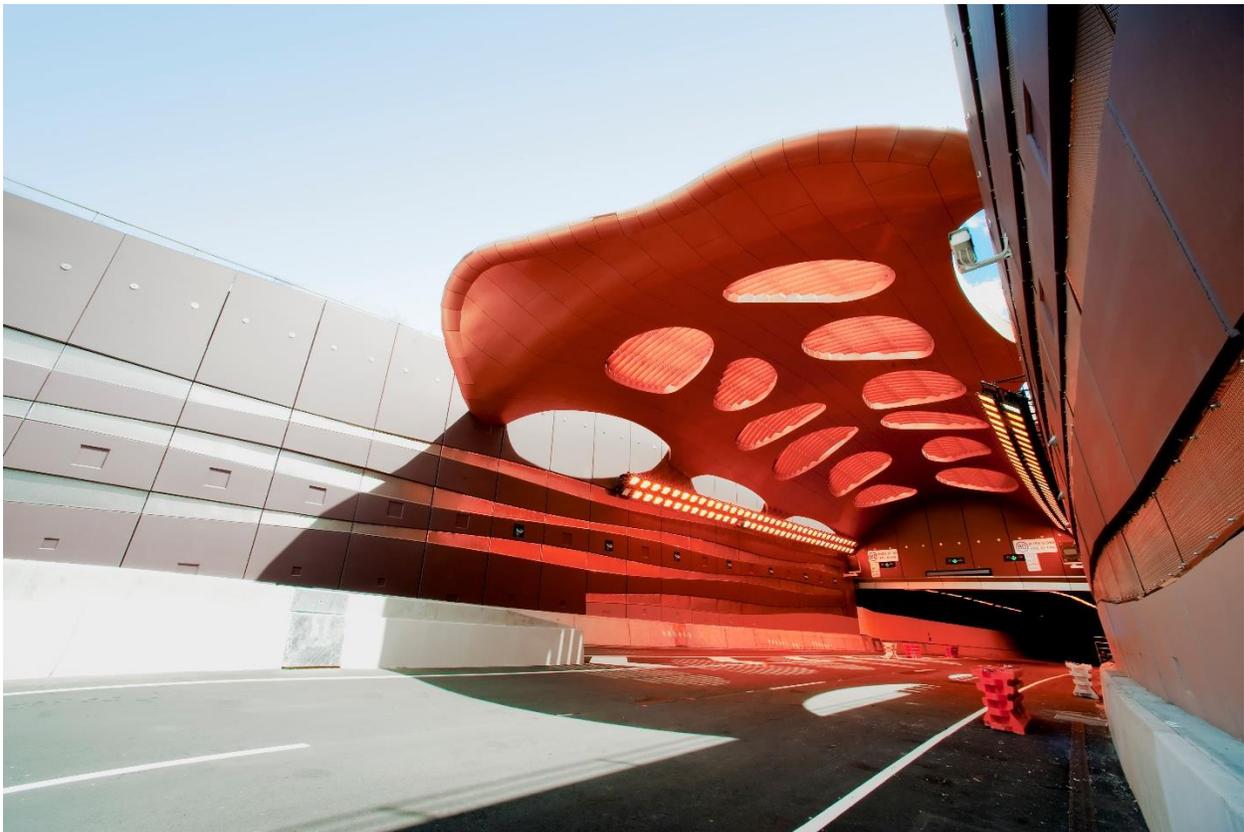


LAFARGE CANADA INC.

AMBIENT AIR QUALITY MONTHLY REPORT

JUNE 2020

JULY 21, 2020



wsp



AMBIENT AIR QUALITY MONTHLY REPORT

JUNE 2020

LAFARGE CANADA INC.

PROJECT NO.: 171-00556-00
DATE: JULY 21, 2020

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July 21, 2020

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

Attention: Janet Brygger

Dear Ms. Brygger

Subject: Ambient Air Quality Monthly Report – June 2020

At the Lagoon station, the precipitation gauge recorded 100% uptime for the month of June. The NO₂ and SO₂ analyzers both recorded 99.6% uptime for the month of June, due to three hours of power failure, which occurred on June 13 at 10:00 & June 25th from 19:00 – 20:00. PM₁₀ and TSP analyzers recorded 99.4% uptime for the month of June due to four hours of power failure, which occurred on June 13th at 10:00 and June 25th from 19:00 – 21:00. Temperature and Wind Speed / Wind Direction also recorded 99.4% uptime for the month of June due to three hours of power failure on June 13th at 10:00 and June 25th from 19:00 – 20:00, as well as one hour of maintenance on June 22nd at 16:00. PM_{2.5} analyzer recorded 99.3% uptime for the month of June due to four hours of power failure, which occurred on June 13th at 10:00 and June 25th from 19:00 – 21:00, as well as one hour of equipment malfunction on June 22nd at 19:00.

There was no exceedance of the 24-hour TSP Alberta Ambient Air Quality Objective. Further, there was no exceedance of the 24-hour PM_{2.5} AAAQOs, nor the 1-hour PM_{2.5} AAAQG at the Lagoon monitoring location.

The Windridge station was taken out of operation beginning April 8th, 2019 as a result of construction work for flood mitigation along Exshaw Creek. The monitor at this station is expected to be re-installed sometime in 2020, after the completion of the construction and landscaping work.

Data collected at all of 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. The operational uptime at all 3 monitors was as follows: 99.9% at the West GRIMM due to one hour of power failure on June 25th at 19:00, 99.9% at the Entrance GRIMM due to one hour of power failure on June 25th at 19:00, and 100% at the Berm GRIMM. The West GRIMM monitor recorded zero exceedances of the 24-hour TSP AAAQG, and zero exceedances of the 24-hour PM_{2.5} AAAQG. The Berm GRIMM had 8 exceedances of the TSP guideline and zero exceedances of the PM_{2.5} guideline. The Entrance GRIMM monitor recorded 3 and 0 exceedances for the 24-hour TSP AAAQG and 24-hour PM_{2.5} AAAQG, respectively.

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,

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Tyler Abel, M.Sc.
Team Leader, Environmental
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PREPARED BY



July 21, 2020

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

Date

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



July 21, 2020

Tyler Abel, M.Sc.
Team Leader, Environmental Management,
Vancouver Region, Environment

Date

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A DATA & CALIBRATION REPORTS

1 INTRODUCTION

This report summarizes the ambient air quality and meteorological data collected at the Lagoon, Windridge, and GRIMM monitors in Exshaw, AB. 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 June 1, 2020 and June 30, 2020.

This monthly report was prepared by Dylan Weyell, Junior Air Quality Specialist with WSP, on behalf of Lafarge and was reviewed by Tyler Abel, Team Leader of Environmental Management in the Vancouver Region at WSP.

1.1 EXSHAW CREEK FLOOD MITIGATION

Due to flood mitigation construction at Exshaw creek (Figure 1-1), the Windridge monitor was taken out of operation and removed from the site on April 8, 2019. The monitoring station will be re-installed after the completion of construction and landscaping in 2020.



Figure 1-1 Photo of Flood Mitigation Construction at Exshaw Creek

2 JUNE 2020 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 the stations 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
NO₂ (ppb)	99.6	19.6	0	8.2	-
SO₂ (ppb)	99.6	8.6	0	1.7	0
PM_{2.5} (µg/m³)	99.3	15.5	0*	6.0	0
PM₁₀ (µg/m³)	99.4	186.8	-	29.4	-
TSP (µg/m³)	99.4	276.5	-	56.0	0
Temperature (°C)	99.4	25.9	-	21.7	-
Wind Speed (km/hr) /Direction (Degrees)	99.4	40.3/W	-	29.4/WSW	-
Precipitation (mm)	100.0	4*	-	72*	-

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

² Maximum Daily Total Accumulation of Precipitation (mm)

³ Monthly Total Accumulation of Precipitation (mm)

Data Quality Notes:

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

Calibration/Maintenance Notes:

- At the Lagoon station, the precipitation gauge recorded 100% uptime for the month of June. The NO₂ and SO₂ analyzers both recorded 99.6% uptime for the month of June, due to three hours of power failure, which occurred on June 13 at 10:00 & June 25th from 19:00 – 20:00. PM10 and TSP analyzers recorded 99.4% uptime

for the month of June due to four hours of power failure, which occurred on June 13th at 10:00 and June 25th from 19:00 – 21:00. Temperature and Wind Speed / Wind Direction also recorded 99.4% uptime for the month of June due to three hours of power failure on June 13th at 10:00 and June 25th from 19:00 – 20:00, as well as one hour of maintenance on June 22nd at 16:00. PM_{2.5} analyzer recorded 99.3% uptime for the month of June due to four hours of power failure, which occurred on June 13th at 10:00 and June 25th from 19:00 – 21:00, as well as one hour of equipment malfunction on June 22nd at 19:00.

2.2 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 2-2 West station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM _{2.5} (µg/m ³)	99.9	14.5	0*	7.6	0
PM ₁₀ (µg/m ³)	99.9	44.4	-	11.7	-
TSP (µg/m ³)	99.9	1022.2	-	54.5	0

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

Data Quality Notes:

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

Calibration/Maintenance Notes:

- The West GRIMM had 99.9% data completeness for the month of June due to one hour of power failure on June 25th at 19:00.

2.3 BERM GRIMM

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

Table 2-3 Berm station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines

PM_{2.5} (µg/m³)	100.0	35.8	0*	10.4	0
PM₁₀ (µg/m³)	100.0	297.4	-	71.6	-
TSP (µg/m³)	100.0	686.1	-	202.4	8

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

Data Quality Notes:

- There were no exceedances of the 24-hour PM_{2.5} AAAQG.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 8 days exceeding the 24-hour TSP AAAQG.

Calibration/Maintenance Notes:

- The Berm GRIMM had 100% data completeness for the month of June.

2.4 ENTRANCE GRIMM

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

Table 2-4 Entrance station data summary

Parameter	Data Completeness (%)	1-Hour Average		24-hour Average	
		Maximum Concentration	Exceedances of Guidelines	Maximum Concentration	Exceedances of Guidelines
PM_{2.5} (µg/m³)	99.9	44.8	0*	12.1	0
PM₁₀ (µg/m³)	99.9	331.7	-	65.3	-
TSP (µg/m³)	99.9	701.1	-	106.6	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 no exceedances of the 24-hour PM_{2.5} AAAQG.
- There were no exceedances of the 1-hour PM_{2.5} AAAQG.
- There were 3 days exceeding the 24-hour TSP AAAQG.

Calibration/Maintenance Notes:

- The Entrance GRIMM had 99.9% uptime for the month of June due to one hour of power failure occurring on June 25th at 19:00.

3 LAGOON STATION

The Lagoon trailer contains NO_x, SO₂, TSP, PM₁₀, and PM_{2.5} analyzers as well as meteorological sensors, and is shown in Figure 3-1. An ambient air quality station has been at this location since 2002, providing a long-term data record for air quality in the Exshaw area.

This section provides a summary of the monitoring activities for the Lagoon ambient air quality station, including: a table of instrumentation (Table 3-1), a data summary table (Table 3-2), site visit notes, a wind rose (Figure 3-2) and tables and graphs illustrating the monitoring results for June 2020.

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 June 18 th . The monitor had 99.3% uptime in June due to four hours of power failure, which occurred on June 13 th at 10:00 and June 25 th from 19:00 – 21:00, as well as one hour of equipment malfunction on June 22 nd at 19:00.
PM₁₀ Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The PM ₁₀ monitor was calibrated on June 18 th . The monitor had 99.4% uptime in June due to four hours of power failure, which occurred June 13 th at 10:00 & June 25 th from 19:00 – 21:00.
TSP Concentrations	MetOne BAM-1020 Continuous Particulate Monitor	The TSP monitor was calibrated on June 18 th . The monitor had 99.4% uptime in June due to four hours of power failure, which occurred June 13 th at 10:00 & June 25 th from 19:00 – 21:00.
Oxides of Nitrogen	TEI 42C	The NO _x monitor was calibrated on June 22 nd . The monitor had 99.6% uptime for the month of June, due to three hours of power failure, which occurred on June 13 at 10:00 & June 25 th from 19:00 – 20:00. The SO ₂ monitor was calibrated on June 22 nd . The monitor had 99.6% uptime for the month of June, due to three hours of power failure, which occurred on June 13 at 10:00 & June 25 th from 19:00 – 20:00.
Sulphur Dioxide	Teledyne API 102A	
Precipitation	MetOne 130 Rain/Snow Gauge	The monitor had 100% uptime in June

Wind Speed	MetOne Wind Sensor	The monitor had 99.4% uptime for the month of June due to three hours of power failure on June 13th at 10:00 and June 25th from 19:00 – 20:00, as well as one hour of maintenance on June 22nd at 16:00.
Wind Direction		
Ambient Temperature	MetOne Ambient Temperature Sensor	The monitor had 99.4% uptime for the month of June due to three hours of power failure on June 13th at 10:00 and June 25th from 19:00 – 20:00, as well as one hour of maintenance on June 22nd at 16:00.



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

3.2 MONITORING RESULTS AND TRENDS

The following wind rose (Figure 3-2) illustrates the frequency of wind speed by wind direction for the month of June 2020. The wind rose indicates that the winds predominantly came from the west direction, with lighter prevailing wind from the north-northwest, south-southwest, and east directions.

Table 3-2 summarizes the hourly, daily, and monthly concentrations recorded in June 2020.

Figure 3-3 graphically illustrates the time series for hourly concentrations as well as wind speed and direction, while Figure 3-9 shows daily average concentrations recorded during June 2020 for the pollutants listed in Table 3-2. Additionally, Figure 3-4 to Figure 3-8 show the histograms of the hourly concentrations of NO₂, SO₂, PM_{2.5}, PM₁₀, and TSP measured at the Lagoon station.

There were no exceedances of the 24-hour TSP (100 µg/m³) AAAQO. Further, there were no exceedances of the 24-hour PM_{2.5} (29 µg/m³) AAAQO, nor the 1-hour PM_{2.5} AAAQG (80 µg/m³). The highest PM_{2.5} concentrations recorded during the month were likely, based on wind direction and a corresponding rise in NO_x emissions, not attributable to Lafarge operations and could be from industrial emissions to the east.

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

Table 3-2 Summary of June 2020 data at Lagoon

Parameter	Guideline / Objectives		Station	Exceedances		Monthly		1-hour					24-hour		Operational Time (Percent)
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration/ Meteorological Variable	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration/ Meteorological Variable	Day	
NO₂ (ppb)	159	-	Lagoon	0	-	0.4	4.7	19.6	13	7	15.1	280.8	8.2	30	99.6
SO₂ (ppb)	172	48	Lagoon	0	0	0.0	0.8	8.6	27	12	15.2	275.7	1.7	23	99.6
PM_{2.5} (µg/m³)	80	29	Lagoon	0	0	0.0	2.4	15.5	24	14	11.2	73.7	6.0	19	99.3
PM₁₀ (µg/m³)	-	-	Lagoon	-	-	0.0	13.6	186.8	12	16	20.6	258.3	29.4	23	99.4
TSP (µg/m³)	-	100	Lagoon	-	0	0.0	21.5	276.5	12	16	20.6	258.3	56.0	23	99.4
Temperature (°C)	-	-	Lagoon	-	-	3.6	13.4	25.9	25	17	21.0	273.3	21.7	23	99.4
Wind Speed (km/hr)/Direction (degrees)	-	-	Lagoon	-	-	1.8	15.3	40.3/W	15	5	40.3	256.5	29.4/WSW	15	99.4
Precipitation (mm)	-	-	Lagoon	-	-	0.0	0.1	4.0	7	4	5.8	321.0	72.0		100.0

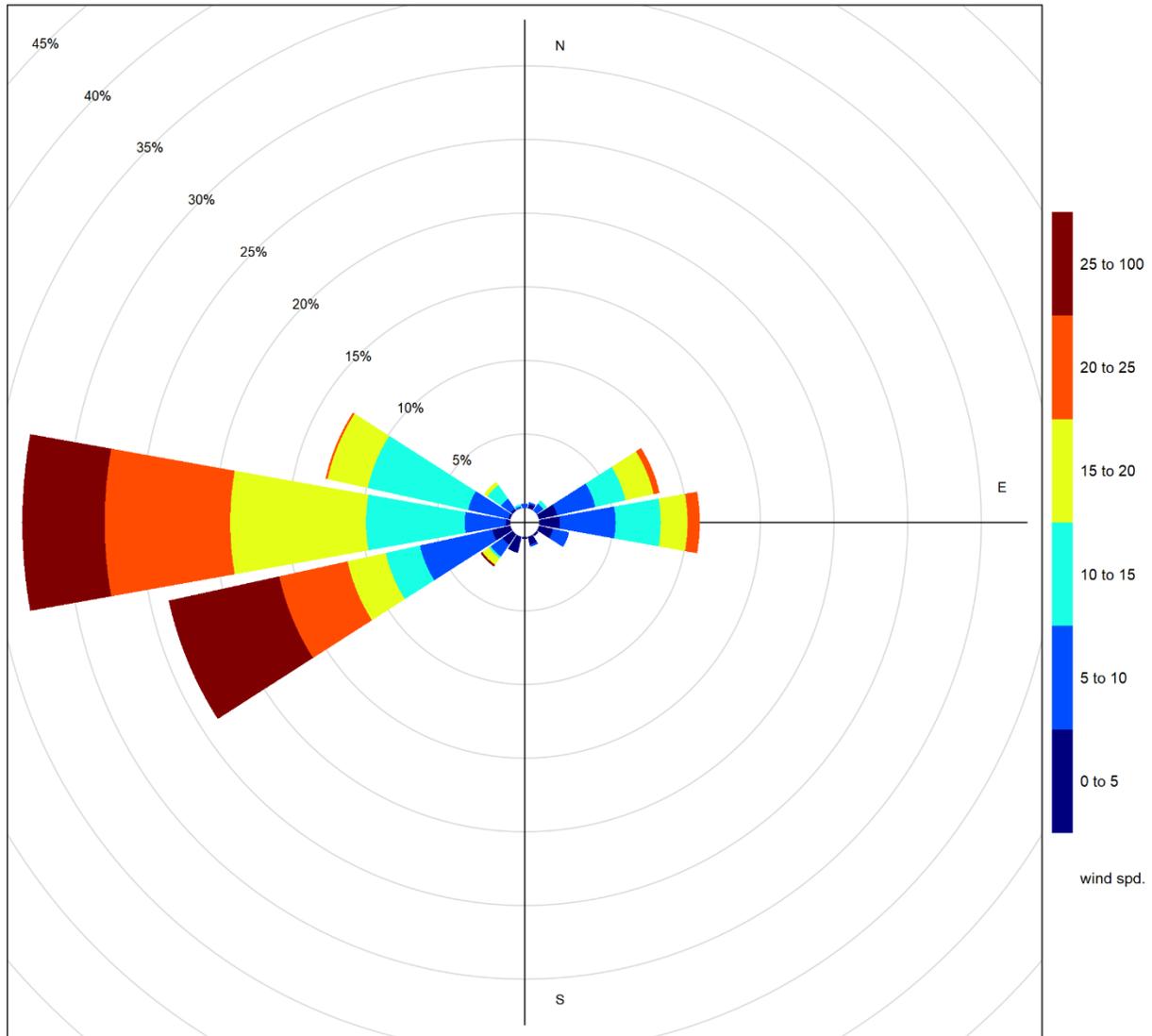


Figure 3-2 June 2020 wind rose from the Lagoon Station

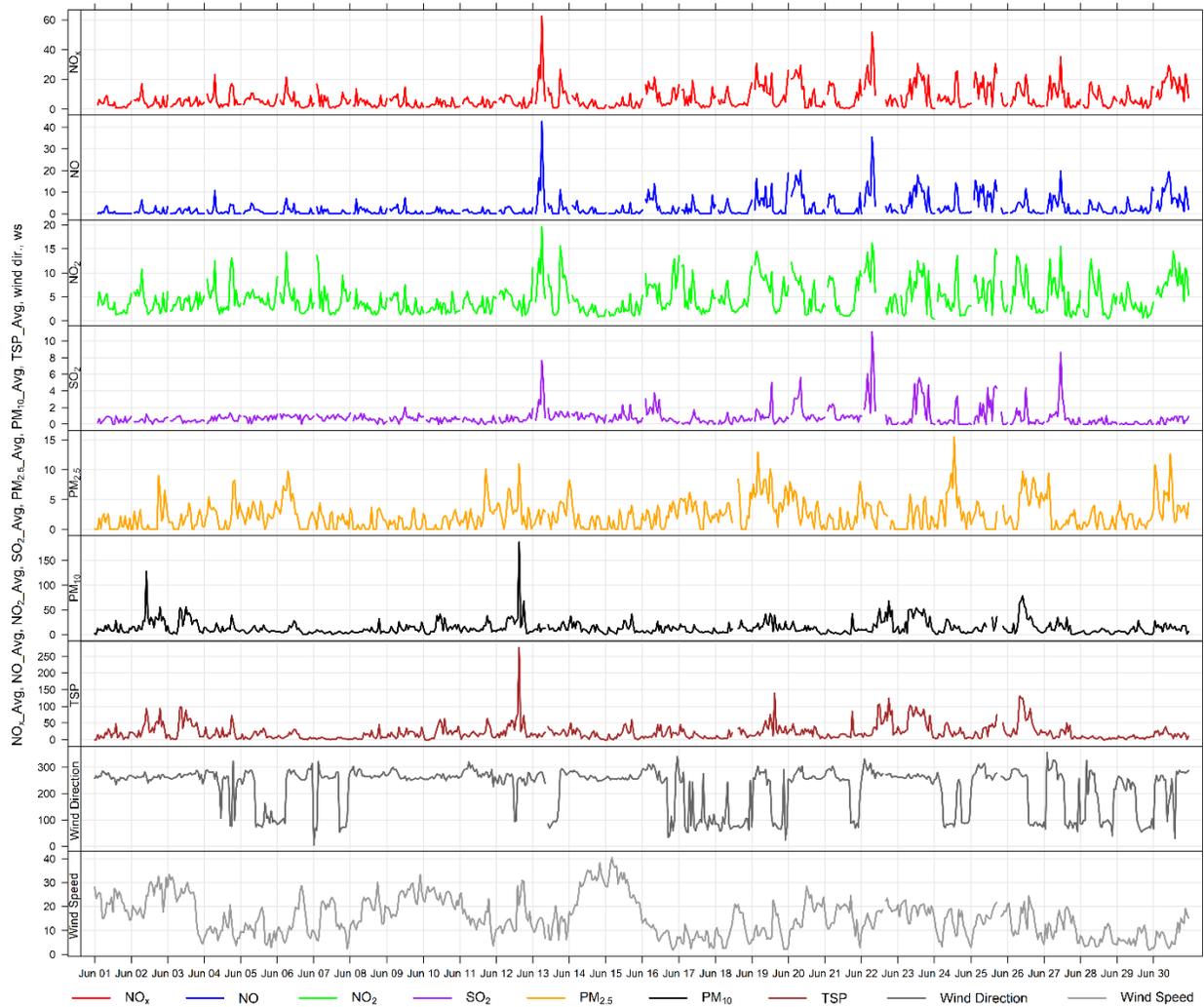


Figure 3-3 1-hour concentrations of NO_x, SO₂, particulate matter, wind direction and wind speed at the Lagoon station

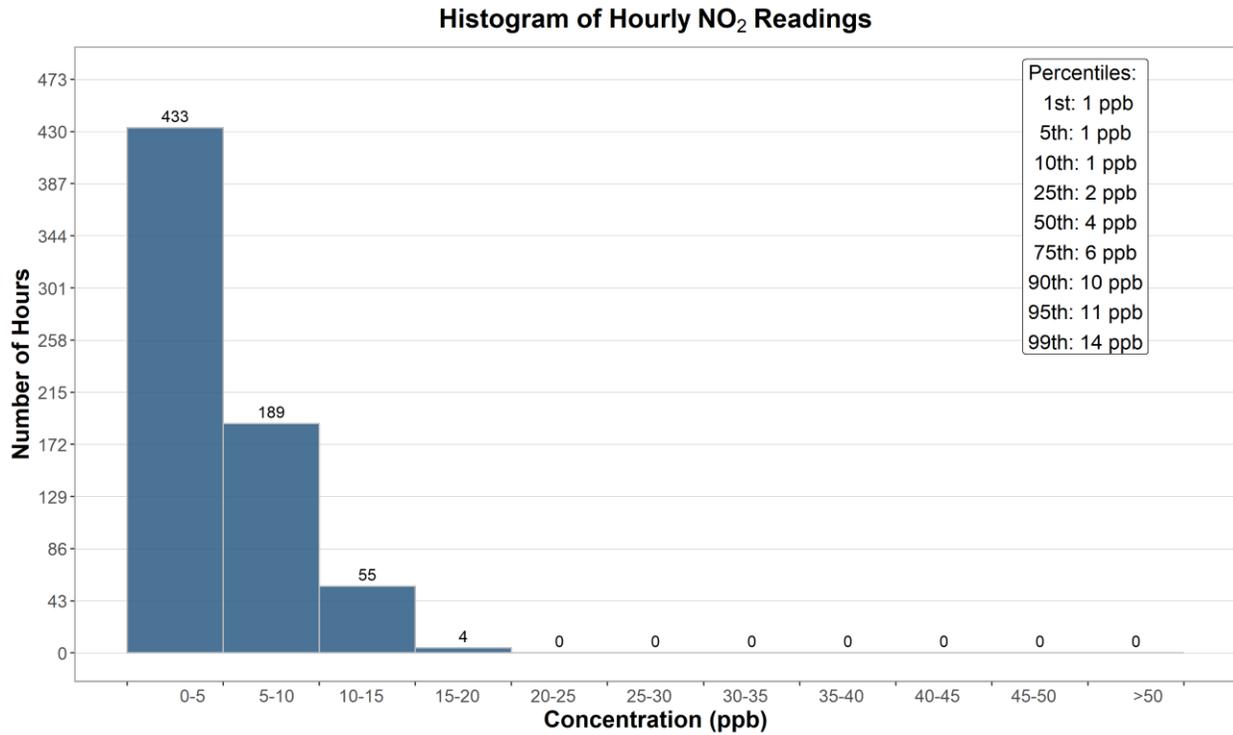


Figure 3-4 Histogram of hourly NO₂ concentrations at the Lagoon station

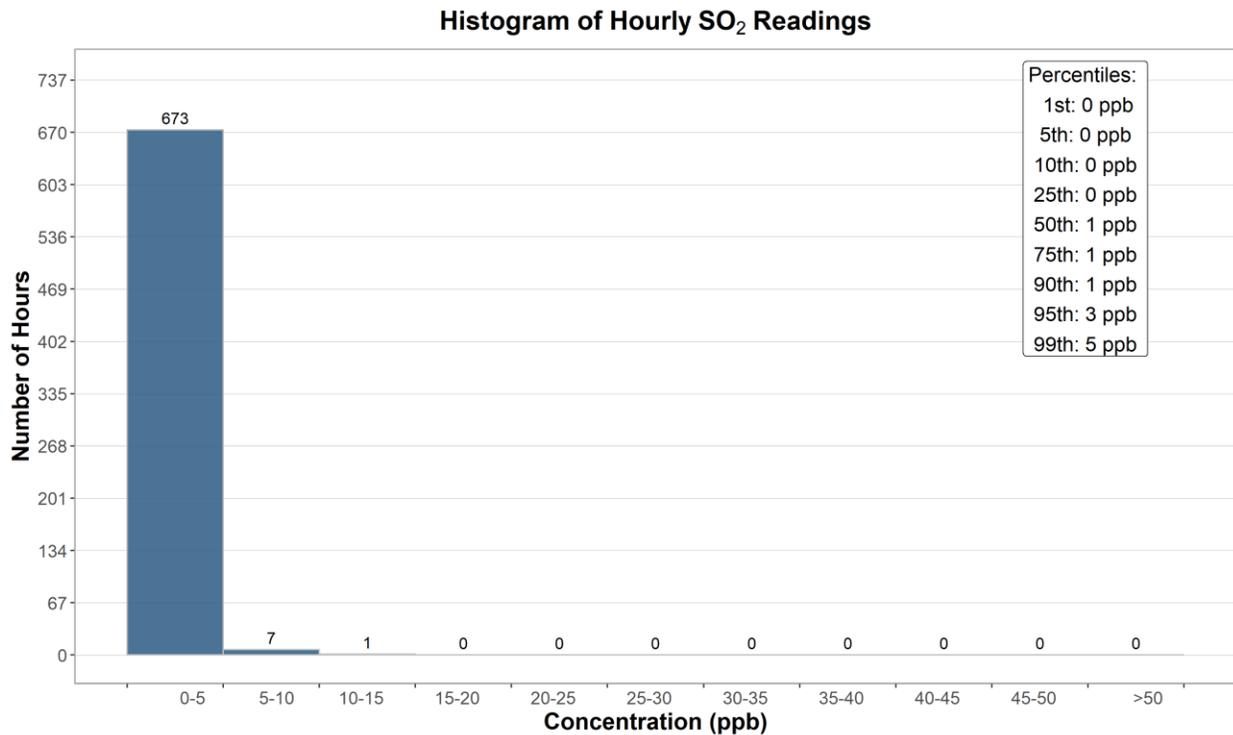


Figure 3-5 Histogram of hourly SO₂ concentrations at the Lagoon station

Histogram of Hourly PM_{2.5} Readings

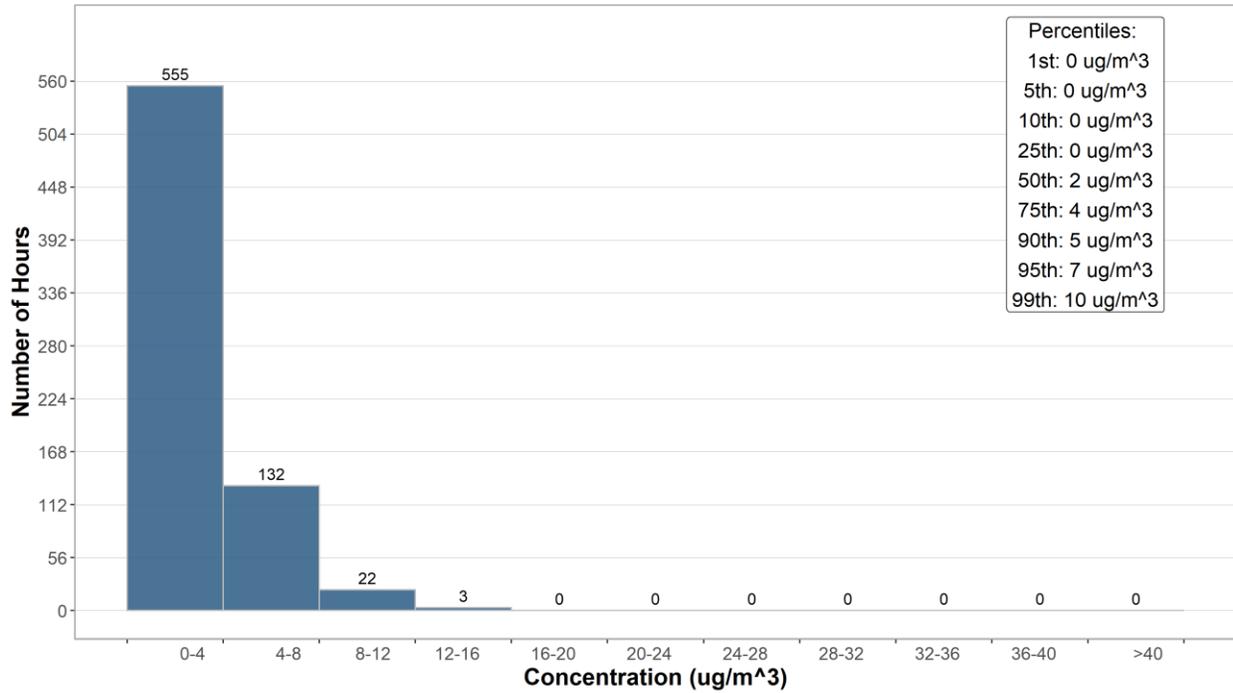


Figure 3-6 Histogram of hourly PM_{2.5} concentrations at the Lagoon station

Histogram of Hourly PM₁₀ Readings

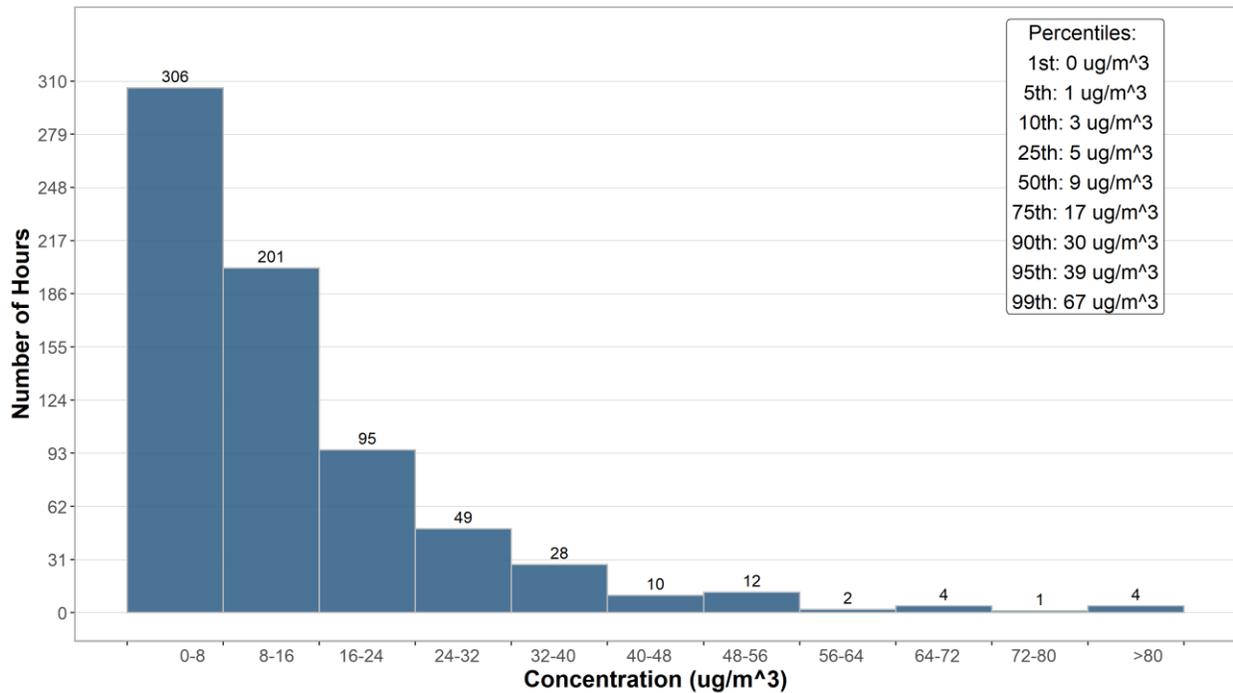


Figure 3-7 Histogram of hourly PM₁₀ concentrations at the Lagoon station

Histogram of Hourly TSP Readings

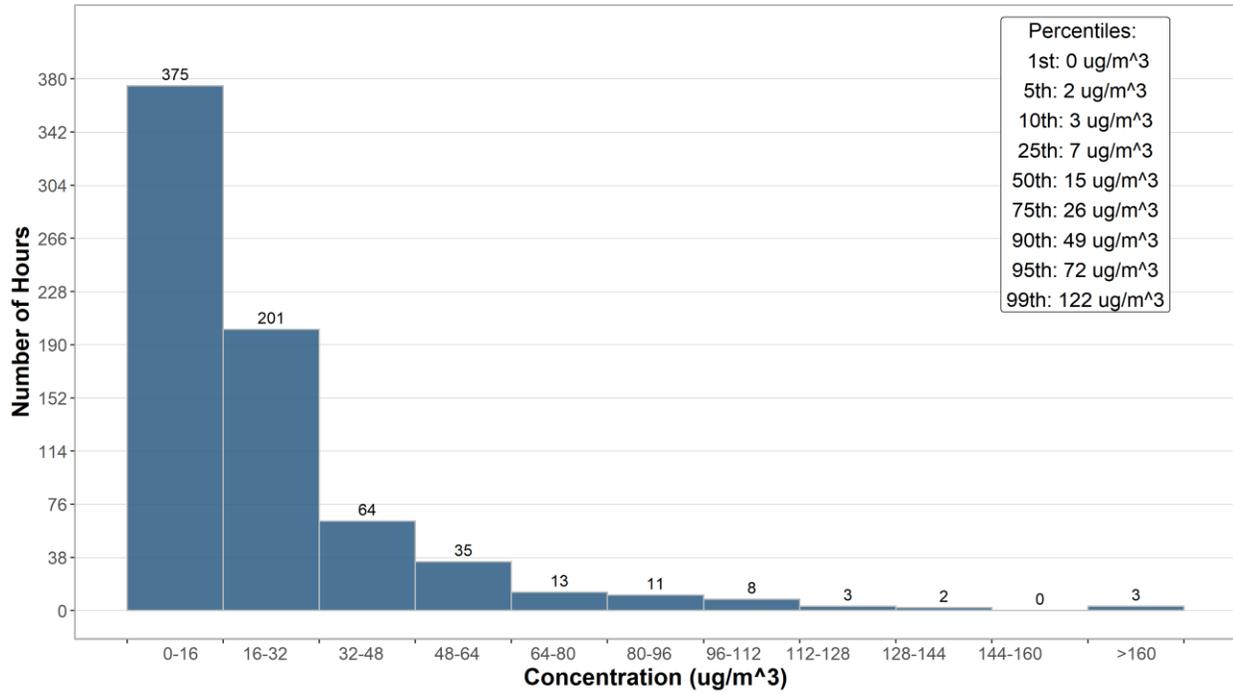


Figure 3-8 Histogram of hourly TSP concentrations at the Lagoon station

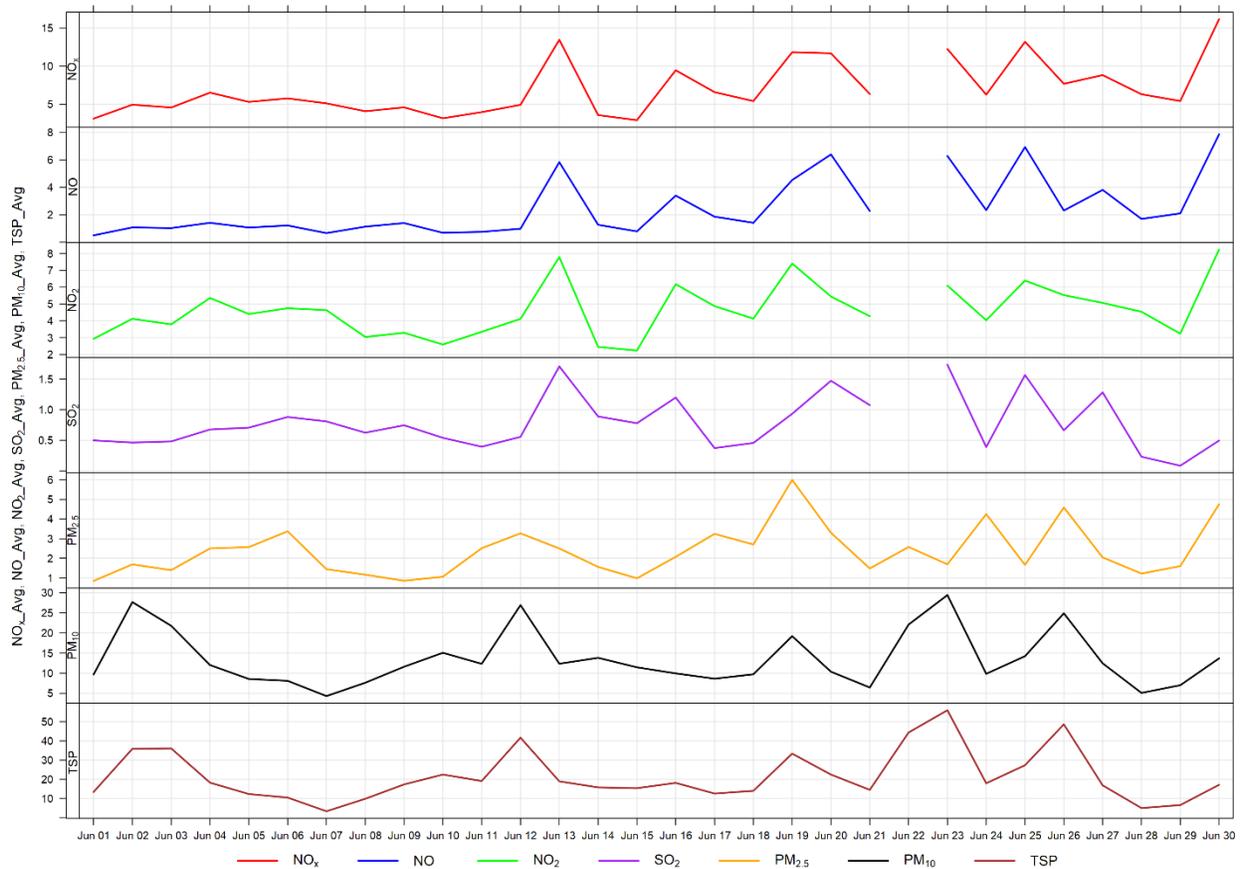


Figure 3-9 24-hour concentrations of NO_x, SO₂, and particulate matter at the Lagoon monitor

