1	0.3	0.0	1.2	5.3
14	0.0	S	0.0	0.0	0.6	0.7	1.0	2.8	0.9	5.1	1.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.0	0.6	5.1
15	0.0	S	0.0	0.2	0.4	2.1	3.7	7.5	7.9	3.8	11.2	6.0	0.8	0.3	0.2	0.2	1.8	0.1	0.1	0.2	0.2	0.1	1.4	4.4	2.3	11.2
16	5.8	S	2.4	0.6	1.9	2.7	9.5	3.2	1.3	0.3	2.7	2.7	3.9	2.9	2.1	1.1	0.7	1.3	0.9	0.8	0.5	0.4	0.3	0.2	2.1	9.5
17	0.6	S	0.0	0.1	0.0	0.1	0.1	0.5	1.1	0.9	1.2	1.0	1.0	1.0	1.2	1.4	1.3	1.0	0.9	1.0	0.4	0.0	0.0	0.0	0.6	1.4
18	0.0	S	0.0	0.0	0.0	0.0	0.6	0.6	0.4	0.4	8.1	1.6	1.4	0.8	0.7	0.7	0.6	0.4	0.6	0.5	0.3	0.3	0.1	0.1	0.8	8.1
19	0.2	S	0.4	1.0	1.3	2.0	5.2	5.5	3.9	1.0	1.8	2.3	1.4	2.4	2.6	1.6	0.6	0.7	0.2	0.2	0.3	0.3	0.3	0.3	1.5	5.5
20	0.2	S	1.4	2.1	2.7	2.7	7.1	6.9	11.7	5.3	2.7	2.3	13.1	10.4	2.1	0.4	2.5	0.5	0.6	0.1	0.3	0.4	0.3	0.4	3.3	13.1
21	1.4	S	1.8	2.1	6.1	3.4	1.7	1.0	1.8	1.1	0.2	0.2	0.9	7.6	1.5	3.5	6.3	4.3	0.3	0.4	0.3	0.6	0.7	0.3	2.1	7.6
22	0.2	S	0.9	0.5	1.0	1.1	1.6	4.4	3.3	1.1	1.3	1.3	0.4	0.4	0.4	2.0	0.9	0.4	0.6	0.5	0.4	0.4	0.3	0.4	1.0	4.4
23	0.6	S	0.3	0.3	0.5	0.4	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	1.1	0.5	0.2	0.5	0.2	0.4	0.7	0.4	1.1
24	0.3	S	0.2	0.3	0.5	0.2	1.1	1.8	0.5	1.4	2.6	0.7	6.1	2.5	1.0	5.7	1.4	1.0	0.8	0.6	0.2	0.2	0.2	0.1	1.3	6.1
25	0.0	S	0.0	0.0	0.0	0.1	0.1	0.3	0.9	0.5	0.3	0.6	3.0	2.9	2.6	1.7	1.5	0.4	0.4	0.2	0.0	0.1	0.1	0.1	0.7	3.0
26	0.1	S	0.0	0.0	0.1	0.5	1.2	1.4	4.4	12.1	4.9	0.8	0.4	0.5	0.3	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.0	0.3	1.3	12.1
27	0.3	S	0.2	0.9	1.2	3.1	3.9	8.4	7.4	7.6	3.9	0.6	0.5	0.5	0.5	0.7	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.2	1.9	8.4
28	0.3	S	0.9	0.8	0.8	1.0	1.1	1.8	8.4	1.1	0.2	0.3	0.4	0.9	5.2	1.6	0.3	0.4	0.4	1.5	0.4	0.3	0.4	0.5	1.3	8.4
29	0.2	S	0.1	0.8	1.1	1.2	4.4	6.3	2.8	0.4	4.0	5.8	8.6	6.8	4.0	2.3	4.0	0.5	0.3	0.6	0.5	2.0	1.1	1.8	2.6	8.6
30	2.3	S	0.7	0.7	4.0	2.2	3.7	3.7	3.8	2.4	0.6	6.2	5.6	2.9	1.0	0.3	1.4	0.4	0.3	1.0	0.5	0.4	0.4	0.3	2.0	6.2
31	0.3	S	0.3	0.2	0.2	0.2	0.2	3.4	2.6	1.1	2.9	1.1	0.8	1.0	0.6	0.6	0.5	0.6	0.4	0.6	0.4	0.5	1.1	0.6	0.9	3.4
NO.	31	-	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	709	100.0%
MEAN	0.6	-	0.5	0.8	1.3	1.3	2.4	3.8	3.4	3.1	2.4	1.6	1.8	1.6	1.0	1.1	1.3	0.6	0.4	0.5	0.3	0.4	0.4	0.5		
MAX	5.8	-	2.4	3.0	6.1	3.8	9.5	14.8	11.7	12.1	11.2	6.2	13.1	10.4	5.2	5.7	6.3	4.3	0.9	1.5	1.1	2.0	1.4	4.4		



Number of 1HR Exceedences	0		
Number of Non-Zero Readings	670		
Maximum 1-HR Average	14.8 PPB		
Maximum 24-HR Average	3.3 PPB		
		Operational Time	744 HRS
Monthly Calibration	4	Operational Uptime	100.0 %
Standard Deviation	2.056	Monthly Average	1.3 PPB

Lagoon $PM_{2.5}$ (µg/m^3) – May 2023

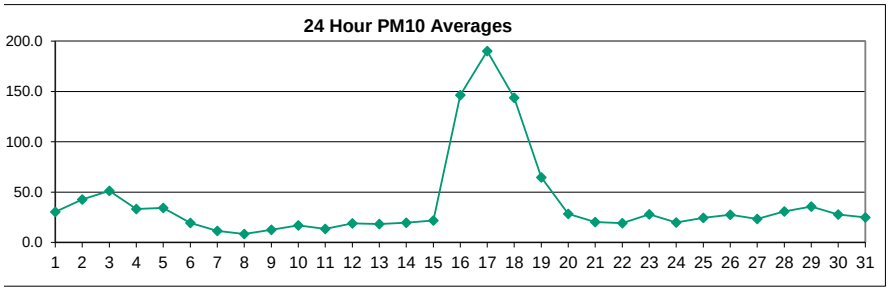
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	6.8	4.9	6.6	7.9	5.8	7.5	7.6	9.0	9.2	6.9	12.5	11.9	13.3	9.8	6.7	5.3	7.0	6.3	5.2	4.1	4.1	6.3	5.0	5.1	7.3	13.3
2	5.0	X	8.7	9.5	11.2	9.5	8.9	13.6	10.4	10.7	9.4	9.4	7.0	9.6	13.4	8.6	11.7	11.0	10.3	8.0	9.1	11.9	11.3	12.7	10.0	13.6
3	11.6	X	19.2	17.4	17.6	16.4	12.6	12.7	18.5	14.8	15.0	12.5	18.0	6.2	8.2	8.7	6.6	4.2	4.1	3.9	4.5	10.4	8.0	4.5	11.1	19.2
4	6.8	X	5.3	4.9	5.6	6.7	5.7	10.1	9.5	10.8	13.3	8.8	6.6	7.5	5.2	4.1	5.2	6.7	5.2	6.0	4.2	3.0	3.4	3.8	6.4	13.3
5	6.0	X	4.0	5.8	5.1	3.9	5.3	6.2	16.9	10.6	9.3	7.6	4.2	1.5	3.1	3.4	8.4	7.9	4.3	2.4	4.1	3.2	1.4	1.9	5.5	16.9
6	2.2	X	5.3	2.0	0.0	0.0	5.7	7.1	3.5	1.1	1.8	1.8	4.5	4.6	4.5	3.9	4.1	3.6	2.2	1.5	2.4	7.2	6.1	3.7	3.4	7.2
7	5.2	X	2.4	4.0	4.4	3.8	4.1	9.0	12.7	11.5	8.6	7.8	4.2	0.9	0.0	0.0	1.0	0.5	0.0	0.0	0.0	4.8	3.5	0.0	3.8	12.7
8	0.0	X	0.9	0.0	0.5	1.8	1.2	0.2	0.0	0.3	1.8	1.7	1.7	0.3	0.0	2.7	2.6	0.6	0.0	0.3	1.0	0.0	0.0	0.0	0.8	2.7
9	1.1	X	5.6	2.4	6.5	7.0	4.6	4.8	3.6	4.5	3.4	3.5	3.6	7.0	7.2	6.7	5.5	4.9	4.0	3.8	5.2	6.6	4.0	3.7	4.7	7.2
10	4.1	6.8	4.8	2.2	3.0	2.3	1.2	2.2	4.6	3.0	5.3	7.6	4.7	4.1	4.1	2.3	3.9	4.5	2.2	2.9	4.0	2.4	2.0	2.5	3.6	7.6
11	2.1	1.7	1.2	0.9	2.6	3.7	4.2	4.0	4.8	5.1	3.9	2.9	1.4	2.5	1.0	0.0	2.9	5.3	2.4	2.2	2.8	1.8	4.0	3.1	2.8	5.3
12	2.9	4.1	0.6	0.0	2.0	5.7	6.6	4.4	5.3	7.0	6.4	2.1	0.0	0.0	1.2	1.2	3.8	4.6	2.9	2.9	4.6	4.3	5.9	7.5	3.6	7.5
13	8.3	9.0	8.8	9.1	7.8	6.3	2.6	2.1	6.8	4.4	1.5	4.1	5.0	4.5	3.3	4.8	5.8	3.3	1.5	6.1	8.7	6.1	12.0	11.3	6.0	12.0
14	8.8	X	7.3	8.0	8.7	8.5	5.4	7.9	6.5	9.9	9.6	10.6	7.6	5.7	4.3	3.1	5.0	4.0	1.7	0.4	0.0	0.0	2.5	7.4	5.8	10.6
15	6.5	X	2.4	3.7	6.2	4.6	3.9	3.7	4.3	4.6	3.7	4.5	6.8	6.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	6.8
16	3.2	0.1	0.7	2.2	5.8	7.8	5.8	6.5	10.6	8.2	6.4	64.5	250.2	250.2	250.2	250.2	249.7	219.7	144.0	132.9	155.7	133.3	118.2	106.1	99.3	250.2
17	96.6	113.5	96.4	93.1	92.1	86.7	79.3	81.9	92.6	106.3	143.7	209.6	204.2	184.5	205.4	219.9	227.5	250.2	249.9	229.8	171.2	165.9	162.2	157.8	155.0	250.2
18	157.9	157.9	152.7	143.5	131.5	123.2	132.4	142.9	156.5	156.2	153.7	143.6	133.4	108.3	94.5	76.8	77.8	57.6	59.5	58.3	55.0	59.3	62.5	48.3	110.1	157.9
19	50.2	X	52.3	57.4	48.2	52.5	48.9	51.1	48.3	46.2	C	C	C	25.2	19.4	15.4	16.5	12.6	9.8	13.0	9.1	10.3	28.2	26.7	32.1	57.4
20	21.8	X	12.3	10.2	8.6	8.8	10.4	8.8	8.4	11.4	11.0	10.6	11.6	8.3	8.8	7.2	8.0	6.3	5.0	10.7	7.5	10.2	9.2	10.3	9.8	21.8
21	10.2	9.5	8.4	9.6	10.4	11.8	8.5	12.6	12.4	11.5	14.7	9.1	5.4	5.3	7.1	5.0	4.3	5.1	11.7	8.6	12.3	25.6	11.2	9.4	10.0	25.6
22	9.7	6.6	5.1	5.3	5.8	5.0	4.1	6.2	5.8	2.9	2.0	3.3	4.4	4.4	5.2	4.3	29.6	0.0	1.2	2.4	4.9	5.6	4.0	2.6	5.4	29.6
23	1.3	X	2.1	1.7	1.0	3.1	4.4	6.0	2.7	1.0	1.6	2.5	2.9	0.7	0.3	2.6	2.1	1.8	2.6	2.8	3.9	3.3	3.6	4.5	2.5	6.0
24	2.9	X	4.8	2.6	2.0	1.0	2.8	2.9	2.0	4.5	5.5	3.2	3.3	5.6	4.3	2.4	1.1	3.5	7.3	8.8	7.5	7.3	8.9	10.9	4.6	10.9
25	9.2	X	10.1	16.8	17.2	19.4	26.5	21.7	25.0	25.1	23.5	18.0	18.5	18.0	16.0	14.4	17.0	14.7	16.9	12.1	16.8	13.6	15.5	13.7	17.4	26.5
26	10.7	X	10.9	21.3	27.9	25.0	24.7	14.4	14.9	17.0	16.8	17.7	18.6	14.6	15.7	16.2	18.8	17.8	19.7	16.6	21.7	22.2	17.5	20.9	18.3	27.9
27	20.1	X	19.5	18.4	16.8	12.8	10.7	11.5	28.1	17.6	10.2	13.0	11.2	11.6	7.8	7.4	8.8	8.7	9.0	9.2	8.9	7.3	12.0	11.2	12.7	28.1
28	17.1	X	11.1	8.4	5.3	8.4	6.0	7.7	9.7	8.3	15.3	10.9	5.7	5.8	4.4	5.7	4.8	6.2	5.5	4.7	5.0	3.8	4.0	5.3	7.4	17.1
29	8.9	11.8	10.4	7.6	8.2	8.9	7.0	6.4	5.1	5.3	8.2	5.2	4.1	5.3	6.0	12.6	9.8	11.3	7.5	3.9	4.2	5.3	6.1	4.7	7.2	12.6
30	3.6	4.3	3.7	4.7	4.5	5.8	5.2	9.9	9.4	11.9	7.4	8.2	6.9	10.2	6.5	6.2	7.5	10.4	6.2	6.2	7.8	8.4	15.9	11.7	7.6	15.9
31	10.9	9.9	8.6	5.7	10.2	10.7	11.5	13.4	14.8	10.1	5.9	8.2	10.5	9.2	10.0	7.6	8.3	9.0	9.6	6.7	4.9	6.0	6.6	11.0	9.1	14.8
NO.	31	13	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	31	723	97.6%
MEAN	16.5	26.2	15.9	15.7	15.6	15.4	15.1	16.2	18.2	17.7	17.7	20.8	26.0	23.8	23.4	22.9	24.7	22.6	19.7	18.4	17.8	17.9	17.9	16.9		
MAX	157.9	157.9	152.7	143.5	131.5	123.2	132.4	142.9	156.5	156.2	153.7	209.6	250.2	250.2	250.2	250.2	249.7	250.2	249.9	229.8	171.2	165.9	162.2	157.8		



Number of 24HR Exceedences	4		
Number of Non-Zero Readings	693		
Maximum 1-HR Average	250.2	UG/M3	
Maximum 24-HR Average	155.0	UG/M3	
		Operational Time	726 HRS
Monthly Calibration	3	Operational Uptime	97.6 %
Standard Deviation	41.95	Monthly Average	19.1 UG/M3

Lagoon PM_{10} ($\mu g/m^3$) – May 2023

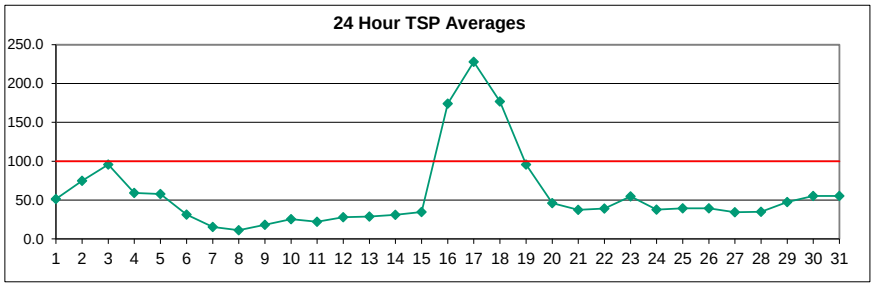
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	25.7	14.9	19.5	14.5	18.8	21.2	21.7	37.2	56.1	64.4	49.8	32.3	43.2	31.8	30.5	32.7	24.9	38.0	65.8	5.0	20.1	16.2	24.3	19.0	30.3	65.8
2	26.4	26.4	18.3	17.5	29.2	31.6	39.2	83.4	68.0	59.7	35.4	32.8	27.2	35.9	32.5	68.3	59.9	79.6	45.6	50.3	45.6	41.9	33.0	39.7	42.8	83.4
3	43.3	38.9	111.1	42.3	53.7	60.6	73.0	54.4	82.2	53.8	105.9	88.5	90.2	33.5	36.3	33.2	24.2	15.8	26.7	20.1	49.6	53.4	21.8	18.6	51.3	111.1
4	14.3	9.1	12.5	13.1	11.3	27.0	25.4	103.6	56.3	45.2	56.4	28.3	32.9	54.9	41.2	58.5	85.0	18.9	17.2	15.6	23.4	10.7	18.4	17.2	33.2	103.6
5	23.1	15.2	12.6	17.9	17.2	19.8	23.3	18.7	51.6	51.5	39.7	30.2	25.8	25.8	39.0	34.5	68.5	44.7	44.2	57.8	56.6	43.7	36.0	26.2	34.3	68.5
6	32.1	30.3	19.4	19.5	17.3	21.0	16.1	17.7	21.4	24.9	35.6	28.8	53.1	34.0	19.8	4.6	3.0	8.0	13.2	9.7	7.3	8.2	13.4	8.6	19.5	53.1
7	6.2	10.6	11.1	10.4	10.8	10.9	10.3	24.6	27.3	26.6	22.5	12.3	6.8	8.8	6.5	3.8	12.5	8.5	6.4	6.1	9.4	8.6	9.4	6.2	11.5	27.3
8	2.3	1.0	10.5	6.5	13.1	9.5	11.7	15.7	14.6	8.8	13.2	9.9	15.1	6.7	8.0	10.3	5.5	8.9	6.9	7.9	3.3	3.3	3.1	4.4	8.3	15.7
9	8.5	23.3	10.1	9.9	17.5	12.8	10.4	24.2	13.4	29.5	15.7	2.5	12.1	18.9	5.0	14.9	14.6	15.1	8.3	6.9	5.0	7.6	7.3	11.7	12.7	29.5
10	12.7	8.6	11.3	16.3	4.9	16.9	5.3	11.7	39.2	33.6	54.4	24.8	19.4	12.5	11.3	11.0	20.4	11.5	26.5	22.2	9.2	10.5	7.0	5.9	17.0	54.4
11	11.2	9.8	16.8	14.9	10.1	11.3	20.5	14.1	34.8	17.1	35.3	20.3	1.2	9.1	4.8	13.2	7.7	11.5	15.3	3.9	3.4	8.6	16.7	10.1	13.4	35.3
12	14.4	16.7	14.3	18.1	20.6	22.4	22.8	23.9	26.4	38.6	41.3	21.1	4.3	5.3	6.7	9.4	12.6	19.2	11.0	9.4	23.8	17.6	29.0	26.0	19.0	41.3
13	15.8	25.2	35.8	21.3	29.0	15.2	19.5	11.2	15.7	20.6	22.2	17.0	14.7	13.3	16.0	8.1	7.4	12.2	16.9	21.9	22.0	16.4	16.7	23.5	18.2	35.8
14	22.4	33.1	19.2	18.1	22.6	19.7	17.0	28.0	16.9	38.4	27.3	24.5	17.1	10.7	12.5	12.6	29.8	16.0	19.4	15.0	10.0	6.9	16.1	17.8	19.6	38.4
15	12.2	13.3	16.1	29.6	19.5	20.3	18.4	25.6	39.2	59.6	61.0	39.8	19.6	42.2	5.9	5.7	7.0	7.4	9.1	9.4	20.5	14.4	12.0	19.1	21.9	61.0
16	11.2	14.3	17.8	16.5	8.5	24.6	53.7	47.4	83.3	67.5	35.6	143.6	305.8	422.2	383.0	329.9	310.0	245.5	179.0	167.2	221.0	155.7	152.4	117.3	146.4	422.2
17	108.8	144.3	117.8	111.1	116.0	102.1	89.8	108.3	167.8	222.6	186.6	245.9	245.8	236.7	234.1	236.7	262.2	306.2	326.7	255.1	197.3	183.3	188.6	170.7	190.2	326.7
18	183.3	169.1	169.7	190.0	167.4	144.0	149.1	172.5	219.0	192.0	177.1	215.6	157.2	162.0	125.8	123.2	138.5	102.7	87.1	89.8	89.6	87.9	78.3	61.7	143.9	219.0
19	71.3	76.0	83.5	94.0	71.1	88.9	80.3	77.3	95.9	70.6	C	C	C	66.4	86.6	67.9	72.3	57.1	33.8	22.8	25.0	23.6	46.8	49.6	64.8	95.9
20	38.1	29.3	38.9	19.5	11.3	7.7	32.4	20.2	28.4	54.5	54.1	16.0	17.5	23.1	28.2	25.4	42.6	55.4	18.7	31.4	11.2	29.3	27.5	19.5	28.4	55.4
21	18.8	21.4	19.3	9.0	14.3	18.6	14.1	14.9	8.9	17.8	47.6	11.6	17.7	13.5	9.0	12.4	20.7	14.3	25.2	10.0	23.4	33.3	57.1	31.6	20.2	57.1
22	15.6	12.5	9.1	8.4	6.4	8.2	4.9	10.4	5.8	4.1	6.1	8.6	31.4	12.4	7.2	12.3	129.0	9.9	6.8	20.4	44.5	31.9	31.2	25.7	19.3	129.0
23	32.0	37.6	19.9	20.5	31.9	24.9	49.7	60.0	41.9	8.8	10.7	44.4	34.1	14.7	22.6	23.2	21.9	15.1	17.6	23.1	31.8	8.2	21.6	53.8	27.9	60.0
24	3.3	3.2	3.7	1.9	3.5	21.2	10.0	22.6	34.3	33.2	42.3	33.8	41.1	28.8	17.1	9.3	8.9	48.4	35.3	22.4	13.6	13.4	12.2	14.2	19.9	48.4
25	8.2	11.3	7.0	21.3	15.8	23.7	23.7	26.5	48.6	53.3	41.7	20.6	25.4	21.5	23.8	23.8	27.9	22.3	36.7	30.0	15.5	18.4	24.1	16.1	24.5	53.3
26	13.1	12.3	13.2	24.8	25.7	34.9	39.5	32.0	30.1	42.3	50.1	30.9	28.1	25.6	28.5	24.4	25.5	24.7	21.7	30.8	25.8	22.7	22.2	31.9	27.5	50.1
27	28.9	22.6	28.5	44.5	28.3	15.0	16.2	17.7	21.2	16.6	20.1	21.4	14.6	36.9	14.1	26.1	22.9	71.6	11.5	17.7	10.6	16.5	15.7	20.0	23.3	71.6
28	34.5	92.4	36.2	21.2	15.9	11.2	12.7	16.6	14.8	71.8	30.7	68.9	34.8	26.4	45.3	56.3	18.4	38.9	13.0	7.4	22.6	24.9	18.7	8.5	30.9	92.4
29	17.2	14.7	18.6	10.8	20.6	12.9	7.6	14.4	26.5	16.3	6.8	14.6	28.8	19.5	20.2	188.1	310.9	10.9	13.7	9.1	26.8	18.3	11.5	17.2	35.7	310.9
30	17.3	7.6	6.7	10.5	13.3	10.3	11.4	24.1	44.1	39.1	23.7	110.5	41.7	52.4	21.1	45.2	7.6	44.0	15.8	14.7	50.5	21.5	15.7	16.7	27.7	110.5
31	21.5	15.8	20.8	10.8	12.0	19.8	53.9	71.8	68.3	31.5	18.6	21.6	15.5	22.0	28.9	22.7	19.4	12.2	15.1	16.1	43.6	12.4	15.6	7.5	24.9	71.8
NO.	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	31	741	100.0%
MEAN	28.8	31.0	30.6	28.5	27.7	28.7	31.7	39.7	48.5	48.8	45.6	47.4	47.4	49.3	44.2	49.9	58.8	45.0	38.4	33.2	37.5	31.3	32.4	29.5		
MAX	183.3	169.1	169.7	190.0	167.4	144.0	149.1	172.5	219.0	222.6	186.6	245.9	305.8	422.2	383.0	329.9	310.9	306.2	326.7	255.1	221.0	183.3	188.6	170.7		



