



Peace River Area Monitoring Program

JUNE 2022

Monthly Ambient Air Quality Monitoring Report

PRAMP-202206

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

July 25, 2022

Pages may be left blank for double-sided printing

Table of Contents

LIST OF ACRONYMS	4
COVER LETTER	5
NETWORK STATION SUMMARY	6
Listing of Continuous Monitoring Stations	6
Listing of Intermittent Monitoring Stations.....	6
Listing of PRAMP member with EPEA Facility Operating Approval	6
Monitoring Notes during the Month of June 2022.....	6
986c Station	6
842b Station	7
Reno Station	7
PRC Station	7
AQHI – Grimshaw Station	7
VOCs Canister Sampling program	7
Revisions to Alberta’s Ambient Air Quality Data Warehouse.....	8
Deviations from Authorized Monitoring Methods	8
Disclaimer.....	8
Certification.....	9
Map of PRAMP Continuous Monitoring Network	10
CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY	11
986c Station	12
842b Station.....	15
Reno Station.....	18
PRC Station.....	21
AQHI – Grimshaw Station	25
TABLES, CHARTS, WIND ROSES AND EQUIPMENT CALIBRATION RECORDS	28
986c STATION.....	29
842b STATION	73
RENO STATION	117
PRC STATION	161
AQHI GRIMSHAW STATION.....	208
END OF REPORT	276

LIST OF ACRONYMS

AAAQOs	Alberta Ambient Air Quality Objectives
AEP	Alberta Environment and Parks
AMD	Air Monitoring Directive
AT	Ambient Temperature
BP	Barometric Pressure
CH ₄	Methane
EPEA	Environmental Protection and Enhancement Act
H ₂ S	Hydrogen Sulphide
kph	kilometers per hour
mb	millibar
mm	millimeter
NMHC	Non-Methane Hydrocarbons
ppb	parts per billion
ppm	parts per million
PRAMP	Peace River Area Monitoring Program
RH	Relative Humidity
SO ₂	Sulphur Dioxide
ST	Station Temperature
THC	Total Hydrocarbons
TRS	Total Reduced Sulphur
VWD	Vector Wind Direction
VWS	Vector Wind Speed
WD	Wind Direction
WS	Wind Speed
°C	Degrees Celsius



Peace River Area Monitoring Program
Suite 91, 305 – 4625 Varsity Drive NW
Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: pramptech@prampairshed.ca
www.prampairshed.ca

Alberta Environment and Parks (AEP)
11th Floor, Oxbridge Place
9820 106 Street
Edmonton, AB, T5K 2J6

July 25, 2022

RE: PRAMP – June 2022 Monthly Ambient Air Quality Monitoring Report

Enclosed is the June 2022 Monthly Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Peace River Area Monitoring Program (PRAMP) regional air quality monitoring network.

The representative of the Person Responsible for this monitoring program is

PRAMP Airshed
Michael Bisaga / Lily Lin, Technical Program Managers
Suite 91, 305 – 4625 Varsity Drive NW
Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: pramptech@prampairshed.ca

This report has been prepared, reviewed and submitted by Michael Bisaga & Lily Lin of the PRAMP Airshed. This report is also submitted on behalf of the industrial member companies to satisfy the requirements of the facility operating approvals.

NETWORK STATION SUMMARY

Listing of Continuous Monitoring Stations

The PRAMP continuous ambient air quality monitoring network stations are:

- 986c Station
- 842b Station
- Reno Station
- AQHI Grimshaw
- Peace River Complex (PRC) Station

Station ID	Station Name	Latitude	Longitude
1562	986c	56.36980	-116.92500
1561	842b	56.27406	-116.98129
1563	Reno	55.86936	-117.05739
1689	AQHI-Grimshaw	56.18657	-117.604994
1698	PRC	56.38257	-116.769283

Listing of Intermittent Monitoring Stations

- VOC Canister Sampling Station
 - 986c Station
 - 842b Station
 - Reno Station

Listing of PRAMP member with EPEA Facility Operating Approval

Company	Facility	Approval No.
Canadian Natural Upgrading Limited	Peace River Complex	1642-03-00

Monitoring Notes during the Month of June 2022

986c Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- **THC/CH₄/NMJHC:** In order to investigate persistently high CH₄ concentrations, the analyzer was decided to be removed from the field and brought back to the BV shop for further checking and

bench testing. Following a shut down calibration on June 7, the PRAMP-owned Thermo 55i HC analyzer, s/n: 1193585652, was removed, and the BV-supplied Thermo 55i HC analyzer, s/n: 1433563261, was installed. A successful post-repair calibration was completed afterward. Four hours of downtime were recorded due to this event.

842b Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- No major operational issues were identified this month.

Reno Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except RH (71.9%).
- **RH:** The Rotronic HC2-S3 RH/AT sensor, s/n: 60837897, failed on May 23 hour 7. On June 9, the faulty sensor was removed, and the Rotronic HC2-S3 RH/AT sensor, s/n: 61116376, was installed. 202 hours of downtime were recorded in June.

PRC Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- No major operational issues were identified this month.

AQHI – Grimshaw Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- No major operational issues were identified this month.

VOCs Canister Sampling Program

- The canister sampling program collects a 1-hour sample of air when the continuously measured non-methane hydrocarbon (NMHC) concentration reaches a specified trigger point. The current trigger point is 0.3 ppm for non-methane hydrocarbons. The trigger point is based on real-time monitoring data that are averaged over a 5-minute period.
- The canister sample collection systems are in place at Station 986c, 842b, and the Reno Station; a canister sample collection system is not part of the suite of instruments currently deployed at the AQHI-Grimshaw Station.
- Sample analysis and analytical results were prepared and provided by InnoTech Alberta.
- No NMHC canister event were recorded this month.

Revisions to Alberta's Ambient Air Quality Data Warehouse

No revisions to historical data previously submitted to the Alberta's Ambient Air Quality Data Warehouse were made this month.

Deviations from Authorized Monitoring Methods

At the Reno station, nearby trees exceed the height allowed under section 2.3 of the wind speed and wind direction siting criteria in Chapter 3 of the AMD. This non-conformance was documented in the updated station site documents. Further actions are being considered including siting the wind sensor so that it meets AMD Chapter 3 siting requirements, or obtaining written authorization from "The Director" to deviate from AMD Siting requirements.

Disclaimer

Baseline corrections were performed on the 1-minute data. 5-minute and hourly data were calculated based on the post-baseline correction 1-minute data set. Data verification/validation were then performed on the 5-minute and hourly data. Hourly data that are included in this report are the post-validation hourly data set.

Equipment calibration / maintenance records were provided by Bureau Veritas.

Certification

This report was prepared and submitted by Lily Lin in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).



Lily Lin, Technical Program Manager, PRAMP Airshed

This report was reviewed by Michael Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

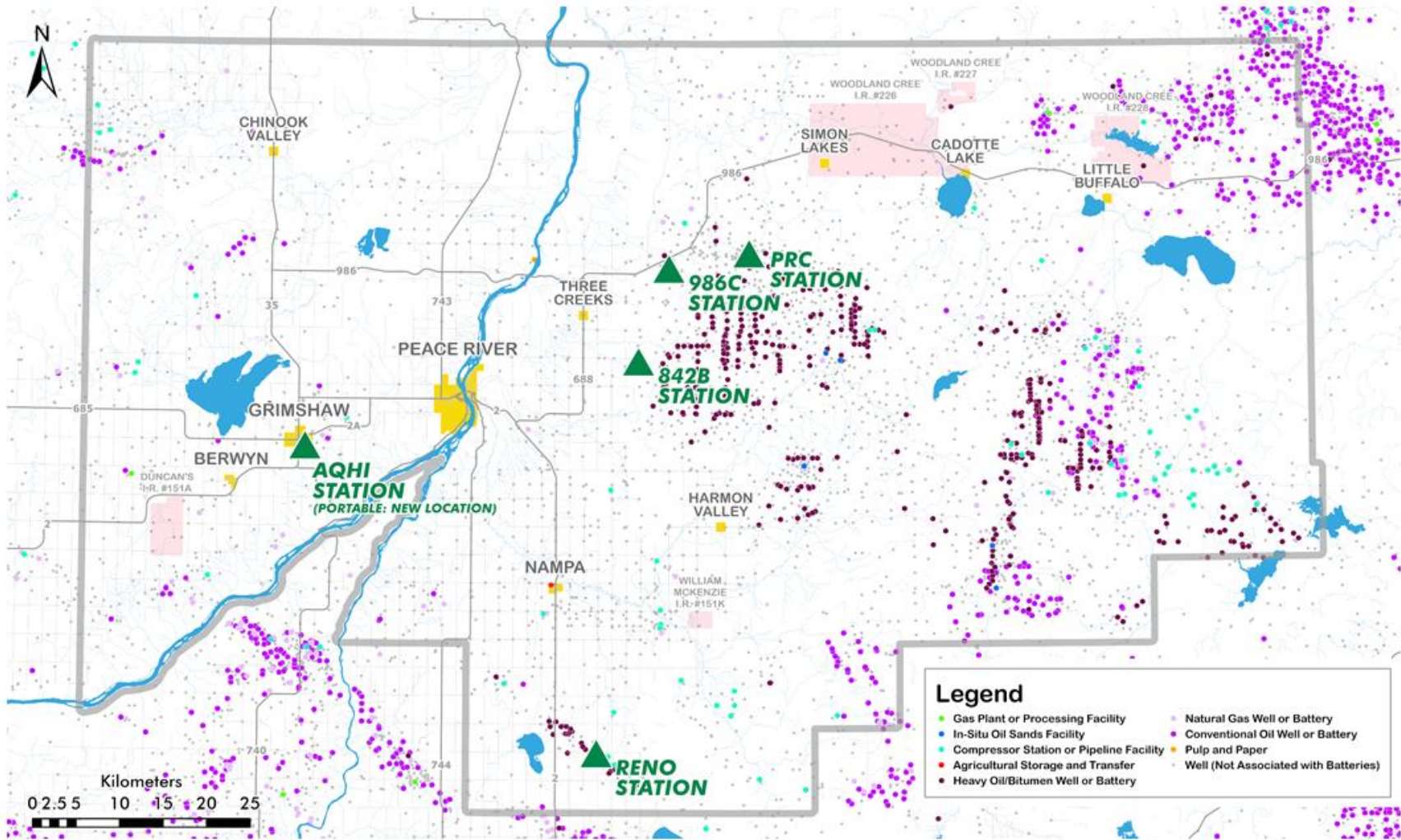
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all air data have been electronically uploaded to Alberta's Ambient Air Quality Data Warehouse as required by the AMD. Uploading of VOC data from the canister sampling program was not required at the time of completing this report.



Michael Bisaga, Technical Program Manager, PRAMP Airshed

July 25, 2022

Map of PRAMP Continuous Monitoring Network



CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

986c Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number
SO2	Thermo / 43iQTL	1193585646
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 7. • No operational issues were identified this month. 		
TRS	Thermo / 43iQTL	1191833341
<ul style="list-style-type: none"> • A repeat zero-span check was initiated on June 1 hour 6, June 6 hour 9, and June 26 hour 6 to investigate span drift. The analyzer passed the check requirements each time. Three hours of downtime were recorded due to additional quality checks. • A successful monthly calibration was performed on June 7 		
THC/CH4/NMHC	Thermo / 55i	1193585652 / 1433563261
<ul style="list-style-type: none"> • In order to investigate persistently high CH4 concentrations, the analyzer was decided to be removed from the field and brought back to the BV shop for further checking and bench testing. Following a shut down calibration on June 7, the PRAMP-owned Thermo 55i HC analyzer, s/n: 1193585652, was removed, and the BV-supplied Thermo 55i HC analyzer, s/n: 1433563261, was installed. A successful post-repair calibration was completed afterward. Four hours of downtime were recorded due to this event. As the analyzer passed the shut-down calibration, data collected from the PRAMP's HC analyzer were deemed valid. Data quality will be reviewed once the investigation is available. 		
Relative Humidity (RH)	Rotronic / HC2-S3	20357528
<ul style="list-style-type: none"> • No operational issues were identified this month. • The RH sensor was checked on June 7. The sensor passed the check requirements. 		
Barometric Pressure (BP)	MetOne / 092	Y23358
<ul style="list-style-type: none"> • No operational issues were identified this month. • The BP sensor was checked on June 7. The sensor passed the check requirements. 		

Parameter	Make / Model	Serial Number	
Ambient Temperature (AT)	Rotronic / HC2-S3	20357528	
<ul style="list-style-type: none"> No operational issues were identified this month. The AT sensor was checked on June 7. The sensor passed the check requirements. 			
Station Temperature (ST)	COMET	18961918	
<ul style="list-style-type: none"> No operational issues were recorded this month. 			
Precipitation (Precip)	RM Young / 52202	TB 16325	
<ul style="list-style-type: none"> No operational issues were identified this month. The precipitation gauge was checked on June 7. The sensor passed the check requirements. 			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 05305AQ	180340	
<ul style="list-style-type: none"> Wind direction data contained in this report represents where the wind is coming from. The annual wind system calibration was completed on April 12, 2022. No operational issues were identified this month. The anemometer sensors were checked on June 7. The sensor passed the check requirements. 			

Monitored Data Summary for 986c Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	June 2 at hour 6	2.8	SE	0.1	June 8	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.41	0.05	1.32	June 7 at hour 2	3.4	SE	0.86	June 18	99.6	94.6
THC (ppm)	-	-	-	-	-	-	2.09	1.95	2.93	June 7 at hour 2	3.4	SE	2.31	June 2	99.4	94.4
CH4 (ppm)	-	-	-	-	-	-	2.09	1.95	2.93	June 7 at hour 2	3.4	SE	2.31	June 2	99.4	94.4
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	June 16 at hour 7	4.7	NE	0.00	June 16	99.4	94.4
RH (%)	-	-	-	-	-	-	60.2	12	98	June 20 at hour 8	4	SE	93.5	June 18	100.0	100.0
BP (millibar)	-	-	-	-	-	-	941	929	953	June 24 at hour 8	7.3	NNW	952	June 24	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	15.3	3.4	25.2	June 3 at hour 16	14.7	SE	17.8	June 5	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.4	22.8	24.2	June 17 at hour 22	5.5	ESE	23.9	June 18	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	30.3	0.0	3.2	June 18 at hour 13	8.9	N	14.4	June 18	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.6	0.4	33.6	June 4 at hour 11	33.6	SSE	18.1	June 4	100.0	100.0
WDV (sector)	-	-	-	-	-	-	130 (SE)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at 986c Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

842b Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	Thermo / 43iQTL	1200736629	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 8. • No operational issues were identified this month. 			
TRS	Thermo 43iQTL	1200736630	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 8. • No operational issues were identified this month. 			
THC/CH4/NMHC	Thermo / 55i	1501663728	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 8. • No operational issues were identified this month. 			
Relative Humidity (RH)	Rotronic / HC2A-S3	20370767	
<ul style="list-style-type: none"> • The RH sensor was checked on June 8. The sensor passed the check requirements. • No operational issues were identified this month. 			
Barometric Pressure (BP)	MetOne / 092	Y23362	
<ul style="list-style-type: none"> • The BP sensor was checked on June 8. The sensor passed the check requirements. • No operational issues were identified this month. 			
Ambient Temperature (AT)	Rotronic / HC2A-S3	20370767	
<ul style="list-style-type: none"> • The temperature sensor was checked on June 8. The sensor passed the check requirements. • No operational issues were identified this month. 			

Parameter	Make / Model	Serial Number	
Station Temperature (ST)	COMET	20790297	
<ul style="list-style-type: none"> No operational issues were identified this month. 			
Precipitation (Precip)	RM Young / 52202	TB 15878	
<ul style="list-style-type: none"> The precipitation gauge was checked on June 8. The sensor passed the check requirements. No operational issues were identified this month. 			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 05305AQ	174802	
<ul style="list-style-type: none"> Wind direction data contained in this report represents where the wind is coming from. The annual wind system calibration was completed on July 4, 2021. The anemometer sensors were checked on June 8. The sensor passed the check requirements. No operational issues were identified this month. 			

Monitored Data Summary for 842b Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	0	June 1 at hour 0	2.1	E	0.0	June 1	100.0	95.2
TRS (ppb)	-	-	-	-	-	-	0.50	0.14	1.98	June 26 at hour 2	1.8	NNW	0.78	June 27	100.0	95.0
THC (ppm)	-	-	-	-	-	-	1.87	1.82	2.15	June 2 at hour 4	1.8	NE	1.93	June 2	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	1.87	1.82	2.15	June 2 at hour 4	1.8	NE	1.93	June 2	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	June 3 at hour 2	4.3	ENE	0.00	June 3	100.0	95.1
RH (%)	-	-	-	-	-	-	63.5	13	100	June 9 at hour 2	1.6	E	96.8	June 18	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	929	952	June 24 at hour 8	7.5	NW	951	June 24	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	15.5	3.6	24.9	June 3 at hour 15	7.4	E	18.0	June 3	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.3	24.2	June 7 at hour 23	1.9	E	23.6	June 18	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	44.4	0.0	2.7	June 18 at hour 13	4.5	NNW	12.9	June 18	100.0	99.9
WSV (km/hr)	-	-	-	-	-	-	0.9	0.1	21.6	June 4 at hour 12	21.6	SSE	9.5	June 4	100.0	100.0
WDV (sector)	-	-	-	-	-	-	225 (SW)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

* Data represents the total (sum) for the indicated time frame

Alberta Ambient Air Quality Objectives (AAAOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at 842b Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

Reno Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	Thermo 43iQTL	12101910505	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 9. • No operational issues were identified this month. 			
TRS	Thermo 43iQTL	12101910504	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 9. • No operational issues were identified this month. 			
THC/CH4/NMHC	Thermo / 55i	12101910497	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 9. • The analyzer was put offline on June 13 during the time repairs were made to fix leak in the N2 supply line on June 13. After the repair, both the N2 gas cylinder and the span gas cylinder were replaced. A successful zero-span check was completed afterward to confirm the analyzer's functionality. Two hours of downtime were recorded due to this event. 			
Relative Humidity (RH)	Rotronic / HC2-S3	60837897 / 61116376	
<ul style="list-style-type: none"> • The RH probe failed on May 23 hour 7. On June 9, the BV-supplied Rotronic HC2-S3 AT/RH probe, s/n: 60837897, was removed, and the PRAMP-owned Rotronic HC2-S3 AT/RH sensor, s/n: 61116376, was installed. Two hundred and two hours of downtime were recorded in June due to this event. 			
Barometric Pressure (BP)	MetOne / 092	K12864	
<ul style="list-style-type: none"> • The BP sensor was checked on June 9. The sensor passed the check requirements. • No operational issues were identified this month. 			
Ambient Temperature (AT)	Rotronic / HC2-S3	60837897 / 61116376	
<ul style="list-style-type: none"> • The AT sensor was checked on June 9. The sensor passed the check requirements. • The AT channel was put offline on June 9 while the AT/RH sensor was being replaced. Two hours of downtime were recorded due to this event. 			

Parameter	Make / Model	Serial Number	
Station Temperature (ST)	Bureau Veritas Canada	N/A	
<ul style="list-style-type: none"> No operational issues were identified this month. 			
Precipitation (Precip)	RM Young / 5202	TB15877	
<ul style="list-style-type: none"> The precipitation gauge was checked on June 9. The sensor passed the check requirements. No operational issues were identified this month. 			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 5305VK	149769	
<ul style="list-style-type: none"> Wind direction data contained in this report represents where the wind is coming from. The annual wind system calibration was completed on July 5, 2021. The anemometer sensors were checked on June 9. The sensor passed the check requirements. No operational issues were identified this month. 			