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

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

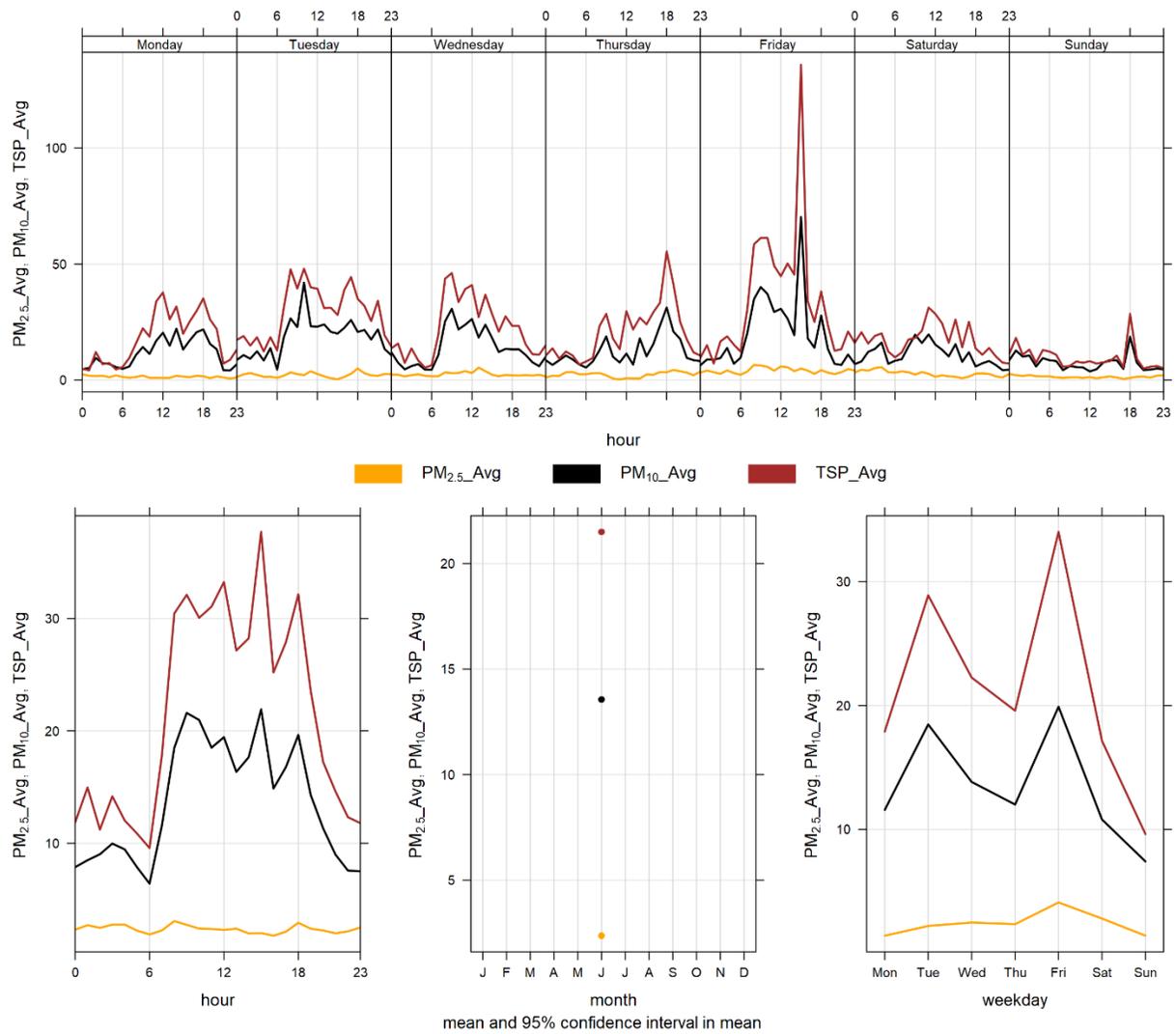


Figure 3-10 Lagoon monitor particulate matter time variation

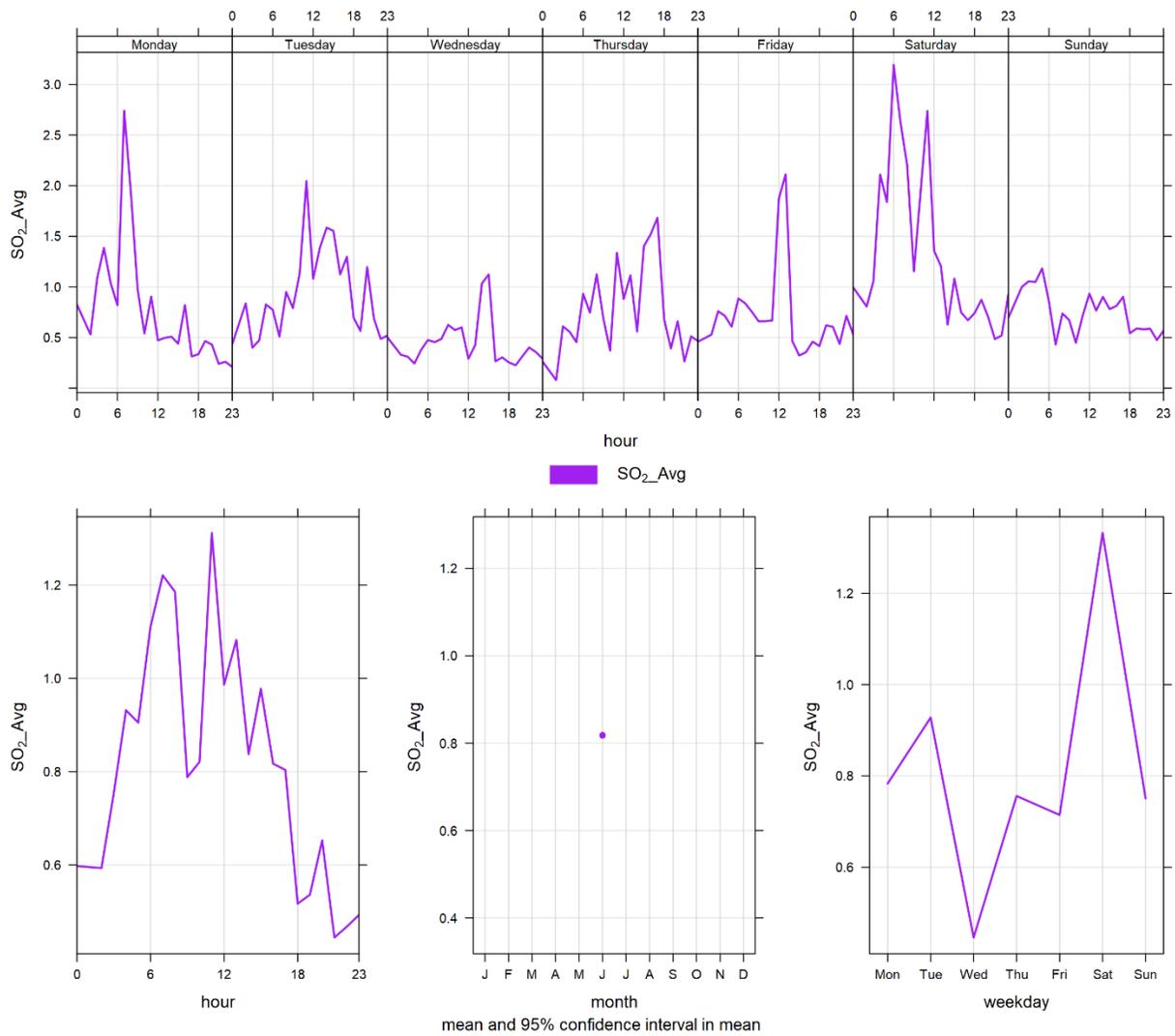


Figure 3-11 Lagoon monitor SO₂ time variation

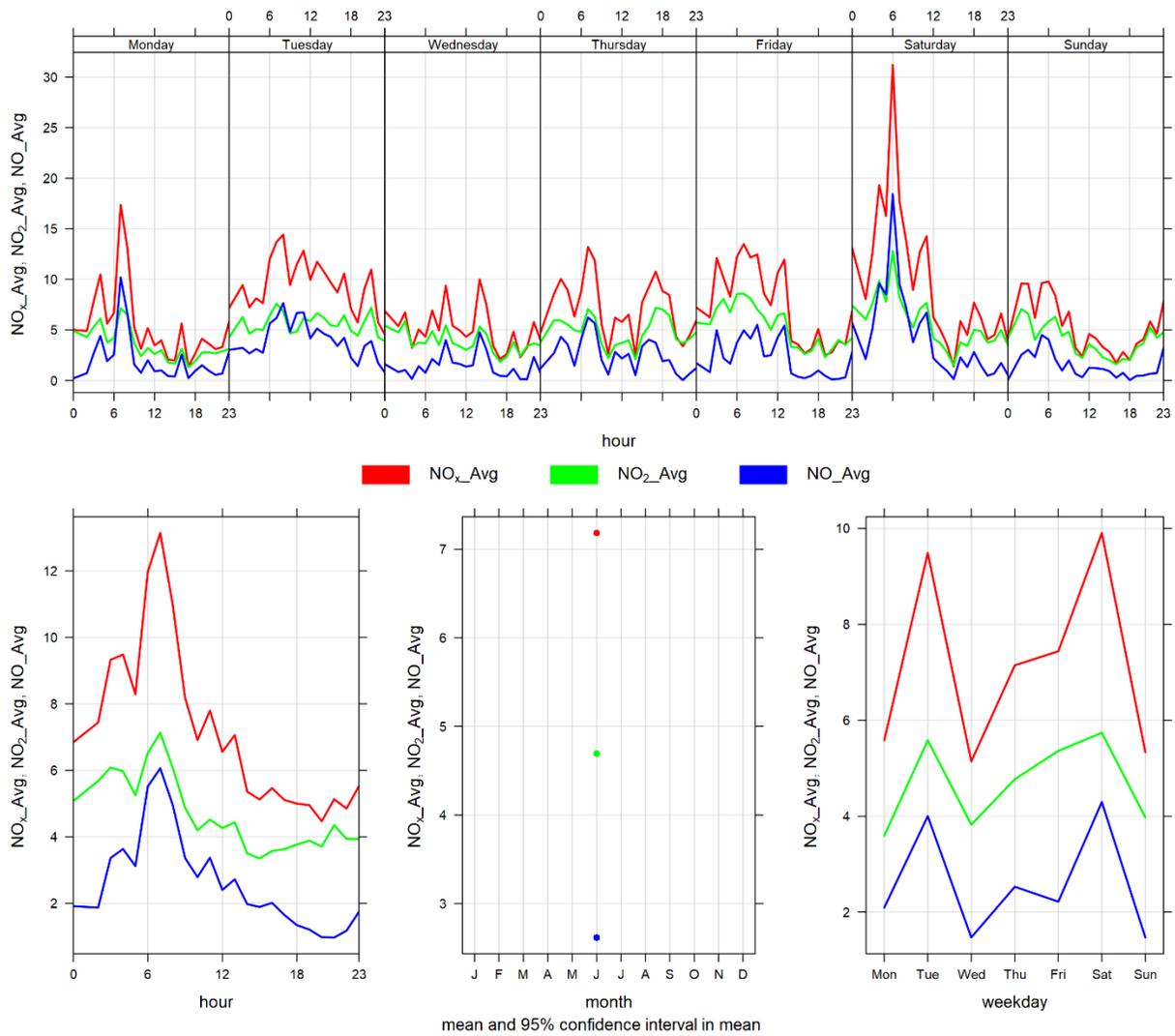


Figure 3-12 Lagoon monitor NO_x time variation

4 WEST INDUSTRIAL GRIMM

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 West monitoring location

Parameter Measured	Equipment Description	Notes
PM _{2.5} , PM ₁₀ , TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The West GRIMM monitor had 99.9% data completeness for the month of June due to one hour of power failure on June 25 th at 19:00

4.2 MONITORING RESULTS AND TRENDS

The West GRIMM was installed in its current location in order to monitor “background” PM concentrations since the predominant wind pattern is from west to east in the valley. Table 4-2 summarizes the monthly concentrations, and the maximum 1-hour and 24-hour concentrations recorded over the course of the month. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

Figure 4-1 and Figure 4-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month.

There were no exceedances of the 24-hour TSP guideline (100 µg/m³). Further, there was no exceedance of the 24-hour PM_{2.5} guideline (29 µg/m³).

Historically in June, the average number of 24-hour TSP AAAQG exceedances and 24-hour PM_{2.5} AAAQG exceedances are zero and zero, respectively. The maximum number of 24-hour AAAQG exceedances was 0 days from 2010-2019 for TSP, and 0 days from 2010 - 2019 for PM_{2.5}.

Table 4-2 Summary of June 2020 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} ($\mu\text{g}/\text{m}^3$)	80	29	West	0	0	0.2	2.6	14.5	30	11	2.4	164.5	7.6	19	99.9
PM₁₀ ($\mu\text{g}/\text{m}^3$)	-	-	West	-	-	0.2	3.5	44.4	19	15	22.6	76.2	11.7	19	99.9
TSP ($\mu\text{g}/\text{m}^3$)	-	100	West	-	0	0.1	4.7	1022.2	19	15	22.6	76.2	54.5	19	99.9

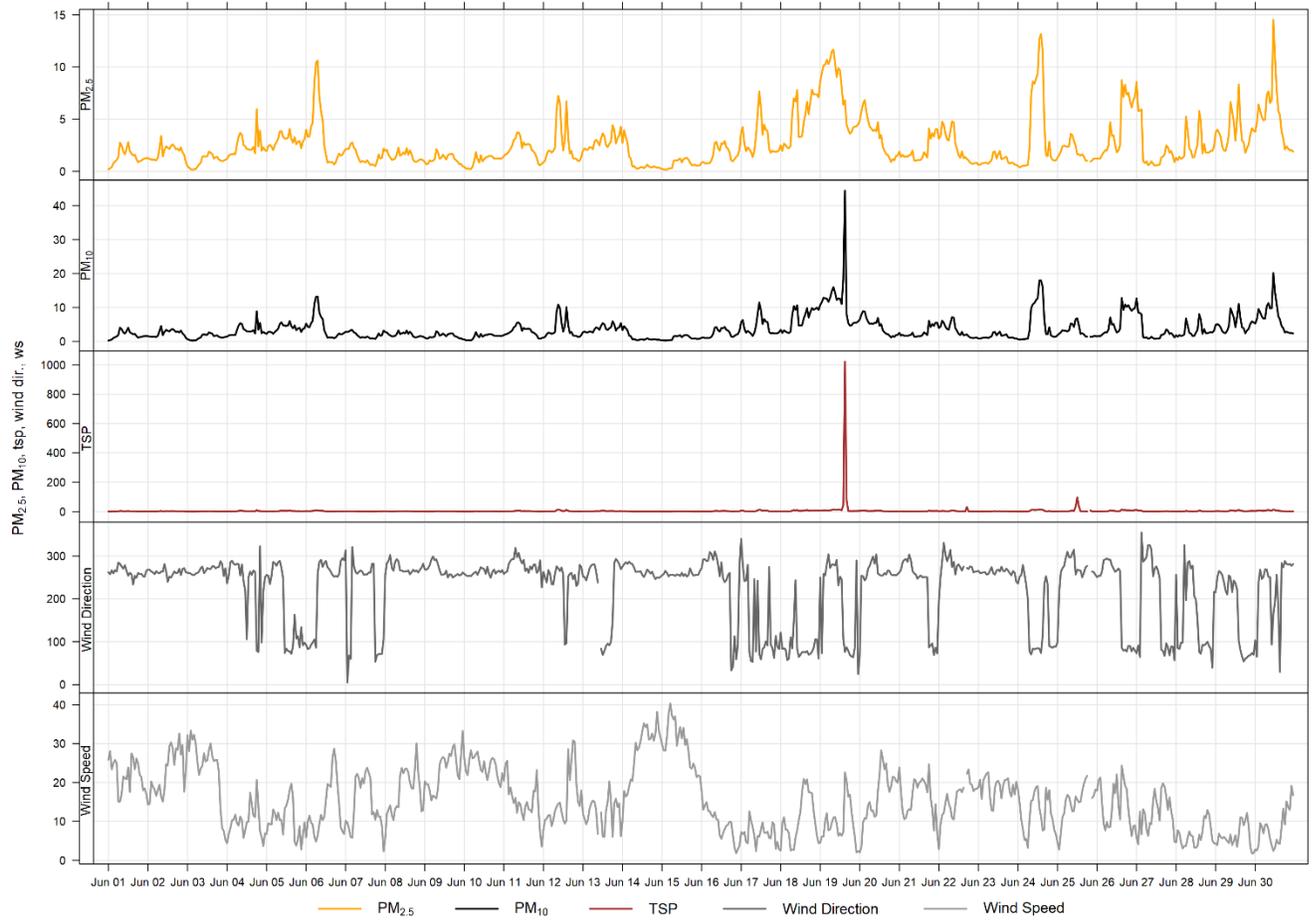


Figure 4-1 1-hour particulate matter concentrations at the West monitor



Figure 4-2 24-hour particulate matter concentrations at the West monitor

Figure 4-3 below 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 4-3 is based on data collected during June 2020 and is influenced by some particular high values that occurred under easterly winds on June 19th. As the monitor is generally ‘up-wind’ of the facility, the daily variations in PM are more likely a result of higher traffic volume during daylight hours than specific Lafarge operations.

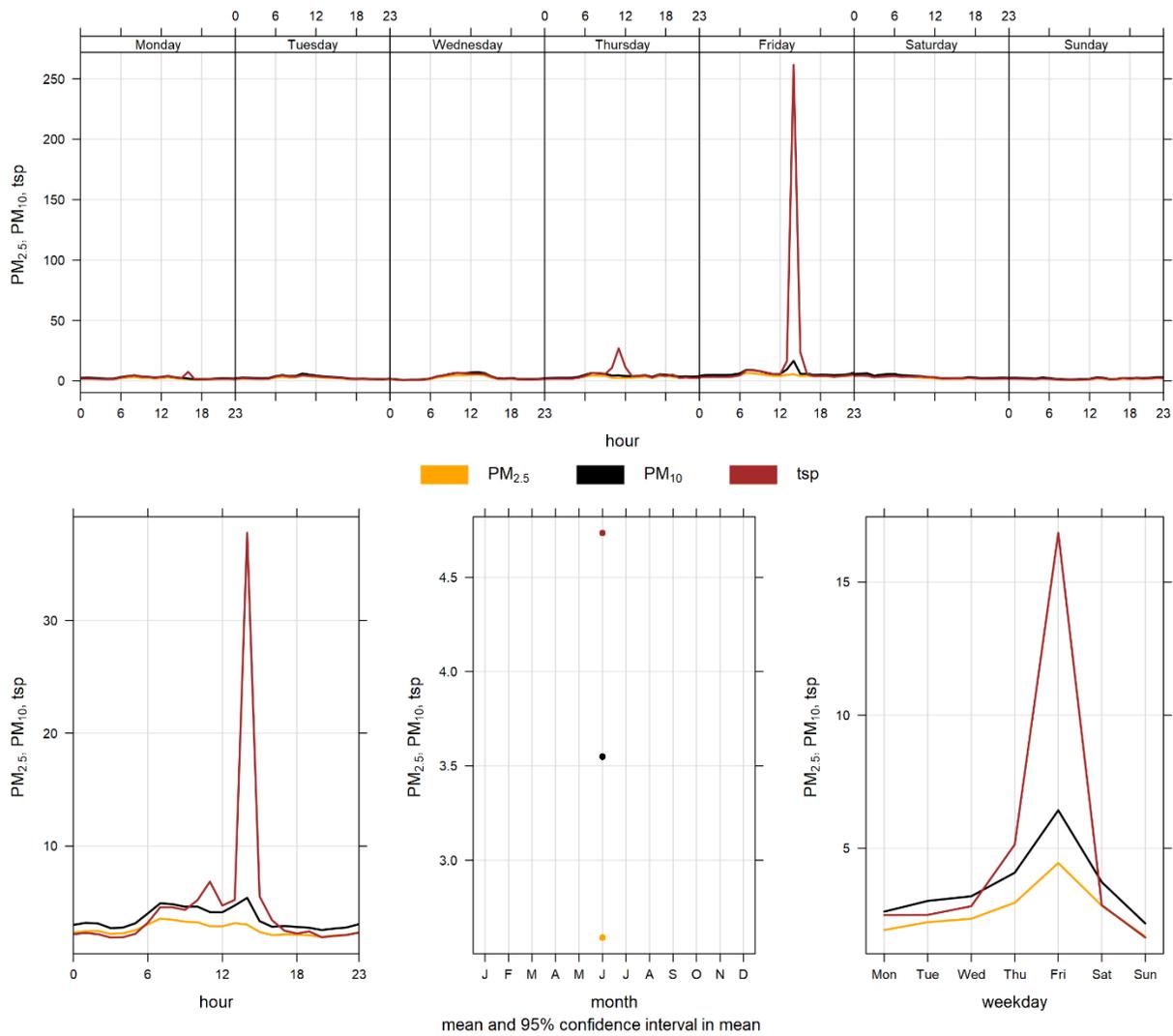


Figure 4-3 West particulate matter time variation

5 BERM INDUSTRIAL GRIMM

5.1 OPERATIONAL SUMMARY

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

Table 5-1 Instrumentation List at the Berm monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The Berm GRIMM monitor had 100% data completeness for the month of June

5.2 MONITORING RESULTS AND TRENDS

The Berm monitor was placed at its current location as a result of the dispersion modelling conducted for the facility in 2009. Figure 5-1 and Figure 5-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 5-2 summarizes the monthly concentrations, and the maximum 1-hour and 24-hour PM concentrations recorded during the month, and Table 5-3 summarizes the 8 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 8 and 0 exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) guidelines, respectively. There were zero hours exceeding the 1-hour PM_{2.5} AAAQG.

Historically during the month of June, the Berm monitor records an average of 10 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines, respectively. The maximum number of TSP exceedances recorded during June occurred in 2016 where there were 18 days that exceeded the guideline. On the other hand, the maximum number of PM_{2.5} exceedances in June was 3 day in 2011.

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.

Table 5-2 Summary of June 2020 data at the Berm GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration		Day
PM_{2.5} (µg/m ³)	80	29	Berm	0	0	0.2	3.9	35.8	12	15	28.6	251.9	10.4	3	100.0
PM₁₀ (µg/m ³)	-	-	Berm	-	-	0.2	21.4	297.4	12	15	28.6	251.9	71.6	3	100.0
TSP (µg/m ³)	-	100	Berm	-	8	0.1	57.2	686.1	3	9	24.3	275.3	202.4	3	100.0

Table 5-3 Days exceeding the Guideline for TSP or PM_{2.5} at the Berm Monitor

Date	TSP (ug/m ³)	PM _{2.5} (ug/m ³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2020-06-02	148.8	-	261.1	23.2	36.5	High wind event
2020-06-03	202.3	-	266.6	23	33.1	High wind event
2020-06-09	109.4	-	263.3	23.3	40.6	High wind event
2020-06-15	163.4	-	257.5	29.4	36.9	High wind event
2020-06-22	120	-	277.1	16.3	44.1	Winds primarily from the west
2020-06-23	139.2	-	261.2	18.7	34	Winds primarily from the west
2020-06-25	152.6	-	273.7	15	48.7	Winds primarily from the west
2020-06-26	106.6	-	287.7	13.8	48.7	Winds primarily from the west
Total # of Exceedances	8	0				
Maximum # of Exceedances (June)	18 (2016)	3 (2011)				
Average # of Exceedances (June)	10	0				
Minimum # of Exceedances (June)	0 (2013, 2014)	0 (2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019)				

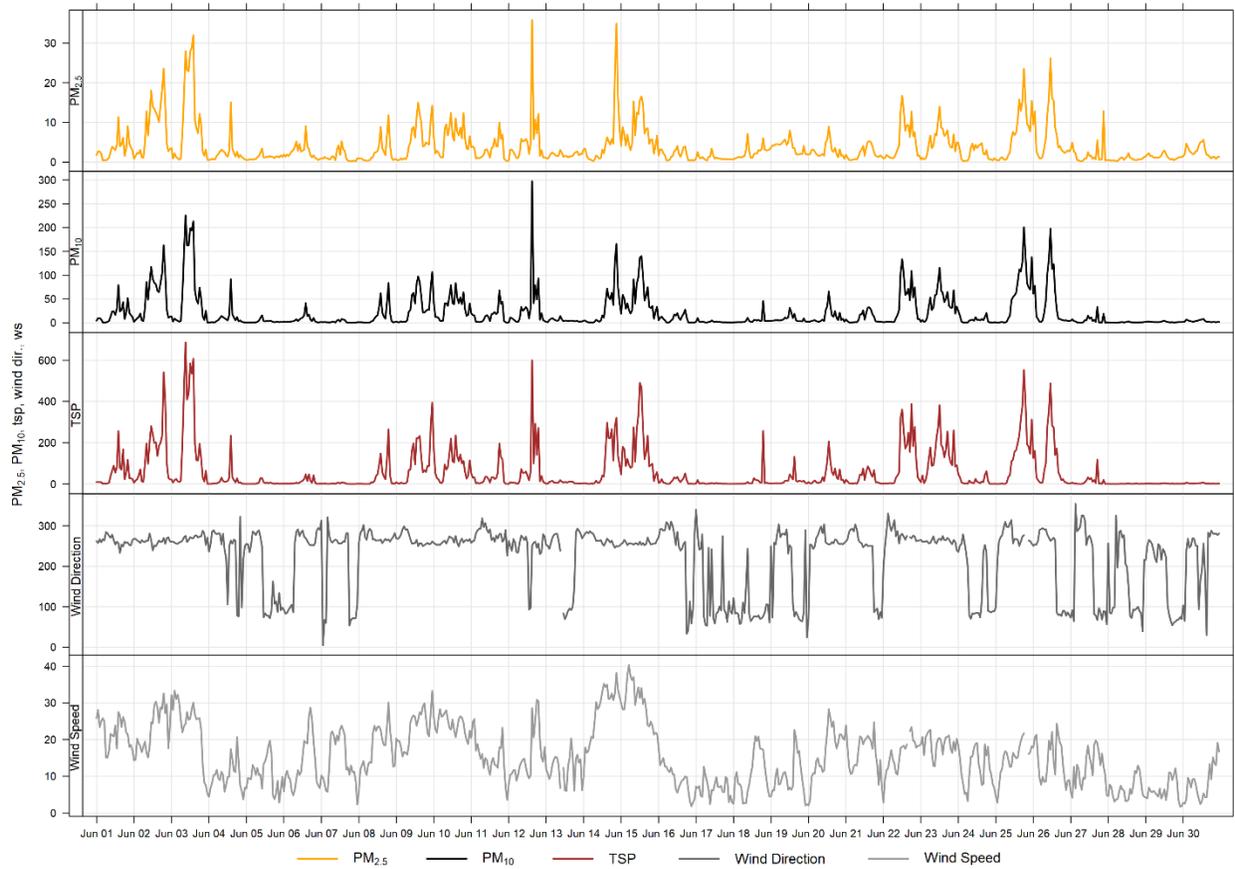


Figure 5-1 1-hour particulate matter concentrations recorded at the Berm monitor

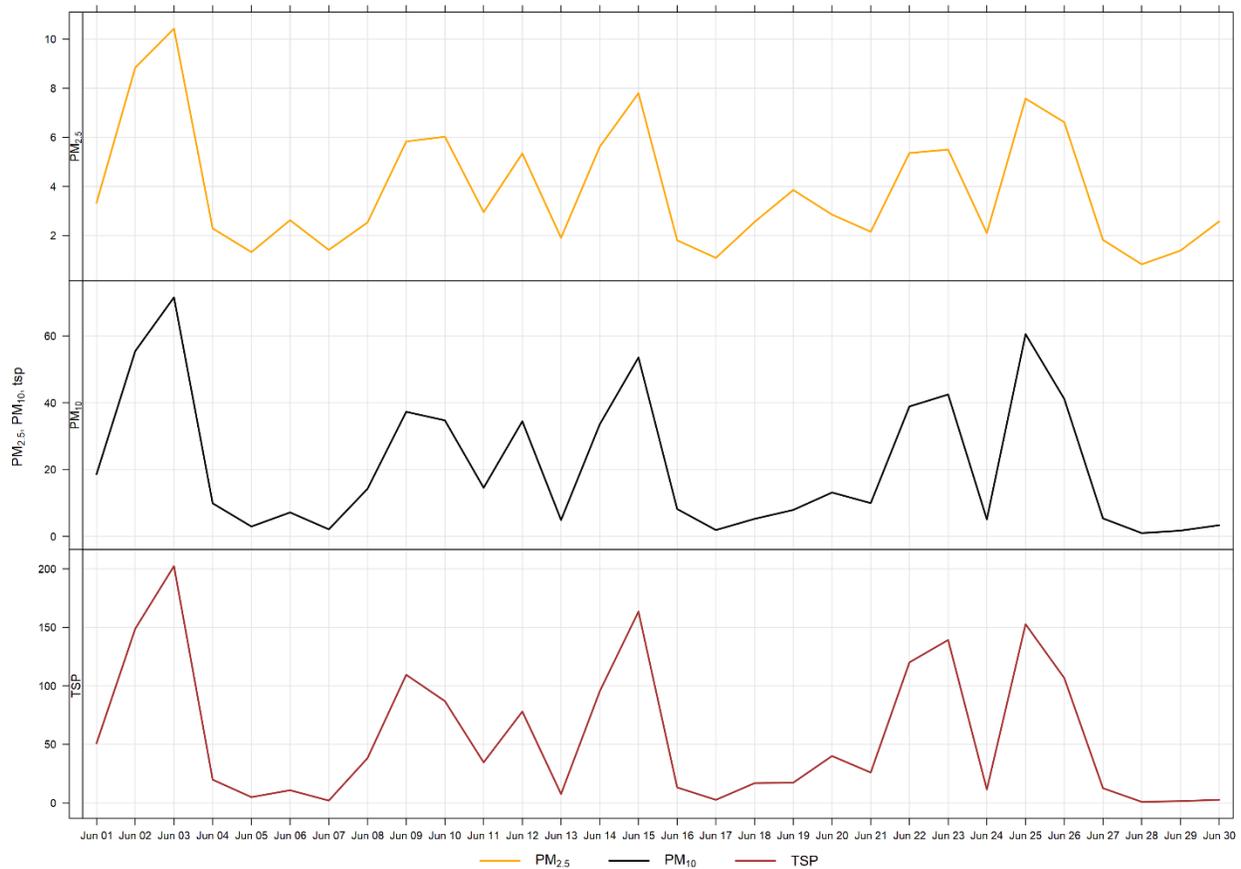


Figure 5-2 24-hour particulate matter concentrations recorded at the Berm monitor

Figure 5-3 shows the wind rose for the eight days of TSP exceedance recorded this month. The wind rose shows that the winds predominantly came from the west direction.