Number of Non-Zero Readings	741		
Maximum 1-HR Average	422.2 UG/M3		
Maximum 24-HR Average	190.2 UG/M3		
		Operational Time	744 HRS
Monthly Calibration	3	Operational Uptime	100.0 %
Standard Deviation	53.14	Monthly Average	38.9 UG/M3

Lagoon TSP (µg/m^3) – May 2023

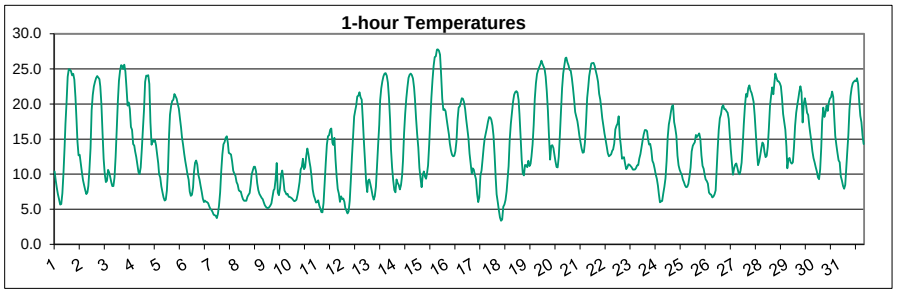
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	29.0	23.5	27.7	35.2	29.7	18.5	34.6	61.2	87.8	117.2	81.3	51.3	68.1	63.3	57.8	54.8	39.5	77.2	117.1	23.0	41.8	26.6	42.3	27.9	51.5	117.2
2	42.1	47.1	33.4	27.8	41.4	48.6	54.7	135.4	101.5	82.3	51.1	53.3	53.3	69.1	66.9	129.2	131.5	155.1	84.9	98.1	87.0	74.2	63.4	65.4	74.9	155.1
3	84.3	60.0	160.0	86.1	96.2	98.9	127.5	97.8	143.5	91.7	183.5	162.5	148.4	54.4	79.9	96.7	61.9	46.2	73.7	40.4	98.2	113.8	51.9	38.4	95.7	183.5
4	30.9	20.3	21.6	24.8	19.1	41.7	36.2	161.0	94.1	68.7	90.5	43.2	58.2	115.2	99.9	129.1	173.0	47.5	26.1	20.3	38.2	17.2	24.2	22.8	59.3	173.0
5	29.4	20.3	23.0	25.7	16.2	30.3	36.1	26.8	69.9	73.6	69.4	52.1	34.7	48.9	62.1	62.8	111.9	90.2	79.1	126.8	85.0	91.0	63.5	57.6	57.8	126.8
6	58.4	55.9	46.1	33.8	35.7	28.8	22.3	30.5	26.7	34.2	66.9	50.7	90.8	48.3	28.1	9.7	10.2	9.2	13.7	13.7	13.4	10.9	9.4	7.0	31.4	90.8
7	14.9	11.7	13.7	13.0	14.9	10.7	13.6	26.3	35.7	31.1	32.0	27.4	3.8	7.7	4.5	3.2	15.5	32.9	0.0	4.2	14.3	18.7	8.7	9.6	15.3	35.7
8	5.0	5.8	10.0	12.3	17.2	11.2	11.4	14.4	10.5	16.3	17.9	11.2	12.3	16.6	15.3	17.7	8.5	9.0	9.5	9.1	6.4	3.5	4.6	13.2	11.2	17.9
9	15.4	24.0	10.2	12.8	21.0	18.0	13.5	32.9	25.3	40.3	24.3	12.7	16.4	30.8	9.5	16.0	20.2	16.3	16.6	13.7	10.4	9.9	11.7	13.0	18.1	40.3
10	17.0	12.3	15.5	16.7	10.7	15.2	6.5	28.6	52.2	43.9	84.6	32.1	16.7	26.1	25.7	10.4	32.5	24.1	35.0	35.9	26.8	20.6	6.8	14.0	25.4	84.6
11	18.4	10.2	17.0	16.0	18.7	18.3	17.0	31.2	42.4	32.3	59.9	36.7	11.2	31.5	12.9	27.5	18.5	31.6	14.7	13.4	10.2	11.8	18.0	13.0	22.2	59.9
12	19.6	24.6	18.8	17.1	21.8	23.7	26.9	33.8	37.2	53.5	66.7	36.0	14.7	13.4	10.8	18.4	22.5	31.7	28.9	13.7	34.9	28.8	44.2	31.7	28.0	66.7
13	23.0	30.8	55.9	37.3	39.4	30.5	26.8	20.3	24.3	38.0	35.3	17.7	30.7	19.1	23.5	11.8	22.5	27.5	24.3	36.9	26.7	30.5	26.2	31.9	28.8	55.9
14	23.4	43.7	19.0	14.5	36.2	35.4	27.0	39.0	38.6	59.3	47.7	40.4	29.8	21.7	19.8	20.5	62.9	20.6	26.2	31.1	20.4	13.1	23.0	29.7	31.0	62.9
15	18.4	22.9	20.4	38.6	29.5	23.9	21.7	38.7	51.6	84.0	92.1	61.3	33.3	60.4	26.2	13.5	18.5	16.6	18.2	10.8	35.7	27.6	23.0	43.3	34.6	92.1
16	20.6	29.9	33.0	36.2	28.8	67.2	52.7	59.0	139.2	119.0	54.9	215.7	361.9	457.4	415.0	367.4	344.1	278.0	215.8	191.0	196.2	176.6	183.1	136.3	174.1	457.4
17	128.4	169.6	131.1	130.0	138.0	124.2	105.2	126.4	265.2	320.3	245.5	286.9	304.8	321.3	267.2	267.1	295.2	332.0	322.3	312.1	228.5	214.6	227.6	205.0	227.8	332.0
18	209.1	200.2	182.1	229.9	204.5	163.6	167.1	190.6	272.1	224.2	212.9	239.5	195.1	214.1	158.2	180.9	215.6	127.9	118.5	122.4	114.6	119.4	109.9	75.5	177.0	272.1
19	86.7	86.6	106.0	135.6	101.3	112.6	105.6	94.5	165.7	120.7	98.5	132.3	C	C	C	C	127.2	108.1	64.1	38.1	44.0	40.6	81.4	62.8	95.6	165.7
20	53.7	44.0	49.4	28.4	28.5	17.8	43.4	27.7	39.6	101.1	90.8	42.3	26.7	31.6	41.1	48.8	73.9	94.6	28.8	48.8	17.1	51.9	36.3	42.0	46.2	101.1
21	39.7	37.5	29.8	20.1	32.6	32.5	26.8	25.7	27.5	28.6	82.7	27.5	30.8	25.8	23.0	29.9	30.1	24.6	40.6	25.7	39.9	59.5	110.2	50.2	37.6	110.2
22	38.4	17.8	23.9	18.8	15.3	14.3	15.4	13.3	17.1	19.7	16.0	19.0	68.8	31.6	6.6	25.5	275.5	32.7	23.7	21.9	69.5	58.6	56.9	39.5	39.2	275.5
23	64.8	94.0	38.8	38.6	63.4	72.8	94.4	89.9	53.8	21.2	23.2	59.7	65.3	34.7	60.0	48.1	60.6	28.4	35.8	44.9	55.7	17.5	40.6	105.7	54.7	105.7
24	12.7	9.7	11.4	8.2	10.3	27.4	19.2	36.1	52.5	51.0	74.9	72.2	70.5	51.4	30.9	17.5	14.9	127.5	70.7	40.5	31.0	20.7	22.1	21.0	37.7	127.5
25	20.2	14.8	23.5	25.4	26.9	32.5	31.7	42.7	87.6	84.6	51.9	26.0	35.6	43.5	42.7	36.8	43.9	39.2	62.8	60.6	29.8	16.9	34.0	30.5	39.3	87.6
26	20.7	15.8	22.3	33.7	29.6	40.7	60.7	42.9	31.7	50.0	77.0	54.9	38.3	37.4	50.0	36.6	42.4	37.3	34.9	48.0	40.4	28.7	29.7	38.8	39.3	77.0
27	34.2	30.3	39.9	53.0	37.9	24.0	27.2	36.2	32.2	31.3	33.5	38.8	44.1	63.5	21.0	54.2	39.2	31.7	23.2	24.8	33.4	30.1	21.2	20.8	34.4	63.5
28	53.6	20.4	31.5	21.3	25.6	23.4	24.2	29.4	29.8	83.0	55.0	19.0	18.5	45.2	12.2	108.7	21.7	16.3	20.5	20.9	45.9	31.1	60.8	21.1	35.0	108.7
29	32.2	27.9	31.5	22.7	20.3	25.6	20.1	36.0	67.9	36.1	20.1	27.5	68.4	43.5	44.2	394.8	41.6	17.8	23.6	18.1	56.4	29.0	16.6	18.1	47.5	394.8
30	27.4	18.0	11.7	21.4	7.1	22.8	32.3	43.5	87.4	76.2	45.8	233.4	76.0	129.9	36.8	89.0	13.9	97.3	32.2	28.0	100.6	40.2	28.4	29.6	55.4	233.4
31	30.2	33.5	29.3	15.5	22.1	34.6	91.6	120.7	136.9	57.3	32.6	44.2	35.1	61.9	74.4	69.0	56.2	40.5	40.8	44.6	106.6	39.4	74.5	32.2	55.2	136.9
NO.	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	740	100.0%
MEAN	42.0	40.7	41.5	40.3	40.0	41.6	44.9	57.8	75.7	73.9	71.6	71.9	68.7	74.0	60.9	79.8	78.9	66.8	55.7	51.0	56.8	47.5	50.1	43.5		
MAX	209.1	200.2	182.1	229.9	204.5	163.6	167.1	190.6	272.1	320.3	245.5	286.9	361.9	457.4	415.0	394.8	344.1	332.0	322.3	312.1	228.5	214.6	227.6	205.0		



Number of 24HR Exceedences	3		
Number of Non-Zero Readings	739		
Maximum 1-HR Average	457.4	UG/M3	
Maximum 24-HR Average	227.8	UG/M3	
		Operational time	744 HRS
Monthly Calibration	4	Operational Uptime	100.0 %
Standard Deviation	63.5	Monthly Average	57.2 UG/M3

Lagoon Temperature (°C) – May 2023

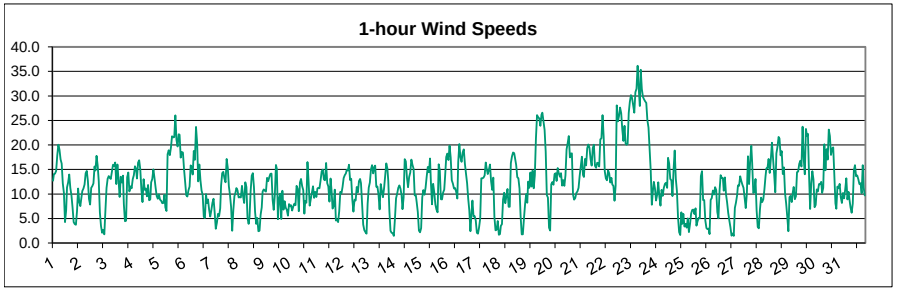
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	10.4	9.1	8.0	7.1	6.4	5.7	5.7	7.3	10.1	13.8	17.2	20.3	23.9	25.0	24.9	24.7	24.1	24.3	23.5	21.0	17.6	14.7	12.7	12.8	15.4	25.0
2	11.5	10.3	9.1	8.4	7.7	7.2	7.4	8.3	10.7	13.7	19.1	21.3	22.5	23.2	23.7	24.0	23.8	23.5	22.5	19.9	15.9	12.2	10.0	8.9	15.2	24.0
3	9.1	10.6	10.2	9.5	8.8	8.3	8.3	9.6	12.5	16.3	20.3	23.3	24.7	25.5	25.4	25.0	25.6	24.6	22.3	19.8	20.2	19.3	16.7	16.3	17.2	25.6
4	14.3	14.1	13.2	12.5	11.4	10.3	10.0	11.0	13.5	16.4	19.2	23.2	24.0	24.0	24.1	22.8	17.4	14.2	14.9	14.6	14.9	14.1	12.8	11.6	15.8	24.1
5	10.0	9.5	8.3	7.4	6.7	6.2	6.4	7.7	10.7	15.7	18.5	19.7	20.4	20.6	21.4	21.1	20.8	20.0	19.3	17.9	16.6	15.3	14.2	12.9	14.5	21.4
6	11.9	10.9	10.0	9.2	7.5	6.9	7.1	8.1	10.3	11.6	11.9	11.4	9.9	9.2	8.3	7.5	6.5	6.0	6.3	6.1	6.0	5.9	5.4	5.0	8.3	11.9
7	4.9	4.6	4.2	4.1	4.0	3.7	4.4	5.6	7.4	10.4	12.8	14.3	14.6	15.2	15.4	14.4	13.0	12.9	12.8	11.8	10.5	10.1	9.8	8.9	9.6	15.4
8	8.5	7.7	7.6	7.5	6.9	6.4	6.2	6.2	6.2	6.8	7.1	7.3	8.6	10.0	10.5	11.1	11.1	10.4	8.7	7.7	7.2	6.9	6.6	6.4	7.9	11.1
9	6.0	5.6	5.4	5.2	5.2	5.3	5.5	5.8	6.8	7.7	7.9	9.3	11.6	7.4	7.0	8.1	9.9	10.5	9.2	7.7	7.4	7.1	7.2	6.8	7.3	11.6
10	6.8	6.7	6.5	6.3	6.2	6.2	6.4	7.1	7.8	8.9	10.7	11.0	12.2	10.7	11.0	12.6	13.6	12.8	11.7	11.0	9.6	7.8	7.0	6.5	9.1	13.6
11	6.0	6.0	6.3	5.5	5.1	4.6	4.6	5.9	8.7	11.6	14.2	15.4	15.6	16.3	16.5	14.4	14.2	15.2	12.1	9.7	7.9	7.2	6.1	6.9	9.8	16.5
12	6.5	6.5	6.1	5.2	4.8	4.4	4.7	6.2	9.1	12.5	15.3	18.2	19.1	19.7	21.1	21.2	21.7	20.9	20.6	17.8	14.6	11.8	8.8	7.4	12.7	21.7
13	9.1	9.3	8.6	7.8	7.0	6.4	6.9	8.2	11.2	14.2	17.0	20.5	22.2	23.2	23.9	24.3	24.4	24.0	23.0	20.8	17.6	13.6	10.9	9.1	15.1	24.4
14	7.7	7.4	9.3	8.7	8.5	7.8	8.4	9.8	11.9	15.9	18.7	20.8	22.4	23.7	24.2	24.3	24.1	23.6	22.3	20.7	17.9	15.6	13.8	10.9	15.8	24.3
15	9.4	8.1	9.8	10.4	9.7	9.4	10.0	11.3	14.2	17.7	20.9	23.4	25.4	26.7	26.8	27.8	27.8	27.6	27.0	24.1	20.8	19.1	19.2	19.0	18.6	27.8
16	17.8	16.7	15.6	14.4	13.4	12.8	12.5	12.6	13.3	14.7	17.8	19.5	19.7	20.3	20.8	20.7	20.3	19.3	17.8	16.5	15.1	12.9	11.5	10.1	16.1	20.8
17	10.8	10.7	9.9	9.3	7.2	6.0	6.7	9.8	10.5	12.2	13.9	15.1	15.8	16.6	17.5	18.1	18.1	17.8	16.9	15.5	12.7	9.4	7.1	6.1	12.2	18.1
18	4.9	3.8	3.4	3.6	5.4	5.7	6.3	7.6	9.2	11.2	14.9	17.2	18.8	20.3	21.3	21.7	21.8	21.6	20.6	18.5	15.3	12.1	10.1	9.8	12.7	21.8
19	11.3	11.3	11.0	11.9	11.2	11.5	12.5	14.2	17.0	20.7	22.9	24.3	24.8	25.2	25.6	26.2	25.8	25.4	25.0	23.9	21.8	19.1	15.4	12.1	18.7	26.2
20	14.0	14.1	13.7	12.8	11.9	11.0	11.0	12.5	15.5	18.9	22.2	24.3	25.4	26.5	26.6	25.9	25.5	24.9	24.7	23.7	22.3	20.7	18.8	18.2	19.4	26.6
21	17.6	16.7	15.4	14.5	13.6	13.0	13.1	14.5	17.4	20.9	22.4	23.9	24.9	25.8	25.8	25.8	25.4	24.7	24.0	23.1	21.5	20.6	19.5	18.0	20.1	25.8
22	16.9	15.8	14.9	14.0	13.0	12.5	12.7	12.8	13.3	13.5	14.4	16.4	16.9	17.2	18.2	15.4	14.0	12.2	12.4	12.4	11.5	10.7	10.9	11.4	13.9	18.2
23	11.3	11.1	11.0	10.7	10.7	10.7	10.9	11.2	11.3	12.2	12.9	13.8	14.8	15.7	16.3	16.3	16.1	15.0	14.2	14.3	13.5	11.9	11.5	10.8	12.8	16.3
24	10.0	9.4	8.3	7.2	6.0	6.1	6.2	7.3	8.2	9.4	11.9	15.3	17.1	17.9	18.8	19.7	19.8	17.4	16.6	15.5	12.7	11.2	10.6	10.2	12.2	19.8
25	9.9	9.3	8.9	8.4	8.1	8.2	8.6	9.7	10.9	13.3	14.0	14.3	14.5	15.6	15.3	15.5	15.8	15.0	12.7	11.2	10.8	9.8	9.3	9.0	11.6	15.8
26	8.7	7.4	7.2	7.1	6.7	6.8	7.1	7.7	10.9	13.5	16.3	18.0	18.5	19.6	19.8	19.3	19.3	19.0	18.7	17.9	15.9	13.6	11.7	9.9	13.4	19.8
27	10.8	11.4	11.5	10.9	10.2	10.0	10.5	11.6	14.2	17.2	19.7	21.4	21.0	22.3	22.6	21.9	21.6	21.1	20.3	18.3	15.8	13.2	11.3	11.8	15.9	22.6
28	12.7	13.7	14.5	14.2	13.2	12.4	12.6	13.9	16.6	19.7	21.2	22.4	21.4	23.1	24.3	23.8	23.2	23.2	23.0	22.5	20.9	18.6	17.5	16.4	18.5	24.3
29	13.9	10.8	12.1	12.3	11.7	11.5	11.7	13.8	16.9	18.7	19.9	20.9	21.7	22.5	21.7	17.4	20.0	20.8	20.0	18.7	18.4	16.9	15.9	14.7	16.8	22.5
30	13.3	12.3	11.7	11.0	10.4	9.5	9.3	10.7	13.8	17.6	19.5	18.1	18.7	19.8	19.0	20.2	20.8	21.0	21.8	21.0	18.4	15.5	14.2	13.0	15.9	21.8
31	12.0	11.7	9.7	9.1	8.3	7.9	8.5	10.5	13.1	15.5	19.2	21.1	22.3	23.0	23.2	23.3	23.2	23.7	22.8	20.3	18.3	17.4	15.5	14.3	16.4	23.7
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	10.6	10.1	9.7	9.2	8.6	8.2	8.5	9.6	11.7	14.3	16.6	18.2	19.1	19.7	20.0	19.8	19.6	19.1	18.3	16.9	15.1	13.4	12.0	11.1		
MAX	17.8	16.7	15.6	14.5	13.6	13.0	13.1	14.5	17.4	20.9	22.9	24.3	25.4	26.7	26.8	27.8	27.8	27.6	27.0	24.1	22.3	20.7	19.5	19.0		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	27.8 C		
Maximum 24-HR Average	20.1 C		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	5.958	Monthly Average	14.2 C