Monitored Data Summary for Reno Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	June 3 at hour 9	5.1	ESE	0.1	June 12	100.0	95.2
TRS (ppb)	-	-	-	-	-	-	0.22	0.05	2.26	June 2 at hour 23	1	NNE	0.38	June 2	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.00	1.95	2.53	June 2 at hour 4	1.7	SSW	2.10	June 2	99.7	94.8
CH4 (ppm)	-	-	-	-	-	-	2.00	1.95	2.53	June 2 at hour 4	1.7	SSW	2.10	June 2	99.7	94.8
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.03	June 13 at hour 0	1.5	SSW	0.00	June 13	99.7	94.8
RH (%)	-	-	-	-	-	-	60.9	21	98	June 19 at hour 0	0.2	SW	89.4	June 18	71.9	71.9
BP (millibar)	-	-	-	-	-	-	938	927	951	June 24 at hour 22	0.8	WSW	949	June 25	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	15.5	6.4	25.8	June 30 at hour 17	3.9	W	18.7	June 30	99.7	99.7
Stn. Temp. (°C)	-	-	-	-	-	-	23.7	21.7	25.0	June 18 at hour 2	0.3	ESE	24.4	June 18	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	45.3	0.0	4.4	June 14 at hour 17	2.2	SE	8.4	June 18	100.0	99.7
WSV (km/hr)	-	-	-	-	-	-	0.5	0.1	17.2	June 4 at hour 15	17.2	ESE	8.8	June 4	100.0	100.0
WDV (sector)	-	-	-	-	-	-	94 (E)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

* Data represents the total (sum) for the indicated time frame

Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at Reno Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

PRC Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	Thermo 43i	1034746225	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. A successful monthly calibration was performed on June 15. 			
H2S	Thermo 450i	1308857354	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. A successful monthly calibration was performed on June 15. 			
TRS	Thermo 450i	1034746224	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. A successful monthly calibration was performed on June 15. 			
THC/CH4/NMHC	Thermo / 55i	1022143392	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. Following a successful shut-down calibration on June 15, the sample pump was rebuilt. A successful post-repair calibration was completed afterwards. 			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	RM Young / 43172VC	60837897	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. The RH sensor was checked on June 15. The sensor passed the check requirements. 			
Ambient Temperature (AT)	Rotronic C2-S3	28558318	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. The AT sensor was checked on June 15. The sensor passed the check requirements. 			
Barometric Pressure (BP)	MetOne 092	B19577	
<ul style="list-style-type: none"> On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. The BP sensor was checked on June 15. The sensor passed the check requirements. 			
Station Temperature (ST)	Canadian Natural	N/A	
<ul style="list-style-type: none"> High shelter temperatures were recorded on June 10 and June 11 due to problems with HVAC unit. Maintenance was completed by CNUL personnel to correct issue. On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. 			

Parameter	Make / Model	Serial Number	
Wind Speed/Wind Direction (WS/ WD)	RM Young / 05305VK	129612	
<ul style="list-style-type: none"> • Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on June 16, 2021. • On June 14, the channel was put offline while changes were made on the station and instrument; redundant wiring and tubing were removed, a PRAMP-owned hydrogen generator was installed, and the BV-supplied datalogger was replaced with the PRAMP-owned datalogger. Eleven hours of downtime were recorded due to this event. • The anemometer sensors were checked on June 15. The sensor passed the check requirements. 			

Monitored Data Summary for Peace River Complex (PRC) Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	10	June 2 at hour 10	3.3	W	1.0	June 2	98.5	93.4
H2S (ppb)	10	3	-	0	0	-	0.0	0	2	June 27 at hour 5	4.8	SSW	0.3	June 30	98.5	93.4
TRS -PRC' (ppb)	-	-	-	-	-	-	0.12	0.00	2.00	June 23 at hour 3	0.9	W	0.74	June 22	98.5	93.4
THC (ppm)	-	-	-	-	-	-	2.00	1.92	2.15	June 29 at hour 1	8.7	NNE	2.06	June 28	98.3	93.3
CH4 (ppm)	-	-	-	-	-	-	2.00	1.92	2.15	June 29 at hour 1	8.7	NNE	2.06	June 28	98.3	93.3
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	June 1 at hour 0	5.9	ESE	0.00	June 1	98.3	93.3
RH (%)	-	-	-	-	-	-	60.7	14	100	June 20 at hour 3	1.3	W	94.4	June 18	98.5	98.5
BP (millibar)	-	-	-	-	-	-	942	930	954	June 24 at hour 9	5.1	NNW	953	June 24	98.5	98.5
Ext. Temp. (°C)	-	-	-	-	-	-	14.9	1.5	25.1	June 3 at hour 16	13.3	E	18.1	June 5	98.5	98.5
Stn. Temp. (°C)	-	-	-	-	-	-	20.6	18.2	32.1	June 11 at hour 7	12.3	SSW	26.5	June 10	98.5	98.5
WSV (km/hr)	-	-	-	-	-	-	1.4	0.5	24.5	June 10 at hour 18	24.5	WSW	13.6	June 11	98.5	98.5
WDV (sector)	-	-	-	-	-	-	167 (SSE)	-	-	-	-	-	-	-	98.5	98.5

1- Date/ Time given is the first minimum and maximum value that was recorded

Alberta Ambient Air Quality Objectives (AAQOs) and/or Alberta Ambient Air Quality Guidelines (AAQGs) Exceedances at Peace River Complex (PRC) Station

The measured ambient air quality was within the AAQOs for all monitored parameters.

AQHI – Grimshaw Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	Teledyne / T100	722	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 16. • No operational issues were identified this month. 			
TRS	Teledyne / T100U	132	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 19. • Daily span check results trended low, starting June 18. Repeat zero-span checks were completed on June 19 hour 6, June 20 hour 6, and June 28 hour 6. The analyzer passed checks each time. It appears to be due to incorrect expected span value entering to the system after the monthly calibration. The issue will be corrected during the July monthly calibration. Data qualities were not affected by this issue. • No data were collected on June 24 between hour 2 and hour 6 due to firmware issues. The analyzer was reset following a zero-span check. Six hours of downtime were recorded due to this event. 			
NOx/NO/NO2	Teledyne / T200	837	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 16. • No operational issues were identified this month. 			
O3	API / 400A	445	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 16. • No operational issues were identified this month. 			
THC/CH4/NMHC	Thermo / 55i	1191032505	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 16. • No operational issues were identified this month. 			

Parameter	Make / Model	Serial Number	
PM2.5	Teledyne / T640	318	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on June 16. • No operational issues were identified this month. 			
Relative Humidity (RH)	Vaisala / HMP155	N2910506	
<ul style="list-style-type: none"> • The sensor was checked on June 16. The sensor passed the check requirements. • No operational issues were identified this month. 			
Barometric Pressure (BP)	MetOne / 092	A2397	
<ul style="list-style-type: none"> • The sensor was checked on June 16. The sensor passed the check requirements. • No operational issues were identified this month. 			
Ambient Temperature (AT)	Vaisala / HMP155	N2910506	
<ul style="list-style-type: none"> • The sensor was checked on June 16. The sensor passed the check requirements. • No operational issues were identified this month. 			
Station Temperature (ST)	COMET	N/A	
<ul style="list-style-type: none"> • No operational issues were identified this month. 			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 05305AQ	174801	
<ul style="list-style-type: none"> • Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on July 22, 2021. • The anemometer sensors were checked on June 16. The sensor passed the check requirements. • No operational issues were identified this month. 			

Monitored Data Summary for AQHI - Grimshaw Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	June 25 at hour 5	4.1	SW	0.1	June 25	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.40	0.00	1.29	June 13 at hour 6	1.2	ENE	0.53	June 1	98.8	93.7
NOx (ppb)	-	-	-	-	-	-	3.9	0	24	June 7 at hour 6	2.2	W	7.3	June 7	100.0	94.6
NO (ppb)	-	-	-	-	-	-	0.5	0	8	June 7 at hour 5	0.8	SSW	1.7	June 10	100.0	94.6
NO2 (ppb)	159	-	-	0	-	-	3.3	0	17	June 21 at hour 23	3.9	SSW	6.1	June 7	100.0	94.6
O3 (ppb)	76	-	-	0	-	-	31.5	6	63	June 3 at hour 16	11.3	ESE	46.1	June 3	100.0	94.7
THC (ppm)	-	-	-	-	-	-	2.01	1.94	2.55	June 1 at hour 3	4.7	NNE	2.08	June 7	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	2.01	1.94	2.38	June 1 at hour 3	4.7	NNE	2.07	June 7	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.17	June 1 at hour 3	4.7	NNE	0.01	June 1	100.0	95.1
PM2.5 (µg/m3)	80	30	-	0	0	-	6.5	1.0	35.0	June 30 at hour 19	5.4	SSW	16.2	June 30	100.0	99.9
RH (%)	-	-	-	-	-	-	56.3	14	100	June 17 at hour 5	10	NE	85.2	June 19	100.0	100.0
BP (millibar)	-	-	-	-	-	-	941	929	954	June 25 at hour 3	3.6	WSW	953	June 24	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	16.3	7.7	25.8	June 30 at hour 17	10.6	SW	19.2	June 30	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.4	21.0	23.4	June 1 at hour 5	6	N	22.8	June 6	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	8.5	0.2	29.0	June 4 at hour 10	29	SE	12.8	June 11	100.0	100.0
WDV (sector)	-	-	-	-	-	-	349 (NNW)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

Alberta Ambient Air Quality Objectives (AAAOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at AQHI - Grimshaw Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

TABLES, CHARTS, WIND ROSES AND EQUIPMENT CALIBRATION RECORDS

986c STATION



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

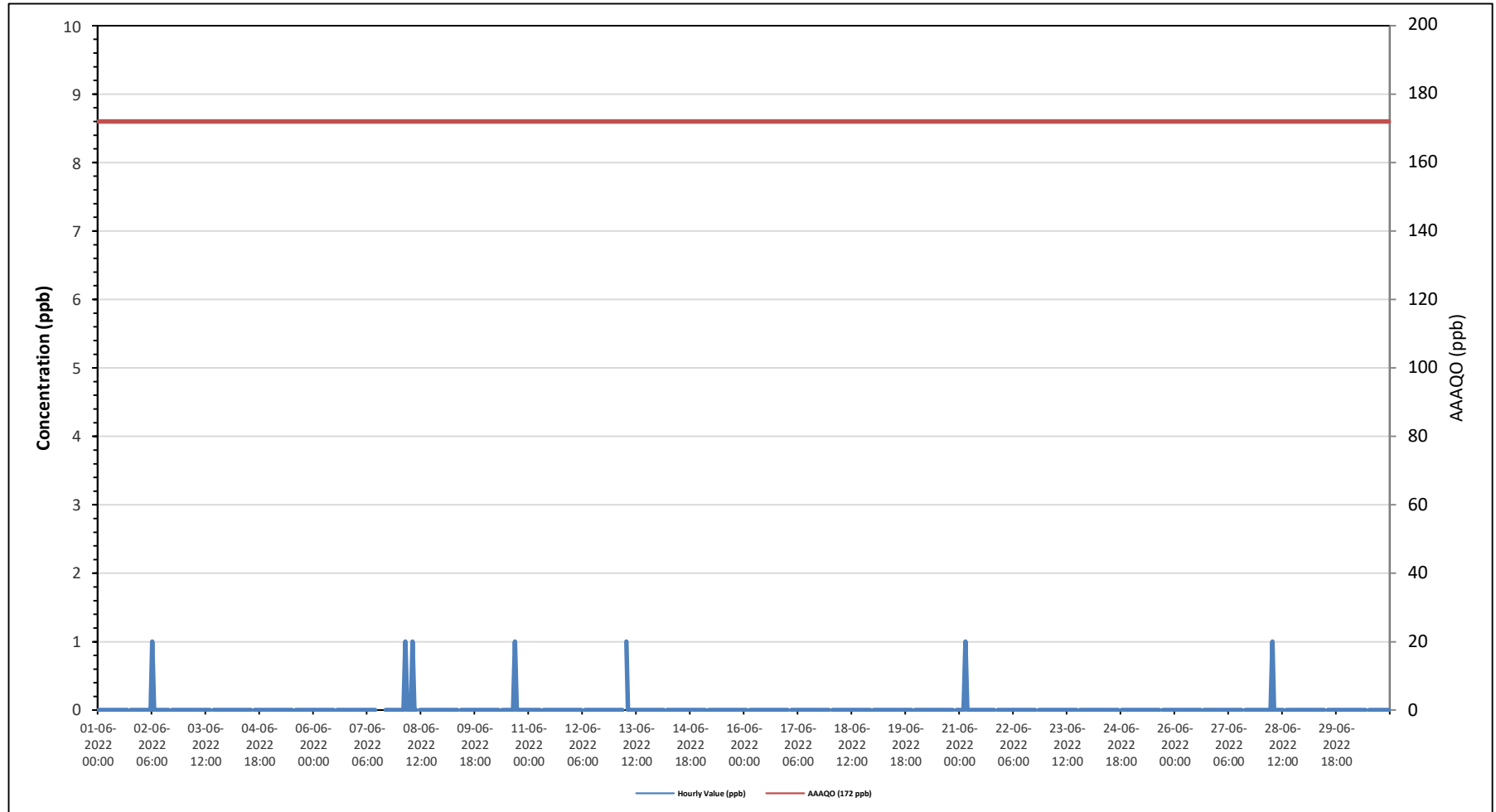
SULPHUR DIOXIDE (SO₂) in ppb

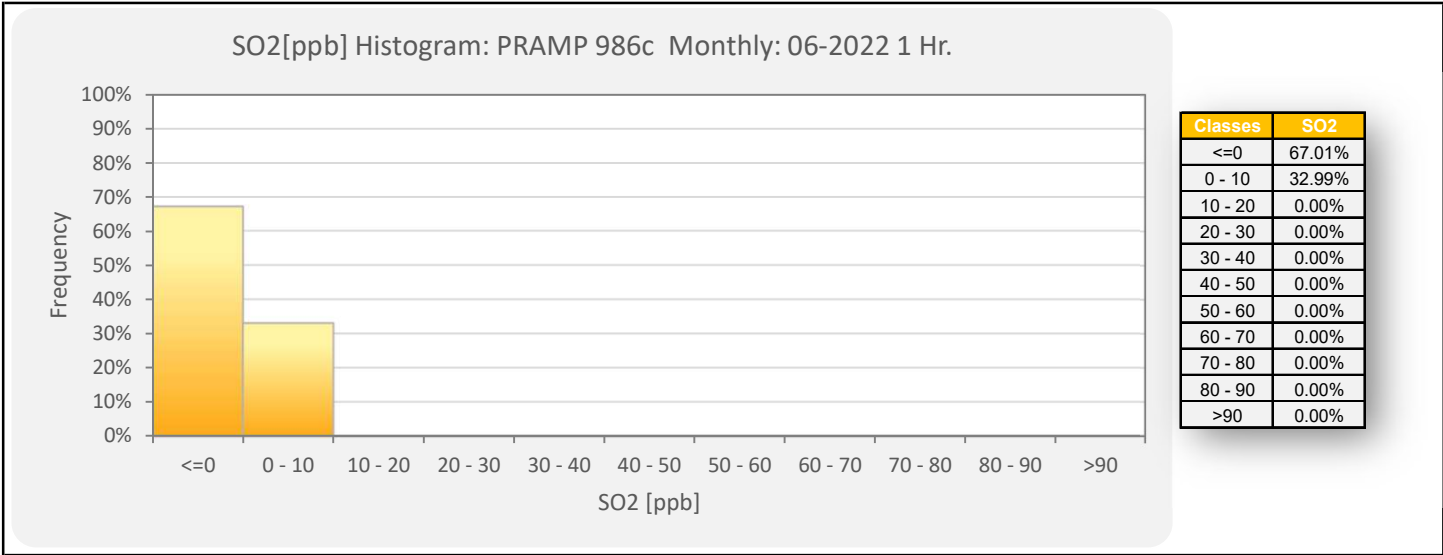
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																												
Number of 1-Hour Exceedances: 0							Number of 24-Hour Exceedances: 0							30-Day Exceedance: 0														
Maximum Hourly Value: 1 ppb on June 2 at hour 6							Hours in Service: 720																					
Maximum Daily Value: 0.1 ppb on June 8							Hours of Data: 685																					
Minimum Hourly Value: 0 ppb on June 1 at hour 0							Hours of Missing Data: 0																					
Minimum Daily Value: 0.0 ppb on June 1							Hours of Calibration: 35																					
Monthly Average: 0.0 ppb							Operational Uptime: 100.0																					
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0
Jun 2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0
Jun 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 6	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 7	0	0	0	0	0	0	0	0	0	0	0	S	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0
Jun 8	0	0	0	1	0	0	0	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 9	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 10	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Jun 11	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 12	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 13	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 14	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 15	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 16	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 17	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 18	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 21	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0
Jun 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0
Jun 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0
Jun 28	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 29	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 30	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Maximum	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Diurnal Average	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance													
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure						
X	Invalid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

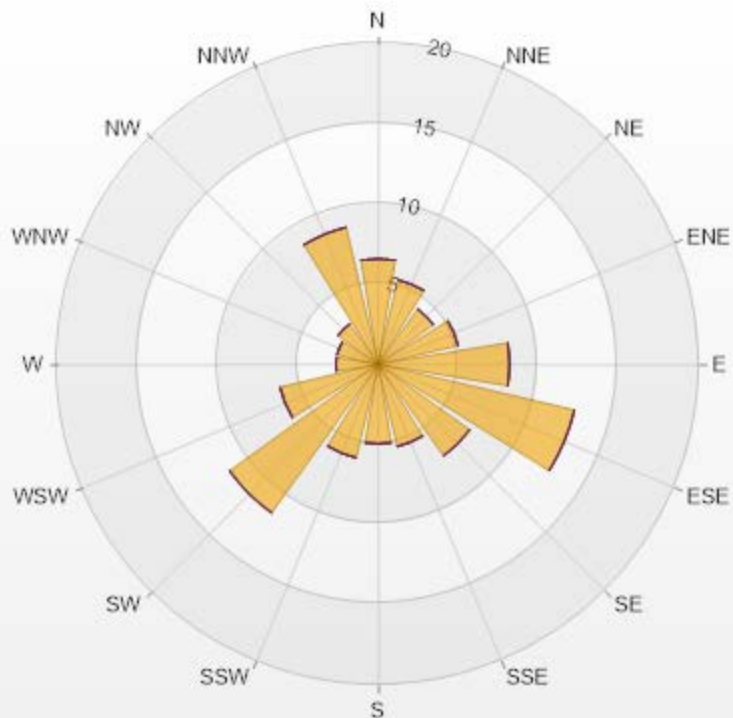
Timeseries Chart of Hourly Average for SO2 - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.57	0	0	0	0	6.57
NNE	5.4	0	0	0	0	5.4
NE	4.23	0	0	0	0	4.23
ENE	5.11	0	0	0	0	5.11
E	8.18	0	0	0	0	8.18
ESE	12.55	0	0	0	0	12.55
SE	7.01	0	0	0	0	7.01
SSE	5.26	0	0	0	0	5.26
S	4.96	0	0	0	0	4.96
SSW	5.99	0	0	0	0	5.99
SW	11.39	0	0	0	0	11.39
WSW	6.28	0	0	0	0	6.28
W	2.63	0	0	0	0	2.63
WNW	2.63	0	0	0	0	2.63
NW	3.07	0	0	0	0	3.07
NNW	8.76	0	0	0	0	8.76
Summary	100	0	0	0	0	100