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

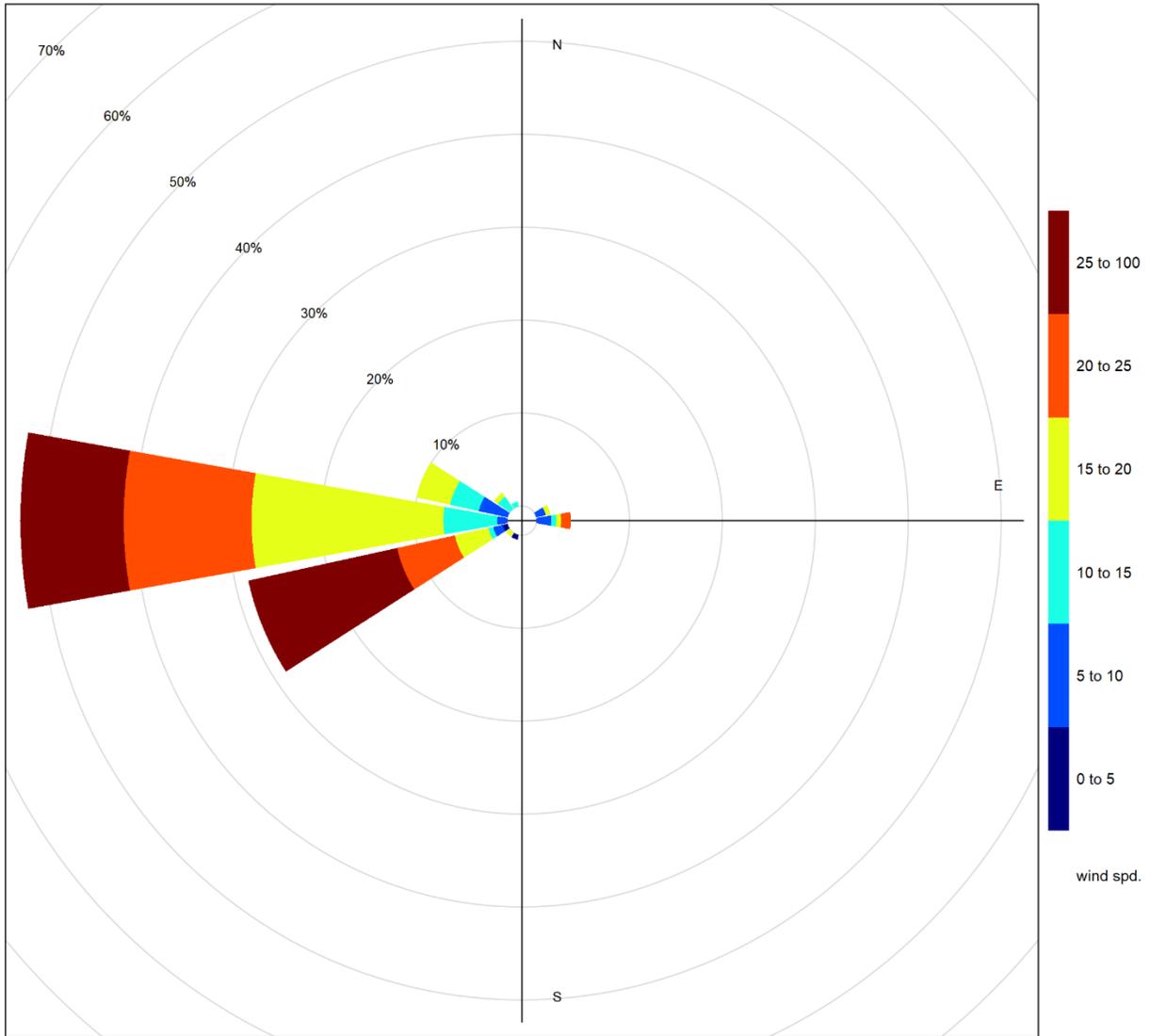


Figure 5-3 Wind rose for TSP exceedance days recorded at the Berm GRIMM

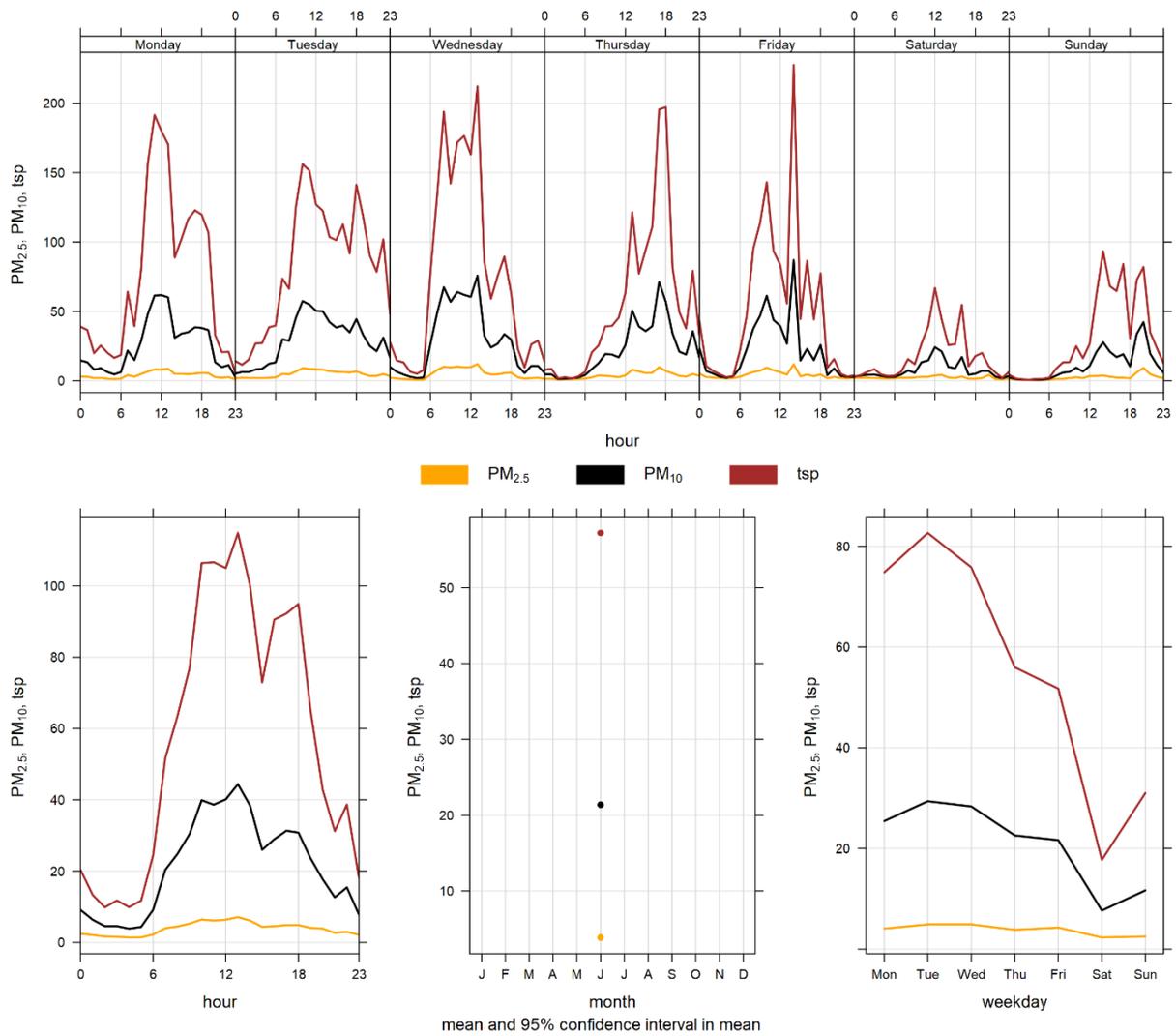


Figure 5-4 Berm particulate matter time variation

6 ENTRANCE INDUSTRIAL GRIMM

6.1 OPERATIONAL SUMMARY

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

Table 6-1 Instrumentation List at the Entrance monitoring location

Parameter Measured	Equipment Description	Notes
PM_{2.5}, PM₁₀, TSP Concentrations	GRIMM 365 Continuous Particulate Monitor	The Entrance GRIMM monitor had 99.9% uptime in June due to one hour of power failure on June 25 th at 19:00

6.2 MONITORING RESULTS AND TRENDS

The Entrance monitor was placed at its current location as a result of dispersion modelling conducted in 2009. This area was indicated as being the area where the maximum PM concentrations were expected. Figure 6-1 and Figure 6-2 show the hourly and daily PM_{2.5}, PM₁₀ and TSP concentrations recorded over the month. Table 6-2 summarizes the monthly concentrations, and the maximum 1-hour and 24-hour PM concentrations recorded during the month. Table 6-3 summarizes the recorded exceedances. This is an industrial monitor that is not Alberta Air Monitoring Directive (AMD) compliant and is not required to show compliance with the AAAQO.

During June, there were 3 and zero exceedances of the 24-hour TSP (100 µg/m³) and PM_{2.5} (29 µg/m³) guidelines, respectively.

Historically, the Entrance monitor records an average of 13 and 0 exceedances of the 24-hour TSP and PM_{2.5} guidelines respectively, during the month of June. The maximum number of TSP exceedances recorded during June occurred in 2014 (20 days), while the minimum, occurred in 2019 with 6 exceedances. The maximum number of PM_{2.5} exceedances in June was 2 days, occurring in 2011.

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

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

Figure 6-3 shows the wind rose for the 3 days that exceeded the TSP guideline. The wind rose indicates that the winds predominantly came from the west direction.

Table 6-2 Summary of June 2020 data at the Entrance GRIMM

Parameter	Guideline		Station	Exceedances		Monthly		Maximum 1-hour				Maximum 24-hour		Operational Time (Percent)	
	1-hr	24-hr		1-hr	24-hr	Minimum	Average	Maximum Concentration	Day	Hour	Wind Speed (km/hr)	Wind Direction (degrees)	Maximum Concentration		Day
PM_{2.5} (µg/m ³)	80	29	Entrance	0	0	0.3	6.0	44.8	7	18	10.4	53.5	12.1	19	99.9
PM₁₀ (µg/m ³)	-	-	Entrance	-	-	0.4	26.6	331.7	12	15	28.6	251.9	65.3	12	99.9
TSP (µg/m ³)	-	100	Entrance	-	3	0.3	51.0	701.1	25	8	14.5	296.7	106.6	25	99.9

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

Date	TSP (ug/m³)	PM_{2.5} (ug/m³)	Average Wind Direction (degrees)	Average Wind Speed (km/hr)	Average RH (%)	Root Cause (Provided by Lafarge)
Entrance						
2020-06-12	102.4	-	254.7	15.6	46.2	Winds primarily from the west
2020-06-22	100.7	-	277.1	16.3	44.1	Winds primarily from the west
2020-06-25	106.5	-	273.7	15	48.7	Winds primarily from the west
Total # of Exceedances	3	0				
Maximum # of Exceedances (April)	20 (2014)	2 (2011)				
Average # of Exceedances (April)	13	0				
Minimum # of Exceedances (April)	6 (2019)	0 (2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019)				

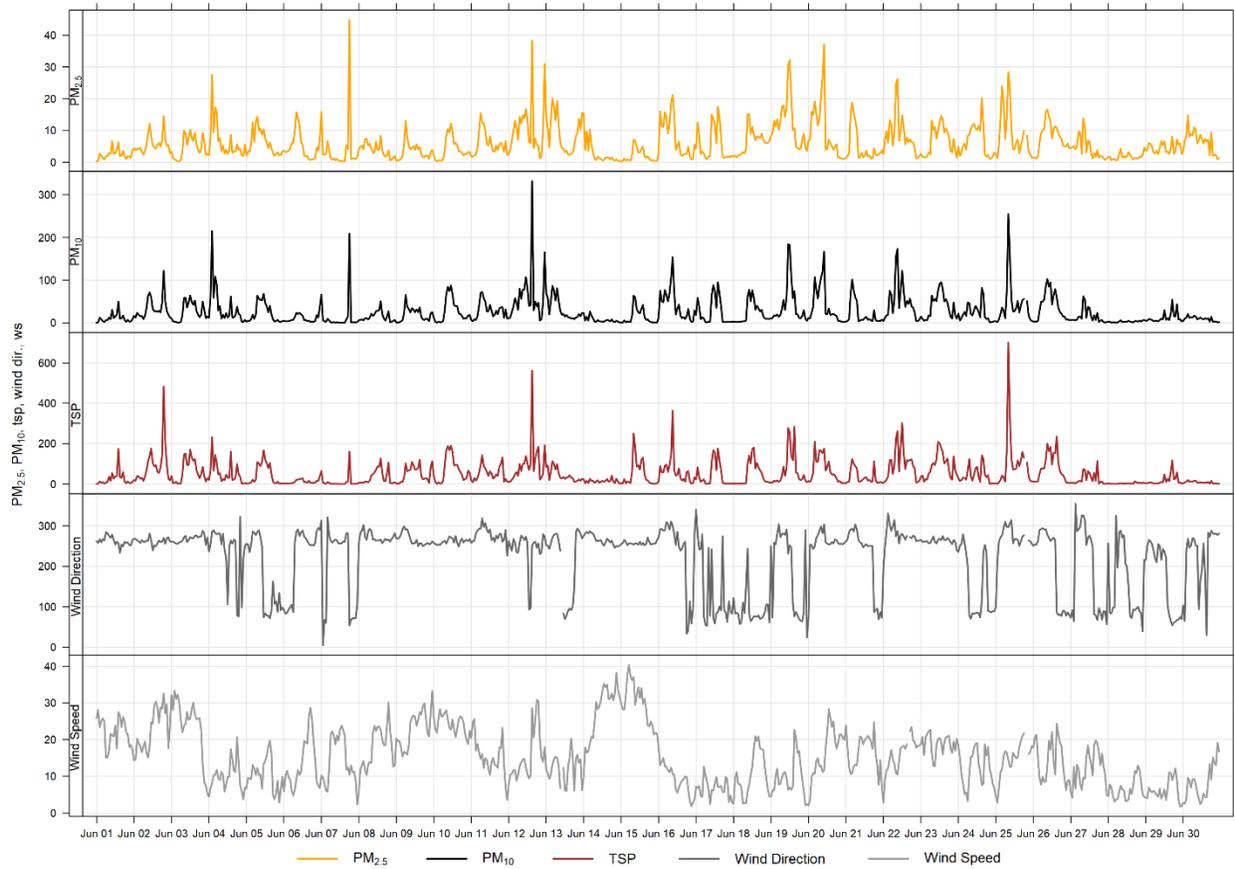


Figure 6-1 1-hour particulate matter concentrations recorded at the Entrance monitor

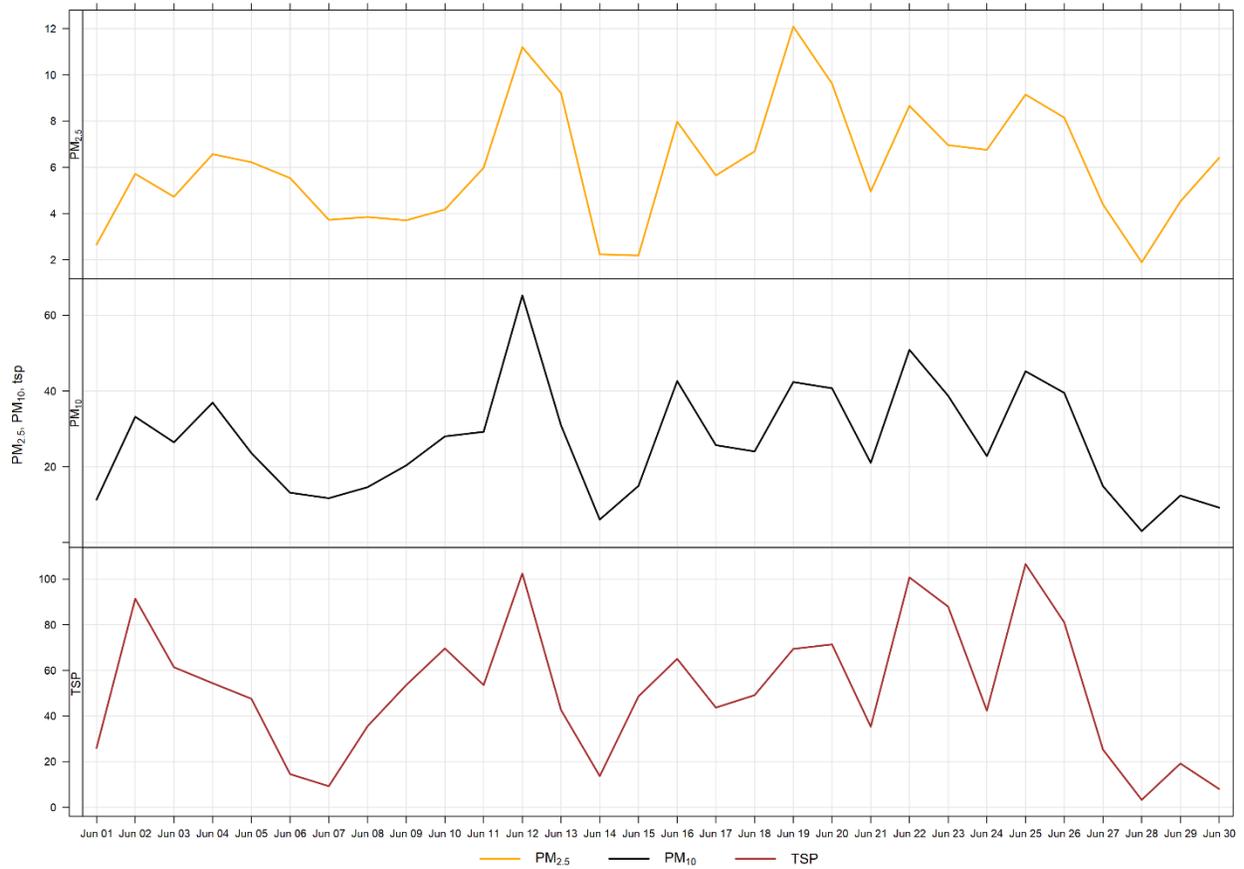


Figure 6-2 24-hour particulate matter concentrations at the Entrance monitor

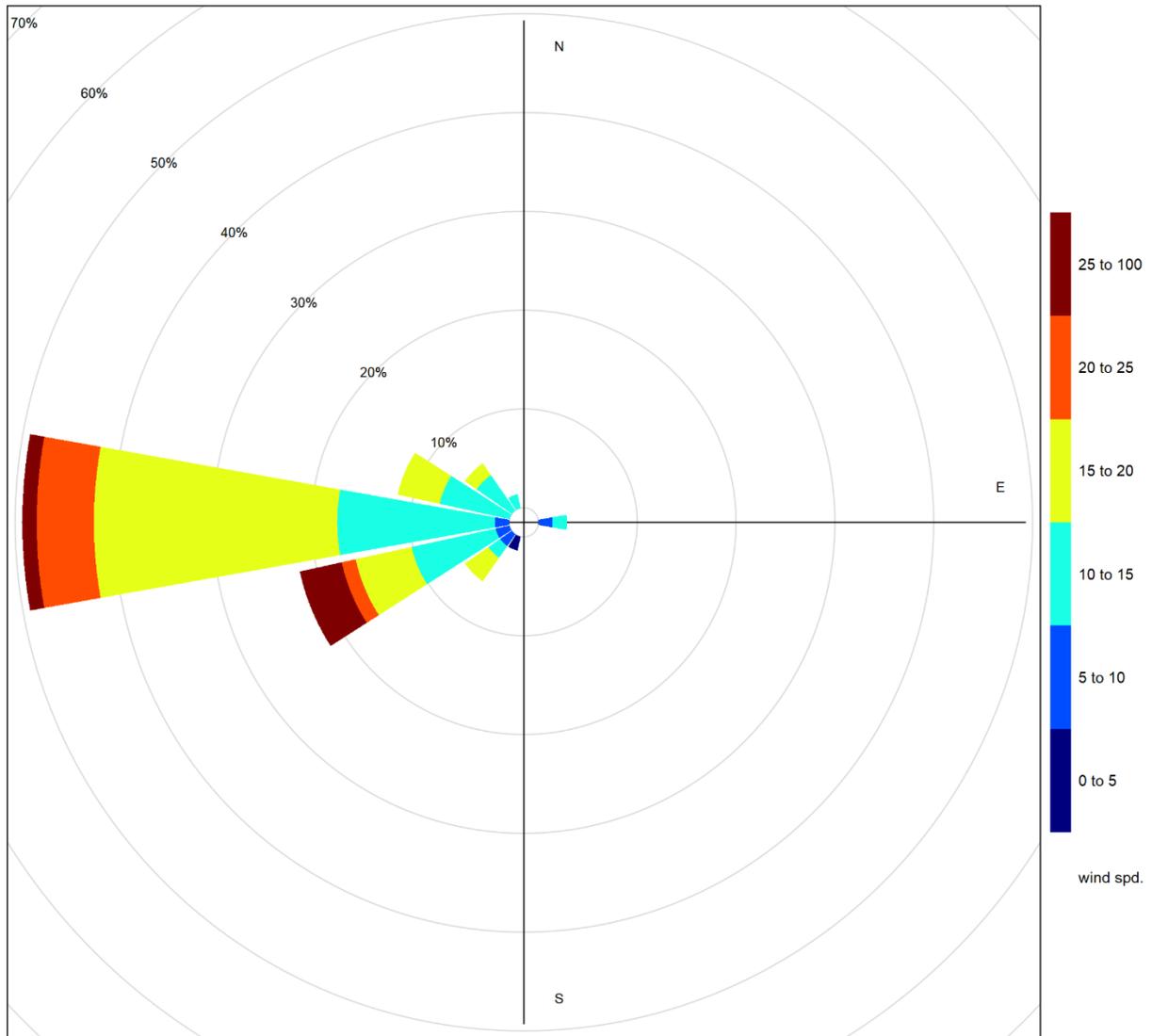


Figure 6-3 Wind rose for TSP exceedance days recorded at the Entrance GRIMM

Figure 6-4 illustrates the hourly PM concentrations recorded at the Entrance monitor, averaged over different time periods. The plot across the top shows the variation of PM over the course of a week, while the bottom three plots show the changes in PM over the course of a day, month and weekday, respectively. Figure 6-4 is based on data collected during June 2020. The diurnal pattern is 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, but can as well by industry and rail sources.

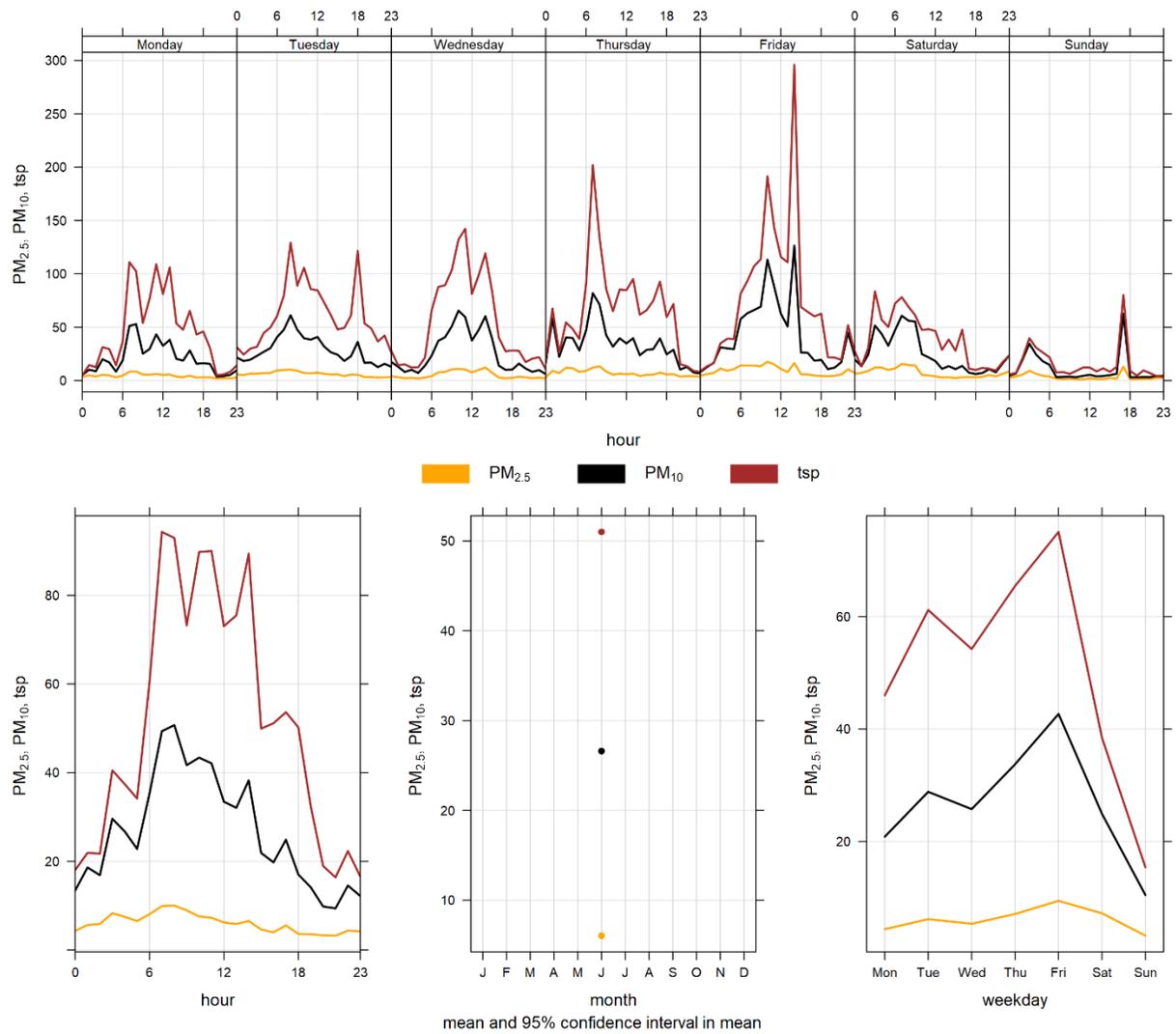


Figure 6-4 Entrance particulate matter time variation

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

APPENDIX

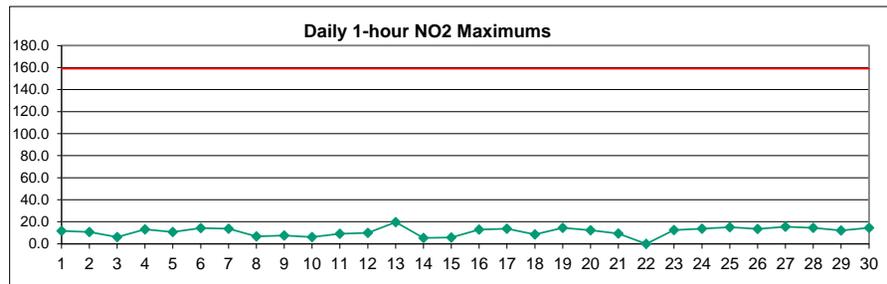
A DATA & CALIBRATION REPORTS

APPENDIX



Lagoon NO₂ (ppb) – June 2020

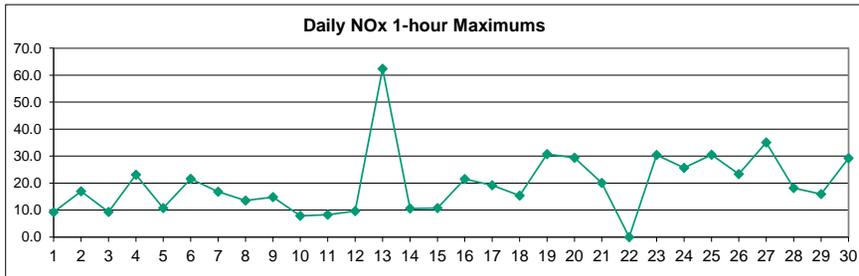
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.0	S	3.2	6.0	4.6	3.3	3.6	5.0	5.7	2.9	2.4	2.6	2.3	3.9	1.3	1.4	1.4	1.7	1.5	2.2	1.7	1.5	3.6	11.6	3.3	11.6
2	5.7	S	6.0	5.2	6.5	5.1	6.3	10.8	6.0	3.5	3.1	1.3	1.7	2.1	2.3	3.5	5.3	3.4	3.6	1.5	1.9	5.9	2.3	7.7	4.4	10.8
3	6.1	S	2.1	2.2	3.4	3.2	3.9	5.0	4.8	2.2	2.2	4.3	4.8	4.0	5.2	2.0	2.3	3.2	4.3	6.1	2.4	5.9	3.4	2.1	3.7	6.1
4	5.2	S	8.7	5.8	4.7	6.3	6.3	12.5	4.3	2.8	1.4	2.9	1.8	2.7	2.4	3.0	2.2	10.2	13.0	11.1	3.2	6.4	3.6	6.3	5.5	13.0
5	3.6	S	3.5	4.8	5.8	5.9	4.7	5.8	6.5	4.7	4.9	4.8	5.2	3.7	4.7	3.6	3.4	3.5	5.8	2.8	2.5	2.2	3.0	10.8	4.6	10.8
6	9.2	S	5.8	4.0	3.7	7.5	14.4	8.4	6.4	4.8	4.2	6.8	2.2	4.4	4.1	1.8	1.6	1.6	1.6	2.2	2.3	3.4	6.6	10.1	5.1	14.4
7	3.7	S	13.6	11.9	2.7	6.1	1.9	7.2	4.2	5.6	2.0	1.2	1.6	1.7	1.3	2.3	2.1	2.8	3.8	9.5	6.3	6.6	4.0	4.4	4.6	13.6
8	5.9	S	2.6	2.5	6.7	2.5	3.5	4.1	3.3	3.7	2.1	3.7	2.5	2.9	1.6	1.3	2.0	1.2	1.5	2.4	5.9	2.7	2.8	5.0	3.2	6.7
9	4.7	S	4.8	4.2	5.0	5.8	5.2	5.9	2.1	1.3	1.9	2.7	7.5	1.8	3.1	2.0	1.5	1.3	1.9	4.8	2.1	1.6	1.3	6.4	3.4	7.5
10	1.7	S	1.6	1.9	1.9	2.7	2.8	2.2	2.5	4.6	2.4	3.9	1.4	3.6	3.6	1.4	2.3	1.7	1.8	6.1	4.0	1.6	1.9	3.4	2.7	6.1
11	2.2	S	2.6	4.7	4.9	6.1	4.6	3.4	3.5	2.3	2.0	1.5	2.6	3.2	2.9	5.2	1.7	1.7	4.9	3.7	1.4	1.9	5.1	9.1	3.5	9.1
12	4.7	S	5.5	6.3	6.1	4.4	6.7	6.3	5.7	5.6	5.1	3.3	2.9	2.6	2.2	4.2	3.3	1.1	5.4	1.2	1.5	2.4	4.2	9.8	4.4	9.8
13	11.1	S	4.0	8.5	13.0	9.7	19.6	7.9	4.7	P	9.6	7.1	7.1	1.9	1.2	1.2	1.5	2.5	15.6	13.1	9.0	9.5	8.0	8.3	7.9	19.6
14	3.7	S	5.3	4.3	4.0	4.6	3.8	1.7	2.4	3.0	1.8	1.2	1.0	2.3	2.4	3.5	1.7	3.2	1.7	0.9	1.0	1.0	0.9	3.0	2.5	5.3
15	2.4	S	1.9	1.0	1.4	1.1	1.4	2.5	2.7	1.8	2.0	4.2	1.9	2.5	2.0	2.2	5.7	1.7	1.1	1.1	4.0	3.0	1.2	5.6	2.4	5.7
16	5.3	S	9.8	5.1	7.5	7.6	7.4	6.8	7.7	7.2	3.6	7.8	4.0	2.3	2.8	2.4	3.6	3.6	3.2	4.8	10.8	12.9	6.7	2.7	5.9	12.9
17	13.6	S	11.3	11.6	2.8	4.1	2.5	6.8	3.7	10.6	7.7	3.4	2.4	3.0	2.1	1.4	2.5	1.5	2.2	1.9	2.1	3.7	6.5	7.5	5.0	13.6
18	4.8	S	4.5	3.6	5.3	3.8	3.4	7.5	8.4	4.9	3.5	2.1	2.2	1.7	2.0	2.3	2.7	2.9	3.2	4.5	3.5	3.0	5.5	7.9	4.1	8.4
19	11.4	S	11.7	14.5	13.2	11.3	9.3	9.0	8.4	9.6	8.3	7.0	6.0	10.2	3.1	2.1	1.5	2.2	2.0	3.5	6.4	9.1	5.3	4.8	7.4	14.5
20	7.3	S	12.2	10.2	9.9	8.5	8.4	7.5	9.4	6.2	6.5	1.3	1.2	1.4	4.6	1.9	6.2	8.5	2.2	2.3	2.3	1.7	2.0	5.1	5.5	12.2
21	3.0	S	7.1	9.4	8.6	9.0	7.6	3.4	2.0	3.2	1.4	1.4	1.2	1.0	1.1	1.1	1.0	1.5	2.1	2.1	5.6	9.1	6.4	4.6	4.0	9.4
22	9.3	S	10.1	11.3	14.4	9.9	8.0	16.2	14.1	5.9	C	C	C	C	C	C	2.7	1.4	3.6	5.0	1.7	5.0	5.6	3.1	-	-
23	1.6	S	5.2	1.6	1.1	1.5	6.5	7.0	10.3	4.0	6.1	8.2	6.8	12.6	10.2	10.4	9.2	12.0	8.1	1.4	10.4	4.7	0.9	4.2	6.3	12.6
24	0.4	S	4.0	7.7	5.2	5.0	5.5	2.9	4.5	2.6	2.0	3.7	2.9	10.4	13.6	3.9	1.0	1.2	1.2	1.1	2.3	3.0	4.9	4.1	13.6	
25	3.1	S	8.1	9.6	7.1	3.7	4.9	4.8	9.0	4.6	2.0	7.6	8.3	8.4	1.1	7.3	15.0	13.9	P	P	8.3	3.5	2.2	5.7	6.6	15.0
26	3.2	S	1.5	3.3	7.2	5.3	13.5	13.2	11.8	8.1	6.8	4.8	11.8	10.1	3.3	3.1	2.4	4.9	3.5	1.7	1.8	2.4	1.7	9.8	5.9	13.5
27	2.1	S	2.1	7.8	12.9	5.4	8.8	9.0	5.9	4.8	8.0	15.5	6.2	7.2	1.3	1.0	5.9	0.9	0.7	2.1	1.4	1.2	3.4	6.0	5.2	15.5
28	6.3	S	2.3	0.9	0.9	0.9	10.0	12.9	9.1	7.6	5.6	5.2	10.6	7.4	4.4	1.2	1.6	1.0	0.4	0.7	1.9	4.4	5.6	14.4	5.0	14.4
29	5.1	S	3.7	5.8	3.5	2.1	4.3	8.0	6.7	4.2	3.1	2.3	3.8	2.7	2.2	1.8	3.8	0.6	1.8	3.1	0.6	1.2	1.3	12.0	3.6	12.0
30	3.9	S	5.6	7.2	5.4	4.9	6.7	7.5	8.0	7.4	9.6	10.7	9.3	14.4	12.5	8.9	7.3	12.1	7.6	9.7	4.0	11.0	10.3	7.6	8.3	14.4
NO.	30	-	30	30	30	30	30	30	30	29	29	29	29	29	29	29	30	30	29	29	30	30	30	30	681	99.6%
MEAN	5.1	-	5.7	6.1	6.0	5.2	6.5	7.1	6.1	4.9	4.2	4.5	4.3	4.4	3.5	3.4	3.6	3.6	3.8	3.9	3.7	4.4	3.9	6.8		
MAX	13.6	-	13.6	14.5	14.4	11.3	19.6	16.2	14.1	10.6	9.6	15.5	11.8	14.4	12.5	13.6	15.0	13.9	15.6	13.1	10.8	12.9	10.3	14.4		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	681
Maximum 1-HR Average	19.6 PPB
Maximum 24-HR Average	8.3 PPB
Monthly Calibration	6
Standard Deviation	3.3
Operational Time	717 HRS
Operational Uptime	99.6 %
Monthly Average	4.8 PPB