Lagoon Wind Speed (km/hr) – May 2023

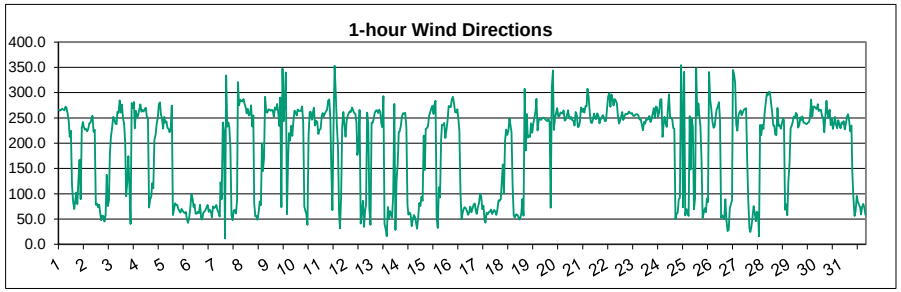
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	12.7	14.0	14.2	14.7	17.8	20.1	19.1	17.1	16.2	12.2	10.2	4.3	6.6	11.3	12.4	14.0	11.2	9.7	7.2	4.3	3.9	3.7	6.5	11.1	11.4	20.1
2	8.3	7.5	9.0	10.6	11.1	11.9	14.3	14.7	12.7	9.0	7.9	11.3	11.6	12.1	15.6	14.8	17.8	15.8	12.6	6.3	3.5	2.1	2.7	1.8	10.2	17.8
3	6.7	11.2	13.1	13.7	13.3	13.1	14.5	16.0	15.7	16.4	12.0	16.0	12.9	9.4	13.5	12.3	13.8	7.9	4.5	4.6	13.5	14.4	10.6	11.6	12.1	16.4
4	11.2	13.0	13.9	15.6	15.1	13.1	16.4	16.9	15.0	10.9	8.3	13.0	10.8	11.1	9.5	11.8	8.7	8.9	12.4	13.0	15.0	13.2	11.3	9.6	12.4	16.9
5	9.0	9.9	8.9	8.6	8.1	8.2	9.8	7.3	6.5	18.1	18.9	17.9	19.5	21.8	21.6	21.6	26.0	21.0	19.7	22.2	22.1	17.4	18.5	18.4	15.9	26.0
6	15.1	12.5	9.8	9.5	10.7	11.5	15.8	15.4	14.0	18.8	17.0	23.7	20.4	12.6	16.0	12.8	10.7	9.8	5.4	5.1	10.0	8.2	8.9	6.8	12.5	23.7
7	5.4	6.7	8.2	9.0	6.3	2.9	4.1	5.9	5.5	7.1	11.7	14.3	14.5	13.2	12.4	17.2	15.4	11.6	9.8	7.4	2.5	6.7	9.6	10.1	9.1	17.2
8	11.2	10.7	9.3	9.3	9.3	11.6	9.5	8.2	12.4	11.4	5.1	3.9	5.3	10.6	13.7	14.2	11.4	6.4	3.9	5.1	2.4	2.5	5.8	7.2	8.4	14.2
9	10.5	10.9	10.7	10.5	13.3	12.6	13.4	14.1	14.2	8.8	6.8	9.8	15.9	15.2	4.8	9.0	10.1	4.9	10.7	6.8	8.6	7.2	6.8	5.6	10.0	15.9
10	7.9	7.5	7.7	6.6	7.4	8.1	7.7	11.7	11.1	6.5	12.3	13.1	11.6	10.8	6.0	8.6	8.2	16.5	12.6	7.6	9.0	10.2	11.6	9.2	9.6	16.5
11	10.4	9.4	11.2	11.3	11.2	12.7	14.6	15.0	13.0	12.8	16.3	12.2	11.5	8.4	13.2	10.4	7.0	7.5	10.9	4.6	4.8	4.3	6.5	10.5	10.4	16.3
12	10.1	11.4	13.2	13.9	14.2	14.9	14.8	16.0	12.8	13.1	8.9	6.4	8.9	8.7	11.4	10.3	12.6	13.0	12.2	8.1	3.8	2.6	2.2	1.9	10.2	16.0
13	8.0	11.3	12.4	15.0	15.9	14.2	15.5	15.8	11.5	11.5	9.9	6.8	12.0	10.7	9.4	11.2	13.7	16.2	15.2	12.7	6.5	2.5	2.1	2.0	10.9	16.2
14	1.5	5.0	9.1	10.1	11.3	11.8	11.1	9.7	6.9	9.2	17.1	16.6	13.4	11.4	13.5	14.4	17.0	15.9	15.1	9.7	9.8	8.3	6.3	2.5	10.7	17.1
15	2.2	3.1	9.3	10.8	9.8	11.3	13.6	15.5	14.4	17.2	12.4	7.9	12.1	10.4	7.9	6.8	6.2	16.1	14.8	9.0	8.9	10.3	10.9	13.6	10.6	17.2
16	17.5	18.2	16.9	19.9	17.5	12.8	12.1	11.1	11.2	10.4	9.1	16.5	20.2	17.5	16.6	18.4	19.1	16.2	14.2	12.2	9.0	6.6	2.4	6.3	13.8	20.2
17	8.7	5.4	5.5	4.6	2.1	1.9	3.2	5.0	13.2	13.2	13.3	13.8	16.4	15.3	14.1	14.9	16.0	12.6	10.9	13.3	5.3	2.6	2.7	4.5	9.1	16.4
18	1.7	1.8	3.5	3.9	8.9	10.2	8.1	9.6	11.0	7.4	7.4	16.3	17.6	18.5	18.3	17.3	15.9	13.4	13.2	11.1	5.5	1.8	1.8	4.9	9.5	18.5
19	7.8	10.0	8.2	12.5	11.3	14.4	11.5	14.8	11.2	13.8	21.3	26.1	25.7	25.4	23.9	26.2	26.6	24.8	23.1	18.7	9.8	9.3	3.1	2.6	15.9	26.6
20	12.0	12.4	11.9	14.1	14.3	12.7	15.3	14.2	13.5	14.3	11.7	12.9	11.7	13.8	19.1	20.4	21.8	17.5	18.3	18.3	9.9	8.9	9.2	10.2	14.1	21.8
21	10.6	11.3	13.7	15.6	17.6	13.9	13.5	17.1	15.8	19.3	20.1	19.5	17.2	15.8	19.4	20.0	15.8	15.3	16.4	16.3	15.6	21.1	21.4	26.1	17.0	26.1
22	21.7	14.7	13.2	12.8	14.8	14.2	12.3	13.3	11.9	11.6	8.6	11.7	28.1	24.8	25.8	27.6	26.5	23.2	20.8	23.9	20.3	20.1	20.3	26.5	18.7	28.1
23	28.8	30.2	29.6	28.1	26.6	30.8	31.5	36.1	31.5	28.0	35.4	31.4	29.8	29.3	28.9	28.6	25.1	23.5	19.2	14.8	7.8	10.7	12.5	11.2	25.4	36.1
24	8.7	9.9	12.4	9.4	7.6	10.8	9.6	11.3	12.1	12.3	11.3	17.4	16.3	13.1	12.8	9.6	15.0	18.9	13.1	10.6	5.2	2.2	1.6	6.3	10.7	18.9
25	3.9	5.9	3.4	3.9	3.1	5.0	2.2	3.8	6.0	6.8	6.8	5.9	7.1	3.5	4.4	5.1	5.0	13.7	14.6	8.7	8.8	4.6	3.1	2.8	5.8	14.6
26	2.9	1.8	8.8	9.2	10.7	9.9	11.4	10.8	6.3	5.1	10.6	13.9	13.3	13.2	10.7	13.4	10.0	8.3	6.2	4.7	3.2	1.5	2.0	1.4	7.9	13.9
27	7.2	8.3	9.7	11.8	11.6	13.6	12.7	11.9	11.2	9.2	7.1	10.1	17.7	12.0	16.7	19.8	16.3	10.2	10.4	13.1	6.6	3.3	3.0	6.8	10.9	19.8
28	9.3	8.4	8.9	10.9	13.6	15.3	15.3	17.2	14.3	17.1	20.5	17.2	14.0	10.4	18.3	19.6	21.6	21.3	17.9	18.7	14.1	15.4	10.2	8.1	14.9	21.6
29	5.4	2.4	9.3	9.6	8.3	10.4	11.4	8.9	9.5	14.5	14.6	16.1	16.8	15.6	23.7	17.3	14.0	23.3	21.9	22.3	14.1	7.0	12.2	14.7	13.5	23.7
30	13.0	7.3	7.8	10.9	10.5	12.0	12.0	12.5	10.2	11.2	20.1	14.8	19.1	17.0	23.1	21.8	18.0	19.3	19.5	13.9	8.1	7.0	11.5	11.1	13.8	23.1
31	12.1	9.3	8.2	10.2	9.1	10.9	13.2	8.9	10.5	8.9	7.3	6.2	8.0	14.8	15.9	13.6	13.8	13.0	12.0	12.2	10.2	15.9	11.3	9.7	11.1	15.9
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	9.7	9.7	10.7	11.5	11.7	12.2	12.6	13.1	12.3	12.5	12.9	13.8	15.0	14.1	15.2	15.6	15.2	14.7	13.5	11.6	8.9	8.1	8.0	8.9		
MAX	28.8	30.2	29.6	28.1	26.6	30.8	31.5	36.1	31.5	28.0	35.4	31.4	29.8	29.3	28.9	28.6	26.6	24.8	23.1	23.9	22.1	21.1	21.4	26.5		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	36.1 KM/HR		
Maximum 24-HR Average	25.4 KM/HR		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	5.841	Monthly Average	12.1 KM/HR

Lagoon Wind Direction (°) – May 2023

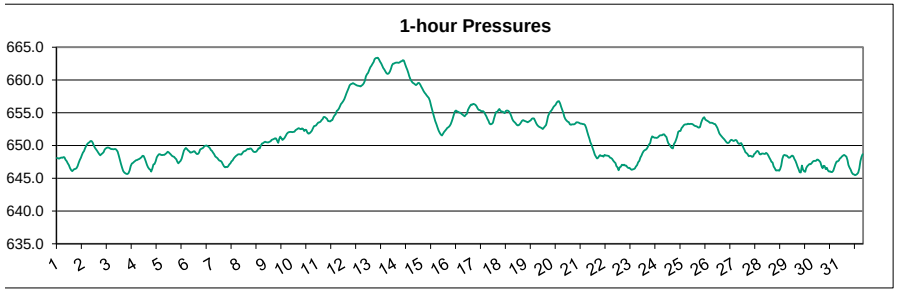
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	266.0	264.5	266.1	268.4	266.4	265.3	272.6	270.4	259.6	245.1	212.4	224.9	118.0	84.7	69.7	83.5	102.4	79.8	128.3	167.3	89.4	229.4	241.8	232.4	248.5	272.6
2	226.8	228.2	223.2	228.1	239.9	240.7	249.7	254.4	222.7	226.3	78.2	80.5	73.5	78.5	61.2	47.6	56.6	56.3	45.2	58.7	137.2	75.7	87.0	178.7	103.1	254.4
3	213.5	230.1	251.9	247.6	238.7	237.6	262.2	259.9	284.7	260.5	276.4	248.9	238.4	199.7	95.0	121.9	174.5	113.0	40.5	279.6	269.9	281.8	229.8	263.9	244.5	284.7
4	250.5	255.1	266.3	276.6	262.1	265.8	262.6	266.3	270.1	252.1	250.2	73.1	88.8	95.1	120.4	111.0	207.0	215.7	237.7	250.0	277.1	280.9	257.6	249.0	253.2	280.9
5	228.6	252.2	240.5	243.3	230.1	228.4	221.6	226.8	274.5	57.9	69.3	81.5	78.2	77.9	70.5	65.7	62.9	70.2	66.5	63.2	61.7	64.0	49.3	42.6	68.2	274.5
6	52.5	70.6	98.9	91.6	74.0	79.2	60.7	60.6	64.5	61.8	78.3	50.4	49.2	61.8	64.5	67.8	73.2	77.6	64.1	68.7	63.5	53.4	75.0	71.8	66.0	98.9
7	74.0	77.7	67.6	62.6	54.7	123.0	89.5	241.2	223.8	11.6	334.2	232.5	241.2	232.6	193.7	58.3	47.9	66.9	68.3	61.2	87.0	320.8	275.0	286.0	36.5	334.2
8	283.2	282.5	287.6	277.1	270.6	259.1	267.9	254.7	257.0	275.2	232.9	255.1	80.7	55.1	56.4	48.9	63.5	84.8	77.4	199.5	145.0	170.3	291.9	261.5	287.6	291.9
9	260.3	267.2	266.2	263.8	265.8	265.4	252.5	270.7	266.0	277.5	260.2	234.2	290.6	73.3	347.3	243.4	285.6	340.1	59.8	167.0	219.7	205.4	234.3	214.8	262.3	347.3
10	244.1	264.3	261.5	254.9	266.7	264.0	264.2	264.2	272.9	240.3	74.1	65.7	60.2	38.7	214.9	262.0	262.0	246.5	262.0	270.4	235.1	244.8	242.0	218.0	257.7	272.9
11	226.4	228.1	252.6	259.4	252.8	258.9	263.3	266.1	284.3	286.3	246.9	151.7	67.7	232.6	353.1	299.8	235.6	193.4	61.4	31.3	91.4	232.5	261.9	236.4	257.1	353.1
12	212.8	244.8	254.9	259.2	263.0	261.9	270.8	265.4	259.5	258.4	240.7	176.8	189.9	265.8	41.2	62.8	86.3	34.7	67.6	78.4	260.5	237.6	69.7	38.5	258.9	270.8
13	240.5	240.6	249.6	260.0	264.4	265.2	259.7	266.0	261.4	238.0	231.6	293.2	40.3	30.7	16.2	73.7	50.6	65.9	58.8	53.2	99.1	277.9	28.4	127.0	295.0	293.2
14	158.0	222.3	223.3	233.9	252.5	259.2	258.5	260.1	232.1	78.5	58.8	63.2	59.5	35.8	49.9	58.0	53.7	41.3	31.0	53.3	81.6	76.1	94.0	86.4	51.8	260.1
15	215.0	147.2	227.7	230.2	233.0	254.5	261.5	268.3	273.6	257.9	276.2	283.9	54.2	32.2	113.2	92.7	207.2	236.1	236.3	240.3	210.1	226.4	244.4	273.5	248.4	283.9
16	272.2	271.0	286.3	291.8	278.5	261.3	260.5	267.3	245.0	225.4	100.7	49.6	63.3	71.5	73.4	70.5	64.7	58.4	63.2	74.8	63.9	70.7	78.2	81.1	21.6	291.8
17	66.0	60.3	73.9	81.1	100.5	95.2	69.6	76.6	47.8	42.9	62.2	59.5	63.9	64.5	68.9	60.2	64.7	68.3	65.2	58.4	69.8	87.1	86.1	89.7	64.2	100.5
18	128.4	158.3	99.7	204.7	227.0	216.4	224.6	249.3	237.1	222.3	115.7	57.2	53.3	59.3	58.8	55.7	49.0	50.3	61.7	89.9	56.5	307.8	185.3	258.0	70.9	307.8
19	211.2	215.1	212.4	239.3	220.9	239.4	250.8	264.2	287.9	225.0	245.6	248.4	245.8	249.5	250.5	249.7	247.5	245.1	243.7	247.7	241.8	72.6	310.2	344.0	245.3	344.0
20	226.1	249.1	259.0	269.2	253.1	253.9	261.0	259.0	258.6	264.9	244.6	247.3	254.6	265.2	249.8	248.1	252.2	245.6	244.7	234.8	261.9	256.2	232.0	232.8	251.1	269.2
21	241.8	270.7	262.3	268.3	260.3	273.1	272.9	307.8	292.5	262.7	241.4	239.9	247.5	258.9	248.5	247.8	259.3	254.3	239.1	247.2	250.8	255.5	250.6	243.5	256.9	307.8
22	244.3	269.3	292.9	298.9	272.0	296.1	286.4	274.6	287.4	284.7	278.3	252.1	238.7	245.6	253.7	261.9	246.1	253.3	258.2	257.4	257.7	262.7	259.8	258.9	261.8	298.9
23	259.8	254.3	253.9	256.7	257.2	256.9	254.1	246.9	247.8	236.8	225.4	241.9	238.8	247.7	246.3	247.5	253.9	241.9	247.8	258.8	269.5	249.8	272.4	271.0	249.4	272.4
24	252.8	261.2	286.3	287.1	212.4	238.6	252.3	238.9	232.2	267.3	296.6	249.6	250.6	246.3	230.0	228.7	50.1	60.1	62.8	89.3	92.5	354.5	287.8	73.4	257.3	354.5
25	341.4	57.3	69.8	62.9	56.1	253.5	147.9	249.0	232.7	69.4	90.7	348.1	254.1	278.5	256.0	234.1	168.0	52.1	62.4	71.8	63.9	90.6	83.7	340.8	58.5	348.1
26	286.4	266.6	242.9	230.6	233.2	250.2	267.3	272.0	281.0	246.9	52.7	57.7	51.6	50.8	89.5	47.8	26.0	28.7	71.6	79.8	87.7	344.7	336.6	319.6	14.1	344.7
27	236.3	224.6	255.4	261.2	264.9	255.4	260.3	266.1	268.0	269.5	168.6	84.9	32.9	24.3	34.5	54.1	75.5	63.0	45.8	64.6	60.5	16.0	236.0	215.9	351.6	269.5
28	236.7	228.4	258.3	279.1	297.1	294.3	301.5	300.9	280.5	261.8	235.4	234.7	217.1	215.8	269.8	233.9	235.8	228.6	239.0	248.8	245.4	68.4	79.2	57.5	254.1	301.5
29	125.1	159.1	229.8	235.1	241.4	252.5	249.8	260.1	256.1	230.7	236.1	251.3	245.8	253.0	240.6	240.2	238.4	238.0	240.8	242.2	250.8	285.9	252.9	272.3	244.5	285.9
30	272.5	269.2	267.4	277.2	263.6	265.9	266.0	253.8	250.3	221.8	253.2	283.8	260.3	250.7	266.0	235.6	248.7	228.3	239.6	252.3	236.3	229.4	245.6	236.6	252.7	283.8
31	229.6	241.1	238.2	243.8	227.6	238.3	252.4	257.2	242.9	223.6	235.1	141.7	91.0	56.1	67.2	95.9	84.0	78.6	73.1	59.1	74.4	80.2	72.4	58.5	109.3	257.2
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	218.8	217.1	226.7	233.7	229.0	240.9	238.5	249.6	246.9	212.4	193.6	179.5	146.4	143.0	153.9	145.4	146.2	139.3	127.9	149.0	158.4	193.8	192.0	197.9		
MAX	341.4	282.5	292.9	298.9	297.1	296.1	301.5	307.8	292.5	286.3	334.2	348.1	290.6	278.5	353.1	299.8	285.6	340.1	262.0	279.6	277.1	354.5	336.6	344.0		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	355 degrees		
Maximum 24-HR Average	352 degrees		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	90.07	Monthly Average	190.8 degrees

Lagoon Pressure (mmHg) – May 2023

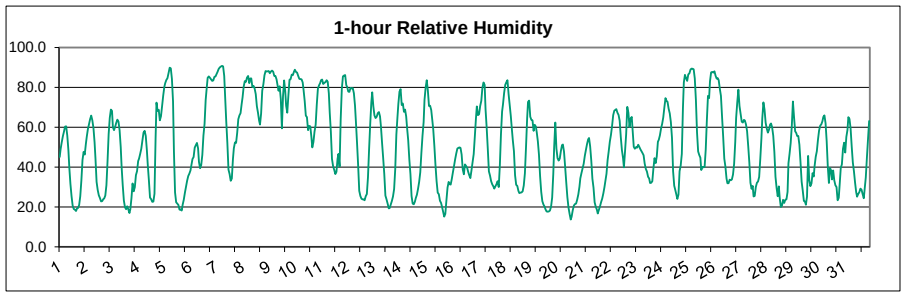
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	648.1	648.1	648.0	648.1	648.2	648.2	648.2	648.2	647.8	647.6	647.3	647.0	646.6	646.3	646.1	646.2	646.4	646.4	646.5	646.9	647.4	647.8	648.2	648.5	647.4	648.5
2	648.9	649.2	649.6	650.0	650.2	650.4	650.5	650.7	650.7	650.5	650.0	649.7	649.5	649.2	648.9	648.7	648.5	648.7	648.8	649.0	649.4	649.6	649.7	649.7	649.6	650.7
3	649.7	649.6	649.5	649.5	649.4	649.5	649.5	649.3	649.1	648.5	647.9	647.2	646.6	646.1	645.9	645.8	645.7	645.7	645.8	646.2	646.9	647.3	647.4	647.5	647.7	649.7
4	647.6	647.8	647.8	647.9	648.0	648.1	648.2	648.4	648.4	648.0	647.6	647.1	646.7	646.4	646.3	646.1	646.5	647.1	647.2	647.6	648.2	648.5	648.7	648.7	647.6	648.7
5	648.6	648.6	648.6	648.6	648.7	648.9	649.1	649.0	648.8	648.7	648.4	648.4	648.3	648.1	647.9	647.6	647.3	647.5	647.7	648.0	648.6	649.2	649.5	649.6	648.5	649.6
6	649.5	649.3	649.1	648.9	649.0	649.0	649.1	649.1	648.9	648.7	648.7	648.9	649.4	649.5	649.6	649.7	649.9	650.0	650.0	649.9	649.8	649.6	649.3	649.2	649.3	650.0
7	648.9	648.7	648.4	648.2	648.1	647.8	647.7	647.7	647.5	647.1	646.9	646.7	646.7	646.7	646.9	647.1	647.3	647.6	647.7	648.0	648.3	648.4	648.5	648.7	647.7	648.9
8	648.7	648.7	648.6	648.9	649.1	649.2	649.2	649.4	649.5	649.4	649.6	649.5	649.3	649.1	649.0	649.0	649.1	649.3	649.6	649.6	650.0	650.3	650.3	650.5	649.4	650.5
9	650.6	650.5	650.5	650.5	650.6	650.7	650.9	650.9	651.0	651.1	651.1	650.8	650.4	651.1	651.4	651.1	650.9	651.0	651.2	651.5	651.8	652.0	652.0	652.1	651.1	652.1
10	652.1	652.0	652.1	652.1	652.4	652.5	652.6	652.7	652.6	652.5	652.6	652.5	652.2	652.4	652.4	652.0	651.8	651.9	652.1	652.3	652.6	653.0	653.0	653.1	652.4	653.1
11	653.3	653.5	653.6	653.6	653.9	654.1	654.4	654.4	654.2	654.1	653.8	653.7	653.7	653.9	653.9	654.3	654.6	654.8	655.3	655.4	655.7	656.0	656.4	656.6	654.5	656.6
12	656.8	657.1	657.5	658.0	658.4	658.8	659.2	659.4	659.4	659.5	659.4	659.3	659.2	659.2	659.1	659.1	659.0	659.2	659.3	659.5	660.0	660.5	660.9	661.1	659.1	661.1
13	661.5	661.9	662.2	662.5	662.8	663.2	663.4	663.4	663.4	663.2	662.8	662.5	662.2	661.9	661.6	661.3	661.0	660.9	661.0	661.3	661.7	662.2	662.5	662.5	662.2	663.4
14	662.6	662.7	662.7	662.6	662.7	662.8	662.9	663.0	663.0	662.5	662.0	661.6	661.1	660.6	660.2	659.9	659.6	659.5	659.4	659.2	659.4	659.5	659.6	659.4	661.2	663.0
15	659.0	658.7	658.3	658.1	657.9	657.7	657.5	657.3	656.8	656.1	655.4	654.8	654.2	653.7	653.3	652.8	652.3	652.0	651.7	651.6	651.8	652.1	652.3	652.5	654.9	659.0
16	652.7	652.8	653.0	653.3	653.7	654.1	654.7	655.2	655.4	655.2	655.1	655.1	655.0	654.9	654.8	654.6	654.5	654.7	654.8	655.5	655.8	656.0	656.3	656.2	654.7	656.3
17	656.4	656.3	656.2	656.0	655.6	655.5	655.4	655.3	655.2	655.2	655.1	654.7	654.4	654.1	653.8	653.3	653.2	653.3	653.5	654.1	654.7	655.1	655.1	655.4	654.9	656.4
18	655.6	655.3	655.2	655.2	655.0	655.0	655.3	655.4	655.3	655.2	654.9	654.5	654.1	653.7	653.6	653.4	653.2	653.1	653.1	653.3	653.5	653.8	653.9	653.8	654.3	655.6
19	653.7	653.6	653.5	653.6	653.8	653.9	654.1	654.2	654.1	653.7	653.4	653.1	653.0	652.8	652.8	652.7	652.5	652.7	652.9	653.1	653.7	654.5	654.9	655.2	653.6	655.2
20	655.4	655.6	655.9	656.1	656.3	656.6	656.7	656.8	656.5	655.9	655.4	654.9	654.4	654.0	653.8	653.7	653.6	653.3	653.2	653.3	653.2	653.2	653.4	653.6	654.8	656.8
21	653.6	653.5	653.4	653.3	653.3	653.3	653.3	653.1	652.7	652.1	651.5	651.0	650.5	650.2	649.6	649.2	648.6	648.3	648.0	648.1	648.4	648.6	648.4	648.4	650.9	653.6
22	648.3	648.6	648.5	648.5	648.5	648.4	648.2	648.1	648.0	647.7	647.5	647.3	646.9	646.7	646.2	646.7	646.8	647.1	647.0	647.1	647.0	647.0	646.7	646.6	647.5	648.6
23	646.6	646.4	646.3	646.4	646.4	646.5	646.8	647.0	647.5	647.7	648.2	648.5	648.8	649.1	649.3	649.4	649.5	649.8	650.2	650.4	651.0	651.4	651.3	651.2	648.6	651.4
24	651.2	651.2	651.2	651.4	651.6	651.6	651.6	651.7	651.7	651.5	651.3	650.7	650.3	650.2	649.8	649.6	649.6	650.2	650.5	650.8	651.4	652.1	652.2	652.2	651.1	652.2
25	652.7	652.9	653.1	653.2	653.2	653.2	653.3	653.3	653.3	653.3	653.3	653.2	653.0	653.0	652.9	652.8	652.7	652.8	653.5	653.9	654.2	654.3	654.0	653.9	653.3	654.3
26	653.8	653.6	653.5	653.5	653.5	653.4	653.3	653.3	653.0	652.7	652.2	651.9	651.6	651.4	651.2	651.0	650.8	650.6	650.4	650.4	650.5	650.8	650.9	650.8	652.0	653.8
27	650.7	650.8	650.9	650.8	650.4	650.2	650.3	650.4	650.1	649.7	649.3	649.0	648.9	648.7	648.4	648.4	648.4	648.3	648.3	648.7	648.8	649.1	649.2	649.0	649.4	650.9
28	648.7	648.6	648.8	648.8	648.8	648.7	648.9	648.8	648.5	648.1	647.8	647.5	647.4	646.8	646.5	646.2	646.2	646.3	646.2	646.4	647.0	648.0	648.5	648.6	647.8	648.9
29	648.5	648.5	648.3	648.1	648.2	648.4	648.5	648.4	648.0	647.7	647.2	646.8	646.4	645.9	645.9	647.0	646.3	646.1	646.0	646.5	646.9	647.0	647.2	647.1	647.3	648.5
30	647.3	647.6	647.7	647.7	647.7	647.9	647.8	647.7	647.5	646.9	646.6	646.9	646.9	646.4	646.6	646.2	646.0	646.1	646.0	646.0	646.2	646.7	647.2	647.6	646.9	647.9
31	647.6	647.7	648.0	648.1	648.3	648.5	648.6	648.4	648.3	647.8	647.1	646.6	646.3	645.9	645.7	645.6	645.5	645.6	645.7	645.8	646.5	647.6	648.3	648.7	647.2	648.7
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100.0%
MEAN	651.9	651.9	651.9	652.0	652.1	652.1	652.2	652.3	652.1	651.9	651.6	651.3	651.1	650.9	650.8	650.7	650.6	650.6	650.7	650.9	651.3	651.7	651.8	651.9		
MAX	662.6	662.7	662.7	662.6	662.8	663.2	663.4	663.4	663.4	663.2	662.8	662.5	662.2	661.9	661.6	661.3	661.0	660.9	661.0	661.3	661.7	662.2	662.5	662.5		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	663 MMHg		
Maximum 24-HR Average	662 MMHg		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	4.237	Monthly Average	651.5 MMHg