PRAMP-202206

% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	1.32 ppb	on June 7 at hour 2	Hours in Service:	720
Maximum Daily Value:	0.86 ppb	on June 18	Hours of Data:	681
Minimum Hourly Value:	0.05 ppb	on June 11 at hour 17	Hours of Missing Data:	3
Minimum Daily Value:	0.13 ppb	on June 11	Hours of Calibration:	36
Monthly Average:	0.41 ppb		Operational Uptime:	99.6

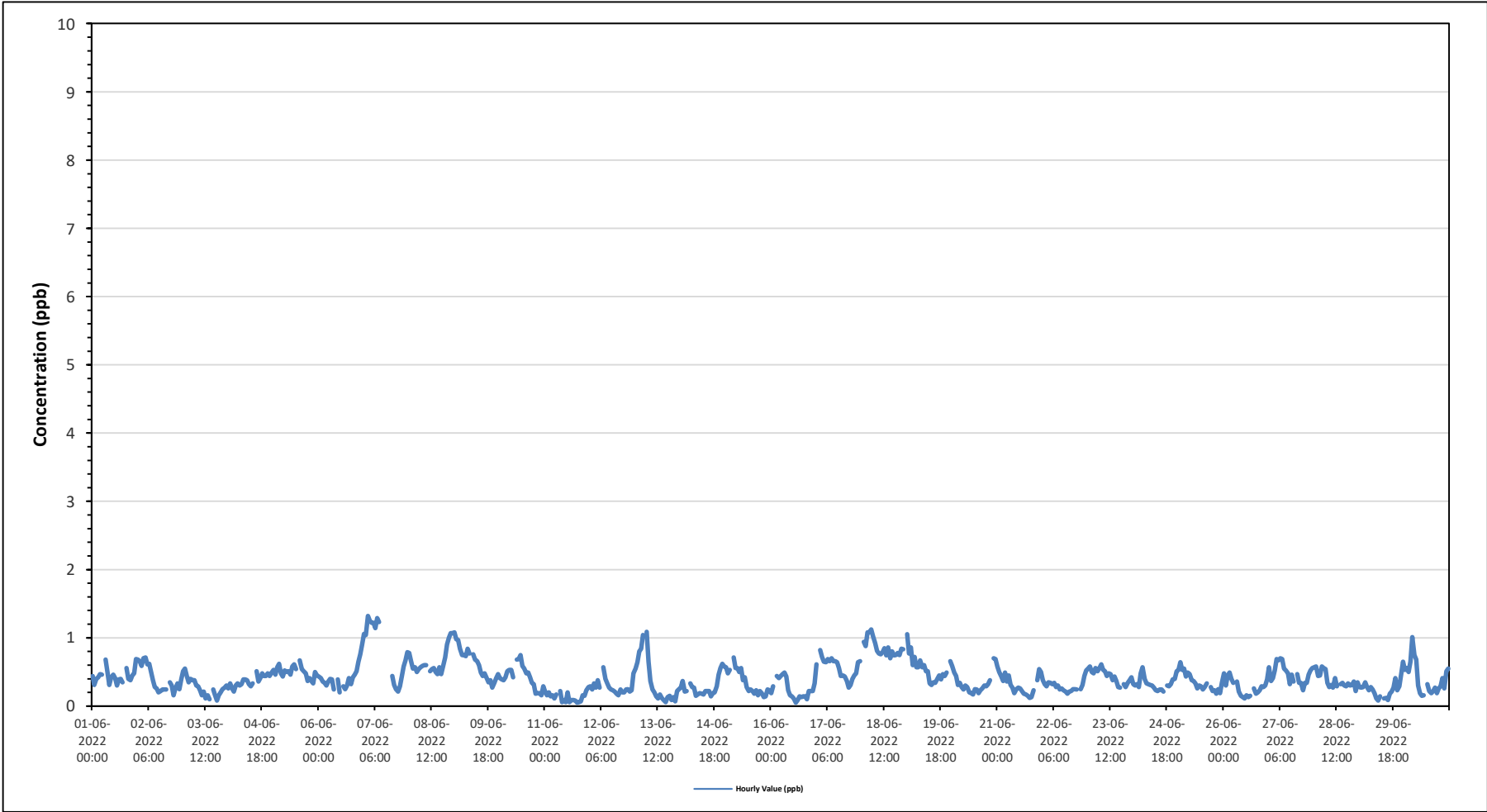
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	0.44	0.31	0.4	0.42	0.47	0.46	NRM	0.68	0.5	0.31	0.42	0.46	0.41	0.3	0.39	0.4	0.35	S	0.56	0.4	0.38	0.45	0.48	0.69	0.30	0.69	0.44	
Jun 2	0.68	0.66	0.59	0.7	0.71	0.61	0.62	0.5	0.38	0.28	0.26	0.2	0.22	0.24	0.24	0.24	S	0.35	0.3	0.16	0.26	0.33	0.25	0.39	0.16	0.71	0.40	
Jun 3	0.51	0.55	0.44	0.35	0.4	0.38	0.38	0.3	0.29	0.23	0.16	0.21	0.11	0.16	0.1	S	0.24	0.16	0.08	0.16	0.2	0.25	0.27	0.3	0.08	0.55	0.27	
Jun 4	0.26	0.33	0.26	0.21	0.3	0.33	0.3	0.32	0.39	0.39	0.38	0.32	0.29	0.33	S	0.51	0.36	0.41	0.48	0.44	0.44	0.48	0.44	0.49	0.21	0.51	0.37	
Jun 5	0.53	0.46	0.57	0.62	0.48	0.43	0.52	0.5	0.51	0.46	0.58	0.61	0.54	S	0.67	0.54	0.51	0.48	0.37	0.41	0.37	0.33	0.5	0.45	0.33	0.67	0.50	
Jun 6	0.43	0.41	0.36	0.34	0.3	0.36	0.4	0.39	0.24	NRM	0.39	0.2	S	0.29	0.25	0.3	0.41	0.32	0.42	0.46	0.51	0.65	0.76	0.9	0.20	0.90	0.41	
Jun 7	1.06	1.04	1.32	1.25	1.22	1.22	1.14	1.29	1.23	C	C	C	C	C	C	C	0.44	0.31	0.25	0.21	0.29	0.43	0.58	0.67	0.79	0.21	1.32	0.82
Jun 8	0.78	0.66	0.55	0.57	0.5	0.54	0.57	0.59	0.6	S	0.51	0.54	0.56	0.5	0.47	0.57	0.47	0.58	0.71	0.9	1	1.07	1.07	0.47	1.07	0.65	0.65	
Jun 9	1.08	0.98	0.97	0.84	0.75	0.75	0.73	0.84	0.77	S	0.76	0.68	0.66	0.6	0.49	0.44	0.48	0.41	0.35	0.38	0.27	0.34	0.41	0.47	0.27	1.08	0.63	
Jun 10	0.41	0.39	0.38	0.42	0.51	0.53	0.53	0.42	S	0.68	0.69	0.75	0.59	0.55	0.48	0.49	0.42	0.34	0.32	0.18	0.29	0.19	0.16	0.29	0.16	0.75	0.43	
Jun 11	0.21	0.16	0.2	0.14	0.16	0.11	0.17	S	0.22	0.06	0.09	0.06	0.2	0.06	0.09	0.09	0.08	0.05	0.06	0.07	0.16	0.15	0.23	0.28	0.05	0.28	0.13	
Jun 12	0.29	0.24	0.33	0.27	0.38	0.27	S	0.57	0.4	0.33	0.27	0.24	0.23	0.21	0.18	0.16	0.24	0.2	0.2	0.24	0.25	0.21	0.23	0.48	0.16	0.57	0.28	
Jun 13	0.55	0.64	0.8	0.84	1.04	S	1.09	0.65	0.37	0.24	0.2	0.14	0.11	0.17	0.12	0.09	0.06	0.13	0.15	0.09	0.13	0.07	0.22	0.25	0.06	1.09	0.35	
Jun 14	0.27	0.37	0.21	0.22	S	0.33	0.28	0.27	0.15	0.17	0.19	0.18	0.17	0.22	0.22	0.22	0.14	0.19	0.2	0.29	0.46	0.56	0.62	0.58	0.14	0.62	0.28	
Jun 15	0.57	0.48	0.53	S	0.71	0.56	0.56	0.5	0.56	0.38	0.42	0.28	0.22	0.24	0.22	0.18	0.23	0.16	0.22	0.19	0.13	0.14	0.24	0.23	0.13	0.71	0.35	
Jun 16	0.19	0.29	S	0.44	0.41	0.44	0.47	0.49	0.43	0.23	0.16	0.14	0.11	0.05	0.09	0.14	0.13	0.14	0.14	0.1	0.22	0.22	0.22	0.33	0.05	0.49	0.24	
Jun 17	0.61	S	0.82	0.72	0.65	0.64	0.69	0.66	0.7	0.66	0.66	0.64	0.56	0.44	0.45	0.43	0.37	0.27	0.31	0.4	0.45	0.48	0.64	0.66	0.27	0.82	0.56	
Jun 18	S	0.94	0.88	1.08	1.08	1.12	1.02	0.92	0.81	0.77	0.76	0.79	0.85	0.74	0.86	0.7	0.8	0.74	0.75	0.78	0.75	0.84	0.83	S	0.70	1.12	0.86	
Jun 19	1.05	0.77	0.86	0.6	0.72	0.57	0.67	0.57	0.6	0.51	0.51	0.33	0.31	0.35	0.34	0.4	0.45	0.39	0.47	0.44	0.49	S	0.66	0.31	1.05	0.55		
Jun 20	0.59	0.49	0.44	0.31	0.34	0.28	0.24	0.3	0.28	0.2	0.19	0.17	0.25	0.24	0.19	0.23	0.26	0.3	0.29	0.32	0.38	S	0.7	0.69	0.17	0.70	0.33	
Jun 21	0.58	0.5	0.43	0.37	0.49	0.36	0.45	0.31	0.27	0.19	0.25	0.27	0.26	0.22	0.18	0.17	0.15	0.12	0.13	0.23	S	0.38	0.54	0.5	0.12	0.58	0.32	
Jun 22	0.38	0.32	0.29	0.35	0.34	0.32	0.34	0.28	0.3	0.24	0.26	0.23	0.21	0.18	0.21	0.22	0.25	0.25	0.24	S	0.25	0.31	0.44	0.52	0.18	0.52	0.29	
Jun 23	0.55	0.58	0.5	0.48	0.56	0.51	0.56	0.61	0.53	0.51	0.44	0.48	0.47	0.38	0.43	0.37	0.28	0.27	S	0.32	0.28	0.34	0.38	0.42	0.27	0.61	0.45	
Jun 24	0.32	0.3	0.32	0.28	0.48	0.57	0.4	0.33	0.32	0.31	0.3	0.27	0.23	0.22	0.24	0.24	0.21	S	0.3	0.29	0.32	0.39	0.4	0.51	0.21	0.57	0.33	
Jun 25	0.53	0.64	0.53	0.55	0.43	0.49	0.47	0.38	0.37	0.33	0.26	0.3	0.29	0.24	0.28	0.33	S	0.28	0.22	0.23	0.18	0.25	0.19	0.34	0.18	0.64	0.35	
Jun 26	0.48	0.3	0.45	0.49	0.4	0.34	NRM	0.36	0.21	0.15	0.13	0.11	0.16	0.13	0.15	S	0.26	0.18	0.2	0.23	0.29	0.28	0.3	0.39	0.11	0.49	0.27	
Jun 27	0.57	0.37	0.41	0.52	0.69	0.67	0.7	0.69	0.55	0.52	0.48	0.32	0.46	0.36	S	0.47	0.34	0.34	0.23	0.34	0.34	0.46	0.52	0.56	0.23	0.70	0.47	
Jun 28	0.57	0.58	0.44	0.45	0.58	0.56	0.54	0.34	0.28	0.31	0.27	0.41	0.29	S	0.32	0.34	0.3	0.29	0.33	0.3	0.31	0.36	0.22	0.35	0.22	0.58	0.38	
Jun 29	0.28	0.27	0.28	0.35	0.28	0.23	0.28	0.24	0.19	0.11	0.08	0.14	S	0.11	0.12	0.09	0.18	0.21	0.27	0.41	0.23	0.29	0.47	0.65	0.08	0.65	0.25	
Jun 30	0.53	0.56	0.5	0.65	1.01	0.75	0.68	0.3	0.19	0.15	0.16	S	0.32	0.22	0.19	0.22	0.27	0.19	0.26	0.29	0.41	0.26	0.51	0.55	0.15	1.01	0.40	
Diurnal Maximum	1.08	1.04	1.32	1.25	1.22	1.22	1.14	1.29	1.23	0.77	0.76	0.79	0.85	0.74	0.86	0.70	0.80	0.74	0.75	0.78	0.90	1.00	1.07	1.07				
Diurnal Average	0.53	0.50	0.52	0.51	0.57	0.51	0.54	0.51	0.43	0.35	0.34	0.34	0.29	0.30	0.32	0.31	0.28	0.30	0.32	0.34	0.38	0.45	0.51					

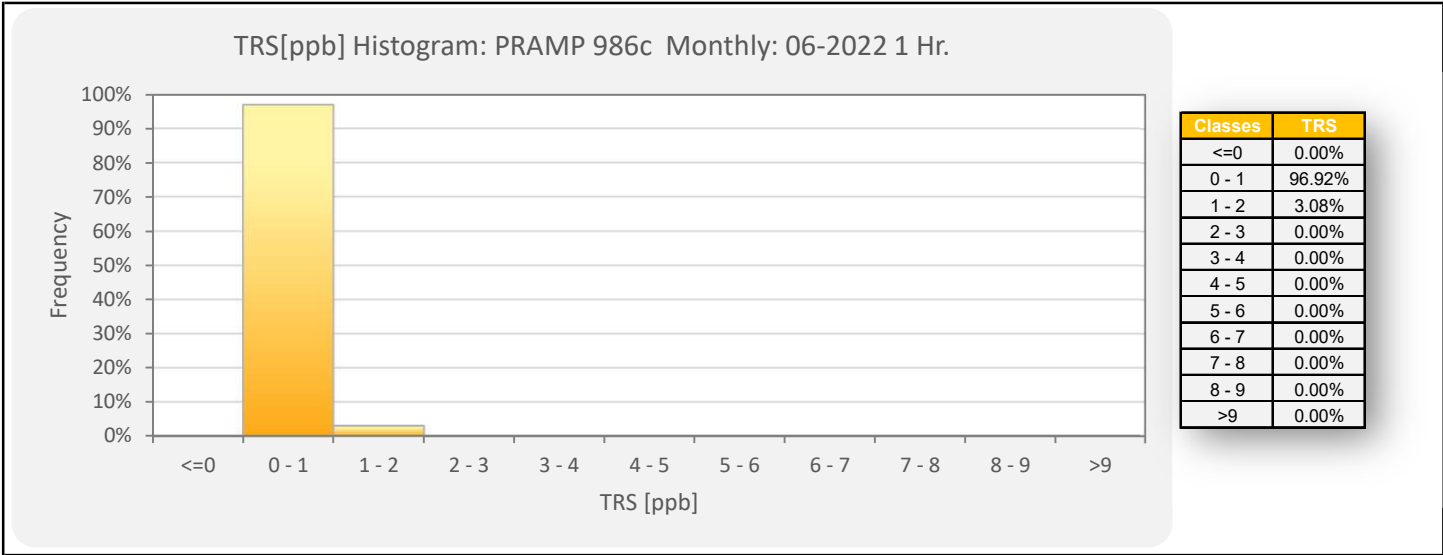
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

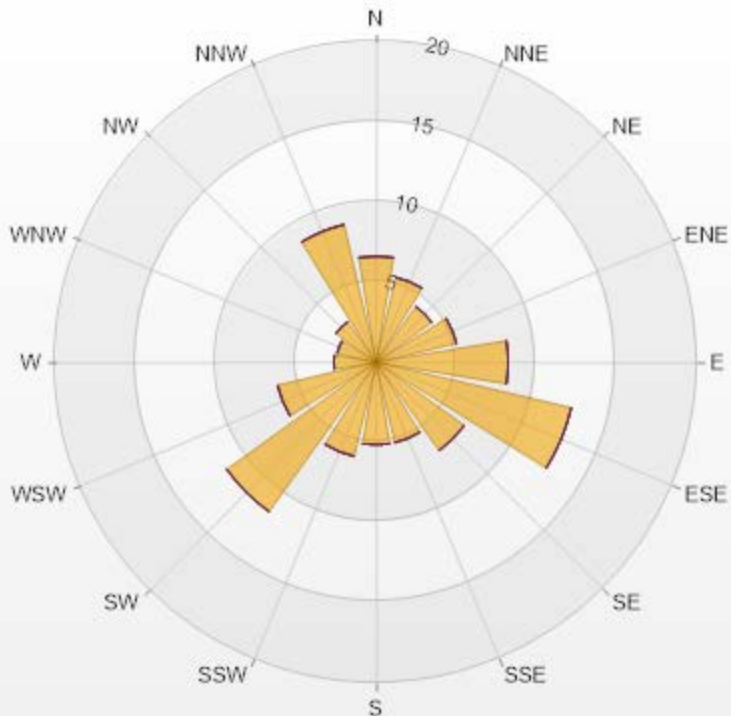
Timeseries Chart of Hourly Average for TRS - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.61	0	0	0	0	6.61
NNE	5.43	0	0	0	0	5.43
NE	4.26	0	0	0	0	4.26
ENE	5.14	0	0	0	0	5.14
E	8.22	0	0	0	0	8.22
ESE	12.48	0	0	0	0	12.48
SE	6.75	0	0	0	0	6.75
SSE	5.14	0	0	0	0	5.14
S	5.14	0	0	0	0	5.14
SSW	6.02	0	0	0	0	6.02
SW	11.45	0	0	0	0	11.45
WSW	6.31	0	0	0	0	6.31
W	2.64	0	0	0	0	2.64
WNW	2.5	0	0	0	0	2.5
NW	3.08	0	0	0	0	3.08
NNW	8.81	0	0	0	0	8.81
Summary	100	0	0	0	0	100



PRAMP-202206

Page 39 of 276

% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.93 ppm on June 7 at hour 2	Hours in Service:	720
Maximum Daily Value:	2.31 ppm on June 2	Hours of Data:	680
Minimum Hourly Value:	1.95 ppm on June 30 at hour 22	Hours of Missing Data:	4
Minimum Daily Value:	1.99 ppm on June 11	Hours of Calibration:	36
Monthly Average:	2.09 ppm	Operational Uptime:	99.4