Lagoon NOx (ppb) – June 2020

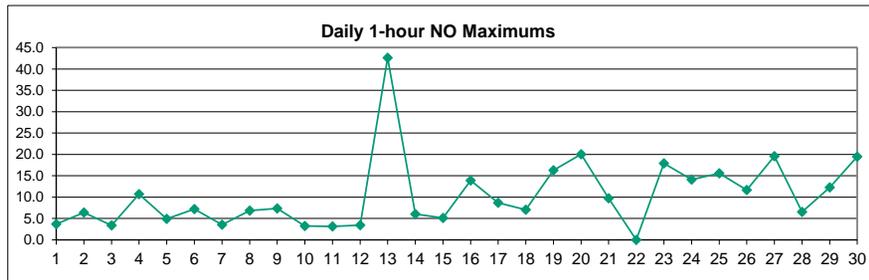
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.6	S	2.9	6.4	4.4	4.0	4.0	7.8	9.2	3.2	2.4	2.8	2.2	4.8	0.7	1.1	1.1	1.2	1.1	1.9	1.2	1.1	3.0	3.1	3.1	9.2
2	5.2	S	6.2	5.7	7.0	5.4	9.2	17.0	7.2	3.8	3.6	1.0	1.6	2.4	2.4	4.3	8.7	4.0	4.5	1.0	1.5	8.5	1.9	1.3	4.9	17.0
3	9.3	S	1.7	1.9	3.5	3.1	4.7	6.8	7.2	2.4	2.2	6.0	6.6	5.3	8.1	2.0	2.3	3.9	5.4	8.4	2.0	5.5	2.9	3.7	4.6	9.3
4	4.6	S	10.1	5.6	4.3	6.2	8.4	23.1	5.5	3.0	1.1	3.4	1.7	3.0	3.1	3.5	1.9	14.3	17.0	15.2	2.7	6.1	3.1	3.2	6.5	23.1
5	3.4	S	3.2	6.1	6.9	7.7	6.4	10.7	10.6	6.6	6.7	6.7	6.8	4.5	5.7	3.7	3.0	3.2	6.0	2.4	1.9	1.8	2.5	5.5	5.3	10.7
6	10.1	S	5.9	3.6	3.3	11.7	21.5	10.5	8.8	5.7	5.2	11.6	2.0	5.1	4.9	1.4	1.2	1.1	1.2	1.7	1.7	3.2	9.2	2.1	5.8	21.5
7	3.7	S	16.8	11.6	2.1	9.6	1.5	9.2	5.2	7.8	1.8	0.9	1.3	1.5	1.0	2.2	2.0	2.8	4.0	11.2	7.3	6.7	3.4	3.9	5.1	16.8
8	6.2	S	2.4	2.2	13.5	2.4	6.2	7.3	5.1	6.1	2.8	5.9	3.2	3.6	1.6	1.2	2.6	0.9	1.5	2.6	9.3	2.6	2.3	2.1	4.1	13.5
9	7.0	S	6.9	5.4	7.1	8.6	7.8	10.3	2.5	1.3	2.6	4.6	14.8	2.1	4.1	2.3	1.5	1.0	1.8	6.0	1.7	1.2	0.9	4.2	4.6	14.8
10	1.3	S	1.3	1.8	1.7	2.8	3.3	2.8	3.5	7.8	3.0	6.5	1.4	5.4	5.4	1.3	2.6	2.3	1.7	7.8	4.3	1.1	1.6	1.7	3.2	7.8
11	1.9	S	3.8	6.5	6.4	8.2	5.1	4.0	4.3	2.3	1.8	1.3	3.2	3.6	3.4	8.3	1.4	1.5	6.6	5.6	1.0	1.4	4.5	5.1	4.0	8.3
12	4.2	S	6.7	8.0	5.9	4.3	9.6	9.0	9.1	8.8	7.0	4.0	2.9	2.3	1.9	4.7	3.8	0.6	7.8	0.9	0.9	1.9	5.2	4.1	4.9	9.6
13	13.9	S	3.7	13.6	29.5	20.4	62.3	22.5	5.5	P	14.3	9.4	10.7	1.6	0.8	0.8	1.1	2.1	26.7	18.6	10.7	12.2	10.7	5.2	13.5	62.3
14	3.6	S	9.0	7.2	6.0	10.6	5.1	1.9	3.3	4.5	2.3	1.0	0.5	3.2	4.8	6.5	1.9	5.8	1.7	0.6	0.6	0.7	0.6	0.7	3.6	10.6
15	2.8	S	1.8	0.7	1.4	0.9	1.5	4.1	3.4	2.0	2.9	8.2	2.5	3.1	2.3	2.6	10.7	1.7	0.6	0.8	5.0	3.5	0.8	3.6	2.9	10.7
16	7.0	S	16.4	10.1	18.8	14.0	14.5	13.0	21.5	13.4	5.1	11.2	4.9	2.2	3.2	2.4	3.9	4.1	3.3	4.7	14.3	14.3	6.3	9.2	9.5	21.5
17	16.4	S	12.8	13.3	2.4	8.5	2.4	9.1	4.3	19.2	12.5	4.5	4.2	4.0	1.9	1.0	2.6	1.1	2.0	1.7	1.7	3.8	15.0	7.2	6.6	19.2
18	8.7	S	6.0	3.2	6.4	4.1	4.4	11.4	15.4	8.3	4.6	2.3	2.5	1.6	2.0	2.9	3.3	3.1	3.0	4.6	2.9	2.5	7.9	13.4	5.4	15.4
19	17.6	S	13.4	30.8	19.4	15.0	16.4	16.1	12.0	22.3	11.1	10.5	9.5	24.2	4.2	2.2	1.3	2.2	2.7	5.0	6.3	9.3	4.8	16.0	11.8	30.8
20	26.1	S	20.3	20.9	22.2	26.4	23.9	20.6	29.4	13.3	15.3	0.9	0.9	1.1	7.0	2.1	10.7	13.6	2.0	2.0	2.4	1.3	1.6	5.3	11.7	29.4
21	2.8	S	10.0	18.4	15.6	17.4	15.9	4.4	2.0	5.2	1.1	1.1	0.8	0.6	0.8	0.7	0.6	1.2	1.9	1.9	6.5	11.4	5.8	20.0	6.3	20.0
22	9.1	S	13.4	22.9	29.4	18.5	16.4	51.7	36.8	9.4	C	C	C	C	C	C	6.1	2.1	6.0	9.5	2.0	6.4	7.1	5.2	-	-
23	1.8	S	9.3	1.9	1.1	1.8	9.7	10.6	20.1	6.6	16.9	21.2	14.6	30.4	24.1	23.9	19.1	22.5	12.7	2.0	22.9	7.3	1.1	0.4	12.3	30.4
24	0.4	S	5.6	10.0	5.3	5.9	6.9	9.0	4.8	8.2	4.0	3.0	5.1	4.7	24.5	25.6	6.2	1.2	1.3	1.4	1.3	2.6	3.6	3.4	6.3	25.6
25	3.8	S	14.5	24.9	18.6	6.8	17.5	14.3	22.4	8.7	3.1	17.9	15.8	17.9	1.6	16.3	30.5	24.2	P	P	10.8	3.5	2.3	2.1	13.2	30.5
26	3.7	S	1.7	3.6	8.5	6.2	16.7	18.2	17.0	12.2	9.6	8.6	23.3	16.9	3.9	3.7	2.7	6.6	3.9	1.7	2.0	2.5	1.7	1.8	7.7	23.3
27	2.3	S	2.3	12.3	22.3	6.7	17.0	17.2	11.1	7.9	16.1	35.1	11.3	12.5	1.5	1.2	10.6	1.3	0.9	2.6	1.5	1.4	5.0	3.0	8.8	35.1
28	6.5	S	2.6	1.1	1.0	1.0	16.7	18.2	11.0	9.8	7.8	6.6	15.8	11.4	6.6	1.9	2.6	1.5	0.5	0.9	1.8	4.5	8.6	6.7	6.3	18.2
29	5.4	S	4.0	6.9	3.7	2.3	5.3	15.9	10.8	5.5	4.5	3.7	5.9	4.4	3.7	3.1	7.7	0.9	4.1	6.0	0.7	1.9	3.3	15.0	5.4	15.9
30	14.8	S	8.4	13.1	6.6	8.5	18.8	17.7	20.9	22.2	29.2	26.1	14.0	21.6	20.0	15.7	10.4	21.3	13.2	15.0	5.1	23.6	18.7	7.6	16.2	29.2
NO.	30	-	30	30	30	30	30	30	30	29	29	29	29	29	29	29	30	30	29	29	30	30	30	30	681	99.6%
MEAN	6.8	-	7.4	9.3	9.5	8.3	12.0	13.1	11.0	8.2	6.9	7.8	6.6	7.1	5.4	5.1	5.5	5.1	5.0	5.0	4.5	5.1	4.9	5.5		
MAX	26.1	-	20.3	30.8	29.5	26.4	62.3	51.7	36.8	22.3	29.2	35.1	23.3	30.4	24.5	25.6	30.5	24.2	26.7	18.6	22.9	23.6	18.7	20.0		



Number of Non-Zero Readings	681
Maximum 1-HR Average	62.3 PPB
Maximum 24-HR Average	16.2 PPB
Monthly Calibration	6
Standard Deviation	7.142
Operational Time	717 HRS
Operational Uptime	99.6 %
Monthly Average	7.2 PPB

Lagoon NO (ppb) – June 2020

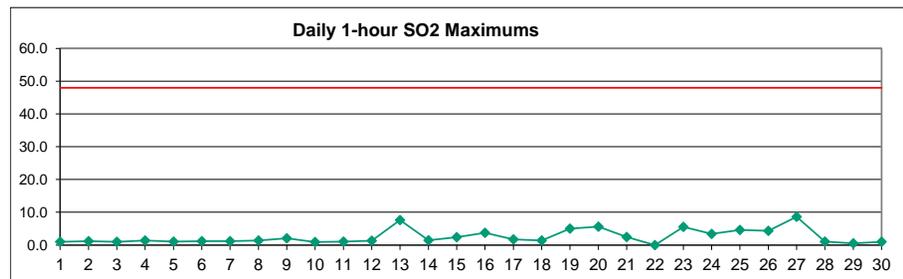
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.0	S	0.0	0.6	0.0	0.8	0.6	2.9	3.7	0.5	0.2	0.5	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.7
2	0.0	S	0.4	0.7	0.8	0.4	3.1	6.4	1.4	0.5	0.7	0.0	0.1	0.5	0.4	1.0	3.6	0.8	1.1	0.0	0.0	2.9	0.0	0.0	1.1	6.4
3	3.4	S	0.0	0.0	0.4	0.2	1.0	2.0	2.6	0.4	0.2	1.9	2.0	1.4	3.1	0.2	0.2	0.9	1.4	2.5	0.0	0.0	0.0	0.0	1.0	3.4
4	0.0	S	1.7	0.0	0.0	0.2	2.2	10.7	1.3	0.5	0.0	0.7	0.1	0.4	0.9	0.7	0.0	4.3	4.1	4.1	0.0	0.0	0.0	0.3	1.4	10.7
5	0.0	S	0.0	1.3	1.2	1.8	1.7	4.9	4.1	1.8	1.9	1.9	1.7	0.8	1.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.1	4.9
6	1.0	S	0.2	0.0	0.0	4.2	7.2	2.1	2.4	0.9	1.0	4.8	0.0	0.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	1.2	7.2
7	0.0	S	3.1	0.0	0.0	3.5	0.0	2.0	1.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	1.1	0.1	0.0	0.0	0.7	3.5
8	0.3	S	0.0	0.0	6.9	0.0	2.7	3.2	1.8	2.3	0.7	2.3	0.8	0.8	0.1	0.0	0.7	0.0	0.0	0.2	3.4	0.0	0.0	0.0	1.1	6.9
9	2.3	S	2.2	1.2	2.2	2.8	2.6	4.3	0.4	0.0	0.8	1.8	7.3	0.2	1.0	0.3	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	1.4	7.3
10	0.0	S	0.0	0.0	0.0	0.1	0.5	0.6	1.0	3.2	0.6	2.7	0.1	1.8	1.8	0.0	0.4	0.6	0.0	1.8	0.3	0.0	0.0	0.0	0.7	3.2
11	0.0	S	1.2	1.8	1.5	2.1	0.6	0.7	0.8	0.1	0.0	0.0	0.6	0.5	0.5	3.1	0.0	0.0	1.7	1.8	0.0	0.0	0.0	0.2	0.7	3.1
12	0.0	S	1.2	1.8	0.0	0.0	2.9	2.7	3.5	3.2	1.9	0.7	0.1	0.0	0.0	0.5	0.5	0.0	2.4	0.0	0.0	0.0	1.1	0.0	1.0	3.5
13	2.9	S	0.0	5.2	16.5	10.6	42.6	14.6	0.9	P	4.7	2.4	3.6	0.0	0.0	0.0	0.0	0.0	11.2	5.6	1.8	2.7	2.8	0.2	5.8	42.6
14	0.0	S	3.8	3.0	2.1	6.0	1.4	0.2	1.0	1.6	0.5	0.0	0.0	1.0	2.5	3.1	0.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.0
15	0.4	S	0.0	0.0	0.0	0.0	0.1	1.7	0.7	0.3	0.9	4.0	0.7	0.6	0.3	0.4	5.1	0.1	0.0	0.0	1.1	0.6	0.0	1.0	0.8	5.1
16	1.7	S	6.7	5.1	11.3	6.5	7.1	6.3	13.9	6.3	1.6	3.5	0.9	0.0	0.5	0.1	0.4	0.6	0.2	0.0	3.5	1.4	0.0	0.5	3.4	13.9
17	2.9	S	1.6	1.7	0.0	4.4	0.0	2.5	0.6	8.7	4.9	1.1	1.9	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	8.6	2.6	1.9	8.7
18	4.0	S	1.6	0.0	1.1	0.3	1.0	4.0	7.0	3.5	1.2	0.2	0.4	0.0	0.1	0.6	0.6	0.2	0.0	0.1	0.0	0.0	2.5	4.0	1.4	7.0
19	6.3	S	1.8	16.3	6.3	3.8	7.1	7.2	3.7	12.8	2.9	3.5	3.6	14.0	1.1	0.1	0.0	0.1	0.8	1.7	0.1	0.3	0.0	10.9	4.5	16.3
20	18.8	S	8.1	10.8	12.4	17.9	15.6	13.2	20.0	7.2	8.9	0.0	0.0	0.0	2.5	0.2	4.5	5.1	0.0	0.0	0.1	0.0	0.0	1.9	6.4	20.0
21	0.0	S	3.0	9.1	7.1	8.4	8.4	1.1	0.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.4	0.0	9.7	2.3	9.7
22	0.0	S	3.4	11.6	15.0	8.7	8.4	35.4	22.6	3.5	C	C	C	C	C	C	3.4	0.8	2.5	4.6	0.4	1.6	1.6	1.0	-	-
23	0.3	S	4.2	0.5	0.2	0.4	3.4	3.8	9.9	2.7	10.9	13.1	7.9	17.9	13.9	13.6	10.1	10.6	4.7	0.8	12.5	2.7	0.3	0.2	6.3	17.9
24	0.2	S	1.8	2.5	0.3	1.0	1.6	3.5	1.9	3.7	1.4	1.0	1.5	1.8	14.1	12.1	2.5	0.4	0.3	0.4	0.3	0.4	0.7	0.4	2.3	14.1
25	0.9	S	6.5	15.4	11.6	3.2	12.6	9.6	13.5	4.1	1.2	10.4	7.6	9.7	0.7	9.2	15.6	10.4	P	P	2.7	0.2	0.2	0.4	6.9	15.6
26	0.6	S	0.4	0.5	1.4	1.1	3.3	5.1	5.3	4.2	2.9	3.9	11.7	6.9	0.7	0.7	0.4	1.9	0.6	0.2	0.4	0.3	0.1	0.3	2.3	11.7
27	0.3	S	0.3	4.6	9.5	1.4	8.3	8.3	5.3	3.2	8.1	19.6	5.2	5.4	0.4	0.4	4.6	0.2	0.1	0.4	0.0	0.1	1.6	0.2	3.8	19.6
28	0.2	S	0.3	0.0	0.0	0.0	6.5	5.2	1.8	2.1	2.1	1.3	5.1	3.9	2.1	0.6	0.9	0.4	0.0	0.1	0.0	0.1	2.9	3.2	1.7	6.5
29	0.3	S	0.2	1.1	0.1	0.2	0.9	7.8	4.0	1.2	1.3	1.2	2.0	1.6	1.4	1.2	3.7	0.3	2.2	2.8	0.0	0.6	1.9	12.3	2.1	12.3
30	10.8	S	2.7	5.9	1.1	3.5	12.0	10.2	12.8	14.7	19.5	15.3	4.6	7.0	7.4	6.7	3.0	9.1	5.4	5.1	1.1	12.5	8.4	2.1	7.9	19.5
NO.	30	-	30	30	30	30	30	30	30	29	29	29	29	29	29	29	30	30	29	29	30	30	30	30	681	99.6%
MEAN	1.9	-	1.9	3.4	3.6	3.1	5.5	6.1	5.0	3.4	2.8	3.4	2.4	2.7	2.0	1.9	2.0	1.6	1.3	1.2	1.0	1.0	1.2	1.7		
MAX	18.8	-	8.1	16.3	16.5	17.9	42.6	35.4	22.6	14.7	19.5	19.6	11.7	17.9	14.1	13.6	15.6	10.6	11.2	5.6	12.5	12.5	8.6	12.3		



Number of Non-Zero Readings	515
Maximum 1-HR Average	42.6 PPB
Maximum 24-HR Average	7.9 PPB
Monthly Calibration	6
Standard Deviation	4.336
Operational Time	717 HRS
Operational Uptime	99.6 %
Monthly Average	2.6 PPB

Lagoon SO₂ (ppb) – June 2020

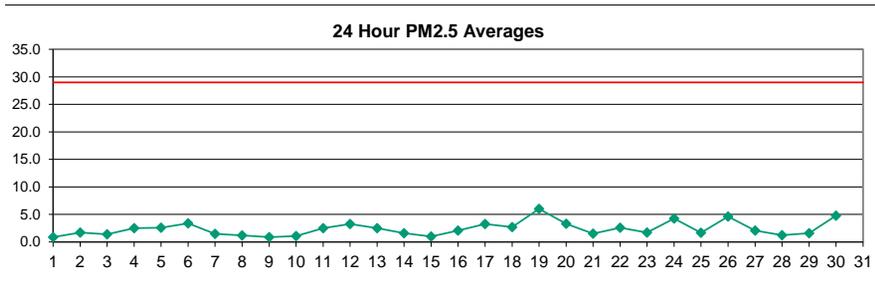
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.7	S	0.2	0.6	0.0	0.3	0.5	0.7	0.9	0.9	0.8	0.7	0.0	0.0	1.0	0.6	0.1	0.6	0.3	0.2	0.9	0.2	0.4	0.6	0.5	1.0
2	0.9	S	0.3	0.2	0.3	0.3	0.5	0.6	0.4	0.2	1.2	0.8	0.4	0.4	0.0	0.4	0.6	0.6	0.3	0.3	0.4	0.3	0.7	0.8	0.5	1.2
3	0.8	S	0.4	0.4	0.6	0.7	0.9	0.9	1.0	0.6	0.1	0.4	0.2	0.4	0.4	0.2	0.4	0.4	0.5	0.2	0.3	0.3	0.4	0.5	0.5	1.0
4	0.4	S	0.0	0.4	0.4	0.9	0.4	1.0	0.4	0.9	1.2	0.7	0.7	0.6	0.8	0.7	0.8	1.4	1.0	0.5	0.3	0.4	0.3	1.1	0.7	1.4
5	0.9	S	0.9	0.9	0.7	0.1	0.8	0.0	0.5	1.0	0.5	1.0	0.8	0.7	0.5	0.6	0.9	1.0	0.4	0.8	1.0	0.6	1.0	0.6	0.7	1.0
6	1.2	S	1.2	0.6	1.2	1.1	1.0	1.1	1.0	0.8	0.8	0.9	1.2	1.0	0.6	1.1	0.0	0.6	0.9	1.1	1.0	0.6	0.6	0.7	0.9	1.2
7	1.0	S	1.2	1.0	0.8	0.8	0.4	0.3	0.7	1.0	0.7	0.7	1.0	1.1	0.6	0.9	1.2	0.8	0.9	0.7	0.6	0.4	0.8	0.9	0.8	1.2
8	1.4	S	0.4	1.1	0.6	0.7	0.9	1.3	0.5	1.2	0.7	0.6	0.4	0.7	0.5	0.6	0.5	0.3	0.0	0.7	0.5	0.5	0.0	0.2	0.6	1.4
9	0.3	S	0.8	0.3	0.5	0.9	0.8	0.5	0.0	0.7	0.6	1.1	2.0	1.0	0.7	0.9	0.6	0.8	0.4	0.6	0.4	1.3	0.9	0.8	0.7	2.0
10	0.9	S	0.5	0.3	0.2	0.7	0.7	0.6	0.5	0.8	0.0	0.7	0.0	0.5	0.8	0.6	0.2	0.5	0.3	0.7	0.5	0.9	0.6	0.6	0.5	0.9
11	0.6	S	0.3	0.8	0.8	0.5	0.6	0.5	0.3	0.7	0.3	0.2	0.0	0.1	0.7	0.4	0.0	0.0	0.2	0.3	0.3	0.2	1.0	0.4	0.4	1.0
12	0.1	S	0.8	0.3	0.1	0.3	0.3	1.1	0.3	0.4	1.0	0.3	0.9	0.8	0.8	0.3	0.3	0.3	0.5	0.4	0.5	0.9	1.3	0.7	0.6	1.3
13	1.9	S	0.5	1.6	2.9	2.4	7.6	4.6	0.7	P	1.9	0.6	0.5	0.6	0.9	1.5	1.2	0.9	1.5	1.5	1.0	0.8	0.9	1.5	1.7	7.6
14	0.8	S	1.2	1.0	1.3	1.5	0.5	0.7	1.3	0.7	0.6	1.0	1.0	0.9	1.3	1.1	1.2	0.7	0.2	1.0	0.9	0.6	0.7	0.1	0.9	1.5
15	1.1	S	0.3	0.5	0.2	0.6	1.2	0.6	0.5	1.2	0.6	2.3	1.1	0.9	0.5	0.5	2.4	0.7	0.6	0.7	0.7	0.1	0.4	0.2	0.8	2.4
16	0.7	S	3.0	1.1	1.3	2.0	1.9	1.2	3.8	2.3	1.4	3.0	1.0	0.4	0.7	0.6	0.3	0.5	0.7	0.6	0.5	0.3	0.3	0.1	1.2	3.8
17	0.3	S	0.1	0.0	0.1	0.1	0.2	0.0	0.4	0.9	1.7	0.8	0.6	0.8	0.1	0.3	0.4	0.3	0.2	0.0	0.4	0.4	0.4	0.0	0.4	1.7
18	0.1	S	0.0	0.5	0.0	0.2	0.2	0.6	1.4	0.4	0.0	0.0	0.8	0.8	0.4	0.3	0.6	1.0	0.8	0.3	0.5	0.4	0.7	0.4	0.5	1.4
19	0.7	S	0.4	1.8	1.6	1.2	0.5	1.2	0.7	0.8	0.8	0.8	1.5	5.0	0.6	0.0	0.2	0.4	0.8	0.7	0.3	0.2	0.5	0.9	0.9	5.0
20	0.7	S	1.2	1.6	3.1	3.1	3.1	3.6	5.6	1.8	0.9	0.8	0.4	0.9	0.6	1.1	1.1	0.8	0.5	0.3	0.8	0.5	0.6	0.7	1.5	5.6
21	0.8	S	1.6	2.3	2.0	2.4	2.2	0.7	0.5	0.5	0.5	0.9	1.1	0.7	0.9	1.0	0.8	1.1	1.0	0.6	0.9	1.0	0.2	1.0	1.1	2.4
22	0.9	S	1.8	3.2	6.0	3.5	13.1	11.1	7.7	1.6	C	C	C	C	C	C	1.1	0.0	0.8	0.7	0.0	0.0	0.0	0.0	-	-
23	0.2	S	0.1	0.0	0.3	0.0	0.0	0.2	0.6	0.2	2.0	4.9	1.2	4.7	5.6	5.0	3.8	3.7	1.2	0.4	4.7	1.2	0.1	0.0	1.7	5.6
24	0.0	S	0.3	0.5	0.0	0.0	0.1	0.3	0.0	0.2	0.5	0.4	0.4	0.0	2.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	3.4
25	0.0	S	0.0	0.8	1.0	0.2	2.6	1.0	2.4	0.7	0.0	4.4	2.0	2.9	0.4	4.2	4.6	4.3	P	P	1.4	0.0	0.0	0.0	1.6	4.6
26	0.2	S	0.0	0.0	0.4	0.8	1.9	1.1	1.6	0.3	0.4	0.5	4.4	2.0	0.0	0.3	0.0	0.2	0.0	0.5	0.5	0.1	0.1	0.0	0.7	4.4
27	0.2	S	0.3	0.4	1.2	0.8	1.1	1.1	1.5	0.9	4.1	8.6	3.4	2.2	0.5	0.7	0.7	0.3	0.0	0.6	0.0	0.0	0.0	0.8	1.3	8.6
28	0.2	S	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.5	0.0	0.2	0.6	0.4	0.8	0.1	0.0	1.0	0.0	0.1	0.0	0.3	0.2	0.2	0.2	1.0
29	0.0	S	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.5	0.0	0.1	0.5
30	0.0	S	0.0	0.3	0.0	0.9	0.6	0.0	0.0	0.7	0.5	0.4	0.8	0.5	0.9	0.9	0.3	1.0	0.9	0.9	0.0	0.4	0.5	0.9	0.5	1.0
NO.	30	-	30	30	30	30	30	30	29	29	29	29	29	29	29	29	30	30	29	29	30	30	30	30	681	99.6%
MEAN	0.6	-	0.6	0.8	0.9	0.9	1.1	1.2	1.2	0.8	0.8	1.3	1.0	1.1	0.8	1.0	0.8	0.8	0.5	0.5	0.7	0.4	0.5	0.5		
MAX	1.9	-	3.0	3.2	6.0	3.5	7.6	11.1	7.7	2.3	4.1	8.6	4.4	5.0	5.6	5.0	4.6	4.3	1.5	1.5	4.7	1.3	1.3	1.5		



Number of 1HR Exceedences	0
Number of Non-Zero Readings	606
Maximum 1-HR Average	8.6 PPB
Maximum 24-HR Average	1.7 PPB
Monthly Calibration	6
Standard Deviation	1.069
Operational Time	717 HRS
Operational Uptime	99.6 %
Monthly Average	0.8 PPB

Lagoon PM_{2.5} (µg/m³) – June 2020

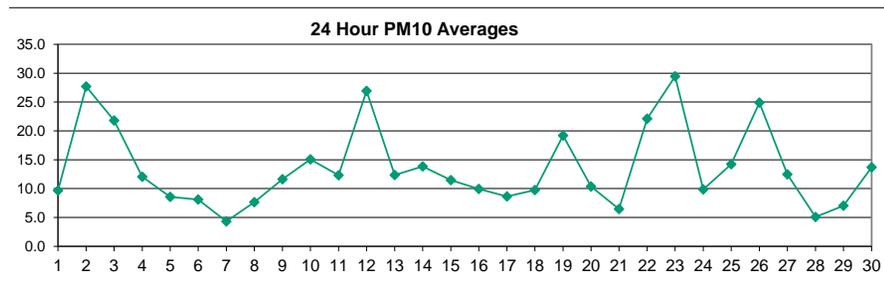
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.1	0.0	0.0	1.9	0.1	1.9	2.6	1.2	1.9	2.6	0.0	0.0	0.0	0.0	0.0	0.4	2.2	0.4	0.4	2.2	0.4	0.0	1.9	0.8	2.6	
2	0.0	0.0	3.0	1.5	0.0	1.9	3.3	0.4	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	9.1	6.2	1.4	2.0	6.5	4.4	1.7	9.1
3	2.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2	2.6	0.7	1.3	2.2	2.2	4.4	3.3	0.1	0.0	0.8	0.7	2.2	3.3	2.2	0.4	1.4	4.4
4	0.4	1.9	2.6	5.5	3.7	3.3	3.7	3.3	3.0	1.5	0.0	0.0	0.0	0.1	1.5	0.1	0.0	0.8	2.6	8.0	8.3	3.7	1.9	4.4	2.5	8.3
5	3.3	2.6	1.9	0.8	2.2	3.7	1.8	2.9	4.7	4.1	2.9	1.9	1.5	4.7	4.0	1.5	0.0	0.8	2.6	2.2	1.9	1.9	3.0	4.7	2.6	4.7
6	3.7	3.3	2.6	4.4	7.3	6.5	6.5	9.8	8.3	4.7	6.0	4.7	2.6	2.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	2.9	3.4	9.8
7	2.2	1.5	0.0	2.6	4.4	2.6	2.2	1.2	0.1	0.0	0.0	2.6	3.0	0.1	0.0	0.0	2.2	1.9	1.5	2.6	1.5	0.8	1.5	0.1	1.4	4.4
8	3.5	2.6	0.0	0.0	0.1	0.8	0.1	0.0	0.8	0.8	0.0	0.1	0.0	0.4	3.7	0.1	0.0	0.0	3.2	3.6	3.0	2.2	1.5	1.5	1.2	3.7
9	0.8	0.0	1.5	0.8	1.1	1.5	0.0	0.0	2.2	1.9	1.9	0.0	0.0	0.4	0.1	0.0	0.4	2.9	3.6	0.8	0.0	0.0	0.0	0.4	0.9	3.6
10	2.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.1	1.9	2.2	2.2	1.2	0.0	1.5	1.5	2.6	3.3	2.1	1.2	1.1	3.3
11	0.6	1.5	1.2	1.8	3.0	0.0	1.5	3.4	1.9	1.2	0.0	0.1	2.2	1.9	0.4	1.2	3.7	10.1	7.6	5.1	3.1	2.9	2.6	3.3	2.5	10.1
12	3.3	4.4	4.1	2.6	1.5	0.1	1.5	4.0	6.9	6.5	4.0	2.6	3.3	2.9	3.7	11.0	5.8	0.8	2.2	0.8	0.0	3.7	2.6	0.1	3.3	11.0
13	0.6	0.8	1.5	2.2	3.3	0.8	2.2	3.3	3.0	P	2.6	1.3	0.0	2.9	2.0	1.2	1.2	3.7	4.7	4.4	4.4	3.0	2.2	6.2	2.5	6.2
14	8.3	6.9	4.0	2.2	0.1	1.1	2.6	0.8	0.1	0.4	0.0	0.0	0.0	0.0	1.5	2.2	1.2	0.0	2.2	2.2	1.5	0.0	0.0	0.0	1.6	8.3
15	0.0	0.0	2.2	0.4	0.1	1.5	0.1	0.0	0.0	3.3	2.2	0.0	0.0	0.0	1.2	2.9	2.6	4.0	2.2	0.0	0.1	0.4	0.0	0.1	1.0	4.0
16	2.6	1.5	1.5	3.3	3.0	1.5	0.0	0.4	2.6	0.8	4.0	3.3	0.4	0.0	0.0	0.4	2.2	1.9	4.0	2.9	4.7	4.1	2.6	1.8	2.1	4.7
17	4.0	5.1	5.1	4.8	5.1	2.6	4.1	6.2	5.1	2.9	4.4	4.7	2.9	1.9	0.1	0.0	0.0	4.7	4.4	2.6	1.9	1.1	2.2	1.9	3.2	6.2
18	2.6	2.6	1.2	3.3	2.6	2.2	2.6	2.9	4.4	4.4	2.6	1.2	C	C	C	8.4	5.5	0.0	0.0	0.0	0.0	2.2	1.9	6.2	2.7	8.4
19	5.1	7.6	5.4	6.2	13.0	8.3	5.8	6.2	8.3	8.3	6.2	4.4	10.1	8.7	3.7	2.9	3.3	0.4	4.4	4.4	2.9	4.4	7.3	6.4	6.0	13.0
20	4.0	8.0	6.9	4.8	6.5	6.2	4.0	1.9	0.7	1.9	5.4	4.7	2.6	1.9	2.6	2.9	1.2	0.1	3.7	4.7	2.9	0.8	0.0	0.8	3.3	8.0
21	0.0	0.0	1.9	2.6	1.9	1.9	0.0	0.0	0.0	0.1	3.7	1.2	0.0	0.0	0.8	2.9	1.2	0.0	0.0	0.8	2.2	1.2	5.4	8.0	1.5	8.0
22	6.4	3.7	1.9	4.4	4.4	4.0	4.0	1.9	1.5	0.4	0.0	4.0	4.7	4.4	3.3	2.6	2.6	2.2	X	0.1	1.5	1.2	0.0	0.0	2.6	6.4
23	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.2	5.8	4.0	0.1	2.2	3.7	4.0	2.6	0.0	0.1	4.7	5.5	1.5	0.0	0.0	2.2	1.9	1.7	5.8
24	0.4	0.8	0.1	2.6	4.8	4.9	2.6	0.4	6.2	6.5	7.3	9.4	6.8	15.5	8.7	3.7	5.5	4.0	1.5	2.9	1.9	0.0	2.6	2.9	4.2	15.5
25	0.8	1.5	2.2	3.0	4.7	4.4	2.2	2.2	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	P	P	P	4.0	1.9	0.9	1.7	4.7
26	1.2	1.9	2.2	1.2	0.0	0.0	0.0	1.5	6.2	6.2	9.8	7.3	8.5	5.8	4.0	4.4	7.3	8.7	8.0	5.5	5.5	3.7	6.2	5.4	4.6	9.8
27	4.8	5.8	5.1	9.4	5.1	0.0	0.0	0.1	1.5	0.4	0.0	0.4	0.8	0.8	1.6	0.9	2.2	2.6	2.2	3.3	1.2	0.0	0.8	2.0	2.0	9.4
28	0.0	0.0	1.2	1.2	0.4	0.8	1.5	2.6	3.7	4.0	1.2	0.0	2.1	3.0	2.6	1.2	0.0	0.0	0.1	0.8	2.2	0.8	0.0	1.2	1.2	4.0
29	2.3	3.0	4.7	2.6	1.5	1.9	0.0	1.9	2.6	2.6	2.6	0.8	0.0	0.0	1.2	1.9	0.8	0.8	0.8	0.1	1.2	1.5	1.5	2.2	1.6	4.7
30	3.3	10.8	9.1	5.5	2.9	2.3	1.5	6.5	5.8	6.2	4.7	12.7	9.0	3.6	1.2	1.5	4.0	4.0	2.9	3.3	4.0	3.0	1.9	4.4	4.8	12.7
NO.	30	30	30	30	30	30	30	30	29	30	30	29	29	29	30	30	30	28	29	29	30	30	30	712	99.3%	
MEAN	2.3	2.7	2.5	2.8	2.8	2.2	1.9	2.2	3.1	2.7	2.4	2.4	2.3	2.4	2.0	2.0	1.8	2.1	2.9	2.4	2.2	2.0	2.2	2.5		
MAX	8.3	10.8	9.1	9.4	13.0	8.3	6.5	9.8	8.3	8.3	9.8	12.7	10.1	15.5	8.7	11.0	7.3	10.1	9.1	8.0	8.3	4.4	7.3	8.0		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	568
Maximum 1-HR Average	15.5 UG/M3
Maximum 24-HR Average	6.0 UG/M3
Monthly Calibration	3
Standard Deviation	2.381
Operational Time	715 HRS
Operational Uptime	99.3 %
Monthly Average	2.4 UG/M3