Lagoon Relative Humidity (%) – May 2023

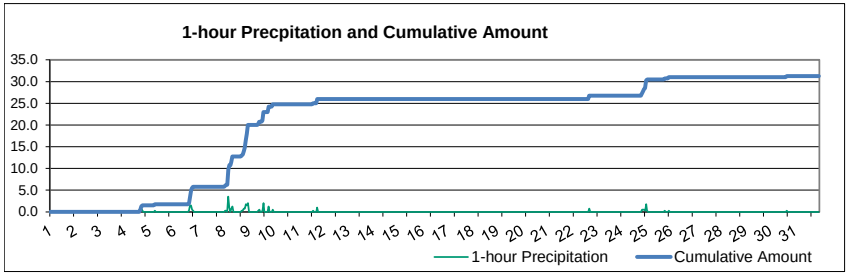
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	45.0	49.0	52.4	55.4	57.7	60.3	60.4	55.7	48.4	39.8	31.5	25.5	20.7	19.0	18.7	17.9	19.5	19.4	21.0	25.4	33.4	43.6	47.7	46.3	38.1	60.4
2	51.6	55.2	58.9	61.5	64.0	65.9	63.5	59.7	52.5	44.4	32.6	28.6	25.9	24.5	22.9	22.9	23.9	24.3	25.7	30.9	42.9	56.6	64.8	68.9	44.7	68.9
3	68.2	60.0	58.5	60.2	62.3	63.8	62.9	58.5	50.1	40.1	30.9	23.3	19.9	18.9	20.4	18.8	17.0	18.9	24.3	31.8	27.9	29.9	36.0	38.0	39.2	68.2
4	43.1	44.3	46.6	49.2	53.4	57.3	58.2	55.6	48.4	41.2	33.4	24.8	24.0	22.6	22.7	26.6	54.8	72.4	68.2	68.8	63.4	65.5	70.5	75.8	49.6	75.8
5	80.2	82.2	83.8	84.6	87.2	89.8	89.5	84.3	72.9	48.0	27.3	22.3	21.7	21.0	18.7	18.8	18.2	21.2	23.7	27.1	30.1	33.1	35.6	36.7	48.3	89.8
6	38.4	40.9	44.1	45.1	49.8	51.1	52.1	49.4	42.6	39.5	41.1	46.0	55.9	61.6	73.7	80.1	84.8	85.5	84.8	84.0	83.3	83.5	85.3	85.5	62.0	85.5
7	86.5	87.7	89.2	90.0	90.5	90.8	90.5	85.8	75.5	63.0	52.2	38.7	36.5	33.1	34.3	44.1	49.4	52.4	52.2	57.2	64.1	65.9	67.1	71.7	65.4	90.8
8	75.0	80.3	83.2	82.8	84.9	85.7	82.1	84.5	84.5	80.1	80.8	79.5	76.6	70.6	67.3	63.4	61.3	66.8	78.4	81.5	86.0	88.2	87.9	88.0	79.1	88.2
9	88.2	87.1	88.0	88.4	87.8	85.7	85.7	84.0	81.5	78.3	80.6	74.3	59.4	75.6	83.5	78.0	70.7	67.3	76.0	83.8	84.2	86.4	86.1	87.8	81.2	88.4
10	88.9	87.7	87.5	85.8	84.2	84.1	84.0	82.5	78.7	73.1	65.9	65.0	58.5	60.7	60.4	55.1	49.8	52.6	57.9	61.2	71.3	79.4	81.0	82.1	72.4	88.9
11	83.6	83.9	81.7	82.4	82.6	83.6	82.8	76.9	67.3	57.8	44.1	40.4	38.7	36.5	37.6	44.2	46.7	40.3	64.0	79.2	85.5	85.9	86.1	81.1	66.4	86.1
12	80.2	77.9	77.8	79.8	79.4	79.7	77.1	70.9	62.9	52.4	41.0	28.2	25.5	24.1	23.8	23.8	23.4	25.4	26.5	34.8	48.8	61.5	72.4	77.5	53.1	80.2
13	70.6	66.0	64.6	65.3	67.1	67.6	65.4	60.5	52.3	44.7	36.5	25.8	23.8	21.7	19.4	19.5	21.3	23.1	25.2	29.0	39.0	56.3	65.2	71.8	45.9	71.8
14	77.8	79.2	71.1	71.9	67.7	68.9	65.4	59.6	53.5	44.0	36.5	25.6	21.7	21.3	22.7	24.6	26.2	29.1	32.6	37.5	47.2	55.8	62.6	73.9	49.0	79.2
15	79.9	83.6	78.3	70.7	70.8	68.7	63.4	59.0	50.6	41.1	32.9	27.2	26.5	23.2	22.0	20.2	17.8	15.1	16.5	23.3	29.8	32.6	31.4	31.3	42.3	83.6
16	34.0	37.5	40.6	43.9	46.9	49.3	49.7	49.9	49.7	46.3	38.9	36.4	41.4	40.6	39.6	37.8	36.0	34.5	38.3	42.5	46.5	55.3	64.4	70.5	44.6	70.5
17	66.1	66.6	70.6	73.2	79.8	82.4	81.2	69.0	59.9	49.2	37.9	35.8	33.0	31.4	30.3	29.3	30.4	31.5	33.0	30.0	41.0	56.6	67.9	71.4	52.4	82.4
18	77.0	81.2	82.6	83.6	76.8	71.2	65.6	60.0	53.5	48.0	36.0	31.2	30.6	28.1	27.0	27.2	27.3	27.9	30.8	36.8	50.0	64.3	72.7	73.3	52.6	83.6
19	65.3	63.7	63.5	58.3	61.2	60.4	57.5	52.9	46.2	35.6	27.7	22.9	21.2	20.2	18.9	17.7	17.7	17.8	18.2	20.2	24.8	36.5	50.1	62.3	39.2	65.3
20	49.4	44.5	43.3	44.3	48.1	51.1	51.4	47.7	40.3	32.3	24.9	19.7	16.5	13.7	15.0	18.3	20.6	21.5	21.7	23.7	26.3	30.1	34.3	37.0	32.3	51.4
21	39.3	41.7	45.6	48.6	51.6	53.9	54.6	50.4	43.3	34.1	29.7	22.4	20.1	18.6	16.8	18.6	20.4	22.5	24.3	26.9	30.0	33.8	36.7	43.5	34.5	54.6
22	47.9	52.8	56.1	60.7	66.1	68.3	68.7	69.1	67.3	66.2	63.2	55.0	48.5	44.6	39.9	48.0	56.6	70.2	67.4	60.2	64.3	65.1	58.5	50.3	59.0	70.2
23	49.2	50.0	49.8	51.3	50.1	48.9	48.1	47.1	46.0	41.7	39.1	37.8	35.2	34.3	32.0	32.2	33.0	39.5	44.5	42.0	45.4	52.7	53.7	56.0	44.1	56.0
24	59.4	61.7	65.0	70.0	74.6	73.1	72.8	69.3	67.0	62.6	54.8	37.8	30.6	28.8	26.5	24.0	26.2	38.0	40.8	46.7	69.6	82.5	86.3	84.7	56.4	86.3
25	83.3	86.5	87.1	89.0	89.5	89.4	89.0	84.5	73.7	57.4	47.9	46.1	44.7	38.5	40.2	39.9	40.1	48.9	63.5	75.7	74.6	83.0	87.5	87.8	68.7	89.5
26	87.5	88.1	85.9	84.4	84.6	83.6	79.3	75.7	65.3	55.3	44.2	40.2	34.2	32.0	31.9	33.7	33.4	33.8	36.3	41.6	52.6	64.7	72.4	78.8	59.1	88.1
27	70.7	66.7	62.8	62.4	63.8	63.4	61.4	58.0	50.6	42.4	32.2	29.1	30.5	25.3	25.6	30.0	32.1	32.8	35.1	44.1	54.3	64.5	72.5	68.9	49.1	72.5
28	62.2	59.3	57.3	58.8	61.4	61.9	60.0	55.7	47.6	35.2	29.5	25.4	30.3	24.5	20.0	20.7	23.6	22.0	23.6	23.9	27.5	41.9	46.7	52.2	40.5	62.2
29	60.7	72.9	65.1	57.9	57.0	55.6	55.6	51.2	42.3	32.7	28.2	23.1	22.7	21.2	25.1	45.6	33.5	30.5	31.8	37.0	35.3	40.6	45.2	48.0	42.4	72.9
30	53.7	58.3	60.7	61.5	63.0	65.2	66.0	62.0	53.0	40.3	32.0	39.6	38.4	33.9	38.3	33.4	30.9	30.0	23.4	24.7	31.0	39.5	41.4	49.3	44.5	66.0
31	52.3	47.3	55.2	58.7	65.0	64.2	59.4	50.4	42.4	37.8	32.3	27.4	25.2	26.6	27.4	29.2	28.7	26.4	24.4	30.3	34.8	44.9	54.1	63.1	42.0	65.0
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	65.0	65.9	66.3	67.1	68.7	69.2	67.8	63.9	57.1	48.5	40.8	35.6	33.5	32.2	32.3	33.7	34.7	36.8	39.8	43.9	49.8	57.4	62.1	65.0		
MAX	88.9	88.1	89.2	90.0	90.5	90.8	90.5	85.8	84.5	80.1	80.8	79.5	76.6	75.6	83.5	80.1	84.8	85.5	84.8	84.0	86.0	88.2	87.9	88.0		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	90.8 %		
Maximum 24-HR Average	81.2 %		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	21.23	Monthly Average	51.5 %

Lagoon Precipitation (mm) – May 2023

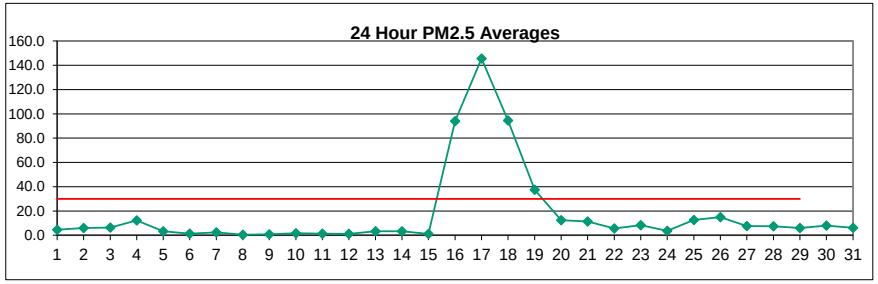
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY MAX	24-HOUR TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
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	0.5	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5
5	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	0.3	0.3
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	0.3	1.5	1.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	1.5	4.0
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
8	0.0	0.3	0.3	0.0	3.5	1.0	0.0	0.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.8	0.8	1.8	1.5	2.0	3.5	14.3
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.3	2.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.5	2.0	4.8
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
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	0.3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3
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
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
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
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
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
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
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
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
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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
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	0.5	0.5	0.5	0.3	0.5	1.8
25	1.8	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	0.3	0.0	0.0	0.0	0.3	0.0	1.8	2.5
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
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
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
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
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
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	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1		
MAX	1.8	0.3	0.3	0.0	3.5	1.0	0.0	0.8	1.3	0.3	0.5	0.0	0.0	0.3	2.0	1.5	1.5	0.8	1.0	1.3	0.8	1.8	1.5	2.0		



Number of Non-Zero Readings	40		
Maximum 1-HR Average	14.3 MM		
Maximum 24-HR Average	3.5 MM		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	0.239	Monthly Average	0.04 MM

Windridge $PM_{2.5}$ (µg/m^3) – May 2023

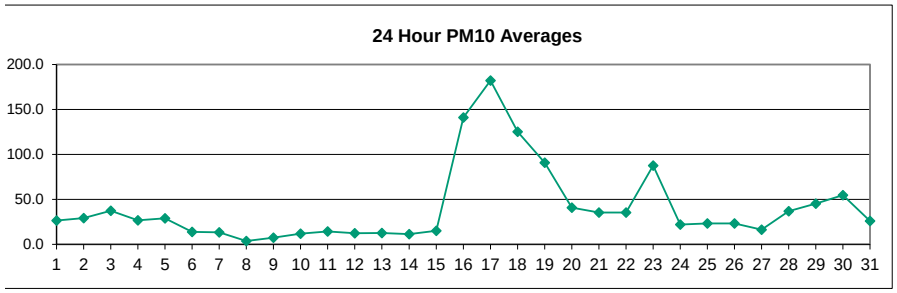
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	6.0	5.0	2.0	2.0	6.0	4.0	3.0	6.0	8.0	8.0	5.0	8.0	5.0	5.0	4.0	3.0	2.0	3.0	4.0	5.0	4.0	4.0	4.0	4.0	4.6	8.0
2	3.0	3.0	2.0	1.0	5.0	5.0	3.0	4.0	4.0	6.0	8.0	5.0	3.0	7.0	7.0	7.0	9.0	8.0	6.0	8.0	7.0	9.0	9.0	14.0	6.0	14.0
3	9.0	9.0	8.0	8.0	7.0	7.0	7.0	7.0	7.0	9.0	7.0	6.0	7.0	7.0	5.0	4.0	5.0	5.0	3.0	6.0	7.0	6.0	3.0	1.0	6.3	9.0
4	0.0	0.0	3.0	2.0	1.0	5.0	6.0	6.0	83.0	35.0	29.0	24.0	29.0	15.0	12.0	10.0	7.0	7.0	4.0	3.0	3.0	3.0	5.0	2.0	12.3	83.0
5	1.0	4.0	3.0	0.0	0.0	2.0	2.0	5.0	8.0	6.0	3.0	1.0	4.0	3.0	3.0	4.0	7.0	6.0	4.0	6.0	4.0	2.0	0.0	1.0	3.3	8.0
6	1.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	1.0	3.0	1.0	0.0	0.0	1.0	3.0	3.0	1.0	0.0	0.0	4.0	3.0	1.0	3.0	3.0	1.3	4.0
7	3.0	4.0	2.0	0.0	1.0	4.0	9.0	8.0	6.0	3.0	2.0	3.0	4.0	1.0	0.0	3.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	1.0	2.3	9.0
8	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	0.5	3.0
9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	4.0	5.0	2.0	0.0	0.0	0.0	2.0	3.0	0.0	0.0	0.0	0.0	0.8	5.0
10	0.0	0.0	0.0	0.0	2.0	2.0	1.0	0.0	1.0	4.0	6.0	4.0	2.0	0.0	1.0	3.0	3.0	8.0	4.0	0.0	0.0	0.0	0.0	1.0	1.8	8.0
11	2.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	10.0	7.0	2.0	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	1.3	10.0
12	1.0	0.0	0.0	0.0	0.0	1.0	3.0	2.0	1.0	0.0	0.0	2.0	2.0	1.0	2.0	3.0	3.0	0.0	0.0	0.0	3.0	3.0	1.0	0.0	1.2	3.0
13	1.0	4.0	4.0	3.0	4.0	2.0	4.0	2.0	1.0	3.0	4.0	4.0	2.0	1.0	0.0	0.0	3.0	3.0	3.0	3.0	8.0	6.0	7.0	5.0	3.2	8.0
14	5.0	3.0	2.0	6.0	6.0	5.0	5.0	5.0	5.0	8.0	5.0	4.0	3.0	0.0	0.0	2.0	2.0	1.0	0.0	0.0	2.0	6.0	2.0	0.0	3.2	8.0
15	2.0	2.0	1.0	2.0	1.0	0.0	0.0	3.0	3.0	3.0	2.0	1.0	3.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.1	3.0
16	0.0	0.0	1.0	1.0	0.0	0.0	3.0	4.0	3.0	6.0	45.0	227.0	235.0	235.0	235.0	235.0	209.0	130.0	120.0	144.0	123.0	113.0	96.0	93.0	94.1	235.0
17	98.0	96.0	85.0	85.0	68.0	73.0	78.0	85.0	96.0	121.0	195.0	194.0	171.0	195.0	209.0	207.0	235.0	235.0	211.0	160.0	154.0	154.0	144.0	144.0	145.5	235.0
18	141.0	101.0	97.0	90.0	78.0	98.0	137.0	137.0	143.0	144.0	141.0	128.0	107.0	91.0	82.0	69.0	65.0	56.0	53.0	48.0	88.0	46.0	85.0	46.0	94.6	144.0
19	58.0	46.0	51.0	44.0	41.0	43.0	80.0	80.0	42.0	39.0	49.0	31.0	31.0	C	41.0	21.0	20.0	20.0	18.0	10.0	10.0	28.0	17.0	40.0	37.4	80.0
20	33.0	13.0	8.0	9.0	6.0	13.0	11.0	6.0	2.0	7.0	28.0	3.0	9.0	7.0	22.0	16.0	15.0	14.0	18.0	39.0	2.0	1.0	9.0	7.0	12.4	39.0
21	5.0	6.0	7.0	26.0	7.0	8.0	7.0	5.0	4.0	16.0	24.0	47.0	11.0	7.0	5.0	6.0	4.0	8.0	9.0	8.0	19.0	15.0	7.0	13.0	11.4	47.0
22	10.0	6.0	2.0	0.0	0.0	0.0	2.0	1.0	2.0	4.0	1.0	0.0	5.0	54.0	9.0	28.0	3.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	5.5	54.0
23	0.0	0.0	0.0	0.0	2.0	4.0	4.0	8.0	7.0	7.0	28.0	59.0	9.0	6.0	12.0	12.0	10.0	9.0	11.0	9.0	2.0	0.0	0.0	0.0	8.3	59.0
24	0.0	0.0	1.0	1.0	0.0	0.0	0.0	3.0	4.0	1.0	0.0	10.0	7.0	6.0	4.0	2.0	5.0	4.0	4.0	10.0	7.0	7.0	6.0	7.0	3.7	10.0
25	7.0	8.0	10.0	16.0	19.0	20.0	18.0	18.0	16.0	19.0	16.0	10.0	13.0	10.0	10.0	13.0	11.0	14.0	12.0	8.0	7.0	13.0	8.0	7.0	12.6	20.0
26	11.0	20.0	20.0	21.0	24.0	16.0	15.0	11.0	8.0	12.0	15.0	11.0	12.0	15.0	17.0	15.0	17.0	13.0	17.0	18.0	12.0	14.0	12.0	13.0	15.0	24.0
27	12.0	14.0	14.0	13.0	8.0	6.0	7.0	7.0	6.0	4.0	8.0	9.0	8.0	4.0	2.0	4.0	3.0	2.0	5.0	6.0	10.0	9.0	8.0	11.0	7.5	14.0
28	6.0	5.0	8.0	6.0	4.0	3.0	4.0	2.0	3.0	7.0	7.0	6.0	6.0	7.0	11.0	10.0	15.0	11.0	9.0	18.0	7.0	7.0	9.0	7.0	7.4	18.0
29	4.0	4.0	4.0	4.0	3.0	3.0	4.0	6.0	4.0	3.0	2.0	1.0	6.0	4.0	25.0	27.0	5.0	8.0	7.0	8.0	6.0	3.0	1.0	1.0	6.0	27.0
30	0.0	5.0	2.0	1.0	2.0	1.0	3.0	4.0	3.0	8.0	28.0	24.0	8.0	6.0	12.0	7.0	14.0	9.0	16.0	15.0	11.0	6.0	3.0	4.0	8.0	28.0
31	8.0	8.0	4.0	2.0	1.0	7.0	7.0	5.0	7.0	9.0	9.0	6.0	15.0	4.0	4.0	7.0	6.0	5.0	5.0	3.0	5.0	7.0	7.0	6.0	6.1	15.0
NO.	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	743	100.0%
MEAN	13.8	11.8	11.1	11.1	9.6	10.7	13.7	13.9	15.5	16.0	21.9	26.9	23.4	23.4	23.9	23.3	21.9	18.9	17.7	17.5	16.3	14.9	14.5	14.0	7.5	
MAX	141.0	101.0	97.0	90.0	78.0	98.0	137.0	137.0	143.0	144.0	195.0	227.0	235.0	235.0	235.0	235.0	235.0	235.0	211.0	160.0	154.0	154.0	144.0	144.0	17.4	70.0



Number of 24HR Exceedences	4	Proposed Guideline	
Number of Non-Zero Readings	611		
Maximum 1-HR Average	235.0	UG/M3	
Maximum 24-HR Average	145.5	UG/M3	
		Operational Time	744 HRS
Monthly Calibration	1	Operational Uptime	100.0 %
Standard Deviation	38.9	Monthly Average	16.9 UG/M3