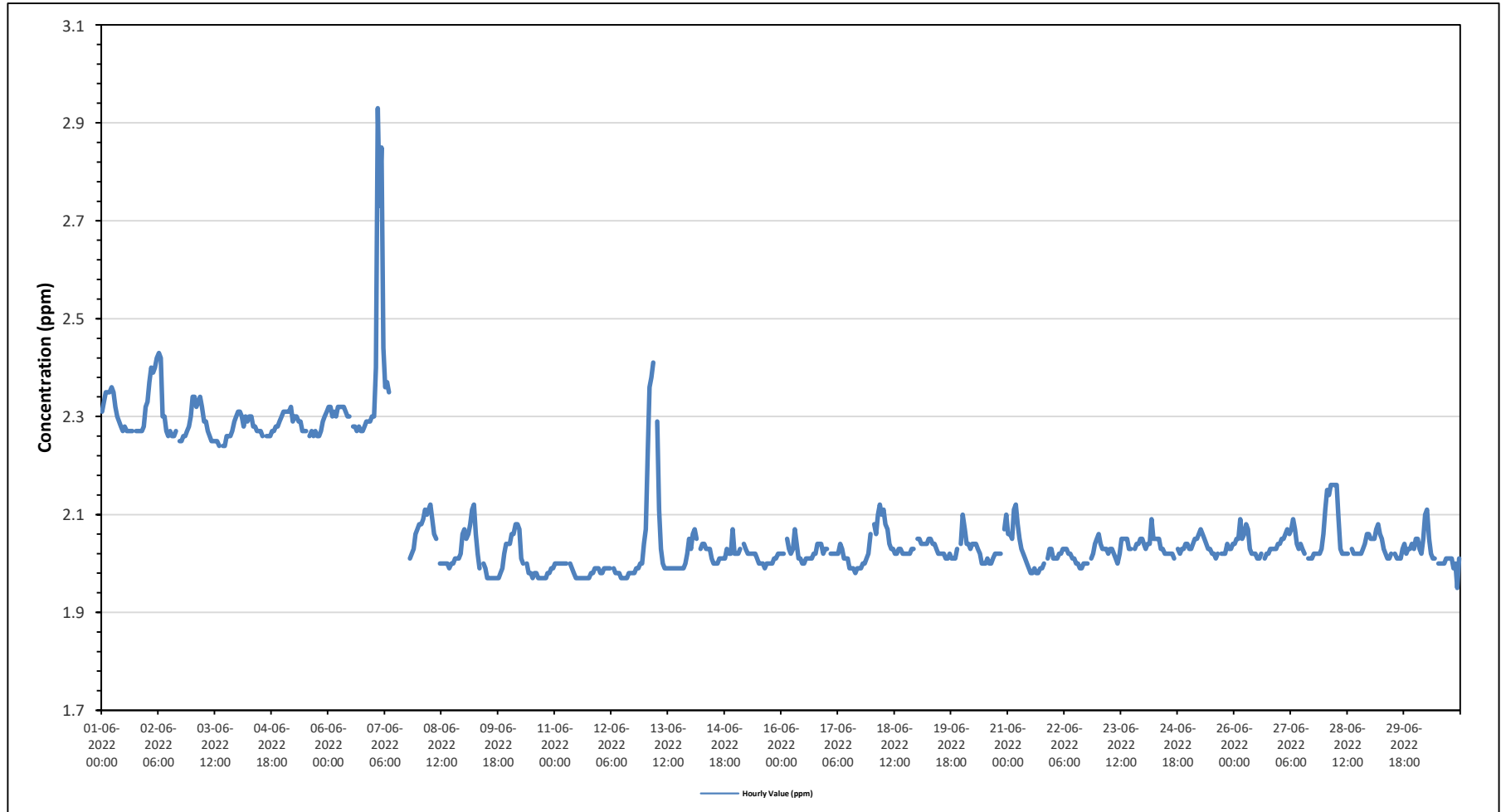
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2.31	2.33	2.35	2.35	2.35	2.36	2.35	2.32	2.30	2.29	2.28	2.27	2.28	2.27	2.27	2.27	2.27	S	2.27	2.27	2.27	2.27	2.28	2.32	2.27	2.36	2.30	
Jun 2	2.33	2.37	2.40	2.39	2.40	2.42	2.43	2.42	2.30	2.30	2.27	2.26	2.27	2.26	2.26	2.27	S	2.25	2.25	2.26	2.26	2.27	2.28	2.30	2.25	2.43	2.31	
Jun 3	2.34	2.34	2.32	2.33	2.34	2.32	2.29	2.29	2.27	2.26	2.25	2.25	2.25	2.24	S	2.24	2.24	2.26	2.26	2.26	2.27	2.29	2.30	2.24	2.34	2.28		
Jun 4	2.31	2.31	2.30	2.28	2.30	2.29	2.30	2.30	2.28	2.28	2.27	2.27	2.27	2.26	S	2.26	2.26	2.26	2.27	2.27	2.28	2.28	2.29	2.30	2.26	2.31	2.28	
Jun 5	2.31	2.31	2.31	2.31	2.32	2.29	2.30	2.30	2.29	2.29	2.27	2.27	S	2.26	2.27	2.26	2.27	2.26	2.26	2.27	2.29	2.30	2.31	2.26	2.32	2.29		
Jun 6	2.32	2.32	2.30	2.31	2.30	2.32	2.32	2.32	2.32	2.31	2.30	2.30	S	2.28	2.28	2.27	2.28	2.27	2.27	2.28	2.29	2.29	2.29	2.30	2.27	2.32	2.30	
Jun 7	2.30	2.40	2.93	2.73	2.85	2.44	2.36	2.37	2.35	C	C	C	NRM	NRM	NRM	NRM	C	C	C	2.01	2.02	2.03	2.06	2.07	2.01	2.93	-	
Jun 8	2.08	2.08	2.09	2.11	2.10	2.11	2.12	2.09	2.06	2.05	S	2.00	2.00	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.01	2.01	2.02	2.06	1.99	2.12	2.04	
Jun 9	2.07	2.05	2.06	2.08	2.11	2.12	2.06	2.02	1.99	S	2.00	1.99	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.02	2.04	2.04	1.97	2.12	2.02	
Jun 10	2.04	2.06	2.06	2.08	2.08	2.07	2.01	2.00	S	2.00	1.98	1.98	1.97	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.99	1.97	2.08	2.00	
Jun 11	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	1.99	1.99	1.97	2.00	1.99	
Jun 12	1.98	1.98	1.99	1.99	1.99	1.99	S	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.00	2.04	1.97	2.04	1.99	
Jun 13	2.07	2.22	2.36	2.38	2.41	S	2.29	2.11	2.03	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.05	1.99	2.41	2.08		
Jun 14	2.03	2.06	2.07	2.05	S	2.03	2.04	2.04	2.03	2.03	2.03	2.01	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.03	2.02	2.02	2.07	2.02	2.00	2.07	2.03	
Jun 15	2.02	2.02	2.03	S	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.00	2.00	2.00	1.99	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	1.99	2.04	2.01	
Jun 16	2.02	2.02	S	2.05	2.03	2.02	2.03	2.07	2.04	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.04	2.04	2.04	2.02	2.03	2.00	2.07	2.02	
Jun 17	2.03	S	2.02	2.02	2.02	2.02	2.02	2.04	2.03	2.01	2.01	2.01	1.99	1.99	1.99	1.98	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.06	1.98	2.06	2.01	
Jun 18	S	2.08	2.06	2.10	2.12	2.10	2.11	2.08	2.07	2.04	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.03	2.03	S	2.02	2.12	2.05	
Jun 19	2.05	2.05	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.02	S	2.04	2.01	2.05	2.03	
Jun 20	2.10	2.07	2.04	2.04	2.03	2.04	2.04	2.04	2.03	2.02	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.02	2.02	2.02	2.02	S	2.07	2.10	2.00	2.10	2.03	
Jun 21	2.06	2.06	2.05	2.11	2.12	2.08	2.05	2.03	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.98	1.98	1.99	1.99	2.00	S	2.01	2.03	2.03	1.98	2.12	2.02	
Jun 22	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.99	2.00	2.00	2.00	S	2.01	2.02	2.04	2.05	1.99	2.05	2.01	
Jun 23	2.06	2.04	2.03	2.03	2.03	2.02	2.03	2.03	2.02	2.01	2.00	2.02	2.05	2.05	2.05	2.05	2.03	2.03	S	2.03	2.04	2.04	2.05	2.05	2.00	2.06	2.03	
Jun 24	2.04	2.03	2.04	2.04	2.09	2.05	2.05	2.05	2.05	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.01	S	2.03	2.02	2.03	2.03	2.04	2.04	2.01	2.09	2.03	
Jun 25	2.03	2.03	2.04	2.05	2.05	2.06	2.07	2.06	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.02	S	2.02	2.02	2.02	2.02	2.04	2.03	2.04	2.01	2.07	2.04	
Jun 26	2.04	2.05	2.05	2.09	2.05	2.06	2.08	2.07	2.03	2.02	2.02	2.02	2.01	2.01	2.02	S	2.01	2.02	2.02	2.03	2.03	2.03	2.03	2.04	2.01	2.09	2.04	
Jun 27	2.04	2.05	2.05	2.06	2.07	2.06	2.07	2.09	2.07	2.04	2.03	2.04	2.03	2.02	S	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.03	2.06	2.01	2.09	2.04	
Jun 28	2.11	2.15	2.14	2.16	2.16	2.16	2.16	2.09	2.03	2.02	2.02	2.02	2.02	S	2.03	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.06	2.06	2.02	2.16	2.07	
Jun 29	2.05	2.05	2.05	2.07	2.08	2.06	2.05	2.03	2.02	2.01	2.01	2.02	S	2.02	2.01	2.01	2.01	2.03	2.04	2.02	2.03	2.04	2.03	2.01	2.08	2.03		
Jun 30	2.05	2.05	2.03	2.02	2.05	2.10	2.11	2.05	2.02	2.01	2.01	S	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	1.99	2.00	1.95	2.01	1.95	2.11	2.02
Diurnal Maximum	2.34	2.40	2.93	2.73	2.85	2.44	2.43	2.42	2.35	2.31	2.30	2.30	2.28	2.28	2.28	2.27	2.28	2.27	2.27	2.28	2.29	2.29	2.30	2.32				
Diurnal Average	2.11	2.12	2.15	2.15	2.16	2.13	2.13	2.12	2.10	2.08	2.07	2.06	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.07	2.07	2.08	2.09				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

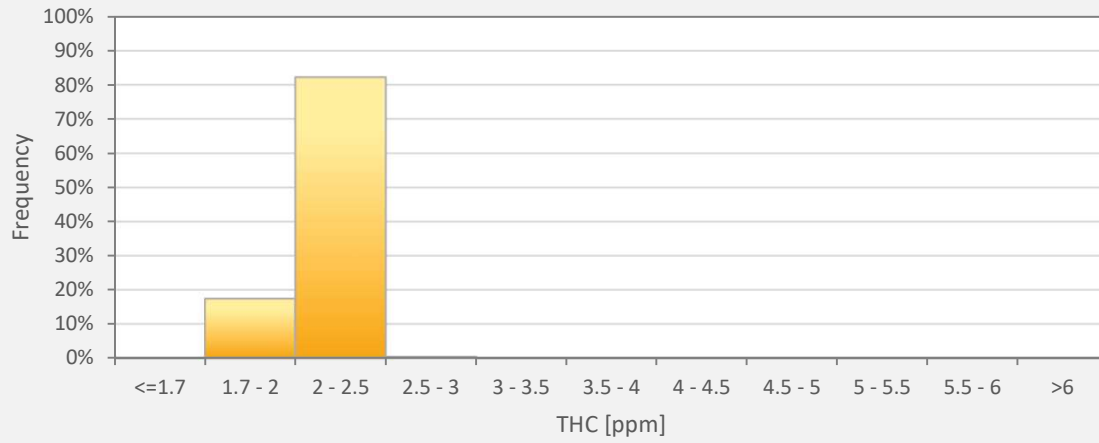
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for THC - 986c Station



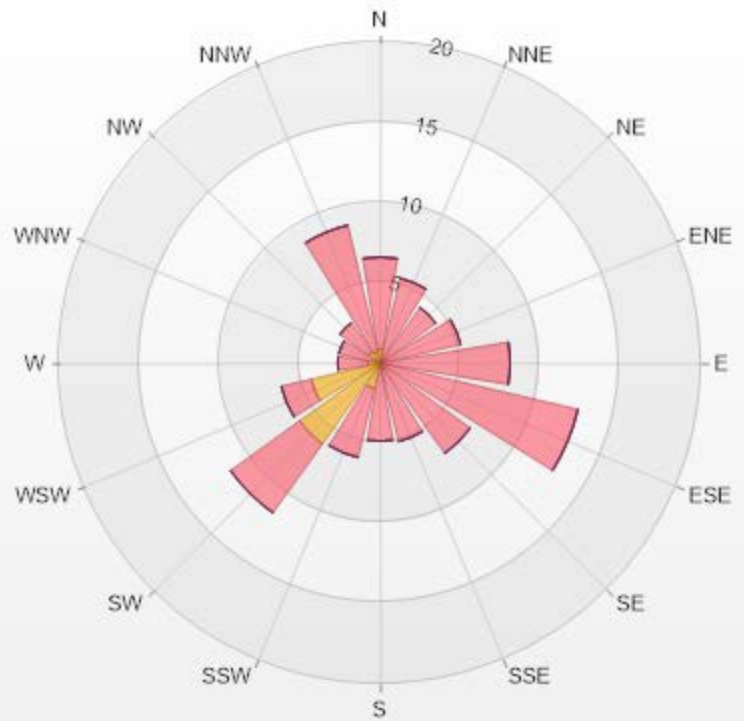
THC55[ppm] Histogram: PRAMP 986c Monthly: 06-2022 1 Hr.



Classes	THC55
<=1.7	0.00%
1.7 - 2	17.35%
2 - 2.5	82.21%
2.5 - 3	0.44%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.88	5.74	0	0	0	6.62
NNE	0.15	5.29	0	0	0	5.44
NE	0.15	4.12	0	0	0	4.27
ENE	0	5.15	0	0	0	5.15
E	0	8.09	0	0	0	8.09
ESE	0	12.65	0	0	0	12.65
SE	0.44	6.47	0	0	0	6.91
SSE	0.29	4.71	0	0	0	5
S	0.29	4.56	0	0	0	4.85
SSW	1.62	4.41	0	0	0	6.03
SW	6.18	5.29	0	0	0	11.47
WSW	4.41	1.91	0	0	0	6.32
W	0.74	1.91	0	0	0	2.65
WNW	0.29	2.35	0	0	0	2.64
NW	0.88	2.21	0	0	0	3.09
NNW	0.74	8.09	0	0	0	8.83
Summary	17.06	82.95	0	0	0	100



PRAMP-202206

% Icon Classes (ppm)	17	83	0	0	0
0-2	17	83	0	0	0
2-5					
5-10					
10-40					
>40.0					



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

Maximum Hourly Value:	2.93 ppm on June 7 at hour 2	Hours in Service:	720
Maximum Daily Value:	2.31 ppm on June 2	Hours of Data:	680
Minimum Hourly Value:	1.95 ppm on June 30 at hour 22	Hours of Missing Data:	4
Minimum Daily Value:	1.99 ppm on June 11	Hours of Calibration:	36
Monthly Average:	2.09 ppm	Operational Uptime:	99.4