Lagoon PM₁₀ (µg/m³) – June 2020

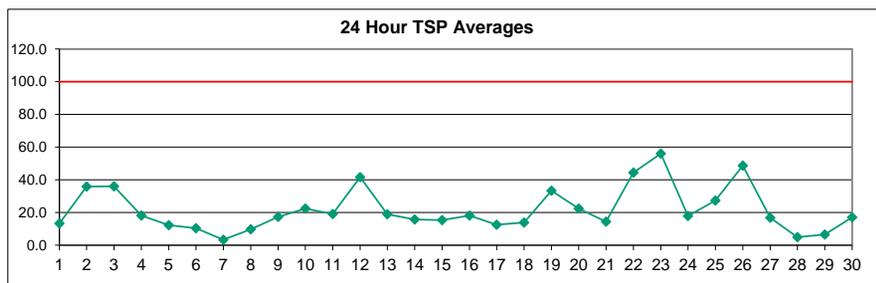
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	1.9	0.0	12.1	8.7	11.4	6.7	7.4	18.2	10.1	20.2	11.4	8.0	6.7	10.1	28.4	5.3	4.6	20.9	9.4	4.6	4.6	5.3	3.3	12.8	9.7	28.4
2	10.6	16.8	15.5	7.4	7.4	18.2	10.9	10.1	27.7	27.1	127.9	36.5	20.8	34.4	28.4	14.1	35.8	31.7	29.7	55.4	28.4	35.1	28.1	6.7	27.7	127.9
3	17.5	4.6	1.9	1.3	5.2	2.8	1.3	17.6	54.1	49.4	17.3	33.0	56.1	39.9	43.7	38.5	20.2	27.7	27.7	30.4	18.9	6.0	5.3	2.6	21.8	56.1
4	14.1	13.6	9.4	7.1	4.7	6.7	5.2	9.4	23.4	15.3	7.4	4.6	16.2	6.7	8.0	12.1	12.8	10.7	39.2	25.7	13.5	8.7	8.0	6.0	12.0	39.2
5	8.0	8.7	8.4	4.7	1.9	3.4	6.0	8.7	14.1	18.2	10.8	6.7	6.0	12.8	9.4	18.9	11.4	8.7	6.7	4.6	7.4	6.7	7.4	6.0	8.6	18.9
6	5.6	5.3	5.6	3.3	3.3	6.7	6.0	7.4	17.5	14.1	18.2	27.7	25.0	10.1	12.8	8.0	4.6	0.6	0.0	0.0	1.3	5.3	4.0	1.9	8.1	27.7
7	4.6	5.3	9.4	7.4	6.0	7.4	5.3	2.6	3.3	4.0	5.2	5.7	0.6	0.0	3.3	2.9	5.3	6.7	4.7	1.9	2.6	4.6	2.6	1.9	4.3	9.4
8	4.7	7.4	5.3	4.0	4.0	4.0	5.3	5.3	5.3	11.4	8.7	10.7	8.7	6.1	14.9	7.4	5.3	4.0	8.8	31.7	2.6	6.0	6.7	4.7	7.6	31.7
9	4.0	3.3	7.4	16.5	9.3	5.6	1.9	5.3	25.7	16.2	10.7	8.0	8.7	20.2	10.1	17.4	15.5	16.2	16.8	8.7	10.0	6.0	10.0	25.0	11.6	25.7
10	14.5	4.0	1.3	0.0	0.7	6.0	6.6	5.3	12.1	37.8	27.7	41.2	31.1	8.0	33.8	16.8	7.4	13.5	16.2	10.7	16.2	19.5	11.4	20.2	15.1	41.2
11	9.4	4.0	12.1	16.2	12.1	6.7	5.3	12.8	8.7	12.8	10.1	7.4	6.7	6.7	11.4	8.8	18.2	18.4	37.8	22.9	26.3	6.0	7.4	7.8	12.3	37.8
12	6.0	9.4	8.7	12.8	8.3	12.7	9.7	30.4	35.7	32.0	37.2	33.8	21.6	27.0	31.6	186.8	14.8	20.9	67.6	22.9	1.9	1.9	6.4	6.0	26.9	186.8
13	6.0	9.4	11.4	8.7	21.6	5.3	11.4	12.7	12.8	P	20.2	9.9	10.7	13.5	8.0	6.7	8.7	14.1	8.7	21.6	26.3	17.5	9.4	9.4	12.3	26.3
14	23.6	37.3	13.5	25.7	12.8	26.6	25.7	22.9	5.2	11.4	10.1	9.4	4.6	2.6	8.7	17.3	18.9	5.3	20.2	11.4	7.4	6.0	4.0	1.3	13.8	37.3
15	0.6	1.9	14.8	7.9	6.7	5.3	2.5	1.3	13.5	10.8	10.7	12.0	28.4	27.0	13.5	11.4	18.9	41.2	19.4	3.9	7.4	5.4	4.6	6.0	11.5	41.2
16	7.4	4.4	4.0	7.4	6.0	3.3	1.9	8.7	6.7	10.1	27.0	8.0	18.2	3.9	3.3	16.2	13.5	19.5	10.7	7.4	16.2	13.5	12.1	9.4	9.9	27.0
17	10.8	20.9	15.3	15.5	16.3	5.3	6.0	4.0	4.0	6.0	19.6	11.9	9.4	6.7	4.6	5.3	4.0	5.3	6.0	6.7	5.1	3.3	1.9	13.4	8.6	20.9
18	7.4	4.0	2.6	5.0	4.0	5.3	4.0	4.0	3.3	24.2	6.7	10.7	C	C	C	12.1	14.1	29.0	16.8	14.1	13.5	6.7	8.0	8.7	9.7	29.0
19	6.0	14.1	14.1	16.2	22.9	10.1	15.5	16.2	25.7	41.2	22.3	18.9	42.6	35.1	6.0	39.2	14.1	8.0	21.6	11.4	10.1	10.7	26.3	12.8	19.2	42.6
20	10.8	10.1	16.9	26.3	15.5	6.7	6.7	8.0	8.0	10.1	8.7	17.6	7.1	17.5	8.7	12.8	10.1	15.5	14.8	7.4	5.3	1.3	1.2	1.9	10.4	26.3
21	1.3	2.4	10.1	6.7	4.6	3.3	2.6	4.0	2.6	1.9	0.6	1.9	4.4	7.4	6.0	2.7	1.3	42.6	12.8	7.4	7.4	10.8	8.7	6.4	10.4	42.6
22	10.3	9.4	8.7	10.6	6.7	6.0	5.6	4.6	21.6	18.9	14.1	37.2	52.4	23.6	25.6	25.6	45.6	28.4	68.3	36.5	49.3	4.6	6.0	10.7	22.1	68.3
23	16.8	1.9	4.6	10.7	6.1	25.7	2.6	49.3	50.1	50.0	32.4	42.6	53.4	49.3	45.3	43.9	37.8	51.4	39.2	18.3	15.5	36.5	15.6	7.4	29.4	53.4
24	5.3	0.6	0.0	7.4	5.3	4.0	3.9	16.2	31.1	29.7	22.9	9.4	8.7	18.9	13.5	12.2	16.8	7.4	3.3	5.3	3.3	1.9	5.3	4.0	9.8	31.1
25	3.3	4.6	10.1	14.1	14.8	8.0	7.1	6.0	16.2	22.9	16.2	C	C	C	34.4	8.0	16.8	35.8	P	P	P	16.8	10.9	10.1	14.2	35.8
26	5.3	3.3	4.0	4.4	22.3	2.0	7.4	25.6	64.2	69.0	78.5	58.2	52.7	31.1	30.4	36.4	31.7	18.2	15.5	14.8	8.7	6.7	4.0	3.3	24.9	78.5
27	5.2	7.4	14.8	15.5	24.3	9.4	9.3	8.0	19.5	34.4	16.8	23.6	18.4	11.4	11.4	34.4	8.0	17.8	0.0	0.0	0.0	1.9	2.6	4.6	12.5	34.4
28	4.6	6.0	7.7	2.6	0.0	0.6	0.6	3.3	6.0	6.7	6.7	4.6	5.3	8.7	12.1	11.4	8.7	6.0	7.4	4.0	0.0	0.0	2.6	6.5	5.1	12.1
29	6.0	7.4	6.7	5.3	6.0	6.0	3.3	0.0	4.0	10.1	11.4	16.8	6.0	7.4	28.4	16.2	11.4	8.7	3.3	1.3	2.6	0.0	0.0	0.0	7.0	28.4
30	4.6	27.4	14.6	20.2	13.5	16.2	5.3	19.6	22.9	10.8	12.1	20.9	14.1	12.1	16.8	8.7	10.1	10.8	7.4	18.2	17.5	18.2	1.3	5.4	13.7	27.4
NO.	30	30	30	30	30	30	30	30	30	29	30	29	28	28	29	30	30	30	29	29	29	30	30	30	710	99.4%
MEAN	7.9	8.5	9.0	10.0	9.5	7.9	6.4	11.6	18.5	21.6	21.0	18.5	19.4	16.4	17.7	21.9	14.9	16.8	19.6	14.3	11.3	9.0	7.6	7.5		
MAX	23.6	37.3	16.9	26.3	24.3	26.6	25.7	49.3	64.2	69.0	127.9	58.2	56.1	49.3	45.3	186.8	45.6	51.4	68.3	55.4	49.3	36.5	28.1	25.0		



Number of Non-Zero Readings	694		
Maximum 1-HR Average	186.8 UG/M3		
Maximum 24-HR Average	29.4 UG/M3		
Monthly Calibration	6	Operational Time	716 HRS
Standard Deviation	14.3	Operational Uptime	99.4 %
		Monthly Average	13.6 UG/M3

Lagoon TSP ($\mu\text{g}/\text{m}^3$) – June 2020

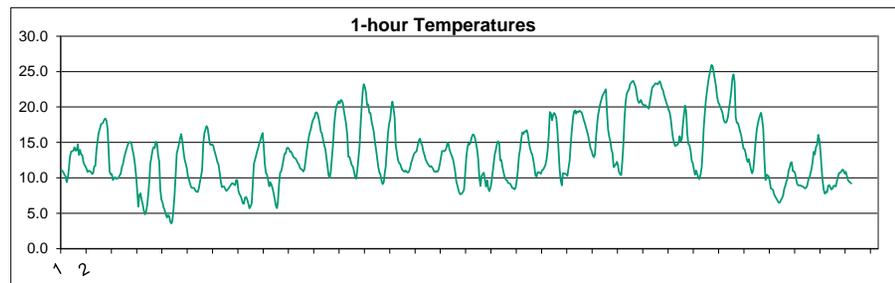
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.2	0.0	15.4	3.0	12.6	5.7	5.3	20.9	15.4	32.2	23.7	7.1	18.2	19.5	47.2	5.7	9.9	22.3	14.0	1.6	7.1	7.1	4.4	22.3	13.4	47.2
2	22.3	20.9	16.8	11.3	7.1	26.5	7.9	20.9	38.9	48.6	92.8	66.5	22.3	24.4	36.1	22.3	49.9	55.5	47.2	94.1	40.3	54.1	30.6	4.4	35.9	94.1
3	14.0	14.0	1.6	4.4	1.6	1.6	3.0	29.2	96.8	98.3	34.5	62.4	88.6	56.9	62.4	63.8	42.9	38.9	41.7	51.3	30.6	9.7	9.8	8.5	36.1	98.3
4	14.0	37.5	8.5	4.4	4.4	8.5	14.0	12.6	34.7	23.7	7.1	8.5	36.1	8.5	15.4	8.5	20.9	16.8	72.1	51.4	20.9	3.0	1.6	4.4	18.2	72.1
5	3.0	16.8	1.6	8.5	4.4	3.0	1.6	7.1	14.0	23.7	25.1	12.6	16.8	26.5	22.3	34.7	25.1	5.7	8.5	9.9	8.5	4.4	4.4	7.1	12.3	34.7
6	7.1	12.8	7.1	5.1	5.0	7.1	10.4	11.3	22.3	15.4	22.3	30.6	30.6	18.7	16.8	4.3	4.3	1.6	1.6	0.2	5.7	5.7	3.0	3.0	10.4	30.6
7	5.7	4.4	1.6	4.4	4.4	7.1	5.7	4.4	1.6	1.6	1.1	0.2	1.6	1.6	1.0	3.0	7.1	5.1	7.1	3.0	3.0	3.0	1.6	0.2	3.3	7.1
8	2.9	1.6	3.0	5.7	4.4	1.6	3.1	1.6	3.0	20.8	14.0	18.2	15.4	8.5	27.8	11.3	5.7	4.3	12.6	44.4	4.4	8.5	7.1	5.7	9.8	44.4
9	7.1	18.2	8.5	22.4	12.7	9.9	3.0	7.1	37.5	16.8	16.8	8.5	16.8	34.7	15.4	25.1	25.1	23.7	22.3	8.5	18.2	7.1	12.6	37.5	17.3	37.5
10	18.2	0.2	0.0	0.0	0.2	3.0	4.4	3.0	18.2	33.4	48.5	59.6	49.9	16.8	62.4	26.5	15.4	23.7	27.8	15.4	22.3	26.5	23.7	40.3	22.5	62.4
11	18.2	1.6	11.3	16.8	15.4	9.9	8.5	15.4	20.9	25.1	18.2	14.0	9.9	18.2	18.2	16.8	18.2	26.5	63.8	48.6	38.9	11.3	7.1	5.7	19.1	63.8
12	11.3	18.2	5.7	22.3	14.0	27.3	11.3	35.4	48.6	40.0	58.2	54.1	29.2	63.8	76.2	276.5	25.1	36.0	72.0	29.2	7.1	9.9	9.9	19.6	41.7	276.5
13	12.6	16.8	15.4	5.7	18.2	11.3	8.5	16.8	22.4	P	38.9	30.6	29.2	23.7	12.6	20.9	18.7	15.4	15.4	22.3	30.6	25.1	10.2	14.0	18.9	38.9
14	31.8	50.0	15.4	29.8	16.8	34.6	29.2	23.8	4.3	9.9	12.6	9.9	5.7	1.6	9.9	20.9	26.5	8.5	20.9	8.5	4.3	1.6	1.6	0.2	15.8	50.0
15	0.0	0.2	16.8	4.4	1.6	0.0	7.1	4.4	18.2	11.3	15.4	25.3	44.4	47.2	29.2	18.9	23.7	59.6	23.3	4.3	3.0	0.2	3.0	7.1	15.4	59.6
16	9.8	4.4	9.9	7.1	7.1	10.1	7.1	14.0	20.9	9.9	44.4	26.5	45.5	11.3	8.6	12.6	25.1	36.1	40.3	7.1	22.3	19.6	20.9	14.0	18.1	45.5
17	16.8	45.8	23.7	32.0	18.2	8.5	7.5	3.0	8.5	7.1	25.1	18.2	16.8	11.3	8.5	5.7	4.3	11.3	5.7	4.4	4.4	5.7	3.0	5.7	12.5	45.8
18	4.4	12.7	7.1	4.4	3.0	3.0	5.2	4.4	4.3	29.2	8.5	20.9	C	C	C	33.4	36.1	15.4	30.6	24.2	15.4	5.8	11.3	14.0	14.0	36.1
19	11.3	11.3	12.6	16.8	23.7	12.6	19.6	22.3	40.3	56.9	37.4	32.0	74.8	51.3	11.3	139.8	32.0	18.2	43.1	33.4	20.9	22.3	40.3	16.8	33.4	139.8
20	22.3	30.6	27.9	47.2	29.6	14.0	16.8	15.4	15.4	30.6	16.8	33.4	23.7	30.6	19.5	29.2	9.9	40.3	34.7	16.8	14.0	4.3	9.9	5.8	22.4	47.2
21	4.3	7.1	18.2	11.3	4.4	7.1	8.5	7.1	5.7	7.1	15.4	16.8	18.2	16.8	14.0	8.5	8.5	7.1	84.5	19.5	11.1	12.6	16.8	16.8	14.5	84.5
22	18.2	7.9	19.6	14.0	11.3	12.7	12.7	15.4	36.1	37.5	30.6	103.8	106.6	47.2	48.6	59.6	83.1	56.9	124.5	74.8	87.2	14.0	20.9	22.3	44.4	124.5
23	38.9	26.5	16.8	23.7	22.3	26.5	29.2	84.5	102.4	96.9	69.3	80.3	98.3	80.3	79.0	70.7	76.2	91.4	59.6	36.1	25.8	73.4	30.6	5.7	56.0	102.4
24	5.7	3.0	4.3	18.2	14.0	8.5	10.7	43.0	51.3	45.8	26.5	16.8	8.5	23.7	14.0	18.2	20.9	36.1	18.2	22.3	4.3	3.0	7.1	5.7	17.9	51.3
25	5.7	3.0	10.2	23.7	19.6	5.5	4.3	5.7	33.4	36.1	37.8	9.9	43.0	38.9	47.2	37.5	41.7	74.8	P	P	49.9	27.8	18.2	27.3	74.8	
26	12.6	14.0	8.5	19.0	33.4	18.2	16.7	56.9	131.5	124.5	124.5	98.4	58.2	59.6	72.0	92.8	54.1	40.3	29.2	22.3	14.0	16.8	29.2	20.9	48.7	131.5
27	22.3	22.3	12.6	18.2	27.8	16.8	3.4	4.3	9.9	8.5	7.1	30.6	30.6	25.1	15.4	49.9	23.7	43.1	3.0	3.0	10.5	5.7	4.4	5.7	16.8	49.9
28	3.2	11.3	8.5	7.1	4.4	3.0	5.7	8.4	11.3	5.7	3.0	7.1	8.5	5.7	0.2	0.0	1.6	1.6	5.7	1.6	5.7	4.4	3.0	5.0	11.3	
29	3.0	11.3	5.7	7.1	7.1	3.0	0.2	5.7	7.1	9.9	9.9	15.4	4.4	8.5	5.7	4.3	4.3	5.7	1.6	5.7	8.5	5.7	8.5	8.5	6.5	15.4
30	8.5	25.1	22.3	27.9	12.6	19.6	16.8	30.6	38.9	25.1	16.8	18.2	14.0	4.4	16.8	9.9	18.2	15.4	5.7	14.0	20.8	16.8	1.6	10.8	17.1	38.9
NO.	30	30	30	30	30	30	30	30	29	30	30	29	29	29	30	30	30	29	29	29	30	30	30	30	713	99.4%
MEAN	11.8	15.0	11.2	14.2	12.0	10.9	9.6	17.8	30.5	32.1	30.1	31.1	33.3	27.2	28.2	37.7	25.2	27.9	32.2	23.6	17.2	14.6	12.3	11.8		
MAX	38.9	50.0	27.9	47.2	33.4	34.6	29.2	84.5	131.5	124.5	124.5	103.8	106.6	80.3	79.0	276.5	83.1	91.4	124.5	94.1	87.2	73.4	40.3	40.3		



Number of 24HR Exceedences	0
Number of Non-Zero Readings	707
Maximum 1-HR Average	276.5 UG/M3
Maximum 24-HR Average	56.0 UG/M3
Operational Time	716 HRS
Operational Uptime	99.4 %
Monthly Calibration	3
Standard Deviation	23.8
Monthly Average	21.5 UG/M3

Lagoon Temperature (°C) – June 2020

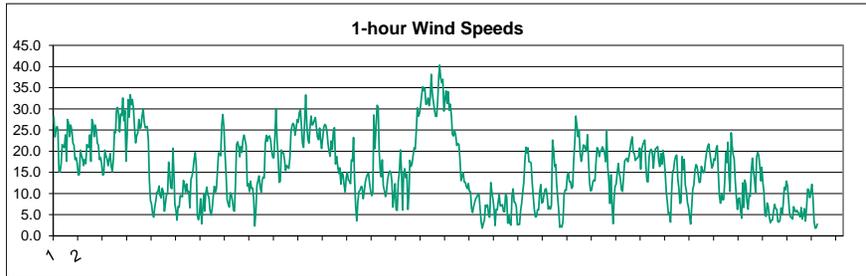
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	11.1	10.9	10.7	10.4	10.2	9.4	10.0	11.3	13.0	13.7	13.7	13.8	14.3	13.9	13.9	14.7	13.2	13.9	13.3	13.2	12.3	11.8	11.6	11.3	12.3	14.7
2	10.8	11.0	10.9	10.9	10.5	10.7	10.8	11.6	11.7	14.0	15.2	16.4	16.9	17.6	17.7	17.8	18.2	18.4	18.1	16.9	14.3	10.9	10.5	10.5	13.8	18.4
3	9.7	10.0	10.0	9.8	9.9	9.9	10.3	10.6	11.5	11.9	12.8	13.4	14.0	14.5	14.9	15.0	15.1	14.7	13.9	13.1	11.9	10.3	8.3	5.9	11.7	15.1
4	7.6	7.8	6.9	6.3	5.4	4.8	5.2	6.1	7.7	9.7	12.0	12.9	13.9	14.4	14.2	15.1	15.0	13.3	12.3	8.4	6.9	6.5	5.8	5.4	9.3	15.1
5	4.8	4.4	4.7	4.6	3.8	3.6	3.8	5.4	7.5	10.4	13.5	14.1	14.8	15.6	16.2	15.3	13.8	12.7	12.1	11.4	10.3	9.8	9.1	8.7	9.6	16.2
6	8.6	8.6	8.5	8.2	8.0	8.0	8.5	9.4	10.2	11.1	14.7	16.3	16.8	17.3	17.0	15.9	14.8	14.7	14.7	14.6	14.0	13.4	12.9	12.2	12.4	17.3
7	11.9	10.8	9.5	8.7	8.8	8.8	8.4	8.1	8.3	8.5	8.7	9.0	9.2	9.2	9.1	9.0	9.7	9.7	8.2	7.7	7.4	7.1	6.4	6.4	8.7	11.9
8	7.2	7.3	6.9	6.3	5.7	6.0	6.4	9.1	12.0	12.6	13.2	13.7	14.2	14.8	15.3	15.9	16.3	14.6	12.0	10.7	10.5	9.6	8.8	9.4	10.8	16.3
9	9.0	8.5	7.8	6.9	6.0	5.7	6.6	9.1	10.7	11.0	11.7	12.6	13.4	13.5	14.2	14.2	14.1	13.7	13.7	13.3	12.9	12.8	12.7	12.4	11.1	14.2
10	12.1	11.9	11.4	11.2	11.2	10.9	11.2	12.3	13.6	14.8	15.8	16.5	17.0	17.8	18.3	18.5	19.2	19.3	19.0	18.3	17.4	16.5	16.3	15.5	15.2	19.3
11	14.6	14.1	12.9	11.6	10.4	10.0	10.9	12.9	14.8	17.4	19.1	20.1	20.5	20.8	20.5	21.0	20.9	20.6	19.4	18.5	17.6	16.0	13.0	13.0	16.3	21.0
12	12.4	11.8	11.6	11.0	10.2	9.9	11.0	12.7	14.4	17.5	20.2	22.4	23.2	22.9	22.1	20.3	20.4	19.2	19.2	18.0	17.3	16.6	15.1	14.1	16.4	23.2
13	12.9	11.6	10.8	10.5	9.6	9.1	9.4	10.6	11.6	P	16.3	17.6	18.2	19.9	20.8	19.7	18.5	14.6	13.5	12.5	12.1	12.0	11.4	11.1	13.7	20.8
14	11.0	10.9	11.0	10.9	10.7	10.9	11.3	12.1	12.5	13.1	13.5	13.6	13.8	14.6	15.3	15.5	14.9	14.6	13.7	13.2	12.6	12.3	12.0	11.8	12.7	15.5
15	11.6	11.7	11.5	11.2	10.9	10.8	11.0	10.8	11.2	11.9	12.8	13.8	13.8	13.8	13.9	14.3	15.0	14.8	14.0	13.5	13.1	12.7	11.9	10.9	12.5	15.0
16	9.6	8.9	8.3	7.8	7.7	7.8	8.0	8.3	10.5	12.8	14.2	14.8	14.7	15.0	15.7	16.1	16.1	15.7	14.9	14.0	12.5	10.0	8.8	10.2	11.8	16.1
17	10.5	10.7	9.8	8.8	9.6	8.5	8.1	8.6	9.3	10.6	11.9	13.3	13.9	14.8	15.2	15.0	12.4	12.5	11.5	10.8	10.1	9.7	9.7	9.3	11.0	15.2
18	9.2	9.1	8.9	8.6	8.6	8.4	8.6	9.6	11.0	13.1	14.0	15.4	16.4	16.2	16.6	16.5	16.8	16.2	15.0	14.2	13.6	13.3	12.4	11.7	12.6	16.8
19	10.4	10.2	10.8	10.8	10.7	10.6	11.1	11.2	11.5	11.8	12.6	13.9	15.9	19.3	19.1	18.1	18.9	19.2	18.9	18.4	16.7	14.0	11.2	9.6	13.9	19.3
20	8.9	10.6	10.6	10.6	10.5	10.3	11.4	12.4	14.8	16.8	18.4	19.4	19.5	19.1	19.4	19.3	19.5	19.4	19.2	18.7	18.1	17.6	17.0	16.5	15.8	19.5
21	15.9	15.0	14.1	13.8	13.2	12.9	13.3	15.8	17.7	18.8	19.7	20.5	21.1	21.6	21.9	22.2	22.5	19.3	16.8	15.8	15.2	14.0	13.5	11.5	16.9	22.5
22	11.7	11.9	12.3	11.7	10.9	10.5	10.4	12.3	14.8	18.4	20.8	21.9	22.2	22.5	23.2	Y	23.6	23.7	23.2	22.8	21.7	20.9	20.6	20.7	17.9	23.7
23	21.0	20.5	20.3	20.2	20.3	20.0	20.0	19.8	20.8	21.7	22.7	22.9	23.1	23.4	23.3	23.2	23.5	23.6	23.2	22.7	22.4	21.7	21.2	20.6	21.7	23.6
24	20.1	19.6	19.2	18.3	16.8	15.6	14.9	14.5	14.6	14.7	15.0	15.9	15.2	15.5	17.4	18.9	20.2	19.4	16.3	14.8	14.6	13.8	12.4	12.1	16.2	20.2
25	11.2	10.4	11.0	10.5	10.1	9.8	10.5	11.5	14.1	17.0	19.1	21.1	22.3	23.6	24.4	25.2	25.9	25.8	P	P	23.0	21.5	20.7	20.4	17.7	25.9
26	19.9	19.6	19.1	18.2	17.9	17.8	18.0	18.6	19.8	20.9	22.2	24.0	24.6	23.6	18.5	17.8	17.7	17.2	16.5	16.0	15.0	14.1	14.0	13.4	18.5	24.6
27	12.7	12.2	12.6	11.9	11.1	10.6	11.2	13.0	15.0	16.6	17.6	18.3	18.8	19.2	18.3	16.8	12.7	9.7	10.4	10.4	10.2	9.6	8.5	8.4	13.2	19.2
28	8.3	7.7	7.3	7.1	6.8	6.5	6.5	6.9	7.1	7.5	8.4	8.9	9.5	9.9	11.1	11.4	12.1	12.2	11.0	10.9	10.7	9.8	9.1	8.9	9.0	12.2
29	8.9	8.9	8.8	8.8	8.7	8.5	8.6	8.9	9.8	10.1	10.6	11.3	12.3	13.7	13.3	14.4	14.6	16.1	15.4	13.9	11.5	9.5	8.3	7.8	10.9	16.1
30	8.0	8.0	8.9	9.0	8.6	8.3	8.5	8.9	8.9	8.8	9.5	10.1	10.7	10.7	10.9	11.2	11.1	10.6	10.9	10.3	9.6	9.4	9.3	9.2	9.6	11.2
NO.	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	29	30	30	29	29	30	30	30	30	716	99.4%
MEAN	11.4	11.2	10.9	10.5	10.1	9.8	10.1	11.1	12.3	13.7	15.0	15.9	16.5	16.9	17.0	16.8	16.9	16.3	15.2	14.4	13.9	12.9	12.1	11.6		
MAX	21.0	20.5	20.3	20.2	20.3	20.0	20.0	19.8	20.8	21.7	22.7	24.0	24.6	23.6	24.4	25.2	25.9	25.8	23.2	22.8	23.0	21.7	21.2	20.7		



Number of Non-Zero Readings	716
Maximum 1-HR Average	25.9 C
Maximum 24-HR Average	21.7 C
Monthly Calibration	0
Standard Deviation	4.476
Operational Time	716 HRS
Operational Uptime	99.4 %
Monthly Average	13.4 C

Lagoon Wind Speed (km/hr) – June 2020

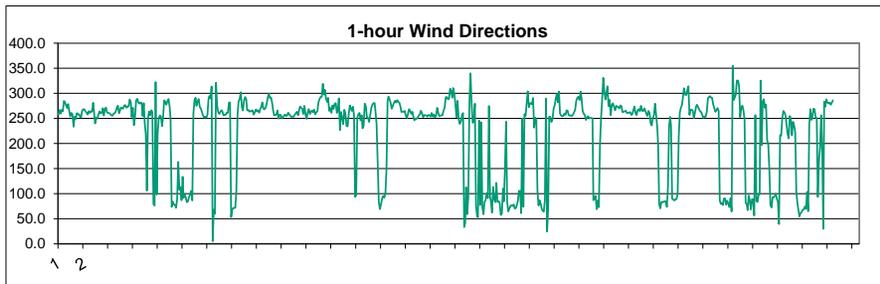
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	28.1	23.4	25.0	25.8	25.0	15.1	15.1	17.0	21.5	21.1	20.8	23.8	17.6	27.5	26.5	23.4	26.2	24.9	21.9	21.4	18.0	18.5	17.1	14.3	21.6	28.1
2	14.5	20.3	19.0	18.2	16.6	18.1	19.4	16.4	15.1	18.1	24.6	24.4	29.4	30.3	28.8	24.6	28.8	28.4	32.6	27.2	29.6	17.6	23.6	32.2	23.2	32.6
3	28.1	33.3	31.0	32.2	29.9	25.3	22.0	23.7	24.3	27.5	25.4	25.7	28.4	30.0	26.8	25.5	25.7	25.8	22.7	13.2	8.3	7.5	5.3	4.4	23.0	33.3
4	6.7	8.2	10.3	10.5	11.8	9.5	8.9	11.2	10.3	5.8	7.6	9.8	9.9	17.4	14.6	11.4	11.1	20.7	14.0	7.5	6.0	3.7	6.9	6.7	10.0	20.7
5	9.5	9.3	9.2	13.1	12.1	10.4	12.3	10.4	10.4	6.6	13.3	14.1	15.6	18.2	19.7	16.5	4.7	3.8	5.3	8.8	2.8	6.4	9.8	5.9	10.3	19.7
6	10.0	11.5	9.7	9.2	6.0	4.8	6.4	9.3	11.7	10.4	11.2	15.4	19.6	19.3	18.9	26.4	28.7	25.6	19.6	14.6	8.5	7.5	6.8	10.2	13.4	28.7
7	9.7	8.1	6.0	5.8	12.3	21.6	22.2	21.0	18.7	21.1	19.7	22.8	23.8	22.6	21.1	11.8	12.4	10.4	12.9	11.2	11.2	8.8	2.3	5.7	14.3	23.8
8	11.9	13.1	14.1	11.6	10.3	13.2	13.9	13.6	21.8	23.7	22.4	23.5	22.6	20.0	18.5	18.4	23.5	30.0	22.6	18.7	12.6	12.9	20.3	18.2	30.0	30.0
9	19.6	19.6	17.9	15.4	16.6	16.4	15.9	18.5	24.6	26.0	26.6	26.2	23.8	25.3	27.4	26.8	29.1	29.9	25.8	21.8	20.9	27.2	33.3	26.2	23.4	33.3
10	22.9	21.9	25.8	28.3	26.2	26.5	27.3	27.9	25.4	23.3	22.7	25.5	22.6	20.6	23.0	25.6	26.3	26.0	24.7	21.7	19.9	18.8	22.4	20.5	24.0	28.3
11	24.8	25.6	17.0	18.7	16.6	14.7	16.1	12.2	14.9	14.5	12.0	10.4	13.8	15.0	13.1	12.9	12.3	17.9	17.7	23.2	13.2	7.0	3.5	7.9	14.8	25.6
12	10.4	10.7	11.6	11.6	8.8	10.4	12.7	13.8	14.5	14.8	12.5	10.5	9.5	10.3	28.6	20.6	25.5	30.8	30.5	19.8	15.1	14.0	17.9	11.9	15.7	30.8
13	10.7	9.3	10.5	13.2	14.6	15.3	15.1	12.9	6.8	P	12.3	6.1	6.0	12.8	15.0	20.3	15.4	6.1	14.7	15.9	13.7	14.6	6.2	10.0	12.1	20.3
14	17.8	16.4	16.9	18.9	20.8	20.4	24.8	30.2	28.3	29.0	30.7	33.2	35.2	34.3	34.9	31.0	31.3	32.6	30.7	32.6	38.1	33.6	31.7	29.8	28.5	38.1
15	28.2	28.2	31.9	37.7	40.3	37.3	36.2	37.0	29.5	32.1	34.2	31.3	34.0	29.7	31.1	28.3	23.9	23.6	24.9	23.8	21.4	21.8	21.6	17.9	29.4	40.3
16	13.0	14.1	14.9	12.7	12.6	11.6	11.1	12.4	10.6	10.5	6.5	5.5	7.0	8.0	8.9	9.1	9.9	9.8	6.4	3.3	1.8	2.8	3.8	7.2	8.9	14.9
17	6.8	7.3	4.7	4.4	12.6	10.3	8.5	6.4	2.4	6.3	6.1	7.9	9.8	7.1	7.0	7.4	5.8	5.7	9.8	9.2	3.0	4.7	2.9	2.5	6.6	12.6
18	9.6	11.1	8.0	7.9	6.9	2.5	2.8	2.7	5.9	7.7	10.4	12.6	17.7	21.0	19.6	20.8	17.5	17.5	17.2	12.7	9.4	6.3	4.4	4.5	10.7	21.0
19	6.2	6.1	10.2	12.1	7.7	8.0	9.6	11.0	11.2	9.4	6.3	7.0	6.3	7.3	22.6	20.4	16.4	16.9	12.6	9.1	6.0	2.0	2.4	2.1	9.5	22.6
20	3.4	9.8	10.8	10.7	14.2	15.0	12.7	12.8	11.2	11.6	17.9	22.1	28.3	26.0	23.4	24.9	19.7	17.6	19.0	21.5	21.4	20.4	19.9	23.9	17.4	28.3
21	17.8	12.5	10.6	10.9	12.7	13.2	12.9	17.3	20.8	20.5	18.7	19.9	20.3	21.0	20.4	19.6	17.5	24.6	16.1	13.1	7.6	14.4	7.0	2.9	15.5	24.6
22	9.2	11.7	12.2	14.8	17.1	14.6	13.5	10.9	10.5	14.1	17.7	18.0	18.3	17.5	18.7	Y	22.3	23.4	19.7	19.4	17.8	18.3	18.4	18.8	16.4	23.4
23	20.7	15.8	20.6	21.5	22.3	22.6	16.3	12.9	12.7	18.7	20.2	20.4	19.4	15.9	19.2	20.6	20.7	21.1	17.7	16.4	19.4	16.9	20.2	18.3	18.8	22.6
24	15.0	10.5	8.0	5.2	5.5	3.2	10.3	15.3	15.4	17.7	18.8	19.1	13.4	11.2	7.6	8.0	18.7	15.6	18.0	12.0	10.6	7.9	6.7	4.6	11.6	19.1
25	2.8	7.0	11.1	12.0	15.5	16.8	16.4	14.5	12.6	12.7	16.4	15.6	14.9	15.1	17.8	19.6	21.0	21.7	P	P	16.0	16.6	18.2	17.9	15.1	21.7
26	20.7	21.3	14.9	9.5	7.7	9.9	8.5	8.6	12.8	19.7	17.3	22.1	14.1	10.5	24.4	21.6	19.2	18.3	13.2	9.3	6.2	8.7	9.0	5.8	13.9	24.4
27	4.2	12.5	6.7	13.2	12.0	8.0	6.3	9.6	9.3	15.4	18.4	15.2	13.4	10.2	18.6	19.8	19.0	16.4	13.0	16.2	12.7	10.4	4.8	4.6	12.1	19.8
28	7.7	7.0	4.5	3.1	3.7	3.7	5.9	7.4	6.4	6.2	3.3	3.2	3.7	6.6	5.2	7.4	11.4	10.9	12.9	11.9	8.6	5.1	4.4	4.3	6.4	12.9
29	4.0	6.9	6.0	5.6	6.0	5.6	5.0	4.4	6.7	3.9	4.9	6.4	3.5	6.5	11.1	10.9	9.0	10.3	12.2	9.0	3.6	1.8	1.8	2.8	6.2	12.2
30	2.5	3.7	9.6	8.7	6.9	9.2	9.3	8.0	5.6	3.8	2.4	3.2	5.4	4.3	4.3	8.7	13.3	9.2	15.1	13.7	13.0	19.1	16.7	15.2	8.8	19.1
NO.	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	29	30	30	29	29	30	30	30	30	716	99.4%
MEAN	13.2	13.9	13.6	14.1	14.4	13.8	13.9	14.3	14.4	15.6	16.0	16.7	16.9	17.5	19.3	18.7	18.7	19.0	18.3	15.9	13.4	12.5	12.1	12.0		
MAX	28.2	33.3	31.9	37.7	40.3	37.3	36.2	37.0	29.5	32.1	34.2	33.2	35.2	34.3	34.9	31.0	31.3	32.6	32.6	32.6	38.1	33.6	33.3	32.2		



Number of Non-Zero Readings	716		
Maximum 1-HR Average	40.3 KM/HR		
Maximum 24-HR Average	29.4 KM/HR		
Operational Time		716 HRS	
Monthly Calibration	0	Operational Uptime	99.4 %
Standard Deviation	8.04	Monthly Average	15.3 KM/HR