Windridge PM_{10} ($\mu g/m^3$) – May 2023

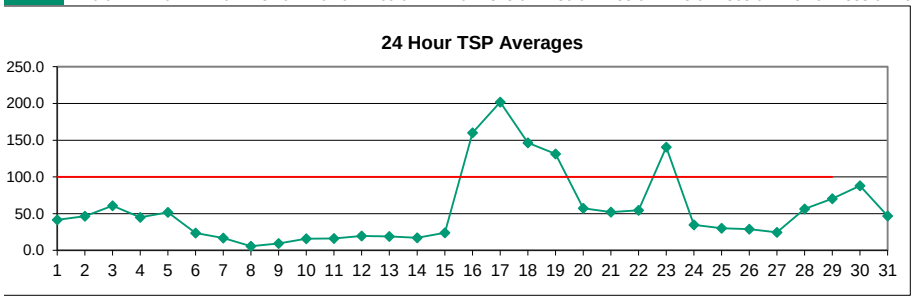
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	11.0	9.0	20.0	14.0	9.0	16.0	44.0	62.0	69.0	51.0	40.0	53.0	34.0	22.0	21.0	24.0	25.0	21.0	15.0	16.0	23.0	16.0	16.0	8.0	26.6	69.0
2	12.0	13.0	11.0	11.0	17.0	18.0	37.0	53.0	38.0	40.0	43.0	26.0	30.0	31.0	32.0	30.0	39.0	27.0	29.0	34.0	22.0	29.0	34.0	45.0	29.2	53.0
3	24.0	61.0	25.0	37.0	41.0	41.0	32.0	41.0	49.0	59.0	54.0	49.0	52.0	31.0	49.0	58.0	30.0	22.0	16.0	17.0	62.0	25.0	13.0	14.0	37.6	62.0
4	11.0	11.0	9.0	10.0	10.0	14.0	84.0	62.0	47.0	44.0	41.0	26.0	27.0	33.0	25.0	73.0	23.0	20.0	10.0	22.0	13.0	9.0	10.0	12.0	26.9	84.0
5	9.0	6.0	8.0	6.0	5.0	8.0	17.0	38.0	65.0	36.0	26.0	28.0	25.0	29.0	34.0	45.0	64.0	61.0	44.0	37.0	28.0	24.0	29.0	26.0	29.1	65.0
6	21.0	22.0	17.0	16.0	18.0	13.0	17.0	19.0	18.0	22.0	26.0	27.0	24.0	13.0	8.0	6.0	3.0	5.0	6.0	6.0	5.0	5.0	9.0	7.0	13.9	27.0
7	13.0	10.0	8.0	9.0	9.0	13.0	22.0	23.0	20.0	15.0	20.0	21.0	53.0	18.0	20.0	10.0	6.0	4.0	7.0	8.0	4.0	1.0	6.0	3.0	13.5	53.0
8	1.0	5.0	5.0	4.0	4.0	3.0	0.0	0.0	4.0	3.0	2.0	4.0	6.0	10.0	11.0	7.0	6.0	1.0	0.0	1.0	4.0	5.0	3.0	4.0	3.9	11.0
9	3.0	0.0	0.0	1.0	8.0	4.0	13.0	7.0	7.0	6.0	9.0	18.0	29.0	9.0	6.0	11.0	9.0	6.0	6.0	6.0	4.0	7.0	5.0	4.0	7.4	29.0
10	6.0	3.0	6.0	5.0	4.0	4.0	5.0	12.0	11.0	21.0	31.0	8.0	8.0	7.0	6.0	10.0	9.0	60.0	52.0	4.0	4.0	4.0	4.0	4.0	12.0	60.0
11	2.0	2.0	7.0	4.0	10.0	7.0	16.0	17.0	10.0	31.0	81.0	15.0	6.0	5.0	5.0	7.0	85.0	13.0	8.0	5.0	2.0	4.0	3.0	2.0	14.5	85.0
12	7.0	5.0	5.0	10.0	6.0	6.0	17.0	19.0	31.0	40.0	27.0	3.0	6.0	13.0	10.0	8.0	10.0	8.0	11.0	15.0	13.0	11.0	10.0	9.0	12.5	40.0
13	9.0	7.0	8.0	16.0	13.0	15.0	11.0	10.0	16.0	22.0	23.0	13.0	9.0	6.0	4.0	12.0	12.0	18.0	16.0	16.0	14.0	14.0	10.0	12.0	12.8	23.0
14	9.0	6.0	11.0	8.0	8.0	11.0	11.0	18.0	16.0	28.0	21.0	11.0	8.0	8.0	9.0	15.0	17.0	4.0	6.0	5.0	15.0	12.0	11.0	9.0	11.5	28.0
15	8.0	6.0	4.0	5.0	7.0	11.0	14.0	26.0	51.0	24.0	37.0	14.0	16.0	9.0	12.0	8.0	13.0	39.0	30.0	4.0	6.0	5.0	4.0	9.0	15.1	51.0
16	10.0	12.0	27.0	9.0	9.0	17.0	27.0	39.0	73.0	84.0	101.0	276.0	409.0	377.0	329.0	299.0	257.0	157.0	147.0	167.0	167.0	157.0	122.0	114.0	141.1	409.0
17	122.0	120.0	108.0	111.0	89.0	89.0	149.0	179.0	138.0	161.0	219.0	217.0	214.0	223.0	243.0	240.0	292.0	296.0	254.0	187.0	192.0	194.0	156.0	183.0	182.3	296.0
18	165.0	114.0	128.0	119.0	95.0	140.0	158.0	185.0	224.0	220.0	194.0	160.0	153.0	121.0	120.0	106.0	86.0	82.0	79.0	83.0	88.0	64.0	57.0	66.0	125.3	224.0
19	62.0	65.0	70.0	62.0	64.0	60.0	59.0	75.0	64.0	113.0	150.0	205.0	205.0	C	156.0	132.0	136.0	136.0	103.0	60.0	17.0	44.0	29.0	27.0	91.0	205.0
20	26.0	19.0	16.0	14.0	11.0	9.0	15.0	18.0	47.0	68.0	22.0	29.0	44.0	47.0	86.0	119.0	80.0	55.0	81.0	127.0	14.0	15.0	10.0	10.0	40.9	127.0
21	12.0	10.0	8.0	19.0	26.0	11.0	12.0	16.0	16.0	124.0	90.0	59.0	29.0	18.0	31.0	37.0	29.0	20.0	25.0	27.0	37.0	64.0	40.0	92.0	35.5	124.0
22	28.0	17.0	3.0	2.0	2.0	3.0	6.0	9.0	6.0	5.0	5.0	17.0	80.0	49.0	58.0	409.0	48.0	50.0	18.0	10.0	7.0	3.0	6.0	9.0	35.4	409.0
23	17.0	73.0	106.0	43.0	45.0	98.0	97.0	223.0	93.0	124.0	125.0	148.0	103.0	81.0	104.0	128.0	80.0	127.0	134.0	108.0	0.0	7.0	43.0	0.0	87.8	223.0
24	0.0	2.0	0.0	0.0	2.0	2.0	2.0	21.0	42.0	46.0	40.0	84.0	44.0	54.0	32.0	11.0	30.0	23.0	13.0	23.0	18.0	16.0	13.0	12.0	22.1	84.0
25	12.0	8.0	15.0	14.0	21.0	25.0	19.0	31.0	48.0	35.0	29.0	19.0	26.0	26.0	26.0	45.0	34.0	26.0	24.0	16.0	22.0	22.0	7.0	10.0	23.3	48.0
26	10.0	21.0	27.0	28.0	26.0	30.0	23.0	20.0	12.0	42.0	29.0	26.0	20.0	23.0	19.0	22.0	21.0	28.0	23.0	25.0	23.0	19.0	25.0	20.0	23.4	42.0
27	16.0	17.0	20.0	19.0	17.0	11.0	10.0	9.0	16.0	14.0	18.0	14.0	22.0	13.0	12.0	21.0	16.0	22.0	20.0	13.0	25.0	9.0	11.0	29.0	16.4	29.0
28	11.0	15.0	12.0	17.0	12.0	10.0	11.0	16.0	39.0	79.0	27.0	6.0	36.0	28.0	105.0	53.0	50.0	54.0	34.0	133.0	92.0	22.0	8.0	19.0	37.0	133.0
29	5.0	5.0	10.0	10.0	6.0	6.0	15.0	22.0	22.0	38.0	19.0	51.0	39.0	43.0	378.0	82.0	26.0	66.0	69.0	92.0	59.0	8.0	8.0	9.0	45.3	378.0
30	7.0	6.0	4.0	3.0	5.0	14.0	25.0	39.0	39.0	37.0	226.0	44.0	109.0	58.0	185.0	45.0	118.0	53.0	123.0	148.0	4.0	4.0	5.0	16.0	54.9	226.0
31	4.0	5.0	5.0	7.0	10.0	51.0	56.0	36.0	67.0	53.0	37.0	22.0	14.0	32.0	25.0	28.0	20.0	32.0	19.0	17.0	32.0	22.0	14.0	17.0	26.0	67.0
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	743	100.0%
MEAN	21.1	21.8	22.7	20.4	19.6	24.5	33.0	43.4	45.1	54.4	58.5	54.6	60.6	47.9	69.7	67.8	54.0	49.5	45.9	46.2	32.8	27.1	23.3	25.8	42.0	
MAX	165.0	120.0	128.0	119.0	95.0	140.0	158.0	223.0	224.0	220.0	226.0	276.0	409.0	377.0	378.0	409.0	292.0	296.0	254.0	187.0	192.0	194.0	156.0	183.0	91.1	433.3



Number of Non-Zero Readings	733		
Maximum 1-HR Average	409.0	UG/M3	
Maximum 24-HR Average	182.3	UG/M3	
		Operational Time	744 HRS
Monthly Calibration	1	Operational Uptime	100.0 %
Standard Deviation	57.23	Monthly Average	40.4 UG/M3

Windridge TSP (µg/m^3) – May 2023

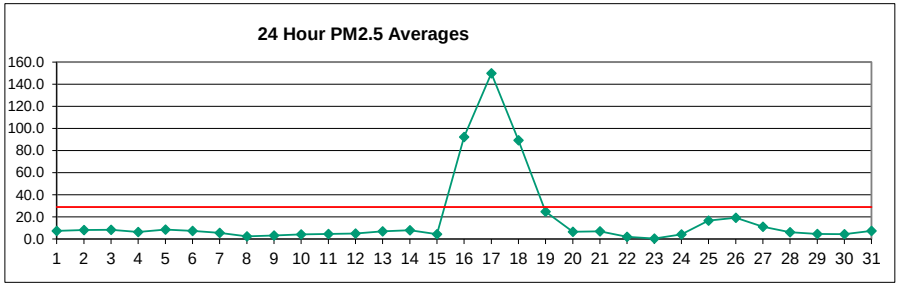
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	14.0	18.0	30.0	14.0	12.0	22.0	56.0	85.0	109.0	88.0	64.0	87.0	51.0	44.0	33.0	40.0	48.0	33.0	27.0	23.0	33.0	21.0	25.0	18.0	41.5	109.0
2	16.0	23.0	18.0	11.0	15.0	21.0	52.0	79.0	61.0	71.0	79.0	47.0	58.0	49.0	54.0	56.0	66.0	49.0	47.0	69.0	30.0	38.0	48.0	60.0	46.5	79.0
3	32.0	96.0	38.0	58.0	65.0	57.0	47.0	72.0	62.0	84.0	90.0	69.0	80.0	51.0	109.0	108.0	52.0	45.0	25.0	37.0	106.0	42.0	23.0	13.0	60.9	109.0
4	14.0	14.0	11.0	10.0	15.0	20.0	128.0	87.0	69.0	77.0	80.0	53.0	49.0	64.0	39.0	170.0	49.0	28.0	15.0	24.0	17.0	18.0	15.0	14.0	45.0	170.0
5	9.0	9.0	7.0	6.0	4.0	15.0	24.0	59.0	113.0	52.0	50.0	52.0	49.0	59.0	66.0	81.0	123.0	115.0	76.0	67.0	62.0	46.0	51.0	47.0	51.8	123.0
6	39.0	37.0	36.0	33.0	25.0	26.0	32.0	34.0	27.0	42.0	39.0	48.0	35.0	12.0	13.0	10.0	6.0	9.0	13.0	10.0	12.0	9.0	8.0	10.0	23.5	48.0
7	17.0	9.0	7.0	6.0	5.0	9.0	28.0	27.0	30.0	21.0	33.0	23.0	72.0	29.0	33.0	15.0	8.0	6.0	6.0	7.0	5.0	2.0	2.0	3.0	16.8	72.0
8	4.0	7.0	5.0	2.0	1.0	1.0	1.0	4.0	6.0	4.0	2.0	5.0	7.0	13.0	14.0	14.0	12.0	6.0	4.0	6.0	2.0	5.0	4.0	4.0	5.5	14.0
9	6.0	4.0	4.0	2.0	0.0	3.0	26.0	6.0	15.0	5.0	9.0	14.0	44.0	20.0	4.0	17.0	10.0	6.0	6.0	3.0	5.0	9.0	4.0	3.0	9.4	44.0
10	6.0	5.0	6.0	3.0	4.0	3.0	5.0	9.0	13.0	31.0	44.0	12.0	17.0	5.0	18.0	17.0	9.0	79.0	65.0	11.0	7.0	3.0	2.0	5.0	15.8	79.0
11	3.0	1.0	5.0	4.0	3.0	4.0	21.0	17.0	17.0	55.0	113.0	25.0	8.0	5.0	13.0	11.0	40.0	22.0	11.0	6.0	1.0	0.0	3.0	1.0	16.2	113.0
12	2.0	7.0	8.0	9.0	8.0	15.0	18.0	32.0	50.0	73.0	46.0	17.0	13.0	15.0	17.0	9.0	16.0	14.0	19.0	24.0	18.0	12.0	13.0	14.0	19.5	73.0
13	11.0	14.0	10.0	24.0	19.0	17.0	10.0	15.0	26.0	28.0	39.0	33.0	19.0	10.0	9.0	16.0	20.0	23.0	24.0	23.0	25.0	17.0	13.0	11.0	19.0	39.0
14	12.0	9.0	13.0	11.0	8.0	13.0	13.0	21.0	18.0	48.0	32.0	19.0	16.0	16.0	17.0	20.0	17.0	11.0	10.0	12.0	28.0	25.0	11.0	12.0	17.2	48.0
15	12.0	7.0	6.0	9.0	15.0	10.0	19.0	34.0	79.0	42.0	44.0	26.0	24.0	15.0	21.0	20.0	31.0	65.0	50.0	11.0	7.0	4.0	9.0	11.0	23.8	79.0
16	15.0	29.0	32.0	14.0	10.0	34.0	46.0	65.0	131.0	146.0	140.0	298.0	432.0	388.0	337.0	316.0	284.0	164.0	154.0	185.0	186.0	179.0	132.0	122.0	160.0	432.0
17	126.0	135.0	120.0	126.0	94.0	96.0	211.0	254.0	158.0	173.0	231.0	229.0	230.0	234.0	256.0	261.0	317.0	307.0	269.0	207.0	209.0	228.0	162.0	215.0	202.0	317.0
18	170.0	116.0	148.0	131.0	102.0	167.0	164.0	214.0	280.0	283.0	235.0	184.0	177.0	146.0	151.0	125.0	109.0	95.0	101.0	101.0	111.0	69.0	65.0	75.0	146.6	283.0
19	71.0	75.0	82.0	63.0	70.0	67.0	71.0	93.0	71.0	171.0	263.0	368.0	368.0	C	172.0	197.0	221.0	225.0	143.0	76.0	23.0	68.0	29.0	31.0	131.2	368.0
20	29.0	25.0	13.0	17.0	12.0	15.0	15.0	22.0	66.0	93.0	45.0	40.0	78.0	76.0	129.0	165.0	110.0	71.0	110.0	173.0	16.0	20.0	18.0	21.0	57.5	173.0
21	15.0	21.0	18.0	26.0	24.0	22.0	16.0	20.0	24.0	191.0	124.0	79.0	36.0	26.0	45.0	63.0	43.0	27.0	36.0	41.0	47.0	101.0	64.0	142.0	52.1	191.0
22	42.0	24.0	8.0	7.0	4.0	5.0	9.0	13.0	9.0	5.0	8.0	27.0	133.0	68.0	99.0	578.0	87.0	83.0	30.0	11.0	6.0	6.0	18.0	27.0	54.5	578.0
23	35.0	147.0	174.0	68.0	75.0	169.0	186.0	373.0	193.0	191.0	109.0	253.0	163.0	129.0	152.0	178.0	120.0	210.0	204.0	163.0	2.0	16.0	63.0	4.0	140.7	373.0
24	2.0	2.0	1.0	0.0	1.0	6.0	8.0	34.0	55.0	69.0	74.0	111.0	70.0	97.0	47.0	20.0	65.0	49.0	24.0	29.0	26.0	21.0	16.0	10.0	34.9	8.0
25	10.0	11.0	19.0	22.0	28.0	24.0	31.0	35.0	69.0	51.0	37.0	23.0	30.0	34.0	34.0	56.0	56.0	38.0	33.0	18.0	22.0	21.0	12.0	8.0	30.1	69.0
26	11.0	22.0	28.0	30.0	29.0	20.0	27.0	22.0	25.0	64.0	47.0	30.0	33.0	30.0	38.0	27.0	17.0	21.0	26.0	36.0	31.0	26.0	27.0	26.0	28.9	64.0
27	19.0	21.0	24.0	25.0	15.0	18.0	11.0	22.0	19.0	22.0	21.0	28.0	40.0	10.0	19.0	37.0	36.0	38.0	29.0	35.0	32.0	18.0	16.0	36.0	24.6	40.0
28	14.0	18.0	8.0	14.0	10.0	11.0	24.0	22.0	63.0	127.0	45.0	18.0	66.0	35.0	185.0	82.0	86.0	90.0	48.0	192.0	103.0	53.0	18.0	24.0	56.5	192.0
29	13.0	8.0	10.0	9.0	12.0	8.0	20.0	46.0	34.0	51.0	32.0	79.0	65.0	53.0	602.0	140.0	48.0	103.0	102.0	144.0	81.0	6.0	6.0	16.0	70.3	602.0
30	12.0	9.0	10.0	8.0	9.0	19.0	31.0	64.0	62.0	74.0	425.0	62.0	157.0	84.0	319.0	75.0	168.0	81.0	168.0	217.0	18.0	13.0	10.0	20.0	88.1	425.0
31	4.0	11.0	10.0	8.0	11.0	92.0	88.0	68.0	116.0	84.0	61.0	43.0	32.0	59.0	52.0	56.0	38.0	42.0	33.0	35.0	49.0	76.0	30.0	28.0	46.9	116.0
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	743	100.0%
MEAN	25.3	30.1	29.3	24.8	22.7	32.5	46.4	62.8	66.8	81.2	85.8	77.5	85.5	62.5	99.9	96.1	74.6	69.5	61.5	64.4	42.6	37.8	29.6	33.3		
MAX	170.0	147.0	174.0	131.0	102.0	169.0	211.0	373.0	280.0	283.0	425.0	368.0	432.0	388.0	602.0	578.0	317.0	307.0	269.0	217.0	209.0	228.0	162.0	215.0		



Number of 24HR Exceedences	5	Proposed Guideline	
Number of Non-Zero Readings	740		
Maximum 1-HR Average	602.0	UG/M3	
Maximum 24-HR Average	202.0	UG/M3	
IZS Calibration Time		Operational Time	744 HRS
Down Time	0	Operational Uptime	100.0 %
Standard Deviation	73.3	Monthly Average	55.9 UG/M3

West $PM_{2.5}$ (µg/m^3) – May 2023

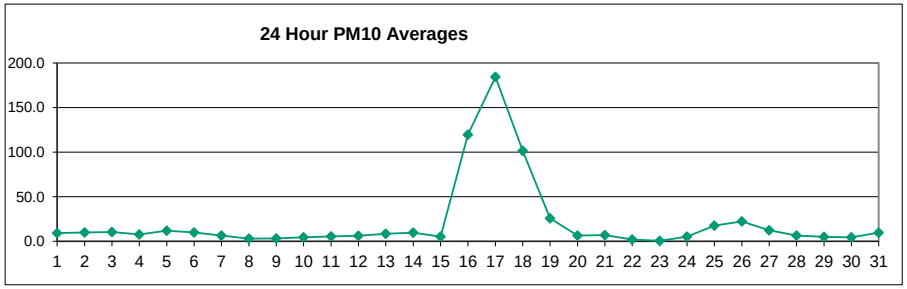
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	7.6	7.3	6.5	6.1	5.9	6.7	8.2	8.1	7.8	8.0	8.1	7.1	7.1	6.6	7.0	6.9	4.8	6.6	7.2	9.8	8.1	9.8	8.0	7.5	7.4	9.8
2	7.7	7.9	7.7	**7.6**	9.0	8.1	8.1	7.1	7.3	7.2	7.6	7.5	7.3	7.8	9.2	9.4	8.9	8.6	8.0	7.5	8.4	8.0	8.5	10.4	8.1	10.4
3	10.3	12.4	12.7	12.2	11.7	11.5	12.5	11.4	9.7	8.8	7.3	7.6	5.8	5.5	6.7	5.8	4.3	5.1	8.6	10.8	5.2	4.8	4.6	5.7	8.4	12.7
4	5.7	6.1	6.5	6.4	6.2	6.3	7.5	7.2	7.2	6.7	5.5	10.7	8.4	7.9	5.1	6.6	7.3	7.8	6.2	5.0	4.8	4.1	4.1	4.3	6.4	10.7
5	4.4	4.1	3.5	4.3	4.2	3.8	5.4	4.8	6.5	10.1	11.4	6.9	8.8	12.1	14.1	12.1	15.8	12.2	13.2	13.4	9.4	9.4	8.1	6.8	8.5	15.8
6	8.6	7.6	5.1	5.0	4.6	5.8	12.5	10.2	8.8	12.1	8.7	9.0	8.6	8.1	7.9	5.7	6.6	4.7	8.0	6.8	6.5	5.6	4.0	8.7	7.5	12.5
7	6.3	7.3	7.2	7.3	13.4	9.4	11.1	12.3	10.5	4.6	0.9	0.6	0.4	0.4	0.6	10.2	12.0	5.9	4.0	5.3	2.6	1.8	0.9	0.8	5.7	13.4
8	1.0	0.9	0.9	0.7	0.8	0.8	0.6	0.8	0.6	0.4	0.8	1.0	3.4	7.9	9.0	11.0	6.5	1.6	1.9	2.5	2.2	2.3	1.7	1.8	2.5	11.0
9	1.3	1.0	1.1	1.0	1.2	1.2	1.1	1.1	1.2	1.3	1.7	2.4	3.6	8.0	10.3	5.0	4.1	3.0	8.2	8.9	3.0	3.0	3.6	2.8	3.3	10.3
10	2.8	2.5	2.9	2.2	1.7	1.9	2.0	2.0	2.4	3.0	5.8	11.9	10.0	6.7	7.9	8.5	6.3	3.3	3.1	2.8	2.8	2.7	2.7	3.0	4.2	11.9
11	3.2	3.8	3.4	3.4	3.5	3.4	3.8	4.7	5.4	4.1	2.6	4.2	7.0	5.9	5.8	4.0	3.0	3.1	6.8	5.3	6.0	8.2	4.7	3.9	4.5	8.2
12	3.8	3.2	3.1	2.8	2.8	2.7	3.1	4.0	4.5	3.8	2.8	2.5	3.1	2.9	3.9	8.8	5.5	7.8	8.0	6.1	6.6	7.1	11.2	10.4	5.0	11.2
13	9.0	6.3	5.9	5.8	5.0	4.6	4.1	4.0	4.5	4.5	4.8	5.2	5.7	5.1	6.1	6.1	7.2	9.2	8.4	9.7	10.1	11.4	12.1	12.9	7.0	12.9
14	10.6	10.1	10.6	10.2	9.2	8.2	7.5	7.2	7.7	9.9	9.9	8.9	7.2	6.1	5.7	7.3	8.6	10.8	7.0	4.5	5.3	7.1	7.2	7.0	8.1	10.8
15	7.0	7.6	7.3	6.5	5.8	5.6	6.7	6.7	6.5	5.4	4.1	2.6	9.0	5.0	1.7	3.0	1.6	1.0	1.1	1.4	3.4	2.9	2.9	2.8	4.5	9.0
16	3.0	3.3	4.1	4.1	3.8	5.0	5.9	6.7	7.4	7.6	30.5	202.9	259.8	232.8	201.5	189.1	163.3	128.0	130.8	143.1	137.4	118.8	116.0	114.2	**92.5**	259.8
17	101.0	101.9	103.1	103.4	83.3	90.1	98.0	102.7	124.7	157.0	190.4	186.6	172.1	183.7	186.9	188.7	210.0	216.0	192.4	163.8	162.7	157.8	162.5	160.9	**150.0**	216.0
18	161.0	129.5	106.3	89.0	92.5	92.5	99.9	101.3	118.4	115.1	106.0	129.6	105.3	86.0	69.3	66.1	59.7	56.1	55.1	57.3	64.6	68.1	67.8	51.2	**89.5**	161.0
19	50.6	49.4	47.8	42.9	38.2	38.8	38.6	45.8	45.8	26.7	15.5	13.8	9.6	9.8	7.7	6.1	5.7	4.9	4.1	4.1	5.5	22.9	30.4	31.8	24.9	50.6
20	18.4	12.3	9.1	7.7	7.6	7.4	6.5	6.2	6.7	5.8	4.6	4.4	4.0	3.0	2.8	3.8	4.6	3.3	3.5	4.0	5.5	9.3	7.9	8.9	6.5	18.4
21	10.2	8.9	8.9	9.2	9.7	8.9	8.4	9.0	9.0	7.3	5.4	3.6	4.0	3.5	2.9	3.8	4.0	4.4	4.4	10.0	15.3	6.6	4.2	5.5	7.0	15.3
22	4.1	3.4	2.9	2.8	3.0	3.0	2.8	3.3	3.5	3.6	3.6	3.5	1.8	1.1	1.4	1.9	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.3	2.1	4.1
23	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	1.0	0.4	0.3	0.7	1.0	1.2	1.0	0.4	1.2
24	1.5	1.3	0.9	1.0	1.1	1.0	2.1	2.7	2.1	2.9	1.9	1.5	1.3	1.4	1.5	1.7	7.6	11.8	8.9	7.3	8.3	11.4	11.8	10.9	4.3	11.8
25	10.9	13.6	12.9	19.1	19.2	17.3	16.3	19.6	18.5	27.8	22.4	21.2	15.9	15.6	15.3	14.5	13.8	18.0	20.0	14.1	12.8	18.1	10.0	11.8	16.6	27.8
26	13.3	15.6	15.3	15.2	15.4	14.7	13.0	12.9	13.8	14.2	21.2	22.5	19.0	18.4	19.2	22.5	22.5	23.5	24.4	24.2	25.2	24.8	24.7	26.7	19.3	26.7
27	18.4	17.4	16.1	14.4	12.1	10.4	10.0	9.3	9.7	9.4	8.4	9.6	9.6	6.9	8.8	9.0	7.5	7.9	8.5	9.0	9.4	20.3	14.3	13.1	11.2	20.3
28	13.6	10.1	8.6	7.9	7.2	7.8	7.1	7.6	7.2	5.7	4.7	4.3	5.5	4.0	4.0	2.9	3.6	3.4	3.0	3.0	3.1	6.9	7.9	11.2	6.3	13.6
29	8.7	9.6	8.1	5.4	4.6	4.3	5.9	6.6	5.5	3.8	3.9	3.8	3.6	3.3	4.4	2.4	3.4	2.8	2.4	3.2	2.9	3.6	3.7	3.8	4.6	9.6
30	4.0	3.8	3.8	4.0	4.3	4.8	5.0	6.3	5.8	4.8	4.1	3.6	3.2	2.4	5.0	2.7	3.8	3.4	3.1	3.3	4.5	6.1	7.2	5.3	4.4	7.2
31	5.1	5.2	6.8	5.5	4.7	5.1	6.0	6.3	5.8	5.5	6.7	6.1	5.4	9.6	10.0	8.2	8.3	8.3	6.9	15.9	9.1	7.4	9.3	11.4	7.4	15.9
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%
MEAN	16.5	15.3	14.2	13.3	12.6	12.6	13.5	14.1	15.3	15.7	16.5	22.7	23.1	21.9	20.7	20.5	20.0	18.9	18.3	18.2	17.8	18.4	18.2	18.0		
MAX	161.0	129.5	106.3	103.4	92.5	92.5	99.9	102.7	124.7	157.0	190.4	202.9	259.8	232.8	201.5	189.1	210.0	216.0	192.4	163.8	162.7	157.8	162.5	160.9		