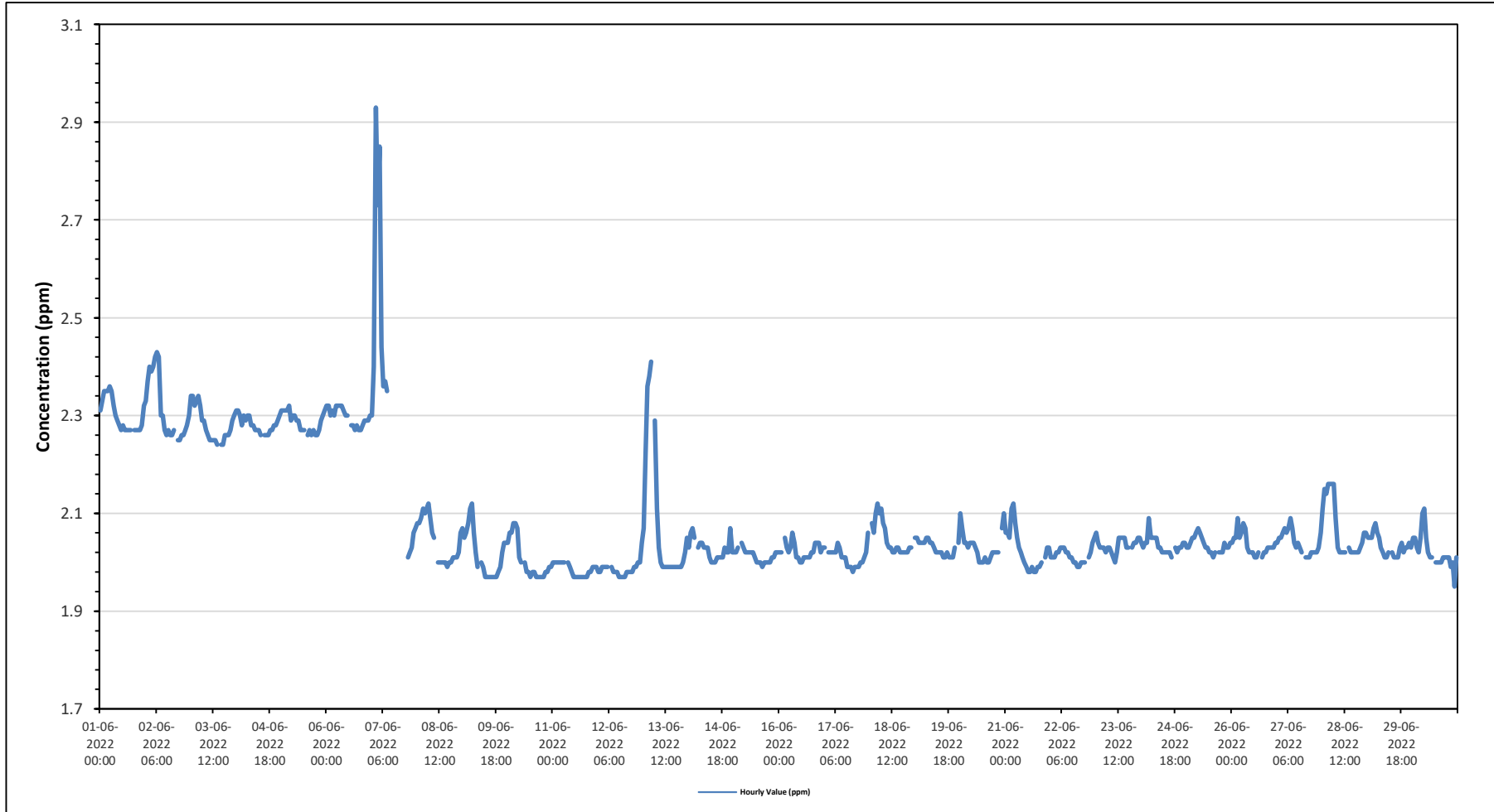
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2.31	2.33	2.35	2.35	2.35	2.36	2.35	2.32	2.30	2.29	2.28	2.27	2.28	2.27	2.27	2.27	2.27	S	2.27	2.27	2.27	2.27	2.28	2.32	2.27	2.36	2.30	
Jun 2	2.33	2.37	2.40	2.39	2.40	2.42	2.43	2.42	2.30	2.30	2.27	2.26	2.27	2.26	2.26	2.27	S	2.25	2.25	2.26	2.26	2.27	2.28	2.30	2.25	2.43	2.31	
Jun 3	2.34	2.34	2.32	2.33	2.34	2.32	2.29	2.29	2.27	2.26	2.25	2.25	2.25	2.25	2.24	S	2.24	2.24	2.26	2.26	2.26	2.27	2.29	2.30	2.24	2.34	2.28	
Jun 4	2.31	2.31	2.30	2.28	2.30	2.29	2.30	2.30	2.28	2.28	2.27	2.27	2.27	2.26	S	2.26	2.26	2.26	2.27	2.27	2.28	2.28	2.29	2.30	2.26	2.31	2.28	
Jun 5	2.31	2.31	2.31	2.31	2.32	2.29	2.30	2.30	2.29	2.29	2.27	2.27	2.27	S	2.26	2.27	2.26	2.27	2.26	2.26	2.27	2.29	2.30	2.31	2.26	2.32	2.29	
Jun 6	2.32	2.32	2.30	2.31	2.30	2.32	2.32	2.32	2.32	2.31	2.30	2.30	S	2.28	2.28	2.27	2.28	2.27	2.27	2.28	2.29	2.29	2.29	2.30	2.27	2.32	2.30	
Jun 7	2.30	2.40	2.93	2.73	2.85	2.44	2.36	2.37	2.35	C	C	C	NRM	NRM	NRM	NRM	C	C	C	2.01	2.02	2.03	2.06	2.07	2.01	2.93	-	
Jun 8	2.08	2.08	2.09	2.11	2.10	2.11	2.12	2.09	2.06	2.05	S	2.00	2.00	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.01	2.01	2.02	2.06	1.99	2.12	2.04	
Jun 9	2.07	2.05	2.06	2.08	2.11	2.12	2.06	2.02	1.99	S	2.00	1.99	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.02	2.04	2.04	1.97	2.12	2.02	
Jun 10	2.04	2.06	2.06	2.08	2.08	2.07	2.01	2.00	S	2.00	1.98	1.98	1.97	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.99	1.97	2.08	2.00	
Jun 11	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	1.99	1.99	1.97	2.00	1.99	
Jun 12	1.98	1.98	1.99	1.99	1.99	1.99	S	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.00	2.04	1.97	2.04	1.99	
Jun 13	2.07	2.22	2.36	2.38	2.41	S	2.29	2.11	2.03	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.05	1.99	2.41	2.08		
Jun 14	2.03	2.06	2.07	2.05	S	2.03	2.04	2.04	2.03	2.03	2.03	2.01	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.03	2.02	2.02	2.07	2.02	2.00	2.07	2.03	
Jun 15	2.02	2.02	2.03	S	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.00	2.00	2.00	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.02	2.02	1.99	2.04	2.01	
Jun 16	2.02	2.02	S	2.05	2.03	2.02	2.03	2.06	2.04	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.04	2.04	2.04	2.02	2.03	2.00	2.06	2.02	
Jun 17	2.03	S	2.02	2.02	2.02	2.02	2.02	2.04	2.03	2.01	2.01	2.01	1.99	1.99	1.99	1.98	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.06	1.98	2.06	2.01	
Jun 18	S	2.08	2.06	2.10	2.12	2.10	2.11	2.08	2.07	2.04	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.03	2.03	S	2.02	2.12	2.05	
Jun 19	2.05	2.05	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.02	2.01	2.01	2.02	2.01	2.03	S	2.04	2.01	2.05	2.03
Jun 20	2.10	2.07	2.04	2.04	2.03	2.04	2.04	2.04	2.03	2.02	2.00	2.00	2.00	2.01	2.00	2.00	2.01	2.02	2.02	2.02	2.02	2.02	S	2.07	2.10	2.00	2.10	2.03
Jun 21	2.06	2.06	2.05	2.11	2.12	2.08	2.05	2.03	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.98	1.98	1.99	1.99	2.00	2.00	S	2.01	2.03	2.03	1.98	2.12	2.02
Jun 22	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	S	2.01	2.02	2.04	2.05	1.99	2.05	2.01
Jun 23	2.06	2.04	2.03	2.03	2.03	2.02	2.03	2.03	2.02	2.01	2.00	2.02	2.05	2.05	2.05	2.05	2.03	2.03	S	2.03	2.04	2.04	2.05	2.05	2.00	2.06	2.03	
Jun 24	2.04	2.03	2.04	2.04	2.09	2.05	2.05	2.05	2.05	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.01	S	2.03	2.02	2.03	2.03	2.04	2.04	2.01	2.09	2.03	
Jun 25	2.03	2.03	2.04	2.05	2.05	2.06	2.07	2.06	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.02	S	2.02	2.02	2.02	2.02	2.04	2.03	2.03	2.04	2.01	2.07	2.04
Jun 26	2.04	2.05	2.05	2.09	2.05	2.06	2.08	2.07	2.03	2.02	2.02	2.02	2.01	2.01	2.02	S	2.01	2.02	2.02	2.03	2.03	2.03	2.03	2.04	2.01	2.09	2.04	
Jun 27	2.04	2.05	2.05	2.06	2.07	2.06	2.07	2.09	2.07	2.04	2.03	2.04	2.03	2.02	S	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.03	2.06	2.01	2.09	2.04	
Jun 28	2.11	2.15	2.14	2.16	2.16	2.16	2.16	2.09	2.03	2.02	2.02	2.02	2.02	S	2.03	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.06	2.06	2.02	2.16	2.07	
Jun 29	2.05	2.05	2.05	2.07	2.08	2.06	2.05	2.03	2.02	2.01	2.01	2.02	S	2.02	2.01	2.01	2.01	2.03	2.04	2.02	2.03	2.04	2.03	2.04	2.01	2.08	2.03	
Jun 30	2.05	2.05	2.03	2.02	2.05	2.10	2.11	2.05	2.02	2.01	2.01	S	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	1.99	2.00	1.95	2.01	1.95	2.11	2.02
Diurnal Maximum	2.34	2.40	2.93	2.73	2.85	2.44	2.43	2.42	2.35	2.31	2.30	2.30	2.28	2.28	2.28	2.27	2.28	2.27	2.27	2.28	2.29	2.29	2.30	2.32				
Diurnal Average	2.11	2.12	2.15	2.15	2.16	2.13	2.13	2.12	2.10	2.08	2.07	2.06	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.07	2.07	2.08	2.09				

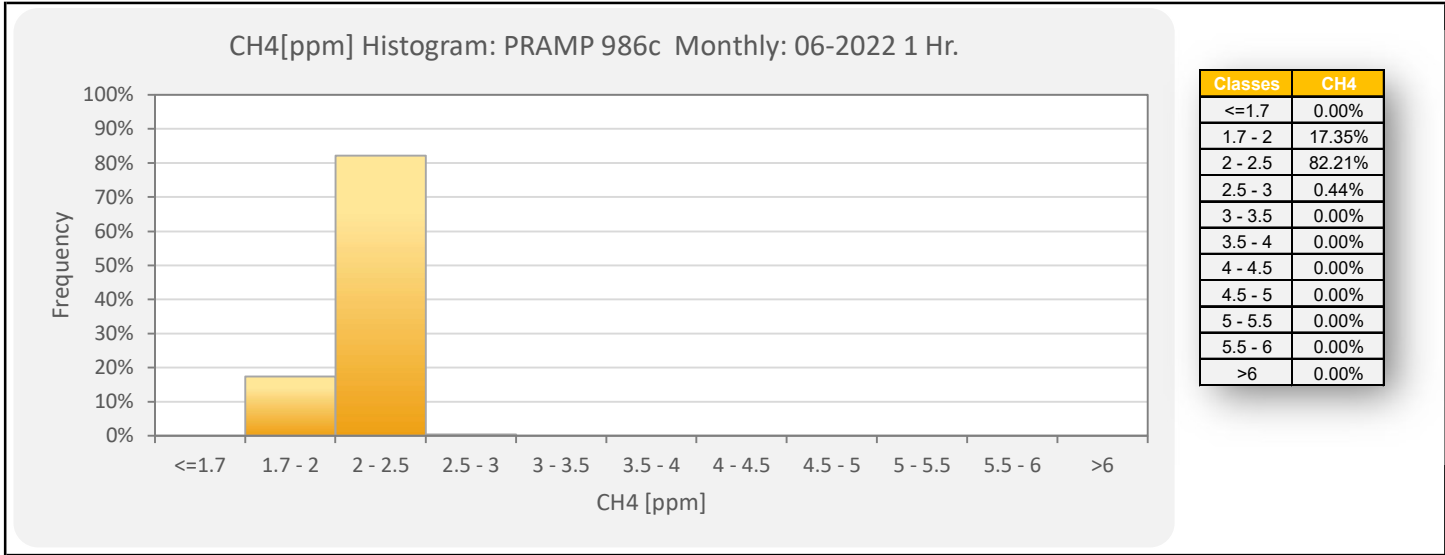
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

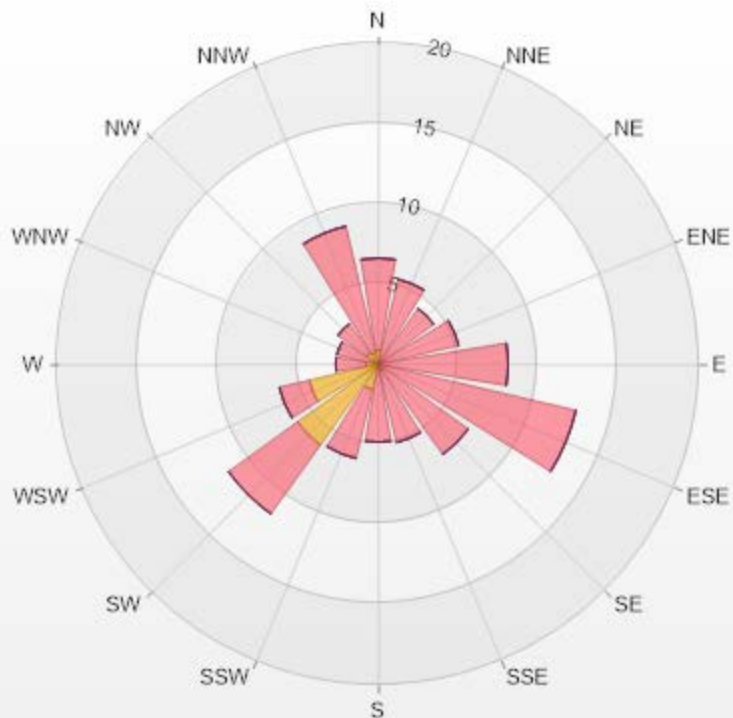
Timeseries Chart of Hourly Average for CH4 - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.88	5.74	0	0	0	6.62
NNE	0.15	5.29	0	0	0	5.44
NE	0.15	4.12	0	0	0	4.27
ENE	0	5.15	0	0	0	5.15
E	0	8.09	0	0	0	8.09
ESE	0	12.65	0	0	0	12.65
SE	0.44	6.47	0	0	0	6.91
SSE	0.29	4.71	0	0	0	5
S	0.29	4.56	0	0	0	4.85
SSW	1.62	4.41	0	0	0	6.03
SW	6.18	5.29	0	0	0	11.47
WSW	4.41	1.91	0	0	0	6.32
W	0.74	1.91	0	0	0	2.65
WNW	0.29	2.35	0	0	0	2.64
NW	0.88	2.21	0	0	0	3.09
NNW	0.74	8.09	0	0	0	8.83
Summary	17.06	82.95	0	0	0	100



PRAMP-202206

Page 49 of 276

% Icon Classes (ppm)

17

0-2

83

2-5

0

5-10

0

10-20

0

>20.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	0.01 ppm on June 16 at hour 7	Hours in Service:	720
Maximum Daily Value:	0.00 ppm on June 16	Hours of Data:	680
Minimum Hourly Value:	0.00 ppm on June 1 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	0.00 ppm on June 1	Hours of Calibration:	36
Monthly Average:	0.00 ppm	Operational Uptime:	99.4

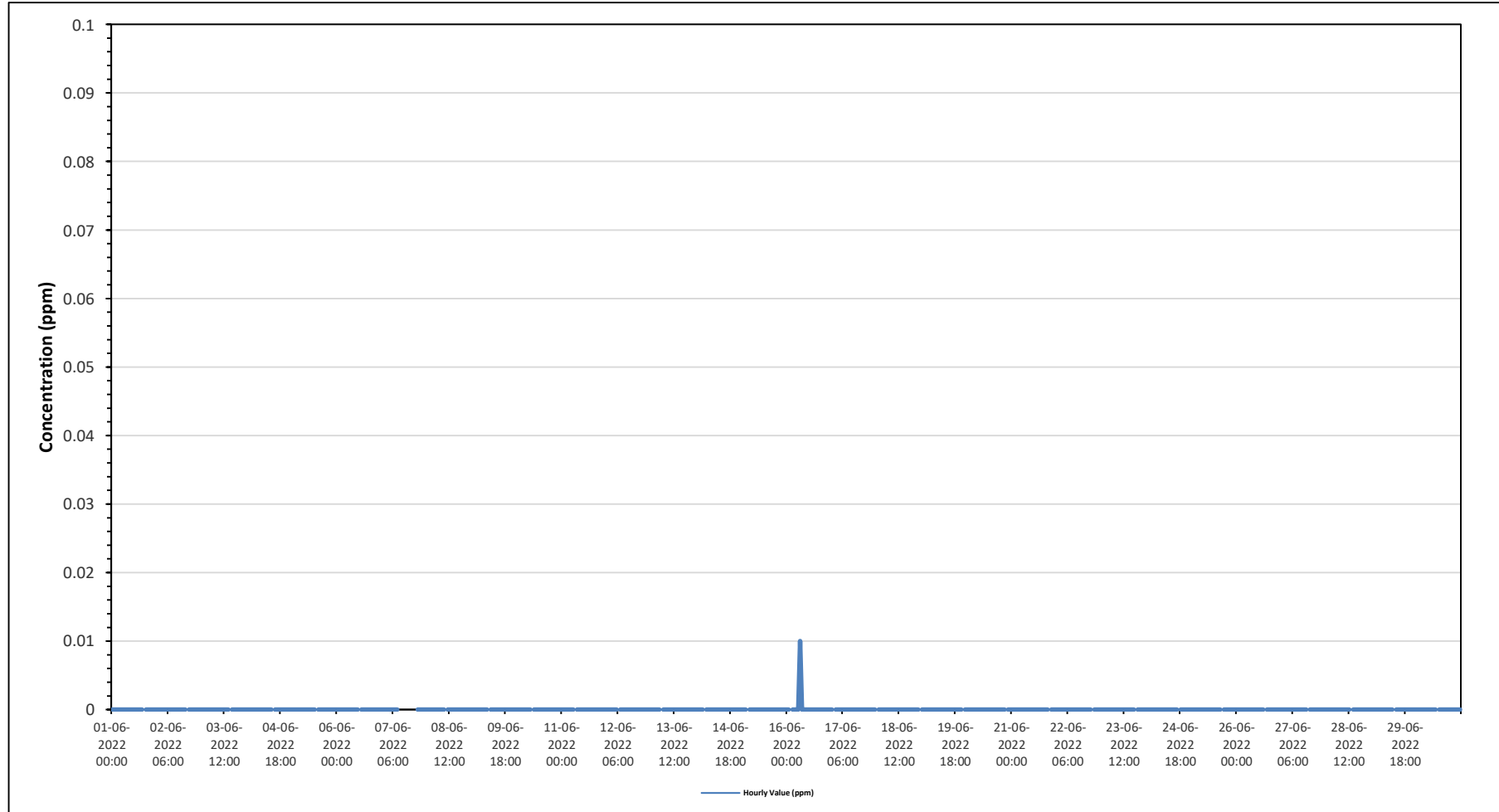
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23						
Jun 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	NRM	NRM	NRM	NRM	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 12	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 13	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 14	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 15	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 16	0.00	0.00	S	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 17	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 18	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	
Jun 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	
Jun 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	
Jun 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

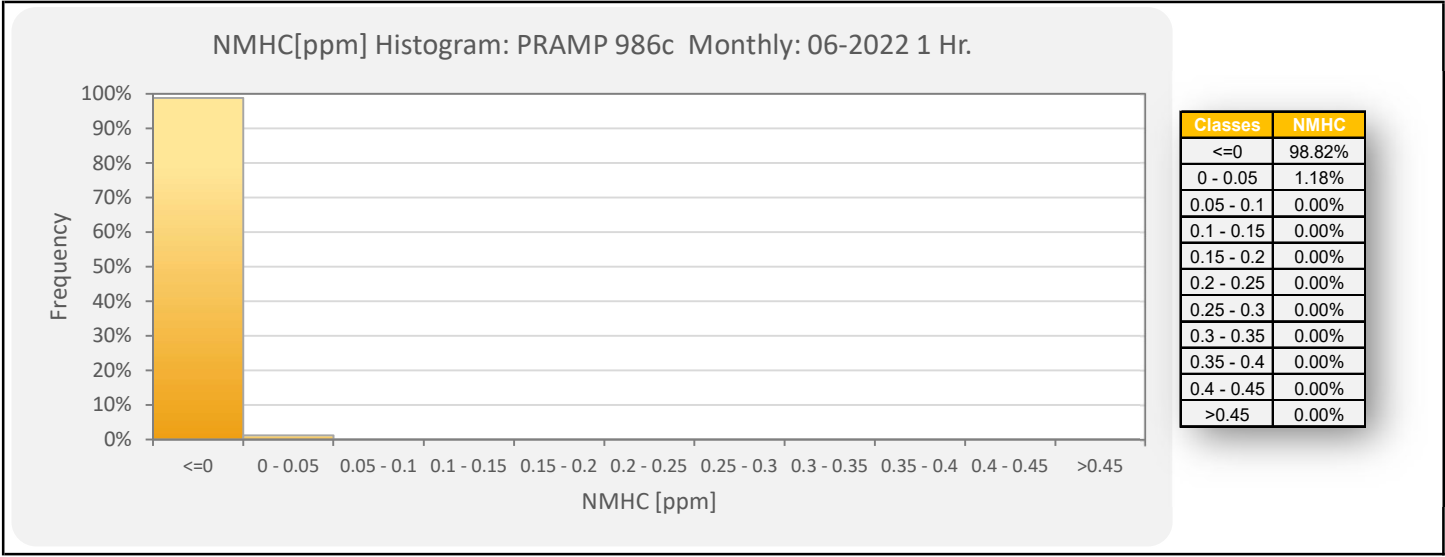
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