Lagoon Wind Direction (°) – June 2020

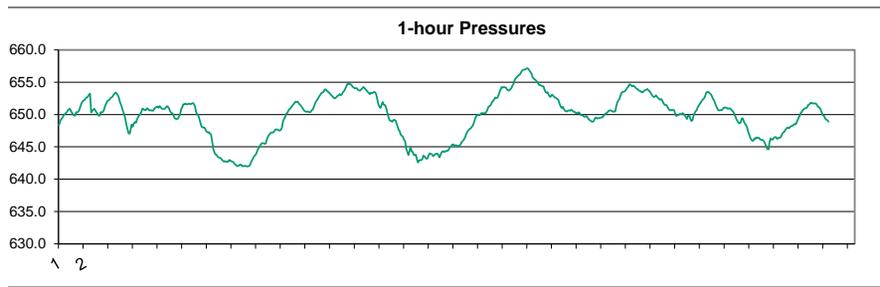
HOURLY																									MEAN	MAX	
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	257.5	266.9	259.6	267.1	264.0	284.6	281.9	275.3	270.6	278.6	265.0	254.1	260.9	257.2	233.5	253.6	249.0	260.6	258.1	258.3	252.8	251.9	265.2	268.5	261.1	284.6	
2	267.9	264.2	261.5	257.6	264.7	261.1	259.9	263.9	263.4	281.2	264.3	239.7	251.7	249.5	256.9	264.0	259.9	261.1	270.0	255.5	269.8	271.5	261.9	260.8	261.1	281.2	
3	260.8	258.6	256.1	255.5	259.4	260.2	263.8	271.6	275.3	260.2	265.0	272.0	270.0	269.6	275.7	276.5	271.2	273.7	274.2	287.9	281.3	253.2	271.1	236.3	266.7	287.9	
4	253.5	285.4	289.1	282.0	279.6	281.6	281.1	254.6	280.2	241.5	219.4	105.9	250.0	263.8	256.0	266.2	262.9	78.9	76.2	322.6	98.2	217.3	250.4	255.6	267.1	322.6	
5	254.3	234.6	253.2	286.1	283.1	277.1	285.3	288.7	272.3	248.2	73.7	83.8	78.5	77.5	71.8	88.9	162.9	107.7	112.9	86.9	133.8	91.6	97.7	92.7	76.7	288.7	
6	82.9	84.7	92.9	98.3	105.3	86.4	259.6	286.0	291.2	274.8	283.8	288.5	273.3	269.4	262.8	255.6	251.8	253.4	251.4	257.7	288.2	294.6	290.1	313.5	268.6	313.5	
7	5.0	67.7	60.0	321.0	276.1	262.6	258.8	263.1	266.3	263.9	256.2	257.1	257.0	261.6	261.1	281.8	281.5	53.5	68.5	71.2	71.2	71.7	106.9	256.4	273.2	321.0	
8	283.2	288.9	302.2	272.6	265.7	286.1	292.7	287.8	266.4	266.7	263.5	264.4	264.0	266.4	257.3	262.4	267.9	264.0	266.4	261.4	267.6	272.9	281.9	269.1	270.4	302.2	
9	267.9	271.5	278.8	291.7	299.0	290.2	291.9	280.7	267.1	256.3	256.6	257.6	249.6	265.7	249.6	257.1	256.9	250.0	252.5	255.4	257.9	254.9	255.8	261.6	263.4	299.0	
10	255.0	253.0	253.9	253.0	257.1	260.7	263.3	256.0	264.9	273.8	271.2	269.3	258.6	275.0	269.3	258.6	249.1	262.4	268.5	258.9	263.7	265.5	262.2	267.4	258.0	261.4	275.0
11	262.2	263.9	281.9	288.7	293.0	293.0	318.8	297.3	307.1	291.0	283.1	291.0	265.0	270.9	260.8	275.8	268.9	279.4	280.1	260.8	266.4	289.8	226.8	262.9	278.9	318.8	
12	250.9	238.4	267.2	259.3	234.4	234.1	258.7	276.0	271.5	265.0	273.1	257.2	93.3	96.9	251.9	258.3	260.8	246.2	256.3	230.2	235.4	279.4	274.2	252.2	254.7	279.4	
13	251.1	243.1	256.7	270.9	277.9	280.3	280.8	263.6	238.4	P	83.8	69.2	78.5	90.1	95.5	91.8	99.5	147.2	283.9	293.3	288.1	281.2	269.4	275.1	273.6	293.3	
14	281.2	285.3	281.5	286.6	282.8	281.1	273.1	262.9	263.6	263.1	264.7	255.8	251.0	258.8	268.6	264.3	259.1	263.4	253.0	246.2	250.0	249.0	251.1	255.2	262.1	286.6	
15	257.7	265.3	260.3	252.5	256.5	256.2	255.9	253.5	257.0	256.3	253.4	260.9	253.3	257.8	252.2	255.3	271.1	261.0	254.5	255.3	256.1	256.2	265.5	271.3	257.5	271.3	
16	292.0	292.5	288.4	289.2	309.3	304.5	291.1	310.6	299.8	280.0	252.6	285.2	248.7	238.8	243.6	255.5	260.7	33.2	42.0	112.8	59.1	92.8	280.7	340.1	291.0	340.1	
17	280.2	241.3	243.2	279.4	76.3	55.2	53.0	245.8	77.2	242.3	72.8	58.6	83.1	87.1	100.7	91.0	274.5	92.9	85.2	62.3	113.6	88.8	83.0	121.5	78.4	280.2	
18	83.2	84.8	81.7	57.3	60.5	110.2	84.5	149.1	243.5	83.4	64.5	69.8	75.8	76.4	75.1	78.3	70.0	71.4	76.7	85.7	105.6	105.2	60.9	249.7	78.3	249.7	
19	73.4	258.2	254.7	281.3	303.8	272.3	279.7	280.3	278.1	291.0	231.6	251.9	245.7	106.9	76.2	86.9	79.2	69.2	65.7	64.0	86.8	289.5	24.5	70.5	24.6	303.8	
20	253.8	252.8	243.0	249.3	270.2	276.8	288.3	298.6	282.1	303.7	259.6	255.9	254.4	254.9	259.8	256.9	266.4	265.1	257.2	255.1	256.0	254.8	257.6	261.8	262.2	303.7	
21	267.5	285.2	291.2	292.8	286.6	303.4	290.5	265.4	259.3	257.1	247.1	251.7	254.6	250.5	250.8	251.0	250.1	86.8	91.6	95.5	68.8	86.4	72.8	195.6	262.2	303.4	
22	250.6	287.9	330.7	303.6	287.7	298.6	314.1	274.4	286.8	256.8	276.9	280.4	273.7	266.0	275.2	Y	271.8	269.7	275.8	274.2	262.1	263.4	264.1	265.4	277.1	330.7	
23	260.6	260.8	261.6	262.3	257.0	257.8	265.8	273.9	260.1	256.8	266.0	268.3	264.3	274.9	265.2	264.6	270.3	266.3	259.8	255.0	265.0	260.8	239.7	235.7	261.2	274.9	
24	251.3	255.5	279.3	257.6	232.8	199.2	78.3	70.3	83.8	82.3	84.2	84.9	84.1	73.7	114.2	234.3	252.9	234.8	90.0	87.9	86.1	88.9	88.7	98.9	98.4	279.3	
25	213.5	262.0	271.5	276.6	295.3	309.9	297.6	296.7	306.5	314.3	256.8	267.5	267.2	265.8	250.4	261.0	273.3	277.0	P	P	263.8	262.4	256.1	250.7	273.8	314.3	
26	253.9	253.7	263.5	289.9	292.2	294.3	291.5	291.5	278.3	270.6	263.1	266.2	270.8	264.8	86.1	79.3	81.3	77.1	90.2	90.1	77.9	86.0	79.5	73.1	287.8	294.3	
27	91.1	64.2	354.8	286.8	291.3	297.3	325.3	325.7	315.0	252.6	270.6	275.7	265.8	247.8	81.4	78.6	67.0	96.6	86.7	68.3	89.0	88.3	56.5	256.7	18.8	354.8	
28	85.2	83.2	97.7	98.5	325.5	197.0	284.6	288.1	270.9	277.3	206.1	198.5	149.0	76.5	72.1	92.9	91.8	95.0	100.0	89.6	83.8	39.4	216.5	215.8	96.5	325.5	
29	250.3	265.1	262.0	255.1	239.2	219.5	210.3	254.6	250.4	216.1	242.9	236.3	221.7	102.8	80.6	65.6	54.0	60.6	63.2	67.4	68.6	73.9	69.7	103.5	109.6	265.1	
30	64.9	237.9	268.4	246.7	251.2	269.2	268.4	251.1	250.9	93.4	164.5	191.7	256.2	182.5	29.7	283.4	273.4	288.1	281.7	279.9	281.4	277.2	281.4	286.2	271.4	288.1	
NO.	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	29	30	30	29	29	30	30	30	30	716	99.4%	
MEAN	215.4	231.9	248.2	255.6	255.9	252.0	258.3	265.2	259.9	248.2	224.5	222.3	219.5	206.1	192.7	206.2	217.2	185.2	182.3	189.5	188.2	198.5	199.1	227.0			
MAX	292.0	292.5	354.8	321.0	325.5	309.9	325.3	325.7	315.0	314.3	283.8	291.0	273.7	275.0	275.7	283.4	281.5	288.1	283.9	322.6	288.2	294.6	290.1	340.1			



Number of Non-Zero Readings	716
Maximum 1-HR Average	355 degrees
Maximum 24-HR Average	291 degrees
Monthly Calibration	0
Standard Deviation	80.47
Operational Time	716 HRS
Operational Uptime	99.4 %
Monthly Average	223.0 degrees

Lagoon Pressure (mmHg) – June 2020

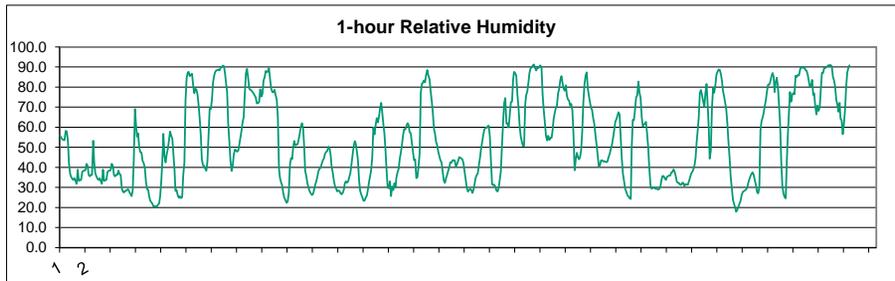
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	648.3	648.8	649.3	649.4	649.7	650.0	650.2	650.3	650.6	650.7	650.9	650.7	650.3	650.1	649.9	649.8	650.4	650.3	650.4	650.7	651.3	651.7	652.0	652.2	650.3	652.2
2	652.2	652.5	652.6	652.8	653.1	653.2	653.4	653.2	653.0	652.5	651.9	651.5	651.0	650.4	650.0	649.3	648.4	647.7	647.1	647.0	647.8	648.5	648.1	648.6	650.7	653.4
3	648.8	648.7	649.3	649.6	649.9	650.1	650.5	650.9	650.8	650.7	650.7	650.9	650.9	650.7	650.6	650.7	650.6	650.6	650.9	651.1	651.2	651.2	651.0	651.3	650.5	651.3
4	651.1	650.9	650.9	650.9	650.9	651.1	651.3	651.1	650.8	650.5	650.2	650.2	649.8	649.4	649.3	649.3	649.4	649.7	650.0	650.9	651.1	651.6	651.6	651.7	650.6	651.7
5	651.6	651.6	651.7	651.6	651.6	651.9	651.8	651.6	651.2	650.4	650.0	649.9	649.4	648.7	648.1	648.0	647.9	647.5	647.3	647.2	647.3	647.1	646.9	649.5	651.8	
6	645.9	644.7	644.2	643.8	643.8	643.5	643.3	643.3	643.2	643.0	642.8	642.7	642.8	642.7	642.6	642.8	643.0	642.8	642.8	642.7	642.6	642.4	642.3	642.0	643.2	645.9
7	642.0	642.1	642.3	642.2	642.0	642.0	642.1	642.0	642.0	642.0	642.0	642.1	642.5	642.8	643.2	643.5	643.7	643.9	644.4	644.7	645.0	645.2	645.5	645.5	643.1	645.5
8	645.5	645.5	645.5	646.2	646.6	646.8	647.1	647.2	647.2	647.2	647.4	647.7	647.7	647.7	647.5	647.5	647.6	648.0	648.9	649.3	649.5	650.1	650.2	650.6	647.7	650.6
9	650.8	650.9	651.2	651.4	651.6	651.9	652.0	652.0	651.7	651.5	651.3	651.1	650.8	650.6	650.4	650.5	650.4	650.5	650.4	650.4	650.4	650.7	650.8	651.2	651.1	652.0
10	651.7	652.0	652.3	652.6	652.9	653.1	653.4	653.4	653.5	653.9	653.7	653.5	653.4	653.2	653.0	652.9	652.6	652.5	652.6	652.7	652.9	653.0	653.2	653.0	653.9	653.9
11	653.0	653.1	653.5	653.6	654.0	654.3	654.7	654.7	654.7	654.7	654.5	654.3	654.2	654.1	654.1	654.0	653.8	653.7	653.7	653.9	654.0	654.2	654.1	653.9	654.0	654.7
12	653.7	653.5	653.4	653.1	653.4	653.3	653.4	653.5	653.4	653.2	652.4	651.6	651.2	651.0	651.5	652.0	651.5	651.5	651.2	650.6	649.9	649.3	649.1	649.0	651.9	653.7
13	648.9	649.2	649.2	649.1	648.6	648.1	647.6	647.4	646.9	P	646.5	646.1	645.8	644.7	644.2	643.7	644.3	645.0	644.3	644.2	643.7	643.7	643.8	643.1	646.0	649.2
14	642.6	642.9	642.9	642.9	643.1	643.7	643.5	643.3	643.2	643.2	643.7	644.0	643.9	643.8	643.6	643.7	643.9	643.9	644.0	643.8	643.3	643.7	644.1	644.3	643.5	644.3
15	644.3	644.2	644.4	644.4	644.4	644.7	645.0	645.1	645.4	645.3	645.1	645.3	645.2	645.2	645.1	645.2	645.5	645.8	646.0	646.2	646.5	647.0	647.3	647.5	645.4	647.5
16	647.8	647.8	648.1	648.3	648.7	649.2	649.6	649.9	649.9	649.8	650.0	650.2	650.2	650.2	650.2	650.3	650.5	650.9	651.2	651.3	651.5	651.9	652.1	652.3	650.1	652.3
17	652.6	652.6	652.6	653.0	653.4	653.9	654.2	654.1	654.3	654.2	654.2	653.9	653.8	653.7	653.9	654.0	654.5	654.7	655.2	655.6	655.7	655.9	656.1	656.2	654.3	656.2
18	656.5	656.8	656.9	657.0	657.0	657.1	657.2	657.1	656.8	656.5	656.3	655.7	655.5	655.4	655.3	655.1	654.8	654.6	654.6	654.5	654.4	654.4	653.9	653.5	655.7	657.2
19	653.4	653.4	653.0	652.7	652.8	653.1	652.9	652.8	652.6	652.6	652.4	652.2	651.7	651.3	651.0	651.2	650.8	650.6	650.5	650.5	650.6	650.6	650.6	650.8	651.8	653.4
20	650.6	650.4	650.4	650.3	650.2	650.2	650.4	650.2	649.9	649.9	649.8	649.6	649.7	649.8	649.6	649.3	649.1	649.1	648.9	648.9	649.0	649.4	649.5	649.4	649.7	650.6
21	649.4	649.4	649.5	649.5	649.6	649.8	649.9	650.2	650.2	650.4	650.6	650.6	650.6	650.5	650.4	650.5	650.5	651.2	651.9	652.2	652.4	653.0	653.4	653.5	650.8	653.5
22	653.5	653.6	653.9	654.1	654.3	654.6	654.7	654.5	654.3	654.5	654.3	654.1	654.0	653.9	653.7	Y	653.6	653.4	653.5	653.7	653.8	653.8	653.9	653.7	654.0	654.7
23	653.6	653.4	653.1	652.8	652.7	652.8	653.0	652.8	652.6	652.4	652.3	652.4	652.1	651.7	651.5	651.5	651.4	651.1	650.9	650.6	650.7	650.7	650.7	650.6	652.0	653.6
24	650.1	649.8	649.9	649.9	650.1	650.1	650.0	650.2	650.1	649.9	649.6	649.3	649.8	649.9	649.4	649.0	649.1	649.7	650.2	650.5	650.6	651.1	651.4	651.7	650.1	651.7
25	651.9	652.2	652.4	652.6	652.9	653.4	653.5	653.5	653.3	653.2	652.9	652.4	652.3	651.8	651.3	651.0	650.7	650.6	P	P	650.7	651.0	651.1	651.1	652.1	653.5
26	651.0	650.9	651.0	650.9	650.8	650.6	650.5	650.2	649.7	649.3	649.0	648.7	648.6	648.8	649.4	649.4	649.0	648.6	648.4	648.0	647.3	646.9	646.4	646.1	649.1	651.0
27	645.9	646.0	646.3	646.3	646.5	646.4	646.4	646.2	646.1	646.1	645.9	645.8	645.4	644.9	644.7	644.6	645.7	646.3	646.1	646.1	646.4	646.5	646.5	646.2	646.0	646.5
28	646.3	646.4	646.4	646.7	647.0	647.3	647.4	647.7	647.9	648.0	647.8	648.0	648.2	648.3	648.3	648.5	648.5	648.6	649.1	649.5	649.8	650.2	650.4	650.7	648.2	650.7
29	650.8	651.0	651.0	651.2	651.5	651.5	651.7	651.8	651.7	651.7	651.7	651.7	651.7	651.7	651.5	651.2	651.1	651.0	650.7	650.2	649.9	649.8	649.4	649.2	650.8	651.8
30	648.7	648.5	648.2	648.0	648.0	647.6	647.4	647.4	647.4	647.4	647.3	647.1	646.9	646.6	646.5	646.2	646.3	646.3	646.2	646.3	646.2	645.6	645.6	645.4	647.0	648.7
NO.	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	29	30	30	29	29	30	30	30	30	716	99.4%
MEAN	649.8	649.8	649.8	649.9	650.0	650.2	650.3	650.2	650.2	650.2	649.9	649.8	649.7	649.5	649.3	649.1	649.3	649.3	649.3	649.4	649.5	649.7	649.7	649.7		
MAX	656.5	656.8	656.9	657.0	657.0	657.1	657.2	657.1	656.8	656.5	656.3	655.7	655.5	655.4	655.3	655.1	654.8	654.7	655.2	655.6	655.7	655.9	656.1	656.2		



Number of Non-Zero Readings	716	Operational Time	716 HRS
Maximum 1-HR Average	657 MMHg	Operational Uptime	99.4 %
Maximum 24-HR Average	656 MMHg	Monthly Average	649.7 MMHg
Monthly Calibration	0		
Standard Deviation	3.437		

Lagoon Relative Humidity (%) – June 2020

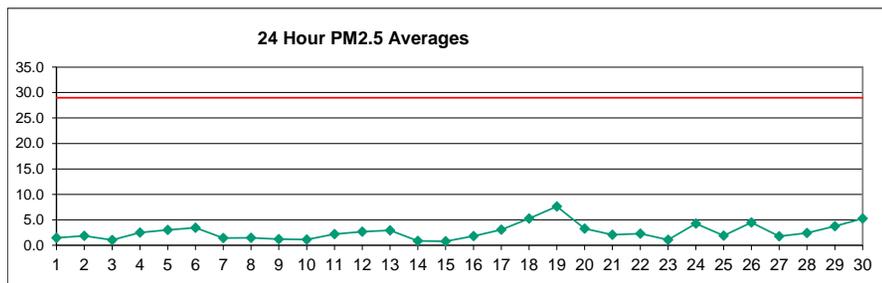
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	55.8	54.8	53.9	53.7	53.5	58.2	57.9	53.3	42.0	36.8	35.4	34.4	33.7	34.6	33.1	31.8	38.8	33.3	33.6	33.7	37.6	38.3	38.4	38.6	42.3	58.2
2	41.8	40.9	36.3	35.5	36.3	36.3	38.4	36.6	36.3	29.6	28.1	27.5	28.3	28.2	28.9	29.0	27.7	26.6	25.6	28.7	44.8	69.0	62.4	55.3	36.6	69.0
3	57.0	50.1	47.5	47.4	43.4	42.1	40.0	32.9	29.1	28.8	25.9	23.4	22.6	21.9	20.4	20.6	20.6	20.3	21.4	22.0	26.0	33.8	42.4	56.7	33.2	57.0
4	45.5	42.4	46.5	49.3	53.4	57.8	55.8	54.3	46.5	38.5	28.2	28.8	26.1	24.8	25.6	24.7	25.2	36.3	42.2	73.0	84.5	87.2	87.6	85.4	48.7	87.6
5	86.0	86.7	81.1	77.0	79.2	78.6	76.1	70.5	63.5	54.7	44.0	41.0	40.8	39.4	38.3	42.9	55.8	69.3	69.1	73.4	82.3	85.1	87.4	88.2	67.1	88.2
6	88.5	88.7	88.4	89.7	89.9	90.7	90.4	86.4	81.3	77.6	61.7	53.0	43.2	38.1	40.8	46.5	48.9	48.4	47.8	48.3	51.7	54.5	58.0	62.3	65.6	90.7
7	64.9	76.1	86.8	89.0	84.5	79.2	78.7	78.3	77.5	77.0	75.8	74.8	71.8	72.0	72.5	78.8	75.3	76.7	83.2	85.0	88.0	87.5	87.7	89.5	79.6	89.5
8	84.1	79.5	77.5	77.4	78.7	75.9	73.8	64.5	39.5	34.9	32.6	31.1	27.3	24.8	23.6	22.3	23.0	27.4	41.2	44.7	44.1	49.6	53.2	50.9	49.2	84.1
9	51.2	51.5	53.8	56.9	60.5	62.0	59.2	49.7	38.3	35.7	32.0	29.9	28.0	27.2	26.2	26.6	28.7	31.3	33.2	35.6	37.9	39.3	39.8	41.8	40.7	62.0
10	43.5	44.4	46.8	47.7	48.2	50.3	49.7	46.1	40.8	37.6	33.7	30.8	28.6	28.0	28.4	28.4	27.1	26.6	27.2	28.9	31.8	33.1	32.4	32.9	36.4	50.3
11	35.1	37.0	41.4	46.0	50.6	53.0	51.4	47.2	43.6	33.7	28.2	26.4	25.0	23.4	23.4	25.0	26.0	29.1	33.0	35.9	38.6	44.9	59.9	56.3	38.1	59.9
12	60.8	64.6	62.5	65.1	69.5	72.1	67.0	61.1	57.4	49.0	38.8	30.0	29.6	33.1	25.7	30.5	28.6	32.0	30.1	35.0	37.5	39.1	44.2	47.5	46.3	72.1
13	51.4	56.1	59.2	58.8	60.8	62.0	61.0	57.5	57.0	P	47.8	43.5	44.0	34.6	35.1	40.4	47.0	77.1	81.7	82.1	83.4	82.4	86.1	88.5	60.8	88.5
14	85.7	84.1	78.2	73.0	67.3	59.1	56.5	52.9	51.1	48.0	45.5	43.5	42.3	37.8	33.3	32.2	34.6	36.4	38.4	39.7	42.6	42.4	43.5	43.6	50.5	85.7
15	43.4	40.4	41.6	43.1	45.1	44.8	44.3	44.0	42.0	37.8	33.8	29.7	28.0	28.7	29.2	28.7	27.2	28.9	31.9	34.7	36.1	37.0	41.2	45.0	36.9	45.1
16	49.5	52.9	56.6	59.0	59.8	59.7	60.6	60.7	55.2	42.7	31.5	31.1	31.3	30.1	28.2	28.1	30.2	34.4	37.9	50.4	62.1	72.0	74.5	61.9	48.4	74.5
17	61.9	59.9	66.3	72.5	72.7	83.8	87.6	87.1	85.7	76.4	70.0	60.7	55.4	52.8	50.7	50.8	71.5	76.4	77.5	81.9	87.1	89.4	89.9	90.7	73.3	90.7
18	91.3	89.6	88.2	89.6	89.5	90.3	90.8	89.4	75.9	68.3	62.3	55.6	53.4	55.8	53.6	54.7	54.7	58.9	64.2	67.1	69.5	70.8	76.9	79.1	72.5	91.3
19	83.6	85.4	81.9	79.1	78.2	80.8	75.9	73.8	73.3	70.8	71.6	68.3	56.2	38.5	44.1	47.2	45.0	44.0	45.1	48.3	57.9	72.3	81.2	85.7	66.2	85.7
20	87.4	79.2	75.7	72.2	69.3	68.7	64.4	61.6	56.2	51.4	46.2	40.4	41.0	43.4	43.6	42.9	43.1	42.8	42.5	43.0	45.2	46.8	49.2	51.2	54.5	87.4
21	54.8	58.6	62.8	64.0	66.0	67.4	66.4	55.2	44.2	36.9	33.2	29.3	27.8	26.1	25.4	24.7	24.2	49.0	63.7	63.4	68.5	75.0	75.9	82.8	51.9	82.8
22	77.2	74.6	65.1	60.5	61.3	61.8	62.7	56.9	49.9	39.5	31.3	29.4	29.7	30.0	29.4	Y	29.3	28.9	29.2	30.0	33.6	35.7	35.7	34.6	44.2	77.2
23	33.7	35.2	35.6	35.9	35.9	37.4	37.7	39.0	37.9	35.7	32.8	32.2	32.2	31.2	31.4	32.4	32.2	30.7	31.6	31.5	31.2	33.0	34.8	36.9	34.1	39.0
24	37.7	38.9	40.9	44.8	51.8	58.1	64.8	77.2	78.5	75.8	72.7	70.1	77.2	81.5	71.1	59.0	44.3	48.4	69.0	79.4	77.2	80.7	86.1	87.7	65.5	87.7
25	88.7	88.6	86.4	83.0	78.4	75.6	72.3	68.9	61.8	52.5	44.6	35.0	29.5	23.9	21.8	19.9	17.8	18.7	P	P	23.3	26.2	27.8	28.2	48.8	88.7
26	28.5	29.0	29.9	32.4	34.1	35.5	36.8	37.5	36.0	33.5	31.0	27.5	27.0	30.4	58.4	63.2	64.5	66.9	70.4	73.4	77.9	81.2	81.2	82.7	48.7	82.7
27	85.3	87.0	85.1	77.5	82.3	84.7	80.3	71.1	61.2	42.5	30.5	26.9	25.2	24.5	43.5	55.2	66.6	77.5	72.7	76.1	77.1	76.4	85.7	85.0	65.8	87.0
28	86.1	85.8	88.6	90.1	89.7	89.6	90.0	88.6	88.1	86.3	83.1	80.1	80.6	83.6	76.1	76.9	70.5	66.4	70.8	68.1	69.9	79.2	87.2	87.0	81.8	90.1
29	89.6	89.5	90.0	90.4	90.9	90.9	90.9	90.4	85.1	83.4	80.1	73.6	71.4	67.7	72.1	64.3	63.5	56.6	61.4	68.4	79.8	87.3	89.5	90.8	79.9	90.9
30	91.2	91.7	88.2	85.4	84.7	82.7	82.1	80.6	82.9	88.2	89.4	89.7	86.4	85.1	85.4	82.9	77.6	81.8	79.2	83.5	86.4	84.5	83.8	83.4	84.9	91.7
NO.	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	29	30	30	29	29	30	30	30	30	716	99.4%
MEAN	64.7	64.8	64.8	64.9	65.5	66.3	65.5	62.5	57.3	51.9	46.7	43.3	41.5	40.0	40.6	41.7	42.3	46.0	50.2	54.0	57.1	61.1	64.1	65.0		
MAX	91.3	91.7	90.0	90.4	90.9	90.9	90.9	90.4	88.1	88.2	89.4	89.7	86.4	85.1	85.4	82.9	77.6	81.8	83.2	85.0	88.0	89.4	89.9	90.8		



Number of Non-Zero Readings	716
Maximum 1-HR Average	91.7 %
Maximum 24-HR Average	84.9 %
Monthly Calibration	0
Standard Deviation	21.47
Operational Time	716 HRS
Operational Uptime	99.4 %
Monthly Average	55.1 %

West PM_{2.5} (µg/m³) – June 2020

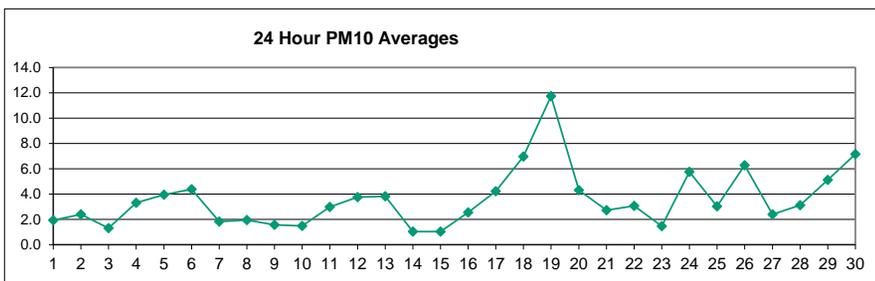
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.3	0.4	0.8	0.9	1.1	1.4	2.8	2.5	1.9	1.6	2.2	2.8	1.9	1.7	1.5	1.6	1.2	0.9	1.0	1.0	1.2	1.2	1.3	1.3	1.4	2.8
2	1.2	1.1	1.1	1.1	1.1	1.3	2.2	3.4	1.4	2.0	2.4	2.3	2.2	2.4	2.6	2.4	2.1	2.2	2.0	2.3	1.8	1.6	0.9	0.5	1.8	3.4
3	0.4	0.2	0.2	0.2	0.2	0.4	0.7	0.8	1.4	1.5	1.4	1.4	1.9	1.8	1.7	1.2	1.3	1.4	1.2	1.0	1.0	1.0	1.1	1.2	1.0	1.9
4	1.5	1.6	1.6	1.7	1.6	2.6	3.3	3.7	3.5	2.5	2.4	2.1	2.1	2.1	2.1	2.3	1.7	6.0	2.4	3.9	2.0	2.3	2.0	1.9	2.5	6.0
5	2.4	2.5	2.4	2.0	2.5	2.8	3.1	3.8	3.9	3.3	3.2	3.1	3.2	4.1	3.1	2.8	3.3	2.6	2.8	2.9	2.2	2.9	3.1	4.0	3.0	4.1
6	3.3	3.3	4.3	4.7	8.6	10.4	10.6	7.2	5.8	4.9	2.5	1.6	0.8	0.9	0.9	0.9	0.7	0.9	1.4	1.7	1.5	1.6	1.9	2.2	3.4	10.6
7	2.1	2.2	2.7	2.8	2.3	2.1	1.5	1.2	0.9	1.0	0.9	0.8	1.1	0.8	0.6	0.7	0.6	0.5	1.0	1.6	1.2	1.3	2.2	2.0	1.4	2.8
8	2.1	1.6	1.3	1.1	1.1	1.2	1.6	2.3	1.5	1.6	1.8	1.6	2.2	1.6	2.0	1.6	1.1	0.9	0.9	1.0	1.1	1.1	1.1	0.9	1.4	2.3
9	0.7	0.7	1.0	1.0	1.0	1.2	2.1	1.8	1.2	1.3	1.6	1.4	1.1	1.5	1.6	1.7	1.7	1.2	1.1	0.9	0.7	0.7	0.5	0.4	1.2	2.1
10	0.3	0.3	0.2	0.2	0.5	1.0	1.9	1.2	0.9	1.5	1.0	1.2	1.4	1.4	1.5	1.5	1.4	1.2	1.2	1.2	1.3	1.2	1.3	1.5	1.1	1.9
11	1.6	1.7	1.9	2.2	2.5	3.0	3.2	3.7	3.7	3.4	2.2	2.8	2.5	2.6	2.6	2.5	2.0	1.9	1.7	1.3	0.7	0.6	0.7	0.9	2.2	3.7
12	1.0	1.6	2.0	2.0	1.8	2.0	2.3	5.9	7.2	6.6	3.7	2.0	3.1	6.7	3.3	1.7	1.9	1.3	1.2	1.2	1.0	1.0	1.4	2.0	2.7	7.2
13	2.2	2.1	2.1	2.3	2.3	2.1	2.8	3.0	2.8	2.5	3.2	3.6	3.4	2.5	2.3	2.6	2.8	4.4	4.0	2.7	3.2	3.5	4.3	2.7	2.9	4.4
14	3.9	3.3	2.8	1.4	1.3	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.6	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.3	0.2	0.8	3.9
15	0.2	0.2	0.2	0.3	0.3	0.3	1.0	1.1	1.0	1.1	1.2	0.9	1.2	1.3	1.3	1.1	0.8	0.6	0.6	0.6	0.5	0.6	0.6	0.8	0.7	1.3
16	0.9	0.8	0.8	0.8	0.8	1.1	1.6	2.7	2.8	2.2	2.0	2.7	2.6	2.9	2.3	2.2	1.8	1.0	1.0	1.2	1.4	1.5	2.1	3.8	1.8	3.8
17	4.2	2.6	1.9	2.3	2.1	1.8	1.4	2.0	3.4	5.4	7.7	6.1	3.5	4.5	4.0	3.9	2.1	1.8	2.0	1.9	1.9	1.9	2.0	2.5	3.0	7.7
18	2.0	2.7	2.5	2.3	2.2	2.4	5.5	7.0	6.7	7.8	3.3	3.3	3.4	4.7	5.5	6.7	5.5	6.7	7.8	7.4	7.4	7.4	7.1	8.6	5.2	8.6
19	9.4	10.1	10.2	10.7	10.3	10.7	11.5	11.7	10.4	9.1	9.9	9.7	8.1	6.4	6.8	4.5	4.0	3.6	3.8	4.2	4.3	4.3	4.5	4.9	7.6	11.7
20	5.7	6.5	6.8	5.7	4.9	4.3	4.1	3.9	4.0	3.9	4.7	3.2	3.5	2.3	2.0	1.7	1.6	1.3	0.9	1.2	1.1	1.5	1.5	1.9	3.3	6.8
21	1.4	1.6	1.4	1.5	1.4	1.6	1.6	2.0	1.1	1.0	1.1	1.1	1.1	1.3	1.8	1.6	1.3	4.1	3.1	3.7	3.3	4.0	4.1	3.1	2.1	4.1
22	3.4	4.8	4.5	3.6	3.1	3.0	3.9	4.8	4.7	2.7	2.1	1.5	1.3	1.9	1.3	1.4	1.2	1.1	0.8	0.8	0.7	0.8	0.8	0.6	2.3	4.8
23	0.6	0.8	0.8	0.8	0.8	0.7	0.9	1.1	1.8	1.9	1.2	1.6	1.9	1.2	1.2	1.3	1.4	0.9	0.8	0.8	0.8	0.7	0.6	0.5	1.1	1.9
24	0.4	0.5	0.5	0.5	0.6	0.6	2.1	7.3	8.6	8.4	8.9	9.3	12.7	13.2	11.5	4.6	1.5	1.5	2.8	1.4	1.1	1.0	1.1	1.3	4.2	13.2
25	1.6	1.9	2.4	2.5	2.4	2.4	2.4	3.6	3.5	2.9	2.5	1.6	1.6	1.5	1.6	1.4	1.1	1.0	P	0.9	1.1	1.2	1.2	1.2	1.9	3.6
26	1.2	1.2	1.6	1.8	2.0	2.0	2.5	4.7	3.4	3.4	2.5	1.8	2.0	2.5	8.8	7.1	8.3	7.4	7.5	6.7	6.1	6.8	7.2	8.6	4.5	8.8
27	5.8	5.8	5.9	1.0	0.8	1.0	0.6	0.7	1.0	0.7	0.6	0.6	0.6	0.7	1.3	1.4	1.6	2.5	2.3	1.8	2.0	1.5	0.9	1.3	1.8	5.9
28	1.1	1.4	1.2	1.3	1.5	5.3	3.9	2.2	2.0	1.3	1.4	2.0	2.6	5.8	4.8	1.7	2.6	1.8	1.8	1.8	2.0	2.0	2.4	3.7	2.4	5.8
29	4.0	3.7	3.3	2.4	2.0	2.0	2.6	3.5	6.7	5.7	4.7	2.9	5.1	8.3	4.7	2.9	2.8	1.8	2.2	2.6	3.5	4.1	3.9	3.8	3.7	8.3
30	4.6	6.4	5.8	5.2	4.9	5.0	7.3	7.7	6.6	6.9	14.5	10.9	7.9	5.8	5.4	3.8	3.2	2.1	2.4	2.2	2.0	2.0	1.9	1.7	5.3	14.5
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	719	100%
MEAN	2.3	2.5	2.5	2.2	2.3	2.5	3.0	3.6	3.5	3.3	3.2	2.9	2.9	3.2	3.0	2.4	2.1	2.2	2.1	2.1	1.9	2.1	2.1	2.3		
MAX	9.4	10.1	10.2	10.7	10.3	10.7	11.5	11.7	10.4	9.1	14.5	10.9	12.7	13.2	11.5	7.1	8.3	7.4	7.8	7.4	7.4	7.4	7.2	8.6		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	719	
Maximum 1-HR Average	14.5 UG/M3	
Maximum 24-HR Average	7.6 UG/M3	
IZS Calibration Time		Operational Time 719 HRS
Down Time	0	Operational Uptime 99.9 %
Standard Deviation	2.274	Monthly Average 2.6 UG/M3