Number of 24HR Exceedences	3	Proposed Guideline	
Number of Non-Zero Readings	744		
Maximum 1-HR Average	259.8	UG/M3	
Maximum 24-HR Average	150.0	UG/M3	
IZS Calibration Time		Operational Time	744 HRS
Down Time	0	Operational Uptime	100.0 %
Standard Deviation	36.95	Monthly Average	17.4 UG/M3

West PM_{10} (µg/m^3) – May 2023

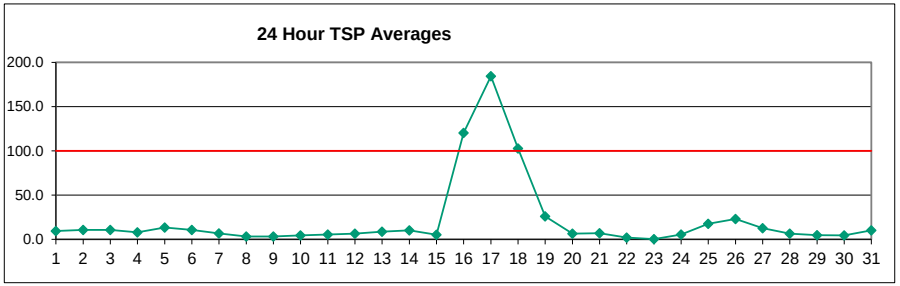
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	7.6	7.3	6.5	6.1	5.9	6.7	8.6	9.4	10.2	10.1	9.1	8.9	9.9	9.8	10.1	9.9	6.2	9.3	10.7	14.2	11.7	14.3	11.6	9.5	9.3	14.3
2	8.6	8.1	7.7	**7.6**	9.0	8.1	8.3	8.2	9.2	9.6	9.6	9.6	10.1	11.1	13.1	13.4	12.3	12.4	10.9	9.3	10.4	9.8	10.4	12.7	10.0	13.4
3	12.8	13.7	14.4	13.0	11.9	11.5	13.0	13.5	12.7	11.2	9.6	10.9	8.3	8.2	10.0	8.7	6.1	7.7	12.7	16.2	6.8	5.9	5.2	6.4	10.4	16.2
4	6.5	6.8	6.6	6.4	6.2	6.3	7.6	8.7	9.5	8.9	6.8	15.9	12.5	11.8	7.5	9.7	10.9	8.8	6.4	5.0	4.8	4.1	4.1	4.3	7.8	15.9
5	4.4	4.1	3.5	4.3	4.2	3.8	5.4	4.8	8.1	14.0	16.7	10.3	13.1	17.7	21.0	17.9	23.2	17.5	19.4	19.9	14.0	14.1	12.0	10.1	11.8	23.2
6	12.8	11.2	7.6	7.4	6.8	8.5	18.6	14.3	12.4	17.4	12.9	12.9	12.2	11.3	10.6	6.6	6.9	4.7	9.9	7.3	6.6	5.6	4.0	9.7	9.9	18.6
7	6.3	7.3	8.0	7.3	13.4	9.4	11.1	12.3	10.5	4.6	0.9	0.6	0.4	0.4	0.7	14.7	17.9	8.7	5.6	7.5	3.4	1.9	0.9	0.8	6.4	17.9
8	1.0	0.9	0.9	0.7	0.8	0.8	0.6	0.8	0.6	0.4	0.8	1.0	3.4	9.5	11.3	16.2	9.7	1.6	1.9	2.6	2.2	2.3	1.7	1.8	3.1	16.2
9	1.3	1.0	1.1	1.0	1.2	1.2	1.1	1.1	1.2	1.3	1.7	2.4	3.6	8.3	10.3	5.0	4.1	3.0	9.3	8.9	3.0	3.0	3.6	2.8	3.4	10.3
10	2.8	2.5	2.9	2.2	1.7	1.9	2.0	2.0	2.4	3.0	6.3	15.3	11.7	7.3	8.4	8.6	6.5	3.3	3.1	2.8	2.8	2.7	2.7	3.0	4.5	15.3
11	3.2	3.8	3.4	3.4	3.5	3.4	3.8	4.7	5.4	4.1	2.6	4.2	10.0	8.3	8.6	5.7	3.0	3.2	10.0	7.4	8.2	11.9	5.0	3.9	5.4	11.9
12	3.8	3.2	3.1	2.8	2.8	2.7	3.1	4.0	4.9	3.8	2.8	2.5	3.1	2.9	4.0	13.0	7.7	11.6	11.2	8.3	8.8	8.9	14.0	13.2	6.1	14.0
13	9.0	6.3	5.9	5.8	5.0	4.6	4.1	4.0	4.5	4.5	4.8	5.9	8.2	6.9	7.5	8.3	10.6	13.4	11.1	12.1	12.2	14.7	14.9	15.8	8.3	15.8
14	13.3	10.1	10.6	10.2	9.2	8.2	7.5	7.2	7.7	10.4	12.4	11.0	9.6	8.8	8.2	10.7	12.7	15.9	10.3	5.6	6.3	9.2	9.4	8.4	9.7	15.9
15	8.6	8.1	7.3	6.5	5.8	5.6	6.7	7.1	8.7	5.7	4.4	2.7	13.4	7.5	2.3	4.4	2.0	1.1	1.1	1.5	5.0	4.0	3.5	2.9	5.2	13.4
16	3.0	3.3	4.1	4.1	3.8	5.1	7.3	9.9	11.0	11.3	44.5	297.1	361.1	262.6	201.5	205.9	222.0	176.4	192.6	183.8	202.0	163.9	149.6	146.1	119.7	361.1
17	101.0	101.9	106.4	108.2	88.6	116.3	109.4	125.6	170.9	203.9	242.5	234.9	219.5	235.2	215.4	256.6	264.6	250.7	223.7	231.4	218.9	201.1	232.5	165.9	184.4	264.6
18	173.7	129.5	106.3	89.0	92.5	92.5	99.9	101.3	118.4	115.1	106.0	161.5	151.3	118.5	91.7	89.3	81.8	78.8	71.1	67.7	88.2	85.5	74.2	51.2	101.5	173.7
19	50.6	49.4	47.8	42.9	38.2	38.8	38.6	45.8	45.8	26.7	15.5	15.4	9.6	13.2	7.7	6.1	5.7	4.9	4.1	4.1	5.5	29.6	37.8	36.3	25.8	50.6
20	18.4	12.3	9.1	7.7	7.6	7.4	6.5	6.2	6.7	5.8	4.6	4.4	4.0	3.0	2.8	3.8	4.6	3.3	3.5	4.0	5.5	9.3	7.9	8.9	6.5	18.4
21	10.2	8.9	8.9	9.2	9.7	8.9	8.4	9.0	9.0	7.3	5.4	3.6	4.0	3.5	2.9	3.8	4.0	4.4	4.4	10.0	15.3	6.6	4.2	5.5	7.0	15.3
22	4.1	3.4	2.9	2.8	3.0	3.0	2.8	3.3	3.5	3.6	3.6	3.5	1.8	1.1	1.4	2.3	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.3	2.1	4.1
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	1.2	0.4	0.3	0.7	1.1	1.2	1.0	0.4	1.2
24	1.5	1.3	0.9	1.0	1.1	1.0	2.5	3.8	2.6	4.1	2.3	1.6	1.4	1.4	1.5	1.7	10.7	16.8	12.2	9.8	10.5	14.3	13.1	10.9	5.3	16.8
25	10.9	13.6	12.9	19.1	19.2	17.3	16.3	19.6	18.5	29.7	22.7	21.3	15.9	15.6	15.3	14.5	13.8	22.5	26.2	15.6	16.0	22.4	10.2	11.8	17.5	29.7
26	13.3	15.6	15.3	15.2	15.4	14.7	13.0	12.9	13.8	14.2	24.4	29.0	24.2	23.2	20.4	28.6	28.8	30.3	30.6	30.6	31.2	31.9	30.7	29.6	22.4	31.9
27	18.4	17.4	16.1	14.4	12.1	10.4	10.0	9.3	9.7	9.4	8.4	10.3	12.4	7.8	10.8	11.2	9.2	9.1	10.3	10.3	10.2	25.5	18.2	16.0	12.4	25.5
28	14.0	10.1	8.6	7.9	7.2	7.8	7.1	7.6	7.2	5.7	4.7	4.3	5.5	4.0	4.0	2.9	3.6	3.4	3.0	3.0	3.1	8.1	7.9	13.8	6.4	14.0
29	9.0	9.6	8.1	5.4	4.6	4.3	6.7	9.7	6.9	3.8	3.9	4.3	3.6	3.3	5.9	2.4	3.5	2.8	2.4	3.2	2.9	3.6	3.7	3.8	4.9	9.7
30	4.0	3.8	3.8	4.0	4.3	4.8	5.0	6.5	6.5	5.2	4.7	4.0	3.6	2.4	6.8	2.7	4.1	3.4	3.1	3.3	4.7	6.7	7.7	5.3	4.6	7.7
31	5.1	5.2	6.8	5.5	4.7	5.1	6.0	7.3	7.3	6.2	9.4	8.5	7.1	13.9	14.2	12.1	12.4	12.2	10.3	23.2	13.2	9.6	11.1	14.3	9.6	23.2
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	17.4	15.5	14.4	13.6	12.9	13.6	14.2	15.5	17.6	18.1	19.5	29.6	30.8	27.1	23.8	25.7	26.1	24.0	23.6	23.5	23.7	23.6	23.0	20.2		
MAX	173.7	129.5	106.4	108.2	92.5	116.3	109.4	125.6	170.9	203.9	242.5	297.1	361.1	262.6	215.4	256.6	264.6	250.7	223.7	231.4	218.9	201.1	232.5	165.9		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	361.1 UG/M3		
Maximum 24-HR Average	184.4 UG/M3		
IZS Calibration Time		OperatioEl Time	744 HRS
Down Time	0	OperatioEl Uptime	100.0 %
Standard Deviation	45.9	Monthly Average	20.7 UG/M3

West TSP (µg/m^3) – May 2023

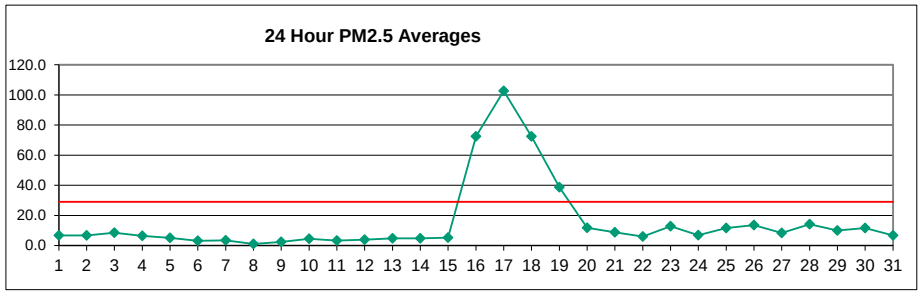
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	7.6	7.3	6.5	6.1	5.9	6.7	8.6	9.4	10.2	10.1	9.1	8.9	9.9	9.8	10.1	9.9	6.2	9.4	11.6	16.1	12.6	15.9	11.6	9.5	9.5	16.1
2	8.6	8.1	7.7	**7.6**	9.0	8.1	8.3	8.2	9.2	9.6	9.6	10.0	10.5	11.9	14.9	15.3	14.1	14.0	12.5	10.7	12.0	11.4	12.1	14.8	10.8	15.3
3	12.8	13.7	14.4	13.0	11.9	11.5	13.0	13.5	13.1	12.2	9.8	10.9	8.3	8.2	11.0	9.6	6.1	7.9	14.3	18.5	6.8	5.9	5.2	6.4	10.8	18.5
4	6.5	6.8	6.6	6.4	6.2	6.3	7.6	8.7	9.5	8.9	6.8	18.1	13.9	12.9	7.6	10.7	11.2	8.8	6.4	5.0	4.8	4.1	4.1	4.3	8.0	18.1
5	4.4	4.1	3.5	4.3	4.2	3.8	5.4	4.8	8.1	15.8	19.2	11.7	14.9	20.5	24.4	20.7	26.9	20.2	22.5	23.1	16.3	16.2	13.9	11.4	13.3	26.9
6	14.5	12.7	8.4	8.0	7.4	9.4	21.3	16.4	14.2	20.0	14.5	14.8	13.1	11.3	10.6	6.6	6.9	4.7	9.9	7.3	6.6	5.6	4.0	9.7	10.7	21.3
7	6.3	7.3	8.0	7.3	13.4	9.4	11.1	12.3	10.5	4.6	0.9	0.6	0.4	0.4	0.7	16.9	20.5	9.4	5.6	7.5	3.4	1.9	0.9	0.8	6.7	20.5
8	1.0	0.9	0.9	0.7	0.8	0.8	0.6	0.8	0.6	0.4	0.8	1.0	3.4	9.5	12.5	18.3	10.4	1.6	1.9	2.6	2.2	2.3	1.7	1.8	3.2	18.3
9	1.3	1.0	1.1	1.0	1.2	1.2	1.1	1.1	1.2	1.3	1.7	2.4	3.6	8.3	10.3	5.0	4.1	3.0	9.3	8.9	3.0	3.0	3.6	2.8	3.4	10.3
10	2.8	2.5	2.9	2.2	1.7	1.9	2.0	2.0	2.4	3.0	6.3	16.1	11.7	7.3	8.4	8.6	6.5	3.3	3.1	2.8	2.8	2.7	2.7	3.0	4.5	16.1
11	3.2	3.8	3.4	3.4	3.5	3.4	3.8	4.7	5.4	4.1	2.6	4.2	10.9	8.6	9.7	5.7	3.0	3.2	10.8	7.4	8.2	11.9	5.0	3.9	5.6	11.9
12	3.8	3.2	3.1	2.8	2.8	2.7	3.1	4.0	4.9	3.8	2.8	2.5	3.1	2.9	4.0	14.7	7.8	13.3	12.4	8.3	8.9	9.8	15.8	13.8	6.4	15.8
13	9.0	6.3	5.9	5.8	5.0	4.6	4.1	4.0	4.5	4.5	4.8	5.9	8.2	6.9	7.5	8.3	11.7	15.2	12.8	13.7	12.2	15.3	17.1	18.4	8.8	18.4
14	14.7	10.1	10.6	10.2	9.2	8.2	7.5	7.2	7.7	10.4	13.8	12.6	10.5	8.8	8.4	11.5	14.3	18.1	11.4	5.6	6.3	9.2	9.4	8.4	10.2	18.1
15	8.6	8.1	7.3	6.5	5.8	5.6	6.7	7.1	9.3	5.7	4.4	2.7	15.2	8.3	2.3	4.6	2.0	1.1	1.1	1.5	5.2	4.0	3.5	2.9	5.4	15.2
16	3.0	3.3	4.1	4.1	3.8	5.1	7.3	10.2	11.5	12.7	45.7	308.4	361.1	262.6	201.5	205.9	222.0	176.4	195.6	183.8	202.0	163.9	149.6	146.1	**120.4**	361.1
17	101.0	101.9	106.4	108.2	88.6	116.3	109.4	125.6	170.9	203.9	242.5	234.9	219.5	235.2	215.4	256.6	264.6	250.7	223.7	234.1	218.9	201.1	232.5	165.9	**184.5**	264.6
18	173.7	129.5	106.3	89.0	92.5	92.5	99.9	101.3	118.4	115.1	106.0	161.5	153.2	125.5	100.9	97.6	86.9	79.8	71.1	67.7	88.2	85.5	74.2	51.2	**102.8**	173.7
19	50.6	49.4	47.8	42.9	38.2	38.8	38.6	45.8	45.8	26.7	15.5	15.4	9.6	16.8	7.7	6.1	5.7	4.9	4.1	4.1	5.5	29.6	43.0	36.3	26.2	50.6
20	18.4	12.3	9.1	7.7	7.6	7.4	6.5	6.2	6.7	5.8	4.6	4.4	4.0	3.0	2.8	3.8	4.6	3.3	3.5	4.0	5.5	9.3	7.9	8.9	6.5	18.4
21	10.2	8.9	8.9	9.2	9.7	8.9	8.4	9.0	9.0	7.3	5.4	3.6	4.0	3.5	2.9	3.8	4.0	4.4	4.4	10.0	15.3	6.6	4.2	5.5	7.0	15.3
22	4.1	3.4	2.9	2.8	3.0	3.0	2.8	3.3	3.5	3.6	3.6	3.5	1.8	1.1	1.4	2.3	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.3	2.1	4.1
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	1.2	0.4	0.3	0.7	1.1	1.2	1.0	0.4	1.2
24	1.5	1.3	0.9	1.0	1.1	1.0	2.5	3.8	2.6	4.1	2.3	1.6	1.4	1.4	1.5	1.7	11.9	19.6	14.2	10.9	10.5	14.3	13.1	10.9	5.6	19.6
25	10.9	13.6	12.9	19.1	19.2	17.3	16.3	19.6	18.5	29.7	22.7	21.3	15.9	15.6	15.3	14.5	13.8	24.6	26.2	15.6	16.0	22.4	10.2	11.8	17.6	29.7
26	13.3	15.6	15.3	15.2	15.4	14.7	13.0	12.9	13.8	14.2	24.4	30.5	25.9	24.7	20.4	30.6	30.7	32.4	30.6	30.6	31.2	33.9	35.3	29.6	23.1	35.3
27	18.4	17.4	16.1	14.4	12.1	10.4	10.0	9.3	9.7	9.4	8.4	10.3	12.4	7.8	12.0	12.8	9.2	9.1	10.3	10.3	10.2	28.0	18.8	16.0	12.6	28.0
28	14.0	10.1	8.6	7.9	7.2	7.8	7.1	7.6	7.2	5.7	4.7	4.3	5.5	4.0	4.0	2.9	3.6	3.4	3.0	3.0	3.1	8.1	7.9	15.8	6.5	15.8
29	9.0	9.6	8.1	5.4	4.6	4.3	6.7	9.7	6.9	3.8	3.9	4.3	3.6	3.3	5.9	2.4	3.5	2.8	2.4	3.2	2.9	3.6	3.7	3.8	4.9	9.7
30	4.0	3.8	3.8	4.0	4.3	4.8	5.0	6.5	6.5	5.2	4.7	4.0	3.6	2.4	6.8	2.7	4.1	3.4	3.1	3.3	4.7	6.7	7.7	5.3	4.6	7.7
31	5.1	5.2	6.8	5.5	4.7	5.1	6.0	7.3	7.3	6.2	9.4	8.5	7.1	15.8	16.3	13.2	13.5	13.3	11.1	27.0	14.9	9.6	11.1	15.4	10.2	27.0
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%
MEAN	17.5	15.5	14.5	13.6	12.9	13.6	14.3	15.6	17.7	18.3	19.7	30.3	31.2	27.7	24.4	26.6	26.8	24.6	24.2	24.1	23.9	24.0	23.6	20.5		
MAX	173.7	129.5	106.4	108.2	92.5	116.3	109.4	125.6	170.9	203.9	242.5	308.4	361.1	262.6	215.4	256.6	264.6	250.7	223.7	234.1	218.9	201.1	232.5	165.9		