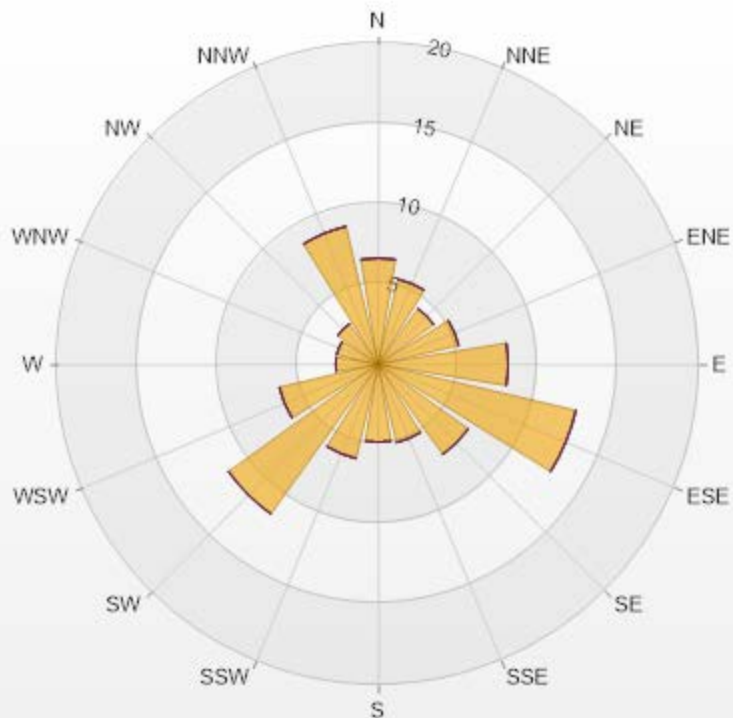
Timeseries Chart of Hourly Average for NMHC - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.62	0	0	0	0	6.62
NNE	5.44	0	0	0	0	5.44
NE	4.26	0	0	0	0	4.26
ENE	5.15	0	0	0	0	5.15
E	8.09	0	0	0	0	8.09
ESE	12.65	0	0	0	0	12.65
SE	6.91	0	0	0	0	6.91
SSE	5	0	0	0	0	5
S	4.85	0	0	0	0	4.85
SSW	6.03	0	0	0	0	6.03
SW	11.47	0	0	0	0	11.47
WSW	6.32	0	0	0	0	6.32
W	2.65	0	0	0	0	2.65
WNW	2.65	0	0	0	0	2.65
NW	3.09	0	0	0	0	3.09
NNW	8.82	0	0	0	0	8.82
Summary	100	0	0	0	0	100



PRAMP-202206

Page 54 of 276

% Icon Classes (ppm)

100  0-0.1

0  0.1-0.3

0  0.3-1

0  1-2

0  >2.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

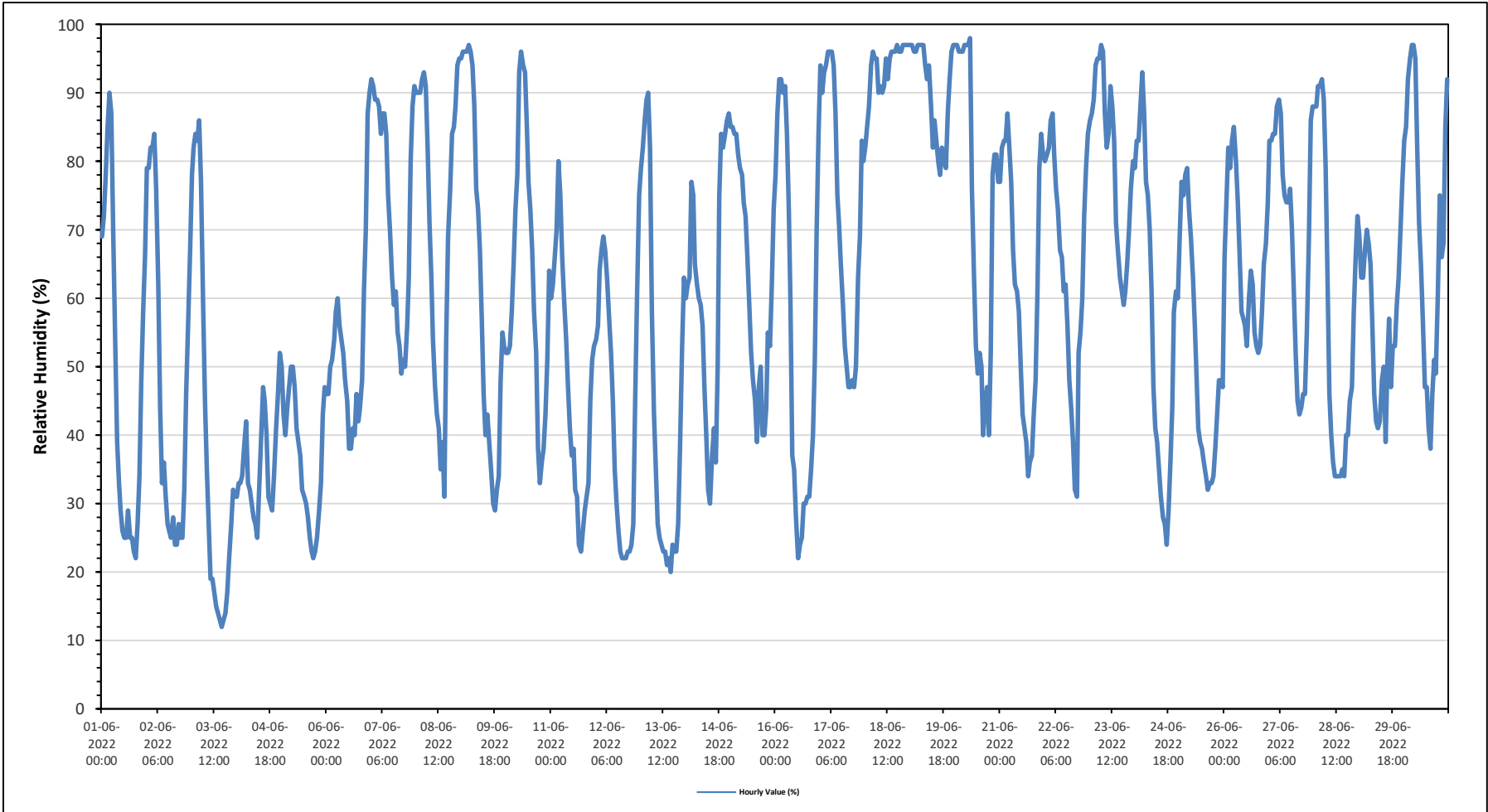
Maximum Hourly Value:	98 %	on June 20 at hour 8	Hours in Service:	720
Maximum Daily Value:	93.5 %	on June 18	Hours of Data:	720
Minimum Hourly Value:	12 %	on June 3 at hour 16	Hours of Missing Data:	0
Minimum Daily Value:	35.5 %	on June 4	Hours of Calibration:	0
Monthly Average:	60.2 %		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	69	72	78	85	90	87	70	53	39	33	29	26	25	25	29	25	25	23	22	27	34	48	58	66	22	90	47.4	
Jun 2	79	79	82	82	84	76	62	44	33	36	31	27	26	25	28	24	24	27	25	25	32	46	57	67	24	84	46.7	
Jun 3	78	82	84	83	86	77	59	45	35	27	19	19	17	15	14	13	12	13	14	17	22	27	32	31	12	86	38.4	
Jun 4	31	33	33	34	38	42	33	32	30	28	27	25	32	40	47	45	40	31	30	29	34	41	46	52	25	52	35.5	
Jun 5	50	43	40	44	47	50	50	47	41	39	37	32	31	30	28	25	23	22	23	25	29	33	43	47	22	50	36.6	
Jun 6	46	46	50	51	54	58	60	56	54	52	48	45	38	38	41	40	46	42	44	48	61	70	87	90	38	90	52.7	
Jun 7	92	91	89	89	88	84	87	87	84	75	70	63	59	61	55	53	49	51	50	56	63	80	88	91	49	92	73.1	
Jun 8	90	90	90	92	93	91	82	71	63	54	47	43	41	35	39	31	54	69	76	84	85	88	94	95	31	95	70.7	
Jun 9	95	96	96	96	97	96	94	88	76	73	67	57	46	40	43	39	35	30	29	32	34	48	55	53	29	97	63.1	
Jun 10	52	52	53	58	65	73	78	93	96	94	93	85	77	73	67	58	52	38	33	36	38	43	51	64	33	96	63.4	
Jun 11	60	62	66	70	80	75	66	60	54	47	41	37	38	32	31	24	23	26	29	31	33	45	51	53	23	80	47.3	
Jun 12	54	56	64	67	69	67	63	57	52	45	35	30	26	23	22	22	22	23	23	24	27	45	60	75	22	75	43.8	
Jun 13	79	82	86	89	90	82	58	43	35	27	25	24	23	23	21	22	20	24	23	23	27	38	53	63	20	90	45.0	
Jun 14	60	62	63	77	75	65	62	60	59	56	47	40	32	30	37	41	36	50	75	84	82	84	86	87	30	87	60.4	
Jun 15	85	85	84	84	81	79	78	74	72	66	59	52	48	45	39	47	50	40	40	44	55	53	62	73	39	85	62.3	
Jun 16	78	87	92	92	90	91	84	73	60	37	35	28	22	24	25	30	30	31	31	35	40	51	70	84	22	92	55.0	
Jun 17	94	90	93	94	96	96	96	94	87	75	71	65	59	53	50	47	47	48	47	50	63	69	83	80	47	96	72.8	
Jun 18	82	85	88	94	96	95	95	90	91	90	91	95	92	95	96	96	96	97	96	96	97	97	97	97	82	97	93.5	
Jun 19	97	97	96	96	97	97	97	97	94	92	94	88	82	86	83	80	78	82	80	79	87	92	96	97	78	97	90.2	
Jun 20	97	97	96	96	96	97	97	97	97	98	76	63	53	49	52	50	40	44	47	40	52	78	81	81	77	40	98	73.1
Jun 21	77	82	83	83	87	82	77	67	62	61	58	50	43	41	39	34	36	37	43	48	61	79	84	81	34	87	62.3	
Jun 22	80	81	82	86	87	81	76	73	67	66	61	62	56	48	44	39	32	31	52	55	60	72	79	84	31	87	64.8	
Jun 23	86	87	89	94	95	95	97	96	87	82	84	91	88	83	71	67	63	61	59	61	65	70	76	80	59	97	80.3	
Jun 24	79	83	83	88	93	87	77	75	70	61	47	41	39	35	31	28	27	24	29	36	44	58	61	60	24	93	56.5	
Jun 25	69	77	75	78	79	73	69	63	56	48	41	39	38	36	34	32	33	33	34	38	43	48	48	47	32	79	51.3	
Jun 26	66	74	82	79	83	85	80	74	66	58	57	56	53	60	64	62	55	53	52	53	58	65	68	74	52	85	65.7	
Jun 27	83	83	84	84	88	89	87	78	75	74	74	76	70	61	52	45	43	44	46	46	55	69	86	88	43	89	70.0	
Jun 28	88	88	91	91	92	89	79	63	46	40	36	34	34	34	35	34	34	40	40	45	47	58	66	72	34	92	57.3	
Jun 29	69	63	63	67	70	68	65	56	46	42	41	42	48	50	39	51	57	47	53	53	59	63	70	77	39	77	56.6	
Jun 30	83	85	92	95	97	97	95	82	71	65	57	47	47	41	38	46	51	49	61	75	66	68	85	92	38	97	70.2	
Diurnal Maximum	97	97	96	96	97	97	97	97	98	94	94	95	92	95	96	96	96	97	96	96	97	97	97	97	97	97	97	97
Diurnal Average	74.9	76.3	78.2	80.6	82.8	80.8	75.8	69.6	63.3	57.3	52.8	49.1	46.0	44.5	43.0	41.4	41.2	41.1	43.3	46.9	52.6	61.0	69.1	73.2				

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for RH - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

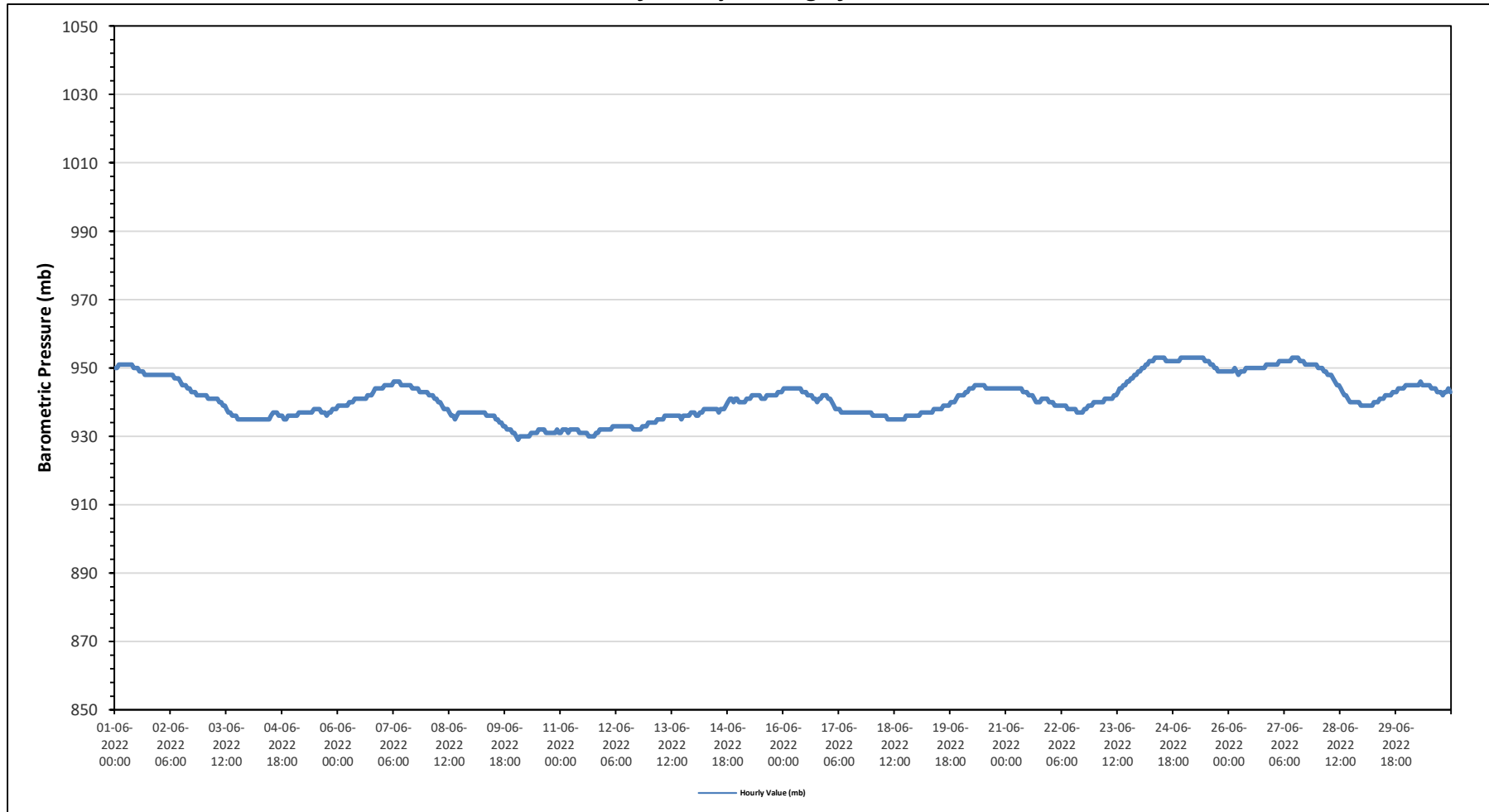
Maximum Hourly Value:	953	mb	on June 24 at hour 8	Hours in Service:	720
Maximum Daily Value:	952	mb	on June 24	Hours of Data:	720
Minimum Hourly Value:	929	mb	on June 10 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	931	mb	on June 10	Hours of Calibration:	0
Monthly Average:	941	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	950	950	951	951	951	951	951	951	951	951	950	950	950	949	949	949	948	948	948	948	948	948	948	948	948	948	951	950
Jun 2	948	948	948	948	948	948	948	948	947	947	947	946	945	945	944	944	943	943	943	942	942	942	942	942	942	942	948	945
Jun 3	942	942	941	941	941	941	941	941	940	940	939	939	938	937	937	936	936	936	935	935	935	935	935	935	935	935	942	938
Jun 4	935	935	935	935	935	935	935	935	935	935	935	935	936	937	937	937	936	936	936	935	935	936	936	936	936	936	937	936
Jun 5	936	936	936	937	937	937	937	937	937	937	937	938	938	938	938	937	937	937	936	937	937	938	938	938	938	936	938	937
Jun 6	939	939	939	939	939	939	940	940	940	941	941	941	941	941	941	942	942	942	943	944	944	944	944	944	944	939	944	941
Jun 7	944	945	945	945	945	945	946	946	946	946	945	945	945	945	945	944	944	944	944	943	943	943	943	943	943	943	946	945
Jun 8	943	942	942	942	941	941	940	940	939	938	938	938	937	936	936	935	936	937	937	937	937	937	937	937	937	935	943	938
Jun 9	937	937	937	937	937	937	937	936	936	936	936	936	935	935	934	934	933	933	932	932	932	931	931	931	931	931	937	935
Jun 10	930	929	930	930	930	930	930	930	930	931	931	931	932	932	932	932	931	931	931	931	931	931	931	931	931	929	932	931
Jun 11	931	932	932	932	931	932	932	932	932	932	931	931	931	931	931	930	930	930	930	931	931	932	932	932	932	930	932	931
Jun 12	932	932	932	932	933	933	933	933	933	933	933	933	933	933	933	932	932	932	932	932	933	933	933	933	934	932	934	933
Jun 13	934	934	934	934	934	935	935	935	935	936	936	936	936	936	936	936	936	935	936	936	936	936	936	937	937	934	937	936
Jun 14	937	936	936	937	937	938	938	938	938	938	938	938	938	937	938	938	938	938	939	940	941	941	940	941	941	936	941	938
Jun 15	940	940	940	940	941	941	941	942	942	942	942	942	941	941	941	942	942	942	942	942	943	943	943	943	940	943	942	942
Jun 16	944	944	944	944	944	944	944	944	944	944	943	943	943	942	942	942	941	941	940	941	941	942	942	942	940	944	943	943
Jun 17	941	941	940	939	938	938	938	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	941	938	938
Jun 18	936	936	936	936	936	936	936	936	935	935	935	935	935	935	935	935	935	935	936	936	936	936	936	936	935	936	936	936
Jun 19	936	936	937	937	937	937	937	937	937	938	938	938	938	938	939	939	939	939	940	940	940	941	942	942	936	942	938	938
Jun 20	942	942	943	943	944	944	944	945	945	945	945	945	944	944	944	944	944	944	944	944	944	944	944	944	942	945	944	944
Jun 21	944	944	944	944	944	944	944	944	944	943	943	943	942	942	942	941	940	940	940	941	941	941	941	940	940	944	942	942
Jun 22	940	940	939	939	939	939	939	939	939	938	938	938	938	937	937	937	937	938	938	939	939	939	940	937	940	939	940	939
Jun 23	940	940	940	940	940	941	941	941	941	941	942	942	943	944	944	945	945	946	946	947	948	948	949	940	949	949	943	943
Jun 24	949	950	950	951	951	952	952	952	953	953	953	953	953	953	952	952	952	952	952	952	952	952	952	953	953	949	953	952
Jun 25	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	951	951	950	950	949	949	949	949	949	949	949	953	951
Jun 26	949	949	949	950	949	948	949	949	949	950	950	950	950	950	950	950	950	950	950	951	951	951	951	951	948	951	950	950
Jun 27	951	951	951	952	952	952	952	952	952	952	953	953	953	953	952	952	952	951	951	951	951	951	951	951	951	951	953	952
Jun 28	950	950	950	949	949	948	948	948	947	946	945	945	944	943	942	942	941	940	940	940	940	940	940	939	939	950	944	944
Jun 29	939	939	939	939	939	939	940	940	940	941	941	941	942	942	942	942	943	943	943	944	944	944	945	939	945	945	941	941
Jun 30	945	945	945	945	945	945	945	946	945	945	945	945	944	944	944	944	943	943	943	944	943	943	944	943	942	946	944	944
Diurnal Maximum	953	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	952	952	952	952	952	952	953	953	949	953	952	
Diurnal Average	941	941	941	941	941	942	942	941	941	941	941	941	941	941	941	941	941	940	941	941	941	941	941	941	941	941	941	941