West PM₁₀ (µg/m³) – June 2020

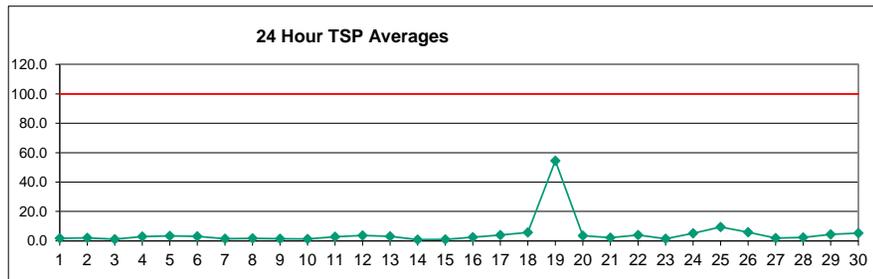
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.4	0.5	1.0	1.2	1.4	1.9	4.0	3.6	2.7	2.3	3.0	4.0	2.7	2.4	2.1	2.2	1.6	1.1	1.2	1.3	1.5	1.5	1.5	1.5	1.9	4.0
2	1.4	1.3	1.4	1.3	1.2	1.6	3.0	4.5	1.8	2.8	3.4	3.1	2.9	3.4	3.6	3.2	2.7	2.9	2.6	3.2	2.3	1.9	1.0	0.6	2.4	4.5
3	0.4	0.3	0.2	0.3	0.3	0.6	0.9	1.1	1.9	2.0	2.0	1.9	2.6	2.4	2.2	1.5	1.7	1.7	1.3	1.2	1.1	1.2	1.3	1.4	1.3	2.6
4	1.7	1.9	1.8	1.9	1.8	3.3	4.6	5.3	5.1	3.6	3.3	2.9	2.9	2.9	3.0	3.2	2.3	8.9	3.4	5.4	2.4	2.8	2.4	2.2	3.3	8.9
5	2.7	2.8	2.6	2.2	2.8	3.2	3.7	5.1	5.6	4.7	4.6	4.5	4.7	6.0	4.5	3.8	4.6	3.3	3.8	4.0	2.7	3.7	3.8	5.2	3.9	6.0
6	4.3	4.1	5.3	6.1	11.1	13.2	13.2	8.5	7.3	6.6	3.3	2.1	1.1	1.2	1.1	1.1	0.9	1.1	1.8	2.3	2.0	2.2	2.5	2.8	4.4	13.2
7	2.7	2.9	3.3	3.3	2.6	2.4	1.8	1.4	1.0	1.2	1.2	1.1	1.4	1.1	0.8	0.9	0.8	0.7	1.4	2.3	1.7	1.8	3.2	2.7	1.8	3.3
8	2.6	2.1	1.7	1.5	1.5	1.6	2.2	3.2	2.1	2.3	2.6	2.3	3.2	2.2	2.8	2.3	1.4	1.2	1.3	1.5	1.5	1.4	1.1	1.9	3.2	1.1
9	0.8	0.9	1.3	1.2	1.2	1.4	3.0	2.6	1.7	1.8	2.3	1.9	1.5	2.1	2.2	2.3	2.3	1.6	1.4	1.2	0.8	0.9	0.6	0.5	1.6	3.0
10	0.3	0.3	0.3	0.3	0.6	1.4	2.7	1.7	1.2	2.2	1.4	1.7	1.9	1.9	2.1	2.1	2.0	1.7	1.6	1.6	1.7	1.5	1.6	1.8	1.5	2.7
11	2.1	2.2	2.4	2.8	3.2	4.1	4.5	5.5	5.5	4.9	3.1	3.9	3.6	3.7	3.7	3.6	2.7	2.6	2.2	1.7	0.8	0.7	0.9	1.1	3.0	5.5
12	1.3	2.1	2.5	2.4	2.2	2.3	2.7	8.8	10.8	9.8	5.4	2.9	4.5	10.1	4.8	2.4	2.8	1.7	1.6	1.6	1.3	1.3	1.9	2.7	3.8	10.8
13	2.8	2.6	2.6	2.9	2.8	2.6	3.6	4.1	3.9	3.4	4.6	5.3	5.0	3.6	3.3	3.8	4.1	5.9	5.0	3.2	3.9	4.1	5.3	3.3	3.8	5.9
14	4.5	3.8	3.2	1.7	1.5	0.6	0.7	0.4	0.4	0.4	0.6	0.6	0.4	0.6	0.9	0.6	0.5	0.5	0.7	0.5	0.4	0.5	0.4	0.3	1.0	4.5
15	0.2	0.2	0.2	0.4	0.4	0.4	1.4	1.6	1.5	1.6	1.8	1.2	1.7	1.8	1.9	1.6	1.1	0.8	0.8	0.8	0.7	0.7	0.7	1.1	1.0	1.9
16	1.1	0.9	1.0	0.9	1.0	1.4	2.2	4.0	4.2	3.3	2.9	3.9	3.8	4.3	3.4	3.2	2.6	1.4	1.3	1.6	1.9	2.1	3.1	5.7	2.5	5.7
17	6.3	3.7	2.5	3.0	2.7	2.2	1.6	2.5	4.5	8.0	11.4	9.1	5.1	6.5	5.8	5.7	2.8	2.3	2.5	2.3	2.3	2.4	2.7	3.4	4.2	11.4
18	2.5	3.2	2.9	2.6	2.4	2.9	7.7	10.4	9.3	10.6	4.6	4.6	4.8	6.8	8.0	9.8	7.0	8.6	9.8	9.3	9.6	9.9	9.2	10.7	7.0	10.7
19	11.6	12.8	12.7	12.6	11.7	12.9	14.7	16.0	14.4	12.2	12.6	12.5	11.0	18.2	44.4	8.0	5.4	4.6	4.7	5.3	5.5	5.5	5.9	6.5	11.7	44.4
20	7.9	8.9	8.8	6.9	5.8	5.1	5.3	5.1	5.5	5.4	6.9	4.6	5.1	3.2	2.6	2.2	2.1	1.7	1.1	1.5	1.3	1.8	1.9	2.5	4.3	8.9
21	1.7	1.9	1.6	1.7	1.6	1.8	1.9	2.5	1.4	1.3	1.5	1.5	1.5	1.8	2.6	2.2	1.9	6.1	4.2	5.1	4.5	5.5	5.5	3.9	2.7	6.1
22	4.3	6.1	5.4	4.3	3.6	3.4	5.3	7.1	7.0	3.9	3.1	2.2	1.8	2.8	1.7	1.9	2.0	1.5	1.1	1.0	0.9	1.0	1.1	0.8	3.1	7.1
23	0.8	1.0	1.0	1.1	1.1	0.9	1.2	1.5	2.7	2.8	1.8	2.3	2.8	1.6	1.7	1.9	2.0	1.2	1.0	1.1	1.1	0.8	0.8	0.6	1.5	2.8
24	0.5	0.6	0.6	0.7	0.7	0.7	3.1	9.8	10.9	11.3	12.1	12.7	17.9	17.9	16.1	6.5	2.2	2.1	4.1	1.8	1.4	1.3	1.4	1.8	5.8	17.9
25	2.2	2.6	3.3	3.1	3.1	2.9	3.2	5.2	5.1	4.2	6.5	6.7	4.7	2.2	2.4	2.0	1.4	1.4	P	1.3	1.3	1.5	1.5	1.5	3.0	6.7
26	1.5	1.5	1.9	2.3	2.7	2.6	3.5	7.1	4.9	5.1	3.6	2.6	2.9	3.7	12.8	9.3	10.9	10.1	10.6	9.7	9.0	9.5	9.8	12.7	6.3	12.8
27	8.4	8.4	7.9	1.2	1.0	1.2	0.7	0.9	1.3	1.0	0.7	0.8	0.8	0.9	1.9	2.0	2.3	3.5	3.1	2.2	2.4	1.9	1.1	1.8	2.4	8.4
28	1.4	1.8	1.5	1.7	2.1	6.7	4.7	2.5	2.3	1.6	1.6	2.5	3.4	8.0	6.4	2.2	3.6	2.4	2.4	2.5	2.8	2.6	3.1	4.8	3.1	8.0
29	5.1	4.8	4.1	3.0	2.5	2.4	3.1	4.4	9.7	8.5	7.0	4.2	7.2	11.0	6.8	4.1	3.8	2.3	3.2	3.7	5.1	5.9	5.6	5.2	5.1	11.0
30	6.5	9.5	8.5	7.4	6.7	6.8	10.4	11.3	9.7	9.7	20.2	14.4	11.0	7.4	6.4	4.5	3.9	2.6	2.8	2.6	2.4	2.5	2.3	2.1	7.1	20.2
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	719	100%
MEAN	3.0	3.2	3.1	2.7	2.8	3.1	4.0	4.9	4.8	4.6	4.6	4.1	4.1	4.7	5.4	3.3	2.8	2.9	2.8	2.8	2.6	2.7	2.8	3.1		
MAX	11.6	12.8	12.7	12.6	11.7	13.2	14.7	16.0	14.4	12.2	20.2	14.4	17.9	18.2	44.4	9.8	10.9	10.1	10.6	9.7	9.6	9.9	9.8	12.7		



Number of Non-Zero Readings	719	
Maximum 1-HR Average	44.4 UG/M3	
Maximum 24-HR Average	11.7 UG/M3	
IZS Calibration Time	OperatioEI Time	719 HRS
Down Time	OperatioEI Uptime	99.9 %
Standard Deviation	Monthly Average	3.5 UG/M3

West TSP ($\mu\text{g}/\text{m}^3$) – June 2020

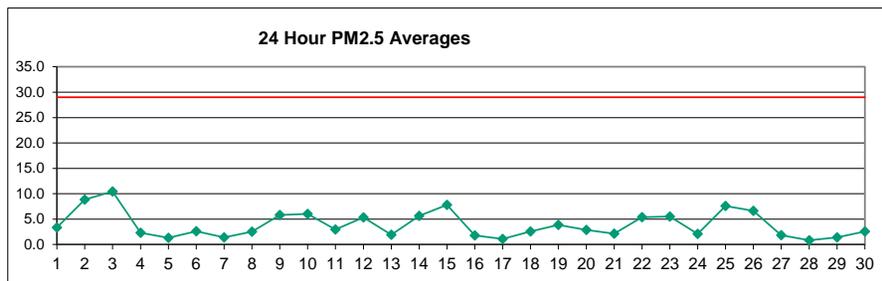
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.3	0.4	0.7	0.9	1.0	1.5	4.1	3.7	2.6	2.0	2.8	3.9	2.5	2.2	1.9	1.9	1.4	0.8	0.9	0.9	1.1	1.1	1.1	1.0	1.7	4.1
2	0.9	1.0	1.0	0.9	0.8	1.3	2.9	4.1	1.4	2.5	3.1	2.8	2.6	3.2	3.4	2.9	2.2	2.4	2.1	2.8	1.8	1.2	0.7	0.4	2.0	4.1
3	0.3	0.2	0.1	0.2	0.2	0.5	0.9	1.0	1.8	1.9	1.8	1.7	2.4	2.2	1.9	1.1	1.3	1.3	0.9	0.8	0.7	0.8	0.9	0.9	1.1	2.4
4	1.2	1.2	1.2	1.3	1.2	2.8	4.1	5.4	5.3	3.5	3.2	2.7	2.7	2.9	3.0	1.9	10.1	3.3	4.1	1.6	1.8	1.6	1.4	2.9	10.1	
5	1.8	1.8	1.7	1.4	1.8	2.1	2.5	4.2	5.4	4.6	4.6	4.5	4.8	6.5	4.4	3.4	4.1	2.4	2.9	3.1	1.8	2.5	2.5	3.5	3.3	6.5
6	2.9	2.8	3.5	4.1	7.2	8.6	8.6	5.7	5.2	5.4	2.7	1.7	0.8	1.0	0.9	0.9	0.8	0.9	1.7	1.9	1.6	1.6	1.8	2.0	3.1	8.6
7	1.9	2.0	2.2	2.1	1.7	1.6	1.2	1.0	0.7	0.9	0.8	0.8	1.0	0.9	0.6	0.7	0.6	0.5	1.1	2.0	1.3	1.4	2.8	2.2	1.3	2.8
8	1.9	1.5	1.3	1.1	1.1	1.1	1.6	2.9	2.2	2.3	2.6	2.2	3.1	2.0	2.7	2.1	1.1	0.9	0.9	1.1	1.2	1.1	1.0	0.8	1.7	3.1
9	0.6	0.6	0.9	0.8	0.8	1.0	2.7	2.6	1.6	1.9	2.2	1.8	1.2	1.9	2.0	2.0	2.0	1.3	1.1	0.9	0.6	0.7	0.4	0.4	1.3	2.7
10	0.2	0.2	0.2	0.2	0.5	1.2	2.8	1.7	1.1	2.1	1.3	1.6	1.9	1.8	1.9	1.9	1.7	1.3	1.2	1.2	1.3	1.1	1.2	1.4	1.3	2.8
11	1.6	1.7	1.8	2.1	2.3	3.4	4.0	5.8	5.9	4.9	2.7	3.8	3.5	3.4	3.5	3.3	2.2	2.1	1.7	1.5	0.6	0.5	0.7	0.8	2.7	5.9
12	0.9	1.5	1.8	1.7	1.5	1.6	1.9	9.8	12.3	11.1	5.8	2.8	4.8	11.6	5.2	2.2	2.7	1.5	1.3	1.2	1.0	1.0	1.4	2.1	3.7	12.3
13	2.0	1.9	1.9	2.0	1.9	1.8	2.5	3.4	3.2	2.9	4.6	5.5	5.1	3.4	3.1	3.8	3.7	4.0	3.3	2.1	2.6	2.7	3.6	2.2	3.0	5.5
14	2.9	2.5	2.2	1.2	1.1	0.5	0.5	0.3	0.3	0.3	0.5	0.5	0.3	0.5	0.8	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.3	0.2	0.8	2.9
15	0.2	0.2	0.2	0.3	0.3	0.3	1.4	1.5	1.4	1.6	1.8	1.1	1.6	1.7	1.8	1.5	1.0	0.6	0.6	0.7	0.5	0.5	0.5	0.8	0.9	1.8
16	0.8	0.7	0.7	0.6	0.7	1.0	2.0	4.3	4.5	3.4	2.9	4.1	4.1	4.6	3.6	3.4	2.6	1.2	1.0	1.3	1.6	1.8	2.7	5.9	2.5	5.9
17	6.4	3.0	1.8	2.3	1.9	1.5	1.0	1.7	3.2	8.2	12.6	10.1	5.1	6.7	6.0	6.2	2.2	1.7	1.7	1.6	1.5	1.6	1.9	2.4	3.9	12.6
18	1.7	2.1	1.9	1.7	1.6	1.9	6.1	9.8	8.2	10.2	4.2	4.5	4.6	6.6	8.6	10.3	5.4	6.5	7.1	6.9	7.0	8.1	6.2	7.0	5.8	10.3
19	7.6	8.5	8.4	8.2	7.6	8.6	10.6	13.6	12.1	11.2	13.6	13.0	9.1	43.1	1022.2	79.6	4.6	3.5	3.4	3.7	3.8	3.8	4.1	4.6	54.5	1022.2
20	5.6	6.3	5.9	4.6	3.9	3.5	4.0	3.8	4.7	4.9	7.1	4.5	5.2	2.8	2.3	1.9	1.8	1.3	0.9	1.4	1.0	1.4	1.5	2.0	3.4	7.1
21	1.2	1.3	1.1	1.1	1.1	1.2	1.3	1.9	1.3	1.1	1.2	1.3	1.3	1.6	2.5	2.0	1.6	6.6	3.4	4.5	3.5	4.3	4.0	2.8	2.2	6.6
22	3.0	4.2	3.8	3.0	2.5	2.3	4.6	7.7	7.8	3.9	3.3	2.1	1.6	2.8	1.5	1.8	30.6	1.4	0.9	0.8	0.7	0.9	0.9	0.6	3.9	30.6
23	0.6	0.7	0.8	0.9	1.0	0.7	1.0	1.3	2.7	2.9	1.6	2.3	2.8	1.5	1.6	1.8	2.1	1.0	0.8	1.0	1.0	0.6	0.6	0.5	1.3	2.9
24	0.4	0.4	0.5	0.5	0.5	0.5	3.2	10.8	11.9	10.2	10.9	11.4	14.3	13.1	13.0	5.5	2.1	2.0	4.2	1.4	1.1	1.0	1.0	1.4	5.1	14.3
25	1.9	2.1	2.4	2.1	2.1	2.0	2.5	4.9	5.2	4.4	33.0	96.6	34.1	2.2	2.4	2.0	1.3	1.2	P	8.5	0.9	1.1	1.1	1.0	9.4	96.6
26	1.1	1.0	1.4	1.7	2.1	1.9	3.3	7.9	5.1	5.3	3.7	2.4	2.7	3.7	14.4	9.6	10.6	8.8	9.0	8.5	7.2	8.3	9.9	11.4	5.9	14.4
27	6.6	6.6	5.4	0.8	0.7	0.9	0.5	0.7	1.1	0.7	0.6	0.6	0.7	1.9	1.7	2.0	3.1	2.5	1.5	1.7	1.3	0.9	1.4	1.9	6.6	6.6
28	1.0	1.3	1.1	1.3	1.6	4.4	3.1	1.6	1.5	1.0	1.1	1.7	2.5	6.1	4.5	1.7	2.9	1.9	1.9	2.0	2.2	2.0	2.3	3.4	2.3	6.1
29	3.4	3.3	2.8	2.1	1.7	1.7	2.1	3.3	8.9	7.8	6.3	3.5	7.2	10.9	6.8	3.9	3.4	1.9	2.8	3.0	4.2	4.3	4.2	3.7	4.3	10.9
30	4.8	7.7	6.6	5.2	4.7	5.1	9.1	10.6	8.1	6.9	13.3	9.6	8.0	5.1	4.3	3.1	2.7	1.8	1.9	1.7	1.6	1.7	1.5	1.4	5.3	13.3
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	719	100%
MEAN	2.2	2.3	2.2	1.9	1.9	2.2	3.2	4.6	4.6	4.3	5.2	6.8	4.7	5.2	37.8	5.5	3.4	2.5	2.2	2.4	1.9	2.0	2.1	2.3		
MAX	7.6	8.5	8.4	8.2	7.6	8.6	10.6	13.6	12.3	11.2	33.0	96.6	34.1	43.1	1022.2	79.6	30.6	10.1	9.0	8.5	7.2	8.3	9.9	11.4		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	719	
Maximum 1-HR Average	1022.2 UG/M3	
Maximum 24-HR Average	54.5 UG/M3	
IZS Calibration Time		Operational Time
Down Time	0	Operational Uptime
Standard Deviation	38.44	Monthly Average
		719 HRS
		99.9 %
		4.7 UG/M3

Berm PM_{2.5} (µg/m³) – June 2020

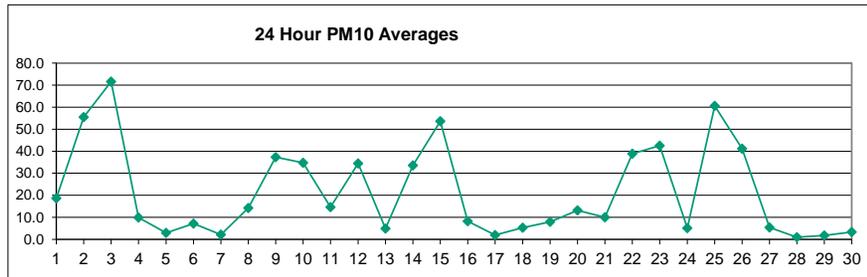
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	2.6	2.6	2.2	0.4	0.5	0.5	0.7	1.1	2.6	3.9	3.5	3.0	4.3	11.4	4.0	4.5	6.1	1.5	3.3	9.0	4.7	3.8	2.9	0.8	3.3	11.4
2	1.5	2.3	2.1	3.1	1.2	1.1	4.9	12.8	6.7	11.7	18.1	13.9	13.4	12.5	11.6	10.1	14.2	18.2	23.6	14.6	4.8	2.7	3.3	3.6	8.8	23.6
3	0.9	2.2	1.3	1.0	0.6	0.9	7.5	16.6	28.0	23.2	22.9	27.9	28.8	32.0	10.5	8.5	7.3	12.2	9.5	2.6	1.6	3.1	0.6	0.5	10.4	32.0
4	0.7	0.8	0.7	0.8	1.6	2.0	2.7	3.1	2.8	2.5	1.8	1.3	2.9	15.1	3.4	2.3	1.4	2.6	1.2	1.8	1.3	1.0	0.7	0.6	2.3	15.1
5	0.6	0.7	0.7	0.6	0.7	0.8	1.1	1.6	2.4	3.4	1.2	1.2	1.4	1.2	1.5	1.3	1.3	1.0	1.5	1.4	1.2	1.7	1.3	2.0	1.3	3.4
6	1.4	1.9	1.6	2.1	2.7	3.0	3.9	5.2	2.8	4.6	2.6	2.9	3.2	9.1	4.0	3.3	1.7	1.2	1.7	1.0	0.9	0.5	0.8	0.9	2.6	9.1
7	0.8	1.3	1.0	1.0	0.7	0.8	1.5	1.3	0.5	3.2	4.2	1.8	5.2	3.2	2.9	0.8	0.4	0.3	0.2	0.3	0.4	0.2	0.9	0.9	1.4	5.2
8	0.9	0.9	0.5	0.4	0.4	0.4	0.5	1.1	1.2	2.4	2.5	2.7	4.4	8.9	3.5	2.6	1.8	6.7	11.8	4.2	1.1	0.5	0.7	0.7	2.5	11.8
9	0.5	0.6	0.9	0.6	1.0	0.7	1.4	4.0	4.9	8.3	8.9	6.2	11.4	15.0	12.0	10.0	4.0	4.1	5.0	4.7	4.4	10.8	14.2	6.4	5.8	15.0
10	2.2	2.8	2.4	1.5	1.1	1.3	8.3	9.5	6.7	8.9	12.4	6.7	5.4	11.0	7.7	6.8	8.6	6.0	12.4	6.0	3.5	3.2	6.5	3.8	6.0	12.4
11	3.9	3.5	0.9	1.1	1.0	1.1	1.4	1.9	3.1	3.2	2.3	1.1	3.6	3.9	5.9	4.0	4.0	10.0	5.8	7.0	0.9	0.4	0.3	0.4	3.0	10.0
12	3.1	3.1	2.6	1.8	1.0	1.0	2.1	5.9	5.3	5.3	5.8	5.2	2.1	4.3	35.8	5.8	10.7	7.2	12.2	1.6	3.0	1.2	1.2	1.0	5.3	35.8
13	0.8	1.4	2.2	2.4	2.1	1.7	1.5	1.6	3.1	2.4	1.3	1.5	1.5	1.2	1.4	1.5	1.5	2.2	2.5	2.6	1.7	2.1	2.1	3.3	1.9	3.3
14	3.3	1.5	0.9	0.7	0.5	0.3	0.6	1.7	1.3	0.8	1.0	3.1	2.3	4.4	6.2	5.3	4.4	5.8	4.7	22.2	34.9	16.4	8.4	4.1	5.6	34.9
15	8.8	7.1	4.2	6.9	4.6	3.0	4.5	15.3	6.8	12.5	12.1	15.7	16.6	14.7	7.2	8.3	8.6	4.6	5.7	5.6	2.1	4.2	6.7	1.7	7.8	16.6
16	3.2	3.2	2.3	1.8	0.5	0.4	0.6	1.3	1.6	2.8	3.1	4.1	2.1	1.3	2.4	3.8	3.9	1.9	0.5	0.4	0.5	0.4	0.5	0.9	1.8	4.1
17	2.6	1.2	0.9	1.3	0.9	0.6	0.4	1.3	1.4	3.4	1.6	0.8	1.2	0.9	1.0	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	1.1	3.4
18	1.0	1.1	1.3	1.3	1.1	1.5	1.5	3.0	7.1	2.8	1.1	1.1	2.0	2.2	2.1	3.1	2.8	3.3	6.1	3.1	3.0	3.0	3.1	3.7	2.6	7.1
19	4.2	4.2	4.5	4.5	4.5	4.4	4.7	5.4	5.7	4.3	4.9	8.0	6.0	3.6	3.6	2.1	1.9	2.0	2.1	2.0	4.1	2.0	2.0	1.9	3.9	8.0
20	2.0	3.1	3.1	2.7	2.1	1.7	1.6	1.8	2.1	1.6	4.9	5.6	9.0	5.8	3.0	2.6	3.6	2.0	1.2	3.2	1.6	1.7	0.8	1.9	2.9	9.0
21	1.1	0.6	0.6	0.6	0.7	0.8	0.7	1.4	2.6	3.2	4.1	1.6	3.9	5.1	5.3	5.0	3.9	2.5	1.6	1.4	1.3	1.7	1.3	0.9	2.2	5.3
22	1.1	1.8	1.5	1.1	1.1	1.0	1.2	2.2	3.1	4.2	13.0	16.7	13.1	7.9	9.4	9.3	6.3	12.7	6.6	7.5	4.0	1.6	1.6	0.7	5.4	16.7
23	1.1	0.7	0.9	2.0	4.5	6.7	3.5	4.1	7.1	6.7	10.4	14.0	8.7	8.4	6.6	7.1	8.0	4.7	3.8	3.6	7.0	2.7	5.0	4.8	5.5	14.0
24	2.9	0.7	0.3	0.3	0.4	0.4	1.4	3.7	4.6	3.0	4.4	3.5	4.2	4.4	4.8	2.1	1.9	3.0	1.0	0.6	0.7	0.4	1.0	0.7	2.1	4.8
25	0.5	0.4	1.0	1.3	0.7	0.6	0.8	1.8	2.4	5.9	7.6	6.8	7.5	10.6	15.8	12.9	15.2	23.5	15.4	9.6	9.0	7.7	15.4	9.5	7.6	23.5
26	12.7	2.6	1.7	0.9	0.9	1.5	3.6	5.9	12.1	16.2	26.2	16.1	15.6	8.7	6.8	3.6	4.1	3.1	2.7	2.3	2.6	3.0	2.7	3.3	6.6	26.2
27	4.9	2.6	2.3	0.6	0.4	0.3	0.2	0.4	0.9	0.9	2.5	1.5	1.6	0.8	1.1	0.7	5.5	0.7	0.6	0.8	12.8	0.4	0.6	0.5	1.8	12.8
28	0.5	0.4	0.4	0.4	0.3	0.3	0.7	1.1	1.2	0.6	1.0	1.3	2.3	1.1	1.0	0.6	0.6	0.5	0.6	0.7	0.8	0.9	1.3	1.4	0.8	2.3
29	1.9	2.2	1.5	1.6	1.2	1.2	1.2	1.2	1.2	1.7	2.5	2.9	2.1	1.3	0.9	0.6	0.8	0.5	0.7	0.9	1.2	1.3	1.3	1.5	1.4	2.9
30	2.1	4.6	3.8	2.8	2.4	2.1	2.1	2.7	2.9	4.2	5.0	5.2	5.6	3.2	1.9	1.8	1.3	1.0	1.3	1.3	0.8	1.3	1.3	1.2	2.6	5.6
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	2.5	2.1	1.7	1.6	1.4	1.4	2.2	4.0	4.5	5.3	6.4	6.1	6.4	7.1	6.1	4.4	4.6	4.9	4.9	4.1	3.9	2.7	3.0	2.1		
MAX	12.7	7.1	4.5	6.9	4.6	6.7	8.3	16.6	28.0	23.2	26.2	27.9	28.8	32.0	35.8	12.9	15.2	23.5	23.6	22.2	34.9	16.4	15.4	9.5		



Number of 24HR Exceedences	0	Proposed Guideline
Number of Non-Zero Readings	720	
Maximum 1-HR Average	35.8 UG/M3	
Maximum 24-HR Average	10.4 UG/M3	
Monthly Calibration	0	Operational Time
Standard Deviation	4.7	Operational Uptime
		Monthly Average
		720 HRS
		100.0 %
		3.9 UG/M3

Berm PM₁₀ (µg/m³) – June 2020

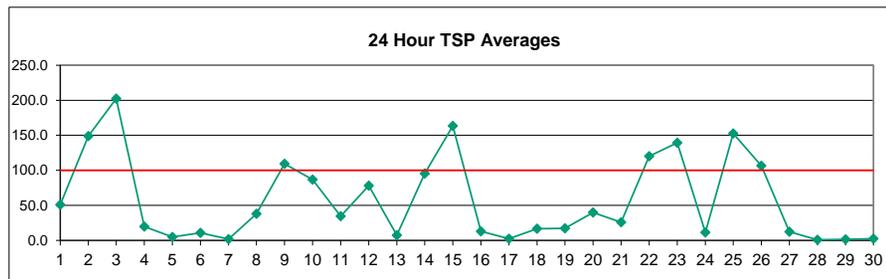
DAY	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	9.8	9.9	7.1	0.7	0.8	0.6	1.9	3.9	13.2	23.8	24.1	16.7	29.5	79.2	24.0	26.6	43.4	8.1	21.1	51.8	21.0	16.1	12.2	1.9	18.6	79.2
2	5.8	9.3	11.6	19.4	5.1	3.7	31.0	85.5	48.5	85.6	117.6	92.2	83.8	80.6	67.4	64.5	83.7	104.6	162.8	104.1	28.0	10.9	12.5	13.4	55.5	162.8
3	2.6	8.7	5.7	4.3	2.2	3.9	59.9	146.9	225.6	162.4	162.5	198.5	194.3	213.2	67.6	48.1	40.5	73.8	51.0	13.4	6.1	25.2	0.7	0.6	71.6	225.6
4	0.9	1.3	0.8	1.1	4.0	5.6	10.0	14.2	11.9	9.5	7.4	4.9	16.6	91.4	17.7	11.1	5.2	12.0	2.9	5.0	2.0	1.1	0.7	0.6	9.9	91.4
5	0.6	0.7	0.7	0.7	0.8	0.9	1.9	4.6	10.3	15.6	3.4	3.0	3.7	3.2	4.4	3.4	1.8	1.2	1.7	2.1	1.3	1.8	1.4	2.4	3.0	15.6
6	1.5	2.0	1.6	2.3	2.8	3.2	4.7	7.2	3.8	6.7	9.6	10.8	15.6	41.3	14.0	17.1	6.9	3.4	10.3	3.0	1.3	0.7	1.2	1.5	7.2	41.3
7	1.1	1.6	1.1	1.0	0.7	1.0	2.1	1.9	0.7	4.7	6.3	2.7	7.8	6.8	6.0	1.2	0.5	0.3	0.3	0.3	0.5	0.2	1.2	1.2	2.1	7.8
8	1.1	1.1	0.5	0.5	0.4	0.4	0.5	2.7	4.0	9.1	13.2	16.0	33.4	62.0	21.6	13.2	8.6	42.0	83.5	20.4	3.4	0.8	1.5	2.2	14.3	83.5
9	1.1	1.1	3.0	1.4	2.2	1.8	5.6	23.6	26.8	58.3	62.8	40.4	82.5	97.4	85.1	55.0	21.5	21.4	25.2	27.4	27.4	74.3	106.7	43.4	37.3	106.7
10	12.3	12.1	10.4	4.3	3.3	4.7	40.6	41.0	35.8	56.0	79.0	41.5	39.0	83.3	53.0	41.2	53.1	39.1	64.1	28.6	14.4	16.6	40.4	19.9	34.7	83.3
11	16.1	15.5	1.6	2.1	1.4	1.7	2.8	6.3	13.8	16.0	12.1	3.5	17.8	19.4	22.4	18.4	21.6	67.9	39.6	44.1	3.7	1.1	0.3	0.5	14.6	67.9
12	10.8	9.8	7.0	4.4	1.6	1.6	8.3	33.1	25.3	28.0	33.0	28.2	9.4	29.5	297.4	41.1	78.8	49.0	93.1	6.5	20.2	5.9	3.6	1.7	34.5	297.4
13	1.1	5.6	8.3	9.6	7.0	5.3	4.1	5.5	14.1	7.4	3.2	4.4	4.5	3.2	4.2	4.4	4.1	3.1	3.4	3.7	2.2	2.7	2.6	4.6	4.9	14.1
14	4.6	1.9	0.9	0.8	0.7	0.5	2.1	6.2	4.0	2.3	4.6	15.6	10.8	42.8	71.6	54.2	49.4	62.7	37.4	131.1	165.5	74.6	42.0	19.1	33.6	165.5
15	58.7	51.0	29.7	40.5	26.8	19.4	25.6	91.2	40.4	81.8	95.5	137.1	140.0	99.3	46.8	57.5	74.7	33.2	31.3	34.9	8.3	22.9	33.8	5.4	53.6	140.0
16	10.4	12.9	8.1	5.5	0.8	0.5	1.1	4.7	7.2	17.5	15.1	20.2	10.3	6.2	13.6	19.0	27.4	11.0	0.9	0.5	0.7	0.5	0.6	2.1	8.2	27.4
17	10.2	2.5	1.5	2.3	1.7	0.7	0.5	1.8	1.9	5.0	2.6	1.5	2.3	1.5	1.9	1.2	1.0	1.0	0.8	0.8	0.8	0.8	0.8	0.8	1.9	10.2
18	1.1	1.1	1.3	1.3	1.2	1.6	1.6	4.1	10.5	4.1	1.9	1.6	5.6	5.7	4.6	6.1	3.7	4.4	45.8	3.9	3.7	3.6	4.1	3.9	5.3	45.8
19	4.5	4.7	5.4	5.2	5.0	4.9	5.6	7.3	10.9	9.2	11.3	31.3	22.0	10.1	19.0	5.4	3.2	3.2	3.3	2.9	9.1	2.7	2.5	2.2	7.9	31.3
20	2.4	3.9	4.6	5.4	3.5	2.3	2.3	4.2	6.7	3.5	26.1	35.0	65.6	36.2	15.8	12.8	24.5	10.0	5.8	21.3	5.9	8.4	2.6	7.1	13.2	65.6
21	3.4	0.8	0.7	0.7	1.1	1.3	1.1	5.3	17.4	17.8	26.0	6.6	21.4	32.2	32.3	27.8	17.6	12.8	2.9	2.7	2.2	2.3	1.6	1.2	10.0	32.3
22	1.3	2.3	1.9	1.9	2.0	1.2	2.1	9.8	16.1	27.0	104.8	133.4	103.3	58.7	61.4	71.5	47.2	108.8	53.7	74.5	33.1	8.1	7.9	2.0	38.9	133.4
23	5.8	1.7	3.4	10.9	32.7	53.0	26.7	32.2	57.7	59.8	85.5	115.5	67.4	62.6	43.3	51.1	64.7	36.2	31.9	31.8	68.4	19.3	34.0	24.5	42.5	115.5
24	14.9	2.7	0.5	0.6	0.7	0.5	4.6	5.4	6.4	4.2	11.7	6.1	6.4	5.1	7.8	5.5	12.3	20.8	2.7	0.8	0.9	0.5	1.1	0.8	5.1	20.8
25	0.5	0.5	1.2	1.6	0.8	0.6	2.3	9.5	14.7	47.7	54.1	57.7	63.2	85.9	111.6	107.7	127.3	200.5	139.2	83.1	74.6	69.8	137.9	61.1	60.6	200.5
26	77.6	13.1	7.9	2.1	1.5	5.4	21.6	45.6	104.1	134.6	197.5	112.9	123.2	64.0	27.2	8.4	8.2	6.3	5.3	4.6	5.1	3.9	3.5	4.5	41.2	197.5
27	7.1	3.4	2.9	0.8	0.6	0.3	0.2	1.1	5.3	5.2	14.7	8.7	11.3	3.7	6.0	2.0	33.1	0.9	0.7	0.8	18.9	0.5	0.7	0.7	5.4	33.1
28	0.6	0.4	0.5	0.4	0.4	0.3	0.8	1.2	1.4	0.7	1.3	1.7	3.0	1.2	1.1	0.7	0.9	0.7	0.8	0.9	0.9	1.0	1.5	1.7	1.0	3.0
29	2.4	2.7	1.8	2.0	1.4	1.4	1.4	1.3	1.4	2.2	3.6	4.2	2.6	1.5	1.1	0.9	1.3	0.6	0.9	1.1	1.4	1.5	1.5	1.7	1.7	4.2
30	2.6	6.6	5.3	3.6	3.1	2.4	2.5	3.7	3.9	5.4	6.3	6.9	8.1	3.9	2.0	2.1	1.7	1.2	1.7	1.7	1.0	1.7	1.8	1.6	3.4	8.1
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	9.1	6.4	4.6	4.6	3.9	4.4	9.2	20.4	24.8	30.4	39.9	38.6	40.1	44.4	38.4	26.0	28.9	31.3	30.8	23.6	17.7	12.6	15.4	7.8		
MAX	77.6	51.0	29.7	40.5	32.7	53.0	59.9	146.9	225.6	162.4	197.5	198.5	194.3	213.2	297.4	107.7	127.3	200.5	162.8	131.1	165.5	74.6	137.9	61.1		



Number of Non-Zero Readings	720
Maximum 1-HR Average	297.4 UG/M3
Maximum 24-HR Average	71.6 UG/M3
Monthly Calibration	0
Standard Deviation	36.06
Operational Time	720 HRS
Operational Uptime	100.0 %
Monthly Average	21.4 UG/M3