Number of 24HR Exceedences	3	Proposed Guideline	
Number of Non-Zero Readings	744		
Maximum 1-HR Average	361.1	UG/M3	
Maximum 24-HR Average	184.5	UG/M3	
IZS Calibration Time		Operational Time	744 HRS
Down Time	0	Operational Uptime	100.0 %
Standard Deviation	46.12	Monthly Average	21.0 UG/M3

Berm $PM_{2.5}$ (µg/m^3) – May 2023

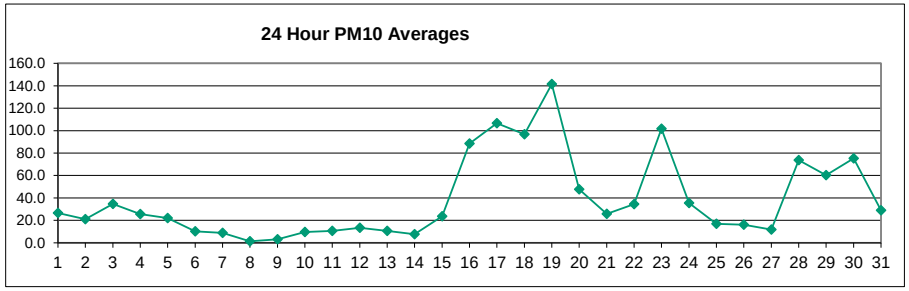
DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	4.7	5.3	6.2	5.3	5.0	5.5	12.2	11.2	13.2	13.5	11.9	9.7	8.6	5.7	4.3	4.3	4.8	4.3	5.8	4.2	4.2	4.6	4.1	4.4	6.8	13.5
2	4.5	4.6	4.4	4.2	4.9	5.7	8.7	10.6	11.0	9.1	9.5	6.4	6.6	6.3	6.1	6.0	6.8	6.5	6.7	7.2	6.7	6.9	7.3	6.9	6.8	11.0
3	8.2	7.9	8.6	9.9	10.0	10.4	10.2	11.0	10.7	11.8	13.1	10.4	11.1	6.2	8.0	10.7	7.6	3.9	3.2	3.5	10.7	7.7	5.4	4.8	8.5	13.1
4	3.5	3.5	3.8	4.4	4.8	5.4	13.7	12.8	16.5	14.3	10.6	6.3	5.1	5.2	5.3	9.0	6.4	5.3	3.5	4.4	3.1	3.0	2.9	3.2	6.5	16.5
5	2.1	2.1	2.9	2.7	3.4	3.3	4.7	6.8	12.1	6.4	4.9	4.9	5.2	5.0	5.5	5.9	9.1	8.1	6.3	5.7	4.9	4.0	4.0	3.9	5.2	12.1
6	3.8	3.5	3.8	3.4	4.2	3.2	3.6	4.2	4.1	4.1	6.7	4.7	4.6	3.3	2.4	1.2	1.0	1.5	2.3	2.0	1.6	1.7	2.0	2.2	3.1	6.7
7	2.3	2.1	1.9	2.2	3.0	4.2	7.9	10.1	7.7	6.4	10.4	4.6	3.6	4.2	5.0	1.6	0.7	1.3	1.7	1.4	0.7	0.5	0.6	0.4	3.5	10.4
8	0.5	0.9	0.5	0.4	0.6	0.5	0.5	0.9	0.6	0.4	0.7	2.8	3.7	3.3	3.2	0.6	0.7	0.6	0.6	0.7	1.3	1.5	1.0	1.5	1.2	3.7
9	1.8	0.9	0.8	0.7	1.8	0.9	2.1	2.1	2.3	1.9	2.4	2.8	4.8	3.9	2.7	4.9	4.6	2.6	3.3	3.0	1.9	1.8	1.8	1.5	2.4	4.9
10	2.2	2.5	2.3	1.4	2.6	1.3	2.2	3.8	3.8	10.0	9.4	6.6	5.8	3.5	4.4	5.2	5.5	16.0	6.5	4.1	2.0	2.1	2.1	2.0	4.5	16.0
11	1.9	2.2	2.2	2.4	2.4	3.1	4.8	5.0	4.1	6.0	10.3	6.6	2.7	2.6	7.9	3.0	4.0	2.3	1.9	1.1	1.2	1.2	1.2	1.4	3.4	10.3
12	1.6	1.4	2.4	2.7	2.1	2.3	3.9	5.0	6.3	9.1	7.0	3.8	5.4	3.8	3.0	2.7	4.0	2.7	3.8	3.7	4.2	4.8	5.0	5.0	4.0	9.1
13	5.3	4.3	4.5	4.9	4.6	4.3	4.0	4.0	4.2	5.9	7.3	8.6	3.8	2.9	2.3	2.4	2.7	3.4	5.1	6.3	6.6	6.0	6.4	5.0	4.8	8.6
14	5.1	6.0	4.8	5.5	7.1	6.6	6.6	6.9	6.4	9.3	7.2	5.8	4.3	2.9	2.6	3.2	3.2	2.6	2.2	2.4	3.9	4.2	3.5	2.6	4.8	9.3
15	2.2	3.2	3.9	4.5	5.0	4.6	4.7	8.2	9.2	8.7	14.7	6.0	2.8	2.3	2.0	1.8	10.9	18.6	5.5	1.5	1.2	1.2	1.8	2.2	5.3	18.6
16	2.6	4.0	4.6	3.6	3.4	5.6	5.3	12.8	13.7	15.7	60.8	139.9	216.7	184.6	170.0	159.7	134.2	101.1	99.9	107.8	96.6	65.2	66.1	64.4	72.4	216.7
17	78.4	75.0	65.9	64.4	40.8	45.2	57.9	77.8	83.0	105.1	136.1	128.4	130.5	142.8	150.6	137.6	167.2	147.3	128.7	106.8	113.1	93.6	87.4	101.6	102.7	167.2
18	94.1	70.3	64.7	65.9	50.4	84.2	102.8	125.4	123.8	122.1	118.4	101.4	86.4	68.9	58.1	54.4	46.6	43.1	43.1	46.0	45.0	44.1	39.2	41.6	72.5	125.4
19	48.3	47.4	46.2	43.2	44.3	42.7	42.6	48.1	45.8	56.1	79.7	83.8	57.9	35.3	54.7	30.1	27.2	24.5	14.9	9.2	5.9	20.0	9.6	12.8	38.8	83.8
20	19.0	14.1	10.6	8.4	7.1	6.7	18.2	8.6	13.3	13.6	10.0	9.6	10.8	13.0	23.2	25.4	16.7	9.5	9.6	14.6	4.5	5.3	4.9	6.4	11.8	25.4
21	7.1	10.3	7.6	8.3	9.9	8.3	8.1	8.9	8.2	13.5	19.6	6.7	3.9	4.9	7.5	8.4	5.5	5.2	5.3	10.1	14.6	15.3	6.5	8.4	8.8	19.6
22	6.2	4.4	3.2	2.8	2.3	2.8	4.4	4.1	3.6	3.2	3.0	4.8	15.3	10.8	8.1	51.0	5.2	4.8	0.7	0.6	0.5	0.6	0.9	0.7	6.0	51.0
23	0.6	3.1	3.7	4.4	7.4	14.7	14.8	16.3	14.4	24.9	28.4	21.7	26.5	13.2	17.5	16.9	7.5	24.5	26.4	15.2	0.5	0.7	4.2	0.7	12.8	28.4
24	0.6	0.6	0.7	0.5	0.8	0.8	1.3	3.3	4.8	9.8	7.5	31.9	14.6	25.6	12.5	4.3	10.9	3.8	3.6	4.1	4.8	7.0	5.5	6.5	6.9	31.9
25	3.8	4.9	6.7	10.5	12.4	12.9	12.7	15.1	23.6	18.9	14.5	11.0	15.8	13.8	13.4	16.8	14.5	12.4	12.5	9.8	9.5	7.7	3.3	3.0	11.6	23.6
26	8.3	13.2	15.5	16.4	17.2	13.7	13.2	10.6	12.9	17.7	17.1	15.3	12.3	12.5	14.2	12.2	14.8	12.7	13.2	14.3	13.0	11.7	12.8	12.4	13.6	17.7
27	10.8	11.3	12.6	15.2	12.1	10.5	9.7	9.9	9.5	9.8	8.0	7.0	7.0	4.8	5.4	6.0	5.8	5.6	5.9	6.1	6.9	6.6	5.2	8.8	8.3	15.2
28	6.2	7.4	6.6	7.2	6.9	7.8	9.2	6.6	11.7	16.4	23.9	15.6	14.4	15.6	27.4	26.3	37.7	19.2	17.2	28.8	10.0	6.2	6.0	6.3	14.2	37.7
29	5.6	5.6	5.3	4.6	4.1	3.4	6.7	5.5	5.2	18.5	8.0	12.6	14.0	12.0	71.1	12.0	5.8	7.8	7.2	12.6	4.8	2.9	3.2	3.9	10.1	71.1
30	3.7	3.3	2.5	2.8	3.2	4.3	8.2	10.5	12.5	12.4	42.7	8.3	23.2	12.2	24.3	19.2	16.0	16.3	26.9	16.0	2.9	2.8	2.9	3.9	11.7	42.7
31	3.3	3.9	2.3	2.4	5.0	9.4	12.1	8.0	12.2	11.9	23.8	7.3	4.9	5.5	5.6	5.3	4.5	4.4	3.5	3.1	3.7	6.4	6.4	7.2	6.8	23.8
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	11.2	10.6	10.1	10.2	9.3	10.8	13.5	15.3	16.5	18.9	23.5	22.4	23.6	20.5	23.5	20.9	19.1	16.8	15.4	14.7	12.6	11.2	10.1	10.8		
MAX	94.1	75.0	65.9	65.9	50.4	84.2	102.8	125.4	123.8	122.1	136.1	139.9	216.7	184.6	170.0	159.7	167.2	147.3	128.7	107.8	113.1	93.6	87.4	101.6		



Number of 24HR Exceedences	4	Proposed Guideline	
Number of Non-Zero Readings	744		
Maximum 1-HR Average	216.7 UG/M3		
Maximum 24-HR Average	102.7 UG/M3		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	28.1	Monthly Average	15.5 UG/M3

Berm PM_{10} ($\mu g/m^3$) – May 2023

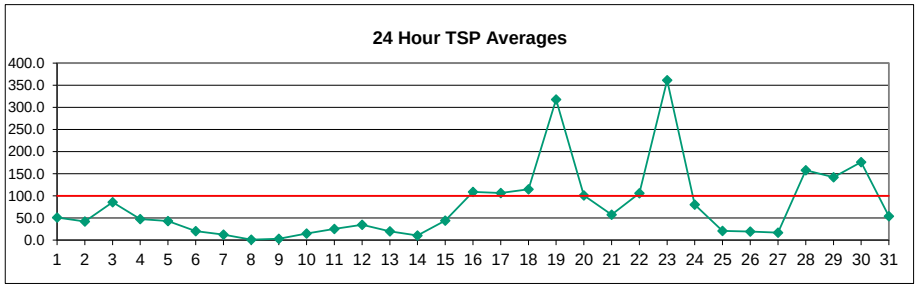
DAY \ HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	4.7	8.3	18.7	8.0	6.8	9.9	68.9	56.6	73.5	81.4	55.1	35.3	42.6	23.6	13.1	14.2	19.2	15.6	28.8	11.9	10.8	11.3	9.3	8.4	26.5	81.4
2	7.5	7.5	6.7	6.1	6.5	14.4	33.3	46.0	45.6	36.3	34.6	19.2	24.4	24.4	23.4	20.7	24.0	21.4	22.1	21.8	15.0	15.0	17.0	13.9	21.1	46.0
3	19.2	15.7	16.8	26.1	28.7	32.5	32.6	41.1	38.7	48.8	67.0	49.3	66.6	28.6	39.6	71.0	40.5	17.6	7.2	8.7	67.4	38.0	18.2	13.7	34.7	71.0
4	6.8	5.2	5.7	6.9	8.1	10.5	66.3	71.1	84.5	74.0	50.1	27.6	20.4	23.2	25.4	55.3	22.1	12.6	5.5	9.8	5.8	6.1	5.3	4.7	25.5	84.5
5	2.1	2.1	2.9	2.7	3.8	3.5	6.4	10.0	29.8	22.8	23.6	27.4	26.3	25.2	31.1	37.6	59.1	49.5	34.6	34.7	29.9	22.8	21.1	21.0	22.1	59.1
6	19.6	16.2	16.5	11.4	13.3	11.6	13.4	16.2	17.2	17.9	34.0	18.8	13.8	6.4	3.0	1.2	1.0	1.5	2.3	2.0	1.6	1.7	2.0	2.2	10.2	34.0
7	2.3	2.1	1.9	2.2	3.0	4.2	7.9	10.1	7.7	18.6	44.1	18.8	20.2	27.4	24.6	4.9	1.0	2.2	2.8	2.3	0.7	0.5	0.6	0.4	8.8	44.1
8	0.5	1.0	0.5	0.4	0.6	0.5	0.5	0.9	0.6	0.4	0.7	3.0	3.7	3.3	4.2	0.6	1.3	0.6	0.6	0.7	1.3	1.5	1.0	1.5	1.2	4.2
9	1.8	0.9	0.8	0.7	1.8	0.9	2.7	2.7	3.0	2.0	2.5	3.3	16.1	3.9	2.7	4.9	5.9	2.6	3.3	3.0	1.9	1.8	1.8	1.5	3.0	16.1
10	2.2	2.5	2.3	1.4	3.2	1.3	2.2	5.1	4.9	10.0	22.9	8.3	7.6	5.4	8.2	8.1	9.6	86.5	22.8	9.4	2.0	2.1	2.1	2.0	9.7	86.5
11	1.9	2.2	2.2	2.4	2.4	3.1	5.6	7.0	7.9	28.9	71.8	32.2	5.5	3.9	36.5	12.1	15.2	5.9	4.1	1.1	1.2	1.2	1.2	1.4	10.7	71.8
12	1.6	1.4	2.4	2.7	2.1	2.3	6.6	24.1	39.3	82.6	46.0	10.1	24.2	11.9	6.0	4.7	16.4	4.2	8.5	4.8	5.7	5.0	5.0	5.6	13.5	82.6
13	7.5	4.3	5.1	8.5	7.4	5.7	6.2	8.2	11.6	29.0	31.4	46.1	9.9	5.3	4.0	5.4	7.6	8.3	8.8	8.0	7.4	6.0	7.5	5.0	10.6	46.1
14	5.1	6.2	4.8	5.5	7.4	7.4	9.1	14.5	10.5	22.6	14.2	9.4	7.4	4.5	5.0	6.4	6.3	3.9	3.4	3.9	8.6	7.9	5.0	2.6	7.6	22.6
15	2.2	3.5	5.0	5.3	5.2	7.0	8.3	37.8	50.3	49.8	83.8	33.8	10.8	10.2	10.3	7.2	75.4	117.5	26.8	4.9	2.1	1.9	4.6	4.7	23.7	117.5
16	5.8	14.3	18.7	8.3	6.5	21.7	21.5	62.5	88.1	103.7	123.0	139.9	216.7	184.6	170.0	159.8	142.5	115.9	106.2	122.7	97.2	65.2	66.1	64.4	88.6	216.7
17	88.5	78.5	65.9	64.4	40.8	45.2	57.9	119.9	96.6	114.2	136.1	128.4	140.4	146.2	154.5	137.6	167.2	147.3	128.7	106.8	113.1	93.6	87.4	101.6	106.7	167.2
18	94.1	70.3	64.7	65.9	50.4	101.5	102.8	223.7	217.9	210.9	230.1	118.4	107.2	90.7	83.9	73.9	66.0	61.2	62.3	56.0	45.0	44.1	39.2	41.6	96.7	230.1
19	48.3	50.0	49.8	43.9	61.0	43.6	57.1	93.5	90.4	289.3	491.4	543.6	375.1	188.8	280.6	195.1	153.9	153.4	76.1	40.5	12.2	33.5	13.3	12.9	141.5	543.6
20	19.0	14.1	11.4	8.4	7.1	6.7	56.9	21.3	73.8	94.8	48.9	58.2	72.2	96.9	157.8	121.2	80.8	41.0	40.4	80.4	6.7	10.3	6.9	7.6	47.6	157.8
21	8.4	20.2	7.7	11.3	15.0	10.8	11.3	19.7	14.8	54.4	96.2	25.8	8.9	17.4	36.9	44.2	17.8	15.9	15.4	21.1	17.9	70.2	27.7	28.5	25.7	96.2
22	14.9	9.0	3.4	3.4	2.3	3.2	12.0	8.7	5.6	4.7	4.2	21.5	112.8	80.0	51.0	408.5	35.7	33.4	1.4	1.1	0.8	1.3	3.0	3.7	34.4	408.5
23	2.7	20.9	26.3	20.8	56.2	144.1	111.1	142.6	109.6	214.7	241.2	178.4	199.5	102.9	136.6	134.5	50.2	212.5	187.2	120.3	0.5	2.5	25.4	1.4	101.8	241.2
24	1.2	1.0	1.1	0.5	1.5	1.7	4.7	18.2	32.2	60.8	56.0	226.2	94.4	126.9	97.7	23.2	41.7	11.9	8.4	10.9	9.3	7.0	5.5	6.5	35.4	226.2
25	3.8	4.9	6.7	10.5	12.4	12.9	12.7	15.1	28.9	22.1	16.4	11.0	29.3	25.1	25.2	57.0	43.2	18.4	14.6	9.8	12.0	7.7	3.3	3.0	16.9	57.0
26	8.3	13.2	15.5	16.4	17.2	13.7	13.2	10.6	16.8	47.4	37.6	18.2	14.8	12.5	16.4	12.2	14.8	12.7	13.2	14.3	13.0	11.7	12.8	12.4	16.2	47.4
27	10.8	11.3	12.6	15.6	15.0	15.1	14.0	14.2	14.9	17.4	14.4	11.8	11.2	6.8	10.6	10.4	11.0	8.8	8.2	9.2	11.3	8.1	5.2	15.9	11.8	17.4
28	6.2	8.9	6.6	8.5	7.8	13.9	28.1	10.0	60.9	100.6	171.7	92.8	97.2	73.7	202.1	174.8	216.3	113.0	112.4	185.7	43.9	15.9	8.4	8.9	73.7	216.3
29	6.7	6.5	5.3	4.7	6.0	4.4	25.6	26.8	24.4	118.1	47.2	92.9	98.5	83.6	568.7	97.5	24.0	45.3	41.3	84.3	18.4	4.3	5.2	8.0	60.3	568.7
30	6.7	3.7	2.5	2.8	3.2	10.4	35.1	60.9	78.0	72.8	361.5	49.4	170.6	69.1	186.8	141.9	112.7	105.9	179.6	131.4	5.3	4.0	3.8	8.4	75.3	361.5
31	4.4	5.5	2.3	2.4	15.1	38.4	63.4	39.5	70.7	66.5	163.5	28.6	19.6	23.6	23.3	18.6	14.8	15.1	13.1	9.7	11.6	19.6	11.5	12.1	28.9	163.5
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	13.4	13.3	12.7	12.2	13.5	19.4	28.9	39.9	46.7	68.3	91.0	67.3	66.7	49.5	78.7	66.6	48.3	47.1	38.4	36.5	18.7	16.8	13.8	13.7		
MAX	94.1	78.5	65.9	65.9	61.0	144.1	111.1	223.7	217.9	289.3	491.4	543.6	375.1	188.8	568.7	408.5	216.3	212.5	187.2	185.7	113.1	93.6	87.4	101.6		



Number of Non-Zero Readings	744		
Maximum 1-HR Average	568.7 UG/M3		
Maximum 24-HR Average	141.5 UG/M3		
		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	61.71	Monthly Average	38.4 UG/M3