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for BP - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

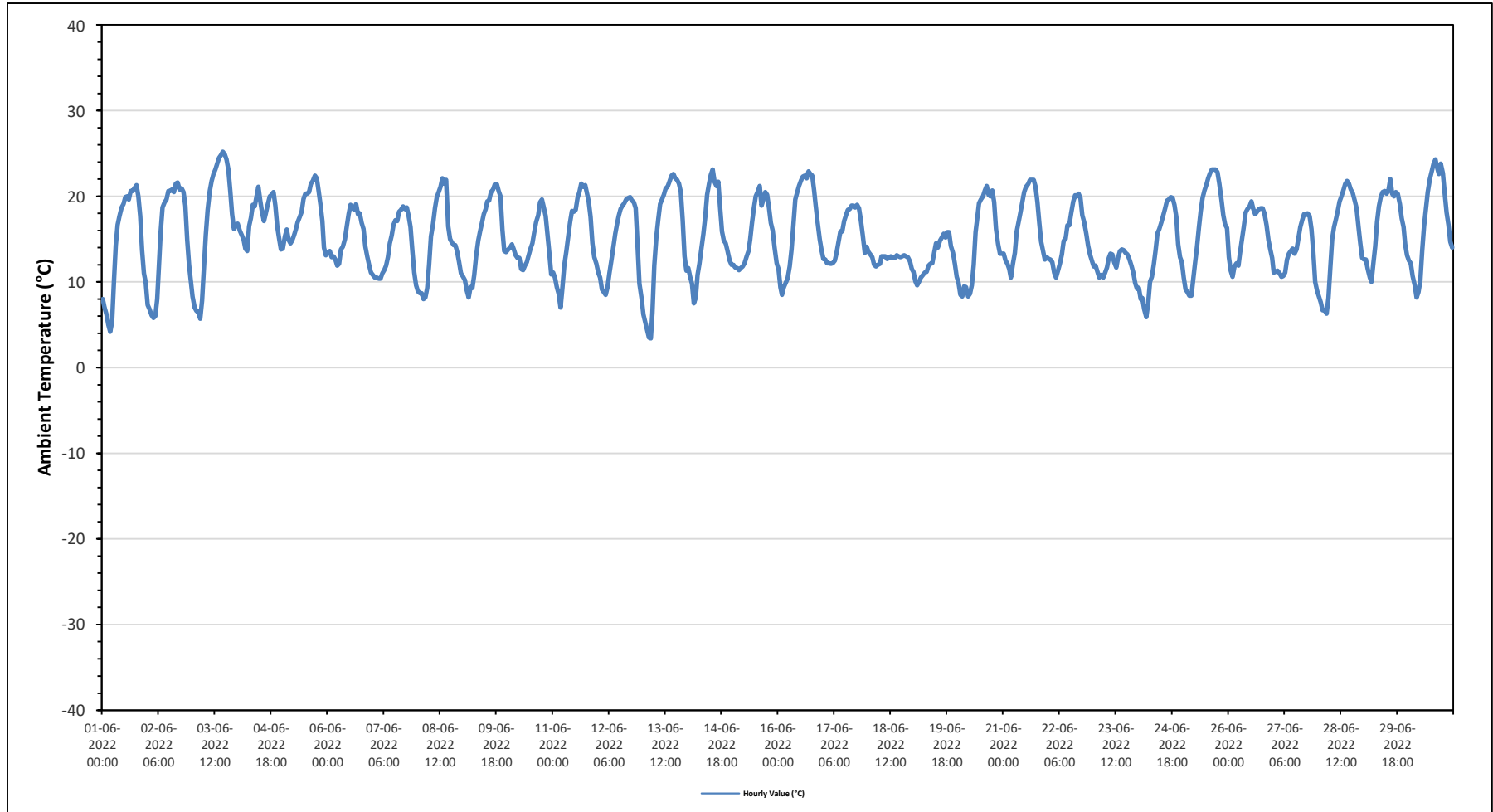
Maximum Hourly Value:	25.2 °C	on June 3 at hour 16	Hours in Service:	720
Maximum Daily Value:	17.8 °C	on June 5	Hours of Data:	720
Minimum Hourly Value:	3.4 °C	on June 13 at hour 4	Hours of Missing Data:	0
Minimum Daily Value:	12.0 °C	on June 23	Hours of Calibration:	0
Monthly Average:	15.3 °C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	8	7.1	6.2	5	4.2	5.3	10	14.3	16.7	17.7	18.7	19.1	19.9	20	19.6	20.6	20.6	20.9	21.3	20	17.7	13.7	11	9.9	4.2	21.3	14.5
Jun 2	7.3	6.8	6.1	5.8	6	8	12.2	15.8	18.7	19.3	19.6	20.6	20.8	20.5	21.5	21.6	20.8	20.9	20.5	18.9	14.9	12	10	5.8	21.6	15.4	
Jun 3	8.3	7	6.6	6.5	5.7	7.8	11.7	15.5	18.4	20.6	21.8	22.6	23.1	23.8	24.5	24.8	25.2	24.9	24.3	23.1	20.7	17.9	16.2	16.7	5.7	25.2	17.4
Jun 4	16.8	16	15.5	15	13.9	13.6	16.5	17.5	19	18.8	20.1	21.1	19.5	18.1	17.1	18	19	20	20.2	20.5	18.9	16.5	15.1	13.8	13.6	21.1	17.5
Jun 5	13.9	15.3	16.1	14.9	14.5	14.8	15.4	16.1	17	17.6	18.2	19.7	20.3	20.3	20.5	21.5	21.8	22.4	22.1	20.6	19	17.1	14	13.1	13.1	22.4	17.8
Jun 6	13.4	13.6	12.9	13	12.6	11.9	12.1	13.8	14.1	15	16.5	17.9	19	18.7	18.4	19.1	17.9	18	16.9	16.2	14.1	13	12	11.1	11.1	19.1	15.1
Jun 7	10.8	10.5	10.5	10.4	10.4	11	11.4	11.9	12.9	14.5	15.4	16.7	17.2	17.1	18.2	18.4	18.8	18.5	18.7	17.7	16.4	13.6	11.1	9.6	9.6	18.8	14.2
Jun 8	8.9	8.7	8.7	8	8.2	9.3	12	15.3	16.8	18.6	19.9	20.5	21.1	22.1	21.5	21.9	16.5	15	14.6	14.3	14.3	13.5	12.3	11	8.0	22.1	14.7
Jun 9	10.6	10.2	9	8.2	9.4	9.3	10.8	13	14.8	15.9	16.9	17.9	18.5	19.4	19.5	20.5	20.8	21.4	21.4	20.6	20	16.1	13.6	13.5	8.2	21.4	15.5
Jun 10	13.8	14	14.4	13.8	13.1	12.8	12.8	11.5	11.4	11.9	12.3	13.1	13.9	14.5	15.8	17	17.8	19.3	19.6	18.7	17.7	15.5	13.3	10.9	10.9	19.6	14.5
Jun 11	11.1	10.5	9.4	8.6	7	9.3	11.9	13.6	15.3	17	18.3	18.2	18.4	19.8	20.5	21.5	21.1	21.3	20.4	19.4	17.6	14.5	12.9	12.1	7.0	21.5	15.4
Jun 12	11.1	10.5	9.1	8.8	8.5	9.4	11	12.6	14.1	15.6	16.8	17.7	18.5	18.9	19.2	19.7	19.8	19.9	19.5	19.3	18.6	14.3	9.8	8.1	8.1	19.9	14.6
Jun 13	6.2	5.3	4.4	3.5	3.4	6.4	11.9	15.3	17.3	19.1	19.6	20.2	20.9	21.1	21.7	22.4	22.6	22.1	21.9	21.5	20.5	17.2	13	11.3	3.4	22.6	15.4
Jun 14	11.6	10.6	9.8	7.5	8.1	10.8	12.1	14	15.6	17.6	20.2	21.4	22.5	23.1	21.7	21.2	21.7	18.7	15.9	14.8	14.5	13.6	12.5	12	7.5	23.1	15.5
Jun 15	12	11.7	11.6	11.4	11.6	11.8	12.2	13	13.6	14.9	16.9	18.6	20	20.5	21.2	18.9	19.6	20.5	20.2	18.7	16.9	16	14	12.2	11.4	21.2	15.8
Jun 16	11.5	9.4	8.5	9.4	9.9	10.4	11.8	13.8	16.7	19.6	20.4	21.2	21.8	22.3	22.4	22.1	22.9	22.6	22.4	20.7	18.9	17	15	13.7	8.5	22.9	16.9
Jun 17	12.7	12.6	12.2	12.2	12.1	12.2	12.5	13.5	14.7	15.9	15.9	17.1	17.8	18.4	18.5	18.9	18.9	18.7	19	18.6	17.2	15.5	13.4	14.1	12.1	19.0	15.5
Jun 18	13.5	13.2	12.9	12	11.8	12	12.1	13	13	13	12.7	12.8	13	12.8	12.8	13.1	13	12.9	13	13.1	13	12.9	12.4	11.5	11.5	13.5	12.7
Jun 19	11.2	10.1	9.6	10	10.5	10.8	11.1	11.2	11.9	12.1	12.2	13.4	14.5	14	14.8	15.2	15.6	15.2	15.8	15.8	14.2	13.4	12.1	10.6	9.6	15.8	12.7
Jun 20	9.9	8.5	8.3	9.5	9.4	8.3	8.6	9.6	12	15.8	17.6	19.2	19.6	20	20.7	21.2	20.2	20	20.7	19.3	16.2	14.4	13.3	13.3	8.3	21.2	14.8
Jun 21	13.3	12.5	12.1	11.5	10.5	12.2	13.4	15.9	17	18.1	19.3	20.5	21.1	21.4	21.9	21.9	21.9	21.1	19.3	16.9	14.7	13.5	12.6	12.9	10.5	21.9	16.5
Jun 22	12.7	12.6	12.3	11.1	10.5	11.4	12.2	13.2	14.8	15	16.6	16.6	18	19.4	20.1	20	20.3	19.8	17.8	17	15.6	14.2	13.2	12.5	10.5	20.3	15.3
Jun 23	11.8	11.9	11.2	10.5	10.8	10.5	11.1	11.7	12.8	13.3	13.2	12.3	11.7	12.9	13.6	13.8	13.7	13.4	13.2	12.7	11.9	11.1	9.9	9.2	9.2	13.8	12.0
Jun 24	9.3	8	8.1	6.8	5.9	7.5	10	10.6	12	13.7	15.7	16.2	17	17.8	18.6	19.5	19.6	19.9	19.8	19	17.6	14.4	12.9	12.3	5.9	19.9	13.8
Jun 25	10.5	9.1	8.8	8.4	8.4	10.4	12.3	14.1	16.3	18.3	19.8	20.7	21.4	22.1	22.7	23.1	23.1	23.1	22.8	21.5	19.6	17.8	16.7	16.3	8.4	23.1	17.0
Jun 26	12.9	11.3	10.6	11.8	12.2	11.9	13.4	14.9	16.4	18.1	18.5	18.8	19.4	18.5	17.9	18.2	18.5	18.6	18.6	18	16.6	14.9	13.8	12.8	10.6	19.4	15.7
Jun 27	11.1	11.2	11.3	11	10.6	10.7	11.1	12.6	13.3	13.6	13.9	13.3	13.8	15.1	16.4	17.2	17.9	17.8	18	17.7	16.2	13.5	10	9	9.0	18.0	13.6
Jun 28	8.3	7.6	6.7	6.7	6.3	8.1	11.6	15	16.4	17.3	18.3	19.4	20	20.7	21.4	21.8	21.5	20.8	20.4	19.5	18.6	16.5	14.5	12.8	6.3	21.8	15.4
Jun 29	12.6	12.6	11.5	10.5	10	12.1	14.1	17	18.8	19.9	20.5	20.6	20.3	20.7	22	20.3	20	20.5	20.3	19.1	17.4	16.4	14.4	13.1	10.0	22.0	16.9
Jun 30	12.5	12.2	10.7	9.6	8.2	8.8	10.1	13.6	16.5	18.5	20.5	22	22.9	23.8	24.3	23.4	22.6	23.8	22.7	20.3	18.1	16.7	14.7	14	8.2	24.3	17.1
Diurnal Maximum	16.8	16.0	16.1	15.0	14.5	14.8	16.5	17.5	19.0	20.6	21.8	22.6	23.1	23.8	24.5	24.8	25.2	24.9	24.3	23.1	20.7	17.9	16.7	16.7			
Diurnal Average	11.3	10.7	10.2	9.7	9.5	10.3	12.0	13.8	15.3	16.5	17.5	18.3	18.9	19.3	19.6	19.9	19.8	19.7	19.4	18.5	17.1	15.0	13.1	12.1			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for AT - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