Berm TSP ($\mu\text{g}/\text{m}^3$) – June 2020

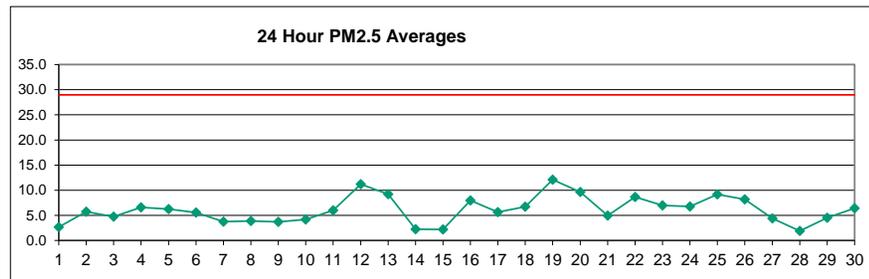
DAY	HOUR																								MEAN	MAX	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	9.6	8.9	8.7	0.6	2.3	0.5	3.1	6.1	39.0	64.6	88.4	54.9	81.5	257.0	78.0	69.6	168.0	22.4	56.2	116.7	28.8	27.3	24.4	5.6	50.9	257.0	
2	16.8	22.8	41.2	70.8	12.7	9.7	97.5	195.7	97.4	203.7	280.2	242.2	198.2	202.2	135.5	185.0	199.8	233.5	541.4	410.2	101.4	30.1	22.2	21.6	148.8	541.4	
3	7.1	18.7	24.2	13.1	9.3	15.5	197.9	455.6	686.1	409.2	440.4	584.2	535.0	607.8	195.6	114.9	114.1	194.9	124.5	32.1	11.8	64.1	0.4	0.4	202.4	686.1	
4	0.6	0.9	1.8	2.7	2.9	6.5	11.6	30.7	15.1	9.7	11.8	14.1	30.1	233.7	31.5	18.7	7.3	27.1	5.9	8.0	2.0	0.7	0.5	0.4	19.8	233.7	
5	0.4	0.5	0.5	0.4	0.5	0.6	3.3	6.8	29.4	28.2	9.1	4.0	6.6	3.4	6.3	4.9	2.2	0.7	1.6	2.9	0.8	1.2	1.0	1.6	4.9	29.4	
6	0.9	1.3	1.1	1.5	1.8	2.1	3.2	6.1	3.1	6.5	11.8	15.1	24.0	46.7	14.1	46.3	15.0	5.4	42.6	6.0	0.8	0.5	1.5	1.0	10.8	46.7	
7	0.9	1.9	0.7	0.7	0.5	0.8	1.9	1.8	0.5	4.7	6.2	2.5	7.6	6.1	4.9	0.9	0.4	0.2	0.2	0.2	0.3	0.2	0.9	0.9	1.9	7.6	
8	0.9	0.8	0.4	0.3	0.3	0.3	0.4	8.1	7.9	13.3	38.8	46.9	93.9	147.5	57.5	37.3	23.1	118.5	264.7	41.7	3.4	1.1	1.2	8.2	38.2	264.7	
9	3.2	1.0	6.7	3.3	2.6	3.7	11.3	68.1	69.1	162.0	196.3	94.3	222.3	223.2	232.8	127.3	56.6	66.6	57.9	88.0	87.9	276.7	394.3	171.8	109.5	394.3	
10	52.6	28.5	22.8	6.8	4.3	14.7	94.2	69.3	82.4	150.4	219.8	110.0	104.6	235.5	135.2	110.2	142.9	100.1	111.9	59.0	25.6	40.3	114.1	50.8	86.9	235.5	
11	30.3	32.5	3.2	5.7	2.6	4.7	6.2	14.0	35.2	34.3	24.5	7.1	32.0	33.1	24.3	28.3	55.4	195.9	129.5	119.9	9.3	1.0	0.2	0.4	34.6	195.9	
12	7.8	6.9	5.7	5.8	1.4	1.3	14.5	72.1	54.4	54.1	60.1	40.8	17.7	56.5	599.5	99.5	291.6	142.0	271.5	12.7	39.1	11.2	5.4	1.3	78.0	599.5	
13	0.8	9.8	12.7	14.5	6.9	6.5	5.1	8.0	18.1	11.2	7.1	9.7	7.9	8.4	12.5	11.4	10.7	4.1	2.8	3.0	1.6	2.1	2.1	3.8	7.5	18.1	
14	3.7	1.3	0.6	0.6	2.3	0.3	5.3	15.5	5.2	6.2	18.1	41.8	36.2	155.0	296.7	223.1	222.4	265.8	113.4	281.0	320.6	136.9	91.0	46.3	95.4	320.6	
15	180.7	169.6	87.1	120.9	93.5	78.9	82.8	274.7	108.3	264.0	330.1	490.4	467.7	272.3	120.9	154.5	233.5	85.0	92.4	97.7	13.3	41.6	57.8	5.4	163.5	490.4	
16	8.5	23.2	6.7	5.3	0.8	0.3	0.7	9.8	17.9	32.2	26.3	34.0	18.1	8.7	18.7	28.8	51.0	18.5	0.6	0.7	1.4	0.4	0.5	2.1	13.1	51.0	
17	18.5	3.0	1.8	4.6	3.5	0.5	0.4	1.7	1.6	4.9	2.2	1.5	5.0	1.7	2.4	2.7	0.6	1.0	1.0	0.5	0.5	0.5	0.5	0.5	2.6	18.5	
18	0.7	0.7	0.9	0.8	0.8	1.0	1.0	3.6	9.4	3.2	3.6	4.5	28.0	20.8	17.8	16.8	6.0	6.2	257.5	4.0	6.7	3.7	3.5	2.6	16.8	257.5	
19	3.0	3.1	3.8	3.5	3.3	3.3	4.2	6.2	15.8	16.2	15.6	46.6	34.7	22.1	132.1	15.8	11.2	15.7	13.4	12.0	15.8	4.9	2.9	9.1	17.3	132.1	
20	3.1	2.9	10.4	16.9	8.9	4.8	6.4	9.9	32.6	13.3	56.1	110.8	206.2	111.2	57.8	43.0	75.3	31.1	23.3	70.7	20.1	21.0	4.1	20.6	40.0	206.2	
21	12.5	3.4	2.4	1.6	1.9	4.2	0.9	16.6	46.2	42.3	74.7	19.3	60.5	85.5	71.2	48.3	34.7	67.5	8.4	8.8	5.8	2.0	1.0	1.6	25.9	85.5	
22	2.0	1.6	2.3	3.9	4.0	2.0	5.9	30.8	40.8	55.7	324.5	361.0	255.2	172.3	186.9	249.1	155.5	387.7	184.2	276.6	118.9	32.5	20.3	8.2	120.1	387.7	
23	41.2	4.4	17.6	52.0	117.7	177.2	88.2	91.5	143.8	223.8	273.4	381.6	189.6	175.4	129.8	163.9	254.5	139.2	104.8	91.3	259.5	84.2	90.9	45.5	139.2	381.6	
24	33.0	8.3	4.2	1.6	3.1	0.6	16.7	7.0	5.3	3.8	24.8	10.0	7.6	3.5	11.9	8.8	44.6	62.0	14.9	0.5	0.6	0.3	0.7	0.5	11.4	62.0	
25	0.4	0.3	0.8	1.4	0.5	0.4	7.2	33.9	42.4	109.6	118.4	156.5	164.0	197.8	235.5	313.6	375.8	552.5	395.4	193.0	180.5	146.0	312.3	126.2	152.7	552.5	
26	160.4	32.5	18.9	9.0	5.1	8.4	63.6	100.6	281.2	355.8	487.7	282.9	274.9	140.8	172.3	57.8	40.6	18.3	23.3	9.9	7.2	2.9	2.6	3.6	106.7	487.7	
27	6.2	2.5	2.1	0.6	0.4	0.2	0.1	2.6	8.8	17.0	31.9	21.8	29.2	10.5	18.8	4.7	118.0	1.1	2.3	0.5	19.6	0.3	0.5	0.5	12.5	118.0	
28	0.4	0.3	0.3	0.3	0.3	0.2	0.5	0.8	1.0	0.5	1.0	1.3	2.2	0.8	0.7	0.5	1.1	2.9	0.6	0.7	1.2	0.6	1.1	1.2	0.8	2.9	
29	1.7	1.9	1.2	1.4	0.9	0.9	0.9	0.9	1.0	1.9	3.4	4.1	1.9	3.0	0.9	0.6	2.7	0.4	0.8	1.0	1.0	1.0	1.0	1.1	1.5	4.1	
30	1.8	6.2	4.6	2.7	2.3	1.7	1.7	2.9	3.1	3.6	4.3	5.4	6.8	2.6	1.3	1.5	1.3	0.9	1.3	1.2	0.7	1.3	1.4	1.3	2.6	6.8	
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	720	100%
MEAN	20.3	13.3	9.8	11.8	9.9	11.7	24.6	51.7	63.4	76.9	106.4	106.6	105.0	114.8	100.1	72.9	90.5	92.2	94.9	65.0	42.9	31.2	38.7	18.1			
MAX	180.7	169.6	87.1	120.9	117.7	177.2	197.9	455.6	686.1	409.2	487.7	584.2	535.0	607.8	599.5	313.6	375.8	552.5	541.4	410.2	320.6	276.7	394.3	171.8			



Number of 24HR Exceedences	8	Proposed Guideline
Number of Non-Zero Readings	720	
Maximum 1-HR Average	686.1 UG/M3	
Maximum 24-HR Average	202.4 UG/M3	
IZS Calibration Time		Operational Time
Monthly Calibration	0	Operational Uptime
Standard Deviation	102.5	Monthly Average
		720 HRS
		100.0 %
		57.2 UG/M3

Entrance PM_{2.5} (µg/m³) – June 2020

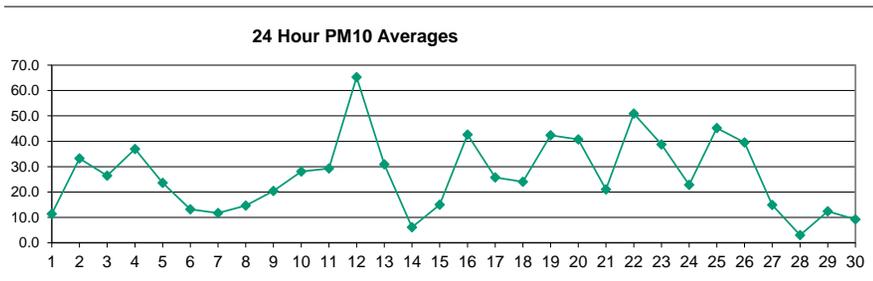
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.4	2.8	2.1	1.3	0.9	1.9	2.0	2.9	2.7	6.7	2.8	2.7	4.1	6.3	2.0	2.2	3.6	1.8	1.0	2.0	1.9	1.4	3.8	4.4	2.7	6.7
2	3.8	4.3	4.1	4.6	3.3	2.4	3.5	5.5	9.2	12.2	8.1	5.4	4.7	4.3	5.5	6.1	4.9	6.8	14.5	7.1	5.2	5.4	2.9	3.3	5.7	14.5
3	1.4	0.9	0.7	0.3	0.3	0.7	3.3	10.0	9.0	5.4	7.6	10.2	7.6	6.7	9.3	5.8	4.0	2.9	4.2	9.3	6.6	2.4	2.5	2.2	4.7	10.2
4	7.8	27.5	9.5	17.3	15.5	6.6	7.6	3.6	5.2	2.7	3.9	2.7	3.7	8.6	3.0	3.4	3.3	5.6	3.9	4.2	2.2	2.0	5.6	2.1	6.6	27.5
5	3.4	3.3	5.7	12.6	6.3	12.9	14.3	10.0	10.5	8.7	10.4	7.6	6.2	4.5	6.2	4.4	3.0	2.0	2.6	3.1	2.2	2.3	3.3	3.7	6.2	14.3
6	3.2	3.3	3.6	4.4	6.1	6.0	10.1	15.7	14.1	11.8	6.5	5.5	2.2	1.8	2.0	1.0	0.7	1.0	0.9	1.3	4.7	3.7	7.4	15.8	5.5	15.8
7	2.5	2.4	2.6	6.6	3.9	1.1	0.9	1.2	0.6	1.1	0.6	0.4	0.4	0.3	0.3	5.3	4.2	44.8	1.0	1.2	1.1	1.0	1.8	4.1	3.7	44.8
8	4.9	5.1	4.0	7.3	7.4	5.3	5.9	4.3	3.0	3.0	6.5	4.0	4.0	8.3	3.9	2.3	1.8	2.3	3.7	0.7	0.8	1.4	2.0	0.5	3.8	8.3
9	0.6	0.7	1.1	2.0	5.7	13.0	7.9	5.3	4.1	4.6	5.0	4.0	5.7	4.0	4.8	2.6	1.7	1.6	2.2	2.0	1.1	3.2	3.9	2.3	3.7	13.0
10	0.7	0.3	0.6	0.5	0.5	0.9	3.6	8.5	10.4	9.3	12.2	9.4	5.7	6.1	5.4	3.6	3.4	3.1	2.2	2.7	2.5	3.2	3.3	1.9	4.2	12.2
11	1.8	2.2	2.4	4.6	9.9	15.4	12.5	12.3	10.1	5.8	5.3	8.1	5.3	3.5	3.4	5.3	3.9	5.6	6.1	5.1	3.3	6.7	2.3	2.6	6.0	15.4
12	3.9	6.9	9.7	13.0	10.8	7.1	14.3	12.3	14.7	13.8	16.7	13.3	6.5	6.0	38.3	4.5	7.5	5.5	5.0	1.3	1.9	10.2	30.9	14.5	11.2	38.3
13	10.7	4.8	13.3	20.1	17.6	13.1	19.4	12.2	6.1	4.5	4.3	3.2	3.7	2.5	2.4	2.5	3.0	5.2	8.3	9.3	13.7	10.4	15.5	15.3	9.2	20.1
14	3.9	9.6	3.6	10.3	5.6	3.0	1.1	0.8	1.8	1.3	1.0	0.6	0.7	1.5	1.5	1.5	0.9	1.5	0.7	0.6	0.9	0.5	0.3	0.3	2.2	10.3
15	0.4	1.2	0.5	0.9	0.6	0.5	2.3	7.1	6.7	4.9	3.1	3.1	4.2	4.9	1.8	1.5	1.9	1.0	0.7	0.6	0.5	0.5	0.5	2.9	2.2	7.1
16	16.0	11.4	11.1	15.7	14.3	9.1	12.1	18.8	21.2	14.9	3.9	5.1	6.4	2.6	2.0	2.5	2.6	2.7	4.9	2.0	1.0	1.0	5.5	4.4	8.0	21.2
17	12.5	8.5	2.7	3.4	2.7	1.4	1.0	1.9	1.9	14.9	13.9	11.6	6.0	17.5	14.0	7.9	1.6	1.3	1.6	1.8	1.8	1.6	2.1	1.8	5.6	17.5
18	2.1	1.5	2.2	2.4	2.5	3.2	2.9	4.2	15.1	15.1	9.0	11.2	8.7	6.9	8.1	8.0	7.6	9.0	7.2	6.2	6.0	6.1	6.8	8.4	6.7	15.1
19	9.3	13.0	11.2	13.5	10.3	12.8	17.4	17.9	14.3	17.3	30.4	32.2	20.8	10.0	10.8	4.9	4.5	4.1	4.3	7.0	9.0	4.5	3.6	6.7	12.1	32.2
20	7.0	15.9	15.0	19.2	15.4	11.6	13.5	20.6	27.0	37.1	4.0	4.2	7.1	6.0	5.1	4.0	4.9	5.7	1.5	1.5	1.2	1.1	1.1	1.4	9.6	37.1
21	1.9	2.9	15.7	18.8	15.4	13.1	10.3	1.5	1.6	3.0	1.6	2.1	3.7	1.8	2.1	1.3	1.2	4.4	2.5	2.2	2.6	2.9	3.7	2.6	5.0	18.8
22	7.2	9.8	6.2	13.3	11.9	5.2	9.6	24.6	26.2	6.8	9.8	14.8	10.9	5.7	7.8	6.4	7.2	6.3	6.3	4.5	1.3	1.4	2.0	2.7	8.7	26.2
23	1.8	1.6	1.5	1.8	3.2	2.6	13.2	10.2	11.1	7.4	10.1	12.6	14.6	13.5	9.4	10.7	9.6	8.0	3.5	3.2	7.3	3.7	1.5	4.9	7.0	14.6
24	2.0	3.1	5.1	5.9	4.0	8.4	8.6	10.4	11.6	12.2	10.7	10.2	11.4	9.9	20.2	12.3	2.3	1.8	2.3	1.1	1.2	1.9	3.0	2.5	6.8	20.2
25	1.3	5.6	14.1	23.9	18.8	7.3	14.0	28.4	23.1	10.3	4.0	4.2	6.1	7.2	2.8	5.0	7.2	9.9	P	8.4	3.3	2.5	1.5	1.4	9.1	28.4
26	1.5	1.2	2.0	6.3	9.3	10.0	10.8	15.9	16.6	14.3	13.1	7.4	10.3	11.4	10.8	9.3	8.0	7.4	5.3	5.0	5.0	5.9	4.4	4.5	8.1	16.6
27	4.7	5.1	4.1	5.3	9.6	9.4	2.7	13.8	11.1	3.1	6.8	6.6	3.0	1.2	2.9	1.8	3.8	1.5	2.0	1.9	1.3	0.8	1.2	1.7	4.4	13.8
28	1.8	0.6	1.0	1.0	0.6	0.7	2.7	4.2	1.5	2.0	1.5	2.0	3.3	2.3	1.5	0.9	1.4	1.3	1.2	1.8	1.6	2.2	4.6	3.6	1.9	4.6
29	3.9	6.1	5.8	4.9	3.1	2.9	3.6	2.6	4.6	6.7	5.3	6.6	3.2	3.3	2.7	4.3	8.1	2.7	3.4	7.1	5.6	5.9	2.6	3.4	4.5	8.1
30	6.9	8.1	14.8	8.1	8.9	8.4	11.0	10.1	5.9	7.0	8.7	7.2	5.9	7.3	6.6	7.1	2.2	9.4	2.1	2.2	2.3	1.0	1.4	1.2	6.4	14.8
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	719	100%
MEAN	4.3	5.7	5.9	8.3	7.5	6.5	8.1	9.9	10.0	8.9	7.6	7.3	6.2	5.9	6.6	4.6	4.0	5.5	3.6	3.5	3.3	3.2	4.4	4.2		
MAX	16.0	27.5	15.7	23.9	18.8	15.4	19.4	28.4	27.0	37.1	30.4	32.2	20.8	17.5	38.3	12.3	9.6	44.8	14.5	9.3	13.7	10.4	30.9	15.8		



Number of 24HR Exceedences	0	Proposed Guideline	
Number of Non-Zero Readings	719		
Maximum 1-HR Average	44.8 UG/M3		
Maximum 24-HR Average	12.1 UG/M3		
Monthly Calibration	0	Operational Time	719 HRS
Standard Deviation	5.6	Operational Uptime	99.9 %
		Monthly Average	6.0 UG/M3

Entrance PM₁₀ (µg/m³) – June 2020

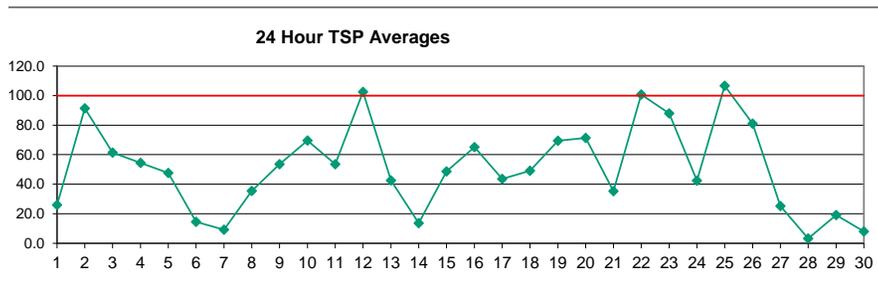
Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.8	12.0	8.5	4.1	1.6	6.1	6.6	12.0	8.9	30.4	11.6	14.7	19.6	49.8	9.7	11.0	17.2	6.4	2.2	6.9	3.0	3.3	8.7	16.3	11.3	49.8
2	12.3	23.6	18.9	15.4	16.0	9.1	16.1	34.6	63.3	71.3	59.5	32.2	27.4	27.6	26.1	28.0	24.8	46.8	122.0	50.9	28.0	19.5	12.8	10.6	33.2	122.0
3	3.6	2.6	2.1	0.5	0.7	2.2	17.8	58.3	58.6	35.9	47.8	64.3	48.7	42.3	52.1	27.6	19.5	13.4	18.8	49.7	30.6	11.2	14.5	12.0	26.5	64.3
4	59.2	215.0	58.8	108.2	89.0	28.5	39.2	9.7	18.6	11.3	22.8	12.8	16.7	61.7	12.3	13.1	17.6	37.9	21.6	17.8	2.7	2.3	6.8	2.7	36.9	215.0
5	4.6	4.5	8.5	18.8	9.4	19.3	63.5	56.8	53.7	53.1	68.2	46.9	38.2	25.0	39.7	20.4	8.4	2.9	4.6	6.7	2.5	2.6	3.8	4.4	23.6	68.2
6	3.6	3.5	4.0	4.8	7.0	7.1	13.9	23.5	21.1	23.5	20.2	16.5	6.3	6.5	4.0	5.0	2.1	2.9	2.2	4.2	18.1	12.8	36.6	66.0	13.1	66.0
7	6.3	3.2	2.9	9.4	5.6	1.3	1.0	1.6	0.8	1.4	0.7	0.5	0.5	0.4	0.4	8.0	14.5	209.1	1.2	1.4	1.3	1.2	2.0	5.8	11.7	209.1
8	7.4	7.7	5.9	10.9	11.1	7.8	12.4	21.6	16.4	19.5	27.3	28.2	29.6	50.7	10.6	5.3	14.4	26.9	1.5	2.0	4.7	6.6	0.9	14.6	50.7	
9	1.0	1.2	3.3	6.1	23.3	65.1	38.3	32.0	24.5	34.2	30.9	25.0	31.3	25.2	36.3	13.7	8.0	7.0	10.0	9.0	3.7	22.1	25.2	12.2	20.4	65.1
10	2.3	0.5	2.5	1.3	1.6	4.2	28.3	67.2	84.2	74.5	87.2	66.9	40.8	39.4	39.5	22.0	21.0	16.1	9.5	10.6	11.0	17.3	18.4	6.5	28.0	87.2
11	3.8	8.0	7.2	15.4	39.6	69.6	72.4	57.5	49.5	27.1	27.3	42.0	29.0	15.4	18.8	28.2	20.5	33.9	36.1	36.8	11.9	30.9	10.1	10.4	29.2	72.4
12	12.9	25.5	37.7	57.6	48.2	30.5	79.7	56.1	77.9	77.9	107.0	80.5	39.8	41.4	331.7	29.4	50.2	38.3	47.0	5.3	9.0	48.3	165.0	69.7	65.3	331.7
13	58.5	19.7	50.1	86.7	75.6	52.3	80.9	52.2	28.9	19.1	20.7	14.9	18.2	13.4	12.6	10.2	11.1	8.9	12.2	13.9	20.3	15.4	23.3	22.8	30.9	86.7
14	5.2	14.2	5.4	26.5	16.9	10.6	3.0	2.4	6.3	3.5	3.3	3.0	2.7	5.2	6.8	5.5	3.4	8.0	2.9	1.7	4.8	2.5	1.1	0.5	6.1	26.5
15	0.9	5.6	1.3	3.3	2.3	1.8	16.4	63.4	59.6	31.8	24.8	22.3	32.8	42.0	13.1	7.3	7.9	3.7	1.7	1.3	0.9	1.0	0.9	12.2	14.9	63.4
16	75.2	50.2	48.1	76.8	64.7	50.3	69.2	105.8	153.9	72.1	19.6	33.4	42.7	16.7	10.9	13.2	9.2	16.5	32.3	10.0	1.9	3.0	28.9	18.6	42.6	153.9
17	58.4	37.6	8.6	13.1	9.9	1.7	1.2	2.6	2.6	64.0	88.0	73.8	35.3	94.8	68.2	39.4	2.7	1.7	1.9	2.2	2.1	1.9	2.6	2.2	25.7	94.8
18	2.5	1.7	2.3	2.5	2.7	3.7	3.4	5.5	62.4	77.5	50.6	76.4	59.1	30.7	39.8	33.5	27.0	30.4	16.2	10.2	9.3	9.8	9.3	10.3	24.0	77.5
19	11.5	17.9	15.7	19.5	14.1	18.5	32.9	53.6	30.2	61.2	183.4	182.6	108.5	57.8	74.5	20.5	20.0	11.3	10.9	16.3	29.7	9.8	4.9	11.6	42.4	183.4
20	10.6	23.7	37.5	107.2	78.3	57.2	84.5	105.1	119.9	166.6	21.2	20.3	33.6	18.7	19.8	20.8	18.2	16.0	4.7	4.3	2.8	1.8	2.1	2.6	40.7	166.6
21	4.5	8.1	69.6	101.5	74.4	59.7	51.7	3.5	5.5	7.2	7.3	11.5	13.9	7.4	8.4	5.7	4.0	29.7	6.2	4.3	4.5	4.1	7.6	4.4	21.0	101.5
22	12.1	17.2	19.6	75.0	66.2	22.6	53.9	155.8	173.0	34.5	76.1	121.9	73.9	37.6	51.8	44.5	56.8	38.4	35.8	24.5	4.1	4.0	7.4	14.6	50.9	173.0
23	9.5	4.8	6.7	6.0	17.6	15.5	64.0	51.4	56.0	50.8	76.4	91.4	95.2	79.7	50.1	55.9	47.2	30.2	14.3	10.3	47.5	17.5	10.1	21.7	38.7	95.2
24	5.5	11.2	19.3	25.6	16.5	47.8	46.0	21.0	17.2	29.1	39.5	33.3	25.4	13.1	81.7	69.2	13.0	9.2	10.9	1.4	1.5	2.5	3.9	3.5	22.8	81.7
25	1.7	8.2	21.0	35.9	28.2	11.0	73.3	255.0	154.8	54.0	26.7	27.4	34.7	51.2	24.2	40.2	53.1	55.9	P	50.8	17.5	8.2	4.3	3.0	45.2	255.0
26	3.2	2.6	5.0	28.6	49.2	49.6	54.9	85.7	102.8	84.9	94.8	42.9	64.6	78.8	59.8	35.0	25.5	21.7	15.4	14.6	7.5	8.3	6.2	6.5	39.5	102.8
27	6.8	7.1	5.6	7.9	14.4	14.1	9.6	62.3	54.7	12.0	37.3	35.4	15.1	5.4	17.7	7.1	23.6	2.0	5.6	6.2	1.6	1.0	1.7	2.4	14.9	62.3
28	2.5	0.7	1.3	1.2	0.8	0.9	3.5	6.0	1.6	2.6	1.9	2.8	4.7	2.8	1.8	1.2	3.9	4.0	2.9	5.1	3.1	5.6	6.6	4.9	3.0	6.6
29	5.2	8.6	8.3	6.7	4.2	3.8	4.9	3.4	6.7	10.0	8.0	29.7	7.3	10.9	6.5	20.1	54.2	15.6	15.3	43.8	8.3	8.3	3.3	4.4	12.4	54.2
30	10.1	11.9	20.8	11.9	13.3	12.5	16.5	15.0	8.5	10.0	12.1	9.8	8.0	10.4	9.3	10.4	2.9	14.0	2.8	3.0	3.1	1.2	1.7	1.6	9.2	20.8
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	719	100%
MEAN	13.4	18.6	16.9	29.6	26.7	22.8	35.3	49.4	50.7	41.7	43.4	42.1	33.4	32.1	38.3	21.9	19.8	24.9	17.0	14.2	9.8	9.4	14.5	12.2		
MAX	75.2	215.0	69.6	108.2	89.0	69.6	84.5	255.0	173.0	166.6	183.4	182.6	108.5	94.8	331.7	69.2	56.8	209.1	122.0	50.9	47.5	48.3	165.0	69.7		



Number of Non-Zero Readings	719
Maximum 1-HR Average	331.7 UG/M3
Maximum 24-HR Average	65.3 UG/M3
Monthly Calibration	0
Standard Deviation	33.7
Operational Time	719 HRS
Operational Uptime	99.9 %
Monthly Average	26.6 UG/M3

Entrance TSP ($\mu\text{g}/\text{m}^3$) – June 2020

Day	HOUR																								MEAN	MAX
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0.5	12.6	7.2	8.9	2.5	6.7	10.6	35.9	15.5	54.1	26.6	37.4	40.0	174.0	34.6	30.8	58.1	12.0	3.4	12.5	4.9	4.7	10.5	19.5	26.0	174.0
2	16.7	39.7	37.6	26.5	30.4	15.4	35.4	67.5	111.8	139.6	176.2	103.6	88.1	93.0	60.7	55.1	82.6	139.0	482.5	208.5	98.1	27.9	17.8	39.7	91.4	482.5
3	4.8	5.4	10.5	0.5	1.9	2.5	46.1	145.0	150.8	94.0	95.1	169.7	131.1	114.8	122.9	68.1	48.1	29.0	48.1	84.9	38.0	12.6	28.0	20.6	61.4	169.7
4	65.7	231.6	65.1	143.6	103.4	47.3	53.3	14.1	24.2	19.6	46.0	31.1	31.4	160.4	19.1	22.8	32.2	99.4	49.5	34.8	1.8	1.6	4.9	2.0	54.4	231.6
5	3.8	3.5	8.7	21.4	9.9	21.6	108.6	101.3	89.4	109.8	167.6	121.3	102.5	78.4	104.0	49.4	12.2	3.9	4.0	11.1	1.6	1.7	2.6	2.9	47.6	167.6
6	2.4	2.3	2.6	3.1	4.5	4.6	10.2	20.9	21.9	23.9	25.8	28.2	8.8	10.2	6.8	16.1	5.6	6.6	4.3	6.9	15.2	16.0	37.5	64.3	14.5	64.3
7	6.6	2.3	1.9	9.3	5.5	0.9	0.7	1.3	0.5	1.2	0.5	0.3	0.4	0.3	0.3	8.8	11.8	159.5	0.9	0.9	0.9	0.8	1.3	5.3	9.2	159.5
8	6.9	7.8	5.9	11.9	12.3	8.4	16.7	42.4	48.8	57.0	70.4	86.9	85.3	125.9	54.7	14.9	14.4	50.8	106.0	5.2	3.4	5.1	8.3	2.4	35.5	125.9
9	1.2	2.3	11.6	9.5	31.8	101.5	63.6	68.6	70.2	108.3	94.1	70.9	72.9	78.6	120.5	37.8	24.2	25.4	29.5	23.6	5.3	83.0	112.8	38.3	53.6	120.5
10	9.9	0.5	7.7	2.1	3.6	15.5	91.5	166.2	187.8	167.5	189.1	157.4	91.2	95.1	95.3	73.9	60.1	45.4	19.6	23.9	28.8	66.4	55.1	16.7	69.6	189.1
11	8.7	29.7	17.2	31.5	55.8	93.9	142.9	88.1	78.1	58.8	40.0	62.6	52.4	26.7	34.9	46.7	40.4	85.7	100.2	132.4	11.5	25.4	11.5	10.5	53.6	142.9
12	11.4	21.9	31.1	48.4	59.3	40.2	99.1	64.2	98.9	101.2	138.4	101.2	69.4	94.3	561.0	63.2	127.1	162.7	184.2	22.0	32.2	52.5	191.5	83.7	102.5	561.0
13	91.9	19.8	59.9	113.0	98.2	72.7	98.6	53.0	31.2	27.5	34.6	25.8	31.8	33.8	43.7	31.2	30.0	10.1	12.9	15.1	22.6	16.5	25.4	23.6	42.6	113.0
14	4.2	14.8	5.1	25.2	15.9	15.4	5.9	12.5	18.3	5.9	11.0	15.2	10.8	15.6	24.6	11.6	14.0	41.1	12.6	4.6	26.1	11.4	1.9	4.6	13.7	41.1
15	2.3	24.0	3.9	12.7	9.3	4.6	61.0	250.1	180.7	86.4	92.5	71.2	121.2	130.7	46.4	21.7	17.6	7.5	3.5	1.7	0.8	1.7	3.7	10.7	48.6	250.1
16	88.7	57.9	57.4	89.6	96.2	59.9	93.3	143.9	363.2	67.4	41.7	45.9	77.0	29.2	16.5	25.3	12.0	59.2	63.3	12.6	1.8	3.7	33.0	22.5	65.0	363.2
17	82.7	32.1	11.2	16.7	22.8	1.2	0.9	2.2	2.2	107.4	166.2	157.1	67.2	175.0	116.9	68.4	7.2	1.9	1.4	1.5	1.4	1.2	1.8	1.7	43.7	175.0
18	1.7	1.1	1.5	1.6	1.8	2.5	2.3	4.5	99.7	140.7	102.7	174.5	179.9	77.0	103.6	81.0	67.7	55.8	29.0	14.0	11.3	10.4	7.4	7.6	49.1	179.9
19	8.1	15.9	12.2	17.7	11.3	16.6	40.1	86.3	40.3	80.5	276.7	255.1	138.7	117.8	284.2	57.8	53.0	25.0	19.0	24.2	44.7	17.1	8.9	14.6	69.4	284.2
20	10.0	25.7	56.3	210.2	111.7	108.9	168.2	164.7	153.5	175.0	66.2	83.6	112.0	58.4	47.6	48.0	41.4	26.9	11.6	14.3	5.7	4.5	4.3	4.2	71.4	210.2
21	10.0	10.9	77.7	123.5	101.5	88.2	78.3	12.7	12.2	16.3	23.8	31.0	33.7	16.8	19.9	11.8	12.4	112.6	18.3	6.3	7.4	9.5	7.6	5.6	35.3	123.5
22	12.2	21.5	38.0	117.4	120.4	49.9	90.2	224.0	261.2	62.1	184.7	302.4	150.0	73.9	117.9	113.5	119.8	122.0	90.4	76.1	7.7	9.5	16.5	35.5	100.7	302.4
23	41.7	11.4	24.0	21.9	51.7	60.3	94.7	103.3	94.0	122.2	208.3	201.5	179.8	157.0	102.1	112.4	126.2	66.4	30.2	21.6	136.7	67.9	46.2	29.0	87.9	208.3
24	14.0	19.8	31.3	29.8	21.4	66.7	124.4	37.8	16.8	45.1	78.3	84.6	35.5	9.8	141.9	125.1	46.2	33.7	44.0	1.0	1.2	2.1	3.2	3.3	42.4	141.9
25	1.4	7.9	21.2	41.4	32.4	12.2	163.1	701.1	333.2	123.7	71.6	73.4	75.5	116.6	89.4	113.2	159.1	130.3	P	105.7	36.6	16.8	12.7	12.6	106.6	701.1
26	12.4	12.4	13.1	51.9	76.1	77.4	77.5	120.7	200.0	163.4	182.9	96.7	153.1	153.0	234.8	105.3	65.3	49.2	43.6	30.3	7.7	6.7	4.9	5.4	81.0	234.8
27	5.6	5.2	4.0	7.9	14.1	14.5	12.0	73.9	70.2	18.7	63.3	55.2	33.4	13.1	55.9	16.6	113.4	1.6	10.9	11.4	1.1	0.7	1.4	2.4	25.3	113.4
28	2.3	0.5	0.9	0.9	0.5	0.7	2.5	4.2	1.1	1.8	1.4	2.4	3.8	1.9	1.2	0.8	13.5	7.5	5.0	6.8	3.7	5.9	5.4	3.8	3.3	13.5
29	3.8	6.9	7.8	6.0	3.1	2.9	3.7	2.6	6.3	10.4	8.4	47.1	9.3	25.3	13.6	57.5	116.7	24.0	26.6	57.0	8.3	7.6	2.3	3.1	19.2	116.7
30	8.2	10.4	19.0	11.3	13.3	11.9	16.2	15.9	6.9	7.2	8.7	6.7	5.6	8.0	7.1	9.3	2.2	14.8	2.2	2.1	2.4	0.9	1.3	1.2	8.0	19.0
NO.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	719	100%
MEAN	18.0	21.9	21.7	40.5	37.4	34.2	60.4	94.3	93.0	73.2	89.8	90.0	73.1	75.5	89.4	49.9	51.2	53.6	50.2	32.4	19.0	16.4	22.3	16.6		
MAX	91.9	231.6	77.7	210.2	120.4	108.9	168.2	701.1	363.2	175.0	276.7	302.4	179.9	175.0	561.0	125.1	159.1	162.7	482.5	208.5	136.7	83.0	191.5	83.7		



Number of 24HR Exceedences	3	Proposed Guideline	
Number of Non-Zero Readings	719		
Maximum 1-HR Average	701.1 UG/M3		
Maximum 24-HR Average	106.6 UG/M3		
Monthly Calibration	0	Operational Time	719 HRS
Standard Deviation	66.2	Operational Uptime	99.9 %
		Monthly Average	51.0 UG/M3