Berm TSP (µg/m^3) – May 2023

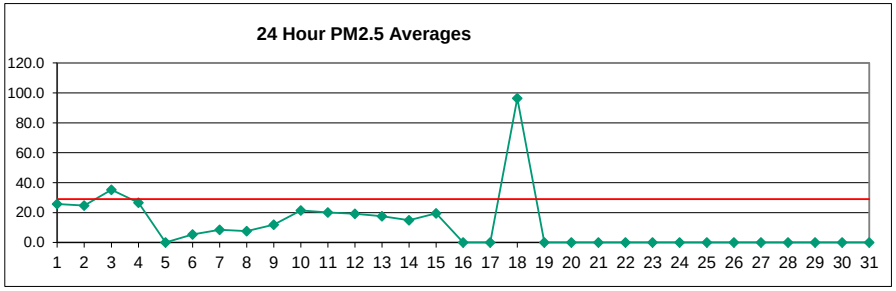
DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	4.7	15.4	80.6	10.3	9.2	17.8	190.9	109.4	155.9	157.4	83.0	41.0	60.4	44.8	29.8	29.8	42.9	26.3	42.1	18.4	17.3	16.9	14.3	9.6	51.2	190.9
2	7.6	8.2	7.5	6.5	6.5	23.5	63.8	80.9	71.3	58.8	52.8	41.4	63.9	78.8	76.5	55.3	78.9	57.1	53.5	43.1	19.8	22.1	22.7	17.0	42.4	80.9
3	29.1	22.9	34.4	57.0	69.1	69.4	87.4	80.6	93.6	99.4	136.4	109.1	122.8	78.5	147.4	264.5	147.5	65.0	12.0	16.8	175.7	88.8	28.6	23.3	85.8	264.5
4	11.4	6.9	10.7	7.3	13.0	14.5	97.2	148.8	168.0	149.7	81.5	49.6	38.3	45.5	41.5	100.4	56.4	23.1	7.0	23.1	14.5	14.0	10.0	8.7	47.6	168.0
5	2.1	2.1	2.9	2.7	3.8	3.5	6.4	10.1	42.3	42.7	49.8	59.1	48.6	50.8	61.0	74.7	114.0	94.5	69.9	71.8	76.8	45.4	50.7	55.7	43.4	114.0
6	44.0	47.4	45.1	21.8	21.2	20.1	26.2	30.3	33.8	34.9	68.2	41.6	27.4	10.0	3.0	1.2	1.0	1.5	2.3	2.0	1.6	1.7	2.0	2.2	20.4	68.2
7	2.3	2.1	1.9	2.2	3.0	4.2	7.9	10.1	7.7	30.4	60.7	24.4	34.1	55.8	32.0	6.5	1.4	2.2	2.8	3.1	0.7	0.5	0.6	0.4	12.4	60.7
8	0.5	1.0	0.5	0.4	0.6	0.5	0.5	0.9	0.6	0.4	0.7	3.0	3.7	3.3	4.5	0.6	1.9	0.6	0.6	0.7	1.3	1.5	1.0	1.5	1.3	4.5
9	1.8	0.9	0.8	0.7	1.8	0.9	2.7	2.7	3.0	2.0	2.5	3.3	21.6	3.9	2.7	4.9	5.9	2.6	3.3	3.0	1.9	1.8	1.8	1.5	3.3	21.6
10	2.2	2.5	2.3	1.4	3.2	1.3	2.2	5.1	4.9	10.0	29.5	9.1	13.7	6.8	10.3	8.3	17.4	183.2	29.6	11.6	2.0	2.1	2.1	2.0	15.1	183.2
11	1.9	2.2	2.2	2.4	2.4	3.1	5.6	7.0	11.1	80.3	243.6	77.7	8.2	5.0	87.9	20.6	29.9	9.7	8.4	1.1	1.2	1.2	1.2	1.4	25.6	243.6
12	1.6	1.4	2.4	2.7	2.1	2.3	10.7	70.3	140.5	315.8	111.7	18.3	48.6	17.4	9.7	8.3	26.7	4.3	12.1	4.8	6.7	5.0	5.0	5.6	34.7	315.8
13	8.7	4.3	5.1	12.9	12.4	5.7	7.1	21.1	37.9	97.4	80.5	74.6	12.4	8.2	4.4	7.5	12.6	12.3	15.1	8.0	7.4	6.0	7.5	5.0	19.8	97.4
14	5.1	6.2	4.8	5.5	7.4	7.4	13.6	31.4	15.2	27.7	20.9	10.2	10.4	11.5	7.5	15.8	6.5	7.1	6.8	4.7	11.0	11.8	5.9	2.6	10.7	31.4
15	2.2	3.5	5.0	5.3	5.2	10.1	13.1	96.2	110.0	127.6	167.1	61.9	18.6	17.5	21.0	9.1	132.2	191.5	36.8	6.1	2.6	2.0	7.1	5.8	44.1	191.5
16	11.6	42.4	61.1	26.0	11.0	56.0	64.2	141.3	197.2	205.2	143.5	139.9	216.7	184.6	170.0	159.8	142.5	117.5	106.2	126.1	97.2	65.2	66.1	64.4	109.0	216.7
17	92.2	78.5	65.9	64.4	40.8	45.2	57.9	119.9	96.6	114.2	136.1	128.4	140.4	146.2	154.5	137.6	167.2	147.3	128.7	106.8	113.1	93.6	87.4	101.6	106.9	167.2
18	94.1	70.3	64.7	65.9	50.4	111.4	102.8	270.1	377.7	333.2	309.7	118.4	107.2	92.8	93.8	73.9	68.5	64.5	68.6	56.0	45.0	44.1	39.2	41.6	115.1	377.7
19	48.3	50.0	49.8	43.9	72.6	43.6	69.1	143.2	127.3	635.9	1096.2	1466.8	972.4	500.9	658.2	514.7	390.1	414.2	166.0	72.5	16.4	53.1	13.3	12.9	318.0	1466.8
20	19.0	14.1	11.4	8.4	7.1	6.7	80.3	32.7	197.1	242.8	92.4	138.0	167.5	232.7	369.3	240.0	196.2	80.7	76.9	177.3	6.7	14.4	8.4	7.6	101.2	369.3
21	8.4	35.7	7.7	16.4	22.0	11.6	12.8	43.1	28.4	150.5	191.5	44.2	13.9	28.4	68.4	130.0	30.2	34.7	28.8	37.4	19.9	226.9	95.3	91.6	57.4	226.9
22	39.1	24.5	3.4	4.4	2.3	3.2	18.5	9.8	6.9	4.8	5.0	49.8	386.0	248.2	130.8	1265.0	157.0	134.5	1.4	1.8	2.4	4.0	13.3	25.3	105.9	1265.0
23	17.3	113.9	106.8	81.3	248.0	665.4	517.2	654.8	478.1	830.0	802.0	612.4	568.2	330.3	461.5	454.5	148.7	634.5	519.0	361.7	0.5	3.3	60.3	3.1	361.4	830.0
24	2.5	2.4	1.4	0.5	2.6	2.9	13.2	40.5	93.1	190.2	178.1	525.6	205.6	286.3	185.0	43.5	68.5	25.9	12.3	15.5	12.8	7.0	5.5	6.5	80.3	525.6
25	3.8	4.9	6.7	10.5	12.4	12.9	12.7	15.1	28.9	22.1	22.5	11.0	39.1	35.1	30.5	76.5	64.0	33.5	20.7	9.8	12.4	7.7	3.3	3.0	20.8	76.5
26	8.3	13.2	15.5	16.4	17.2	13.7	13.2	10.6	16.8	82.4	86.0	18.2	15.8	12.5	16.4	12.2	14.8	12.7	13.2	14.3	13.0	11.7	12.8	12.4	19.7	86.0
27	10.8	11.3	12.6	15.6	20.3	22.6	18.6	19.9	32.9	24.9	17.0	22.2	19.3	10.1	28.6	29.6	17.7	10.3	9.1	12.7	12.7	10.1	5.2	15.9	17.1	32.9
28	6.2	11.6	6.6	8.9	10.4	23.7	71.1	20.8	198.5	260.2	407.5	150.4	206.7	129.2	480.4	341.3	369.6	246.6	280.9	391.6	109.7	43.5	13.0	9.8	158.3	480.4
29	7.2	9.9	5.3	4.7	6.3	6.3	65.5	58.2	64.0	235.4	94.7	235.9	242.6	189.3	1256.4	372.0	48.4	120.3	99.1	236.0	32.4	4.3	7.1	13.8	142.3	1256.4
30	17.8	3.7	2.5	2.8	3.2	22.8	87.7	145.3	177.4	159.2	701.4	107.6	486.3	141.0	605.8	328.2	294.2	248.2	361.5	299.3	6.5	11.8	7.1	11.2	176.4	701.4
31	6.0	9.6	2.3	2.4	23.7	71.1	122.2	66.5	117.0	113.4	260.6	57.0	36.2	55.4	67.2	51.4	31.3	34.5	24.5	23.5	18.9	66.3	14.0	22.8	54.1	260.6
NO.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	744	100%
MEAN	16.7	20.1	20.3	16.5	22.9	42.1	60.1	80.5	101.1	156.1	184.9	143.5	140.5	98.7	171.5	156.1	93.0	98.1	71.6	69.7	27.8	28.6	19.7	18.9		
MAX	94.1	113.9	106.8	81.3	248.0	665.4	517.2	654.8	478.1	830.0	1096.2	1466.8	972.4	500.9	1256.4	1265.0	390.1	634.5	519.0	391.6	175.7	226.9	95.3	101.6		



Number of 24HR Exceedences	10	Proposed Guideline	
Number of Non-Zero Readings	744		
Maximum 1-HR Average	1466.8	UG/M3	
Maximum 24-HR Average	361.4	UG/M3	
IZS Calibration Time		Operational Time	744 HRS
Monthly Calibration	0	Operational Uptime	100.0 %
Standard Deviation	150.6	Monthly Average	77.5 UG/M3

Entrance $PM_{2.5}$ (µg/m^3) – May 2023

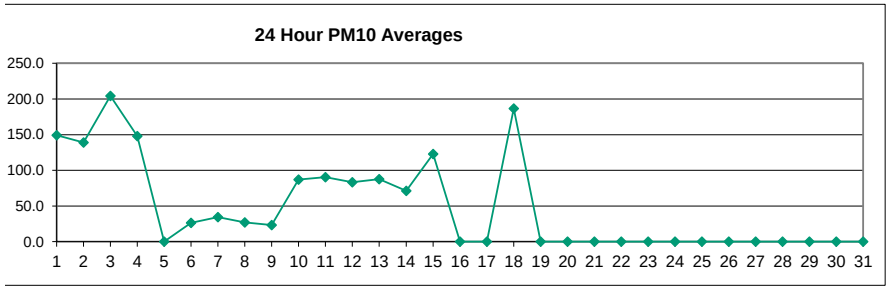
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	27.7	24.5	38.1	44.0	34.4	45.5	37.1	42.2	33.0	21.5	23.7	27.2	26.5	18.5	15.5	22.0	23.2	23.0	11.4	5.8	15.4	17.9	12.2	26.2	25.7	45.5
2	25.2	25.4	19.2	43.7	35.4	42.1	46.8	35.6	15.3	12.9	16.0	26.2	18.9	20.3	38.0	35.1	37.1	17.5	17.5	18.7	9.2	8.9	10.4	17.1	24.7	46.8
3	19.0	54.6	47.3	50.0	55.9	52.7	58.4	56.8	36.5	55.5	49.1	16.0	10.5	22.3	36.4	28.9	14.8	11.9	12.6	10.3	25.1	53.3	41.1	26.4	35.2	58.4
4	13.1	13.8	16.4	32.6	46.4	58.4	39.8	34.6	33.5	16.4	14.2	28.0	25.8	19.1	34.1	31.9	9.1	8.3	10.6	33.2	14.8	41.2	28.2	36.6	26.7	58.4
5	16.3	27.4	32.2	24.2	20.3	16.9	20.5	21.3	20.0	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
6	K	K	4.5	4.9	13.0	10.3	6.5	7.1	5.3	6.9	13.2	8.5	6.5	4.7	3.3	2.3	2.1	2.0	3.0	2.5	2.8	2.5	2.8	3.2	5.4	13.2
7	3.5	3.2	2.6	3.7	8.3	8.4	13.6	14.4	16.3	18.9	3.6	1.9	2.9	5.0	2.6	8.5	12.9	8.3	2.9	3.0	1.3	7.6	25.3	26.1	8.5	26.1
8	22.1	16.3	12.6	6.8	4.2	3.0	4.3	4.7	6.0	5.9	3.8	1.7	4.3	10.6	22.2	14.9	15.6	1.7	1.0	1.4	1.8	2.6	8.0	9.2	7.7	22.2
9	12.5	21.5	17.4	14.1	20.8	15.3	12.6	25.4	24.6	17.0	5.9	3.7	9.0	15.6	5.0	6.5	13.9	11.7	7.0	3.8	6.1	5.0	10.0	3.7	12.0	25.4
10	7.3	19.6	20.0	24.1	37.0	16.4	22.1	23.8	23.5	21.4	29.0	23.1	25.1	38.5	34.8	27.3	33.4	8.6	12.1	16.9	21.7	8.9	5.5	14.9	21.5	38.5
11	12.2	23.1	27.2	38.8	27.2	37.1	23.4	38.6	33.6	25.7	8.9	22.7	17.5	13.1	37.0	29.9	8.8	26.5	5.2	1.6	2.8	2.5	4.9	14.7	20.1	38.8
12	22.2	29.1	40.5	23.7	22.6	18.1	36.1	24.0	16.7	8.9	8.2	14.4	16.7	11.8	30.0	21.3	31.7	9.9	18.3	7.8	11.6	8.7	12.7	14.7	19.1	40.5
13	30.6	23.6	26.3	32.7	30.4	32.5	29.4	27.0	17.4	7.0	12.8	11.1	13.3	5.1	4.7	7.4	16.2	9.6	9.8	29.6	10.1	15.8	8.4	12.0	17.6	32.7
14	7.2	11.1	12.5	32.2	31.8	41.4	21.0	22.1	11.3	16.8	17.9	22.6	8.4	8.7	16.4	10.0	17.0	7.4	6.8	8.6	11.2	5.8	5.8	4.7	14.9	41.4
15	6.0	6.2	17.4	28.1	32.7	35.4	38.5	32.3	33.9	12.4	14.2	17.3	15.2	10.5	28.4	18.1	17.7	8.5	4.4	14.2	19.6	13.7	22.3	22.7	19.6	38.5
16	43.3	47.3	33.1	35.4	31.3	36.9	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
17	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
18	K	K	104.9	126.5	125.7	128.9	130.0	142.3	137.8	138.7	132.0	127.7	106.4	85.6	71.0	73.9	67.0	54.7	54.3	58.8	62.8	63.4	61.0	69.8	96.5	142.3
19	74.3	74.0	83.8	85.9	86.7	82.0	83.7	92.5	71.5	31.7	EC	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
20	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
21	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
22	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
23	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
24	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
25	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
26	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
27	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
28	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
29	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
30	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
31	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
NO.	16	16	18	18	18	18	17	17	17	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	381	51%
MEAN	21.4	26.3	30.9	36.2	36.9	37.8	36.7	37.9	31.5	26.1	23.5	23.5	20.5	19.3	25.3	22.5	21.4	14.0	11.8	14.4	14.4	17.2	17.2	20.1		
MAX	74.3	74.0	104.9	126.5	125.7	128.9	130.0	142.3	137.8	138.7	132.0	127.7	106.4	85.6	71.0	73.9	67.0	54.7	54.3	58.8	62.8	63.4	61.0	69.8		



Number of 24HR Exceedences	2	Proposed Guideline	
Number of Non-Zero Readings	381		
Maximum 1-HR Average	142.3	UG/M3	
Maximum 24-HR Average	96.5	UG/M3	
		Operational Time	381 HRS
Monthly Calibration	0	Operational Uptime	51.2 %
Standard Deviation	24.9	Monthly Average	25.0 UG/M3

Entrance PM_{10} (µg/m^3) – May 2023

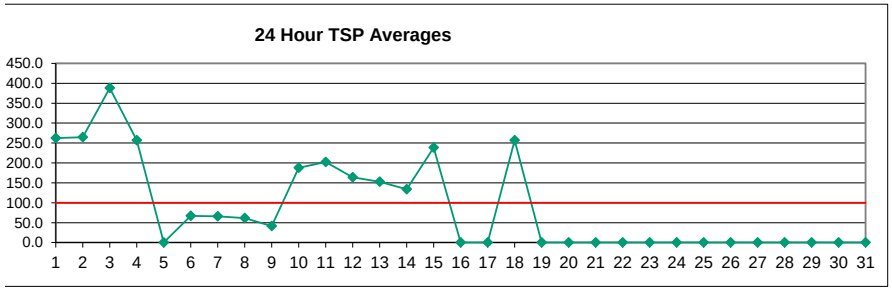
Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	141.9	106.5	171.5	255.7	157.6	209.3	194.1	199.3	148.5	93.3	121.5	165.2	205.3	138.0	118.0	170.7	195.9	194.0	88.2	21.7	128.5	172.5	61.0	125.1	149.3	255.7
2	109.9	115.0	85.5	221.2	148.1	182.9	223.4	174.9	65.3	59.5	92.4	190.3	118.7	148.9	310.0	265.7	272.2	133.0	127.4	122.1	25.5	24.3	30.5	94.2	139.2	310.0
3	75.9	243.0	219.5	248.6	324.9	279.3	346.1	307.7	209.2	316.8	318.9	86.6	60.9	153.5	274.5	230.9	112.7	75.8	68.5	66.5	169.0	305.2	243.4	168.4	204.4	346.1
4	67.8	64.1	74.6	201.7	280.4	390.7	210.1	160.2	143.7	72.1	69.6	223.6	182.5	129.1	225.6	295.7	51.0	12.7	38.5	152.5	65.2	241.9	136.6	66.5	148.2	390.7
5	24.4	41.1	48.3	36.3	30.4	25.2	30.8	32.0	87.4	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
6	K	K	20.7	26.6	95.9	71.5	32.7	39.3	26.2	41.2	90.4	56.8	34.2	14.4	5.7	2.3	2.1	2.0	3.0	2.5	2.8	2.5	2.8	3.2	26.3	95.9
7	3.5	3.2	2.6	3.7	8.3	8.4	15.9	17.3	73.3	112.0	14.9	6.7	11.5	11.0	10.6	56.0	103.6	66.1	14.7	12.0	2.6	40.2	135.9	94.9	34.5	135.9
8	33.1	24.5	18.8	9.9	6.1	4.0	6.4	7.0	8.8	8.8	5.6	2.2	5.6	50.2	157.3	119.9	140.4	7.4	1.0	1.7	1.8	2.7	11.9	13.7	27.0	157.3
9	18.7	32.3	26.1	21.1	31.2	22.9	18.8	38.0	36.9	25.5	7.4	6.3	34.8	76.3	5.0	7.5	44.8	55.3	20.7	3.8	6.7	5.0	12.6	3.7	23.4	76.3
10	9.8	29.3	29.9	36.1	55.5	24.6	33.1	35.3	35.1	102.9	195.5	144.2	174.2	264.7	241.8	176.1	237.1	44.8	53.1	60.0	66.6	13.2	7.4	22.2	87.2	264.7
11	18.2	34.6	40.8	58.2	40.8	55.6	35.1	201.0	205.6	128.7	51.5	182.5	144.1	89.1	321.5	249.9	47.9	202.0	28.9	1.6	3.0	2.5	6.8	22.0	90.5	321.5
12	33.3	43.6	60.7	35.5	34.0	27.2	143.6	115.7	69.4	34.9	42.5	98.4	106.9	87.0	227.4	147.7	231.7	80.0	150.8	28.4	66.5	26.4	62.1	49.6	83.5	231.7
13	161.9	102.2	118.4	145.9	139.5	161.5	150.5	123.6	79.8	22.1	56.0	60.4	91.3	21.9	22.6	50.8	147.7	52.7	33.0	192.6	28.5	81.1	12.9	45.4	87.6	192.6
14	7.2	29.6	31.0	132.3	132.8	198.6	83.8	93.1	31.6	76.1	105.6	170.3	41.6	52.9	136.3	43.9	111.4	28.2	47.3	50.4	69.7	15.3	14.3	7.2	71.3	198.6
15	12.7	11.3	32.5	126.8	167.8	208.1	301.4	203.3	201.7	74.8	79.8	106.2	126.3	83.0	243.6	139.4	125.5	62.4	30.8	85.8	177.6	76.9	133.4	142.6	123.1	301.4
16	317.7	387.8	275.1	288.9	194.8	246.6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
17	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
18	K	K	105.3	152.0	140.3	212.4	203.2	242.4	214.1	237.1	242.4	261.3	255.5	233.6	197.2	232.0	227.0	156.5	121.2	130.1	141.6	136.9	110.5	156.1	186.8	261.3
19	192.2	194.0	296.7	308.2	312.5	291.6	325.4	408.2	283.8	85.9	EC	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
20	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
21	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
22	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
23	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
24	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
25	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
26	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
27	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
28	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
29	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
30	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
31	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
NO.	16	16	18	18	18	18	17	17	17	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	381	51%
MEAN	76.8	91.4	92.1	128.3	127.8	145.6	138.5	141.1	113.0	93.2	99.6	117.4	106.2	103.6	166.5	145.9	136.7	78.2	55.1	62.1	63.7	76.4	65.5	67.6		
MAX	317.7	387.8	296.7	308.2	324.9	390.7	346.1	408.2	283.8	316.8	318.9	261.3	255.5	264.7	321.5	295.7	272.2	202.0	150.8	192.6	177.6	305.2	243.4	168.4		



Number of Non-Zero Readings	381		
Maximum 1-HR Average	390.7 UG/M3		
Maximum 24-HR Average	204.4 UG/M3		
		Operational Time	381 HRS
Monthly Calibration	0	Operational Uptime	51.2 %
Standard Deviation	92.12	Monthly Average	104.8 UG/M3

Entrance TSP (μg/m^3) – May 2023

Day	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX
1	183.4	120.7	214.6	480.1	200.3	294.5	351.1	265.2	171.4	128.4	162.2	261.7	465.3	282.5	330.9	489.0	535.4	401.3	214.3	37.9	164.5	251.0	128.1	157.8	262.1	535.4
2	130.8	139.4	93.4	262.2	172.3	235.2	298.1	218.8	99.1	117.2	201.6	509.8	307.5	408.8	804.8	499.3	678.5	319.1	268.9	253.1	60.4	51.1	56.4	161.9	264.5	804.8
3	104.6	278.1	325.4	411.3	630.5	535.2	657.7	517.1	386.3	505.4	524.2	194.2	160.3	337.2	948.4	746.7	344.2	211.9	118.0	108.2	327.4	415.4	295.5	234.3	388.2	948.4
4	69.9	72.4	89.3	337.6	499.1	722.5	356.1	216.4	168.3	93.7	116.9	475.6	382.4	345.6	459.9	622.5	184.6	14.0	48.8	207.4	96.5	322.8	190.1	75.4	257.0	722.5
5	28.2	47.5	55.5	41.3	34.5	28.5	35.0	36.7	150.0	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
6	K	K	61.2	64.8	242.8	177.1	100.7	74.4	58.4	108.7	224.2	208.4	98.3	24.4	8.8	2.3	2.1	2.0	3.0	2.5	2.8	2.5	2.8	3.2	67.1	242.8
7	3.5	3.2	2.6	3.7	8.3	8.4	15.9	17.3	156.2	155.6	38.1	16.7	21.0	16.8	15.0	157.5	301.0	153.0	40.4	28.3	5.4	61.0	229.9	117.3	65.7	301.0
8	38.4	28.2	21.5	10.6	6.1	4.0	6.6	7.2	9.0	9.4	6.0	2.2	5.6	100.7	434.9	327.1	407.3	21.6	1.0	1.7	1.8	2.7	12.2	13.7	61.6	434.9
9	19.3	35.2	28.1	22.4	33.9	25.0	19.8	42.8	41.4	28.7	7.4	9.4	127.8	325.3	5.0	7.5	57.3	74.7	53.6	3.8	6.7	5.0	12.6	3.7	41.5	325.3
10	9.8	32.6	34.0	41.5	63.8	27.7	37.2	38.8	39.8	194.9	496.3	473.9	476.3	669.6	583.5	400.2	463.7	148.7	87.1	76.8	68.9	13.9	7.4	24.5	187.9	669.6
11	20.2	39.3	46.3	66.4	46.3	64.2	40.2	529.9	376.1	257.4	154.2	491.8	364.9	207.4	923.1	615.4	74.8	416.3	84.5	1.6	3.0	2.5	6.8	24.9	202.4	923.1
12	38.6	50.6	70.1	40.4	38.1	29.2	300.2	237.0	128.0	62.7	88.9	245.4	239.9	247.7	466.6	339.3	584.9	169.2	202.8	42.0	74.1	33.8	91.3	112.8	163.9	584.9
13	210.1	132.5	220.4	226.3	316.4	291.3	297.7	253.0	135.7	34.2	106.2	109.3	180.6	52.4	45.4	133.0	248.6	118.0	79.7	290.5	29.1	85.1	12.9	60.4	152.9	316.4
14	7.2	29.6	35.2	212.5	183.3	269.8	136.6	164.6	41.4	149.9	270.0	291.1	99.7	121.5	327.5	121.6	323.6	105.6	113.9	73.5	92.1	20.0	16.0	7.2	133.9	327.5
15	25.7	12.7	35.8	191.8	321.3	510.9	775.9	412.1	367.1	168.1	135.3	196.0	248.4	193.4	562.3	285.8	203.8	166.4	59.7	127.9	248.0	80.0	152.1	239.9	238.3	775.9
16	662.5	1010.1	732.0	805.1	475.6	530.1	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
17	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
18	K	K	105.3	152.0	140.3	212.4	220.2	292.2	219.7	289.4	341.8	443.2	441.2	417.4	377.1	430.5	398.5	231.2	175.4	176.4	151.2	136.9	112.8	189.2	257.0	443.2
19	195.6	254.2	435.7	503.3	450.7	543.6	612.6	858.9	482.1	171.8	EC	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
20	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
21	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
22	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
23	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
24	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
25	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
26	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
27	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
28	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
29	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
30	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
31	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
NO.	16	16	18	18	18	18	17	17	17	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	381	51%
MEAN	109.2	142.9	144.8	215.2	214.6	250.5	250.7	246.0	178.2	154.7	191.6	261.9	241.3	250.0	419.6	345.2	320.6	170.2	103.4	95.4	88.8	98.9	88.5	95.1		
MAX	662.5	1010.1	732.0	805.1	630.5	722.5	775.9	858.9	482.1	505.4	524.2	509.8	476.3	669.6	948.4	746.7	678.5	416.3	268.9	290.5	327.4	415.4	295.5	239.9		



Number of 24HR Exceedences	11	Proposed Guideline	
Number of Non-Zero Readings	381		
Maximum 1-HR Average	948.4	UG/M3	
Maximum 24-HR Average	388.2	UG/M3	
		Operational Time	381 HRS
Monthly Calibration	0	Operational Uptime	51.2 %
Standard Deviation	196.7	Monthly Average	195.3 UG/M3