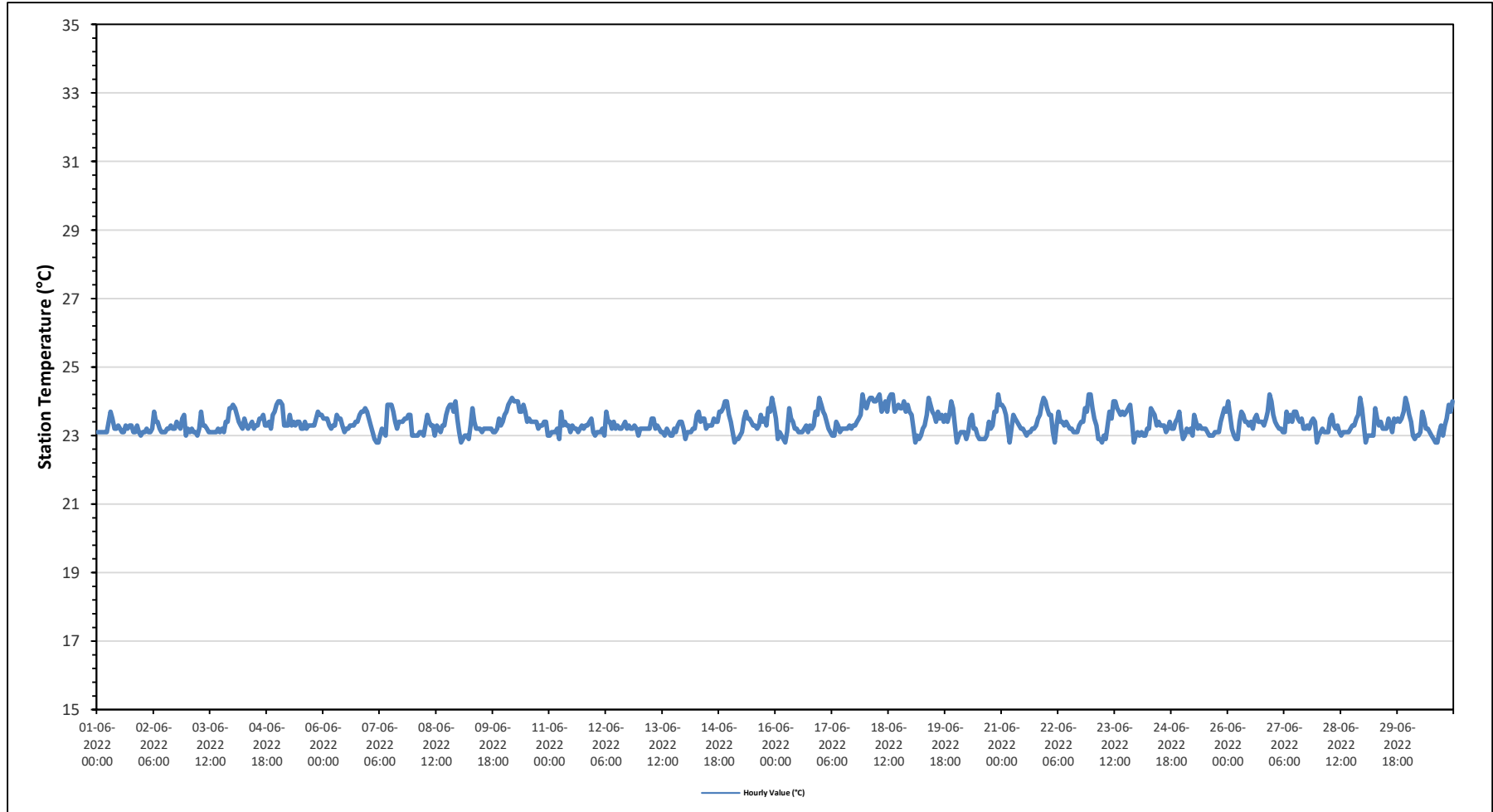
Maximum Hourly Value:	24.2 °C	on June 17 at hour 22	Hours in Service:	720
Maximum Daily Value:	23.9 °C	on June 18	Hours of Data:	720
Minimum Hourly Value:	22.8 °C	on June 7 at hour 4	Hours of Missing Data:	0
Minimum Daily Value:	23.2 °C	on June 9	Hours of Calibration:	0
Monthly Average:	23.4 °C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	23.1	23.1	23.1	23.1	23.1	23.1	23.4	23.7	23.5	23.2	23.2	23.3	23.2	23.1	23.1	23.3	23.2	23.3	23.3	23.1	23.1	23.3	23.1	23.0	23.0	23.7	23.2	
Jun 2	23.1	23.1	23.2	23.1	23.1	23.2	23.7	23.4	23.4	23.2	23.1	23.1	23.1	23.2	23.2	23.3	23.2	23.2	23.4	23.3	23.2	23.5	23.6	23.0	23.0	23.7	23.2	
Jun 3	23.2	23.1	23.2	23.1	23.1	23.0	23.2	23.7	23.3	23.3	23.2	23.1	23.1	23.1	23.1	23.2	23.1	23.2	23.1	23.4	23.4	23.8	23.8	23.0	23.8	23.8	23.2	
Jun 4	23.9	23.8	23.6	23.4	23.3	23.2	23.5	23.3	23.2	23.3	23.4	23.2	23.3	23.3	23.5	23.5	23.6	23.3	23.3	23.4	23.2	23.6	23.7	23.9	23.2	23.9	23.4	
Jun 5	24.0	24.0	23.9	23.3	23.3	23.3	23.6	23.3	23.4	23.3	23.4	23.4	23.2	23.2	23.4	23.2	23.3	23.3	23.3	23.3	23.5	23.7	23.6	23.6	23.2	24.0	23.5	
Jun 6	23.5	23.5	23.5	23.3	23.2	23.3	23.3	23.6	23.5	23.5	23.3	23.1	23.2	23.2	23.3	23.3	23.3	23.4	23.4	23.6	23.7	23.7	23.8	23.7	23.1	23.8	23.4	
Jun 7	23.5	23.3	23.1	22.9	22.8	22.8	23.0	23.2	23.1	23.0	23.9	23.9	23.9	23.7	23.4	23.2	23.4	23.4	23.4	23.5	23.5	23.6	23.6	23.0	22.8	23.9	23.3	
Jun 8	23.0	23.0	23.0	23.1	23.1	23.0	23.3	23.6	23.4	23.3	23.3	23.0	23.3	23.2	23.1	23.3	23.3	23.6	23.8	23.9	23.9	23.7	24.0	23.5	23.0	24.0	23.4	
Jun 9	23.1	22.8	22.9	23.0	23.0	22.9	23.3	23.8	23.4	23.2	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.2	23.1	23.1	23.2	23.5	23.3	23.4	22.8	23.8	23.2	
Jun 10	23.6	23.7	23.9	24.0	24.1	24.0	24.0	24.0	24.0	23.7	23.7	23.9	23.7	23.4	23.5	23.4	23.4	23.4	23.2	23.3	23.3	23.4	23.4	23.0	23.0	24.1	23.6	
Jun 11	23.0	23.1	23.1	23.1	23.2	22.9	23.7	23.3	23.4	23.3	23.3	23.1	23.3	23.2	23.2	23.1	23.2	23.3	23.2	23.3	23.3	23.4	23.5	23.1	22.9	23.7	23.2	
Jun 12	23.0	23.1	23.1	23.1	23.2	23.0	23.7	23.4	23.2	23.4	23.2	23.4	23.2	23.2	23.2	23.3	23.4	23.2	23.3	23.2	23.2	23.3	23.2	23.0	23.0	23.7	23.2	
Jun 13	23.2	23.2	23.2	23.2	23.2	23.2	23.5	23.5	23.4	23.2	23.2	23.2	23.1	23.0	23.2	23.1	23.0	23.0	23.2	23.1	23.3	23.4	23.4	23.2	23.0	23.5	23.2	
Jun 14	22.9	23.1	23.1	23.1	23.2	23.2	23.6	23.7	23.4	23.5	23.5	23.2	23.3	23.3	23.3	23.5	23.4	23.4	23.7	23.7	23.8	24.0	24.0	23.6	22.9	24.0	23.4	
Jun 15	23.4	23.1	22.8	22.9	22.9	23.0	23.1	23.5	23.7	23.5	23.5	23.4	23.3	23.3	23.2	23.3	23.6	23.4	23.5	23.3	23.8	23.7	24.1	23.8	22.8	24.1	23.4	
Jun 16	23.5	22.9	23.1	23.0	22.9	22.8	23.1	23.8	23.5	23.4	23.2	23.2	23.1	23.1	23.1	23.2	23.3	23.1	23.3	23.2	23.3	23.7	23.6	24.1	22.8	24.1	23.3	
Jun 17	23.9	23.7	23.6	23.4	23.2	23.1	23.0	23.0	23.4	23.3	23.1	23.2	23.2	23.2	23.2	23.3	23.2	23.3	23.3	23.4	23.5	23.6	24.2	23.9	23.0	24.2	23.4	
Jun 18	23.8	24.0	24.1	24.1	24.0	24.0	24.1	24.2	23.7	23.8	24.0	23.7	24.1	24.2	24.2	23.7	23.8	23.9	23.8	23.8	24.0	23.7	23.9	23.7	23.7	24.2	23.9	
Jun 19	23.6	23.2	22.8	23.0	22.9	23.0	23.2	23.3	23.6	24.1	23.9	23.7	23.6	23.4	23.7	23.5	23.6	23.4	23.6	23.4	23.6	24.0	23.8	23.3	22.8	24.1	23.5	
Jun 20	22.8	23.0	23.1	23.1	23.1	22.9	23.1	23.5	23.6	23.2	23.2	23.0	22.9	22.9	22.9	22.9	23.0	23.4	23.2	23.3	23.7	23.7	24.2	23.9	22.8	24.2	23.2	
Jun 21	23.9	23.8	23.6	23.2	22.8	23.2	23.6	23.5	23.4	23.3	23.2	23.2	23.1	23.0	23.1	23.1	23.2	23.2	23.3	23.5	23.6	23.9	24.1	24.0	22.8	24.1	23.4	
Jun 22	23.8	23.6	23.6	23.1	22.8	23.3	23.7	23.4	23.3	23.4	23.3	23.2	23.2	23.1	23.1	23.1	23.3	23.4	23.4	23.8	23.7	24.2	24.2	22.8	24.2	23.4		
Jun 23	23.8	23.5	23.3	22.9	22.8	23.0	22.9	23.3	23.3	23.7	23.5	24.0	24.0	23.8	23.7	23.6	23.7	23.6	23.7	23.8	23.9	23.4	22.8	23.0	22.8	24.0	23.4	
Jun 24	23.1	23.0	23.1	23.0	23.0	23.2	23.2	23.8	23.7	23.6	23.3	23.4	23.3	23.3	23.3	23.1	23.2	23.4	23.2	23.2	23.4	23.5	23.7	23.2	23.0	23.8	23.3	
Jun 25	22.9	23.0	23.2	23.1	23.2	23.0	23.6	23.4	23.2	23.3	23.2	23.2	23.2	23.1	23.0	23.0	23.0	23.1	23.1	23.1	23.1	23.4	23.6	23.8	23.7	22.9	23.8	23.2
Jun 26	24.0	23.6	23.2	23.0	22.9	22.9	23.4	23.7	23.6	23.4	23.4	23.3	23.4	23.2	23.5	23.6	23.4	23.4	23.4	23.3	23.5	23.7	24.2	24.0	22.9	24.2	23.5	
Jun 27	23.6	23.4	23.3	23.2	23.2	23.1	23.1	23.7	23.4	23.6	23.4	23.7	23.7	23.5	23.4	23.5	23.2	23.2	23.3	23.2	23.4	23.5	23.4	22.8	22.8	23.7	23.4	
Jun 28	23.0	23.1	23.2	23.1	23.1	23.1	23.5	23.6	23.3	23.2	23.3	23.1	23.0	23.1	23.1	23.1	23.1	23.2	23.3	23.3	23.5	23.6	24.1	23.8	23.0	24.1	23.3	
Jun 29	23.3	22.8	23.0	23.0	23.0	23.0	23.8	23.5	23.3	23.4	23.2	23.2	23.2	23.5	23.3	23.1	23.5	23.4	23.5	23.4	23.5	23.7	24.1	23.9	22.8	24.1	23.4	
Jun 30	23.6	23.4	23.0	22.9	23.0	23.0	23.1	23.7	23.5	23.2	23.2	23.1	23.0	22.9	22.8	22.8	23.1	23.3	23.0	23.3	23.5	23.9	23.7	24.0	22.8	24.0	23.3	
Diurnal Maximum	24.0	24.0	24.1	24.1	24.1	24.0	24.1	24.2	23.7	24.1	24.0	24.1	24.2	24.2	23.7	23.8	23.9	23.8	23.9	24.0	24.0	24.2	24.2					
Diurnal Average	23.4	23.3	23.3	23.2	23.1	23.4	23.4	23.5	23.4	23.4	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.5	23.6	23.7	23.5				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for ST - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

PRECIPITATION in mm

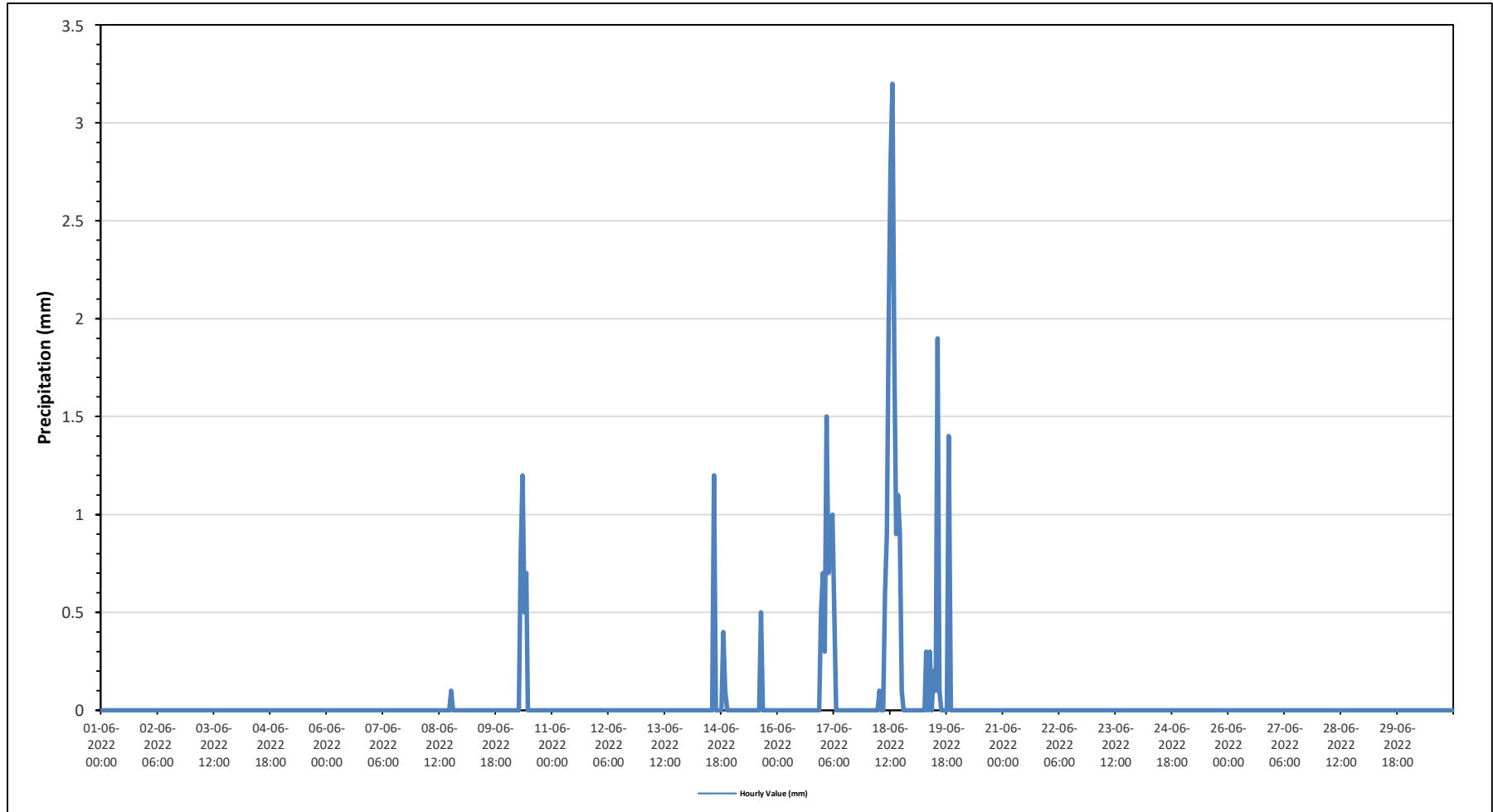
Maximum Hourly Value:	3.2 mm on June 18 at hour 13	Hours in Service:	720
Maximum Daily Value:	14.4 mm on June 18	Hours of Data:	720
Minimum Hourly Value:	0.0 mm on June 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 mm on June 1	Hours of Calibration:	0
Monthly Total:	30.3 mm	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.0	0.1	0.1
Jun 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 10	0	0	0	0	0	0	0	0.8	1.2	0.5	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.2	3.2
Jun 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0.4	0.1	0	0	0.0	1.2	1.7
Jun 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.0	0.5	0.5
Jun 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.0	0.5	0.5
Jun 17	0.7	0.3	1.5	0.7	0.9	1	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.5	5.6
Jun 18	0	0	0	0	0	0	0.1	0	0	0.6	0.9	2	2.8	3.2	1.8	0.9	1.1	0.9	0.1	0	0	0	0	0	0.0	3.2	14.4
Jun 19	0	0	0	0	0	0	0	0.3	0	0.3	0	0.2	0.1	1.9	0.1	0	0	0	0	1.4	0	0	0	0	0.0	1.9	4.3
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.7	0.3	1.5	0.7	0.9	1.0	0.5	0.8	1.2	0.6	0.9	2.0	2.8	3.2	1.8	0.9	1.1	0.9	0.1	1.4	0.1	0.0	0.0	0.5			
Diurnal Average	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0				

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for Precipitation - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

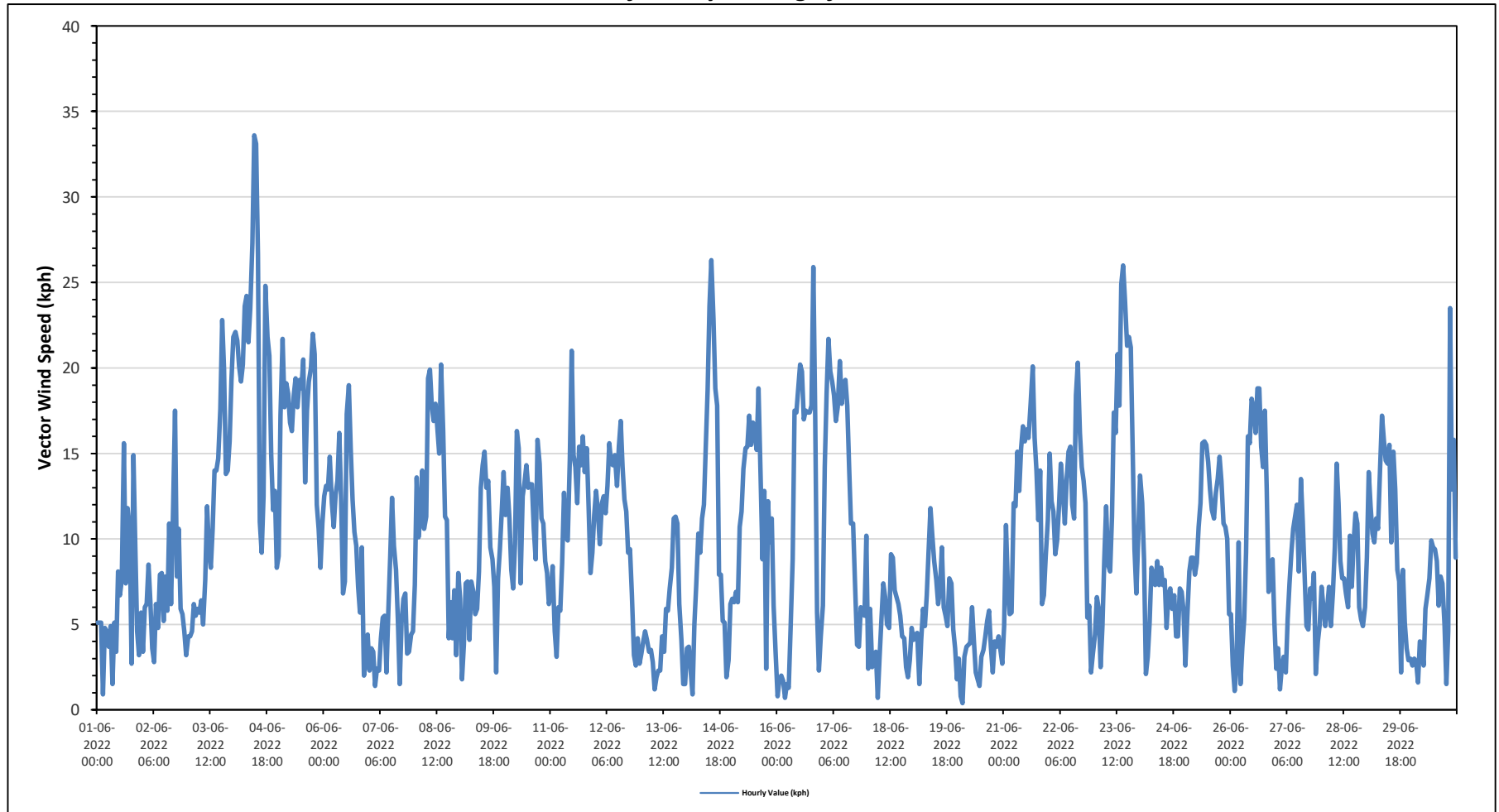
Maximum Hourly Value:	33.6 kph	on June 4 at hour 11	Hours in Service:	720
Maximum Daily Value:	18.1 kph	on June 4	Hours of Data:	720
Minimum Hourly Value:	0.4 kph	on June 20 at hour 2	Hours of Missing Data:	0
Minimum Daily Value:	0.4 kph	on June 20	Hours of Calibration:	0
Monthly Average:	1.6 kph		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	5.1	5.1	5.1	0.9	4.8	4.6	3.7	4.9	1.5	5.1	3.4	8.1	6.7	7.6	15.6	7.4	11.8	10.5	2.7	14.9	9.6	4.6	3.2	5.7	0.9	15.6	5.3
Jun 2	3.4	6.0	6.2	8.5	6.3	3.6	2.8	6.2	4.8	7.9	8.0	5.2	7.8	5.8	10.9	6.2	12.0	17.5	7.8	10.6	5.9	5.6	4.6	3.2	2.8	17.5	2.8
Jun 3	4.3	4.3	4.6	6.2	5.5	5.9	5.7	6.4	5.0	7.6	11.9	9.4	8.3	10.6	14.0	14.0	14.7	17.6	22.8	19.9	13.8	14.0	15.7	19.3	4.3	22.8	10.4
Jun 4	21.8	22.1	21.6	20.1	19.2	20.2	23.6	24.2	21.5	23.5	27.3	33.6	33.1	26.6	11.0	9.2	12.5	24.8	21.8	20.7	14.9	11.7	12.8	8.3	8.3	33.6	18.1
Jun 5	9.0	17.2	21.7	17.7	19.1	18.5	16.8	16.3	18.4	19.4	17.7	19.3	18.8	20.5	13.3	17.5	19.2	20.0	22.0	20.8	12.0	10.6	8.3	10.9	8.3	22.0	16.0
Jun 6	12.5	13.1	12.9	14.8	12.1	10.7	12.6	13.4	16.2	12.2	6.8	7.5	17.3	19.0	15.3	12.3	10.4	9.6	7.2	5.7	9.5	2.0	2.9	4.4	2.0	19.0	6.9
Jun 7	2.3	3.6	3.4	1.4	2.4	2.3	4.2	5.4	5.5	2.2	5.8	8.9	12.4	9.6	8.2	5.3	1.5	5.1	6.5	6.8	3.3	3.4	4.4	4.6	1.4	12.4	4.5
Jun 8	7.3	13.6	10.1	11.3	14.0	10.6	11.3	19.4	19.9	17.8	16.9	17.9	16.5	15.0	20.2	16.3	11.3	11.1	4.2	6.3	4.2	7.0	3.2	8.0	3.2	20.2	9.8
Jun 9	6.5	1.8	3.8	7.4	7.5	4.1	7.5	6.9	5.6	5.9	8.1	13.0	14.3	15.1	13.0	13.4	9.5	8.8	7.2	2.2	7.7	9.4	11.6	13.9	1.8	15.1	5.4
Jun 10	11.4	13.0	11.2	8.2	7.1	9.7	16.3	15.3	7.4	12.5	13.3	14.3	13.0	13.2	13.2	10.6	8.8	15.8	14.4	11.2	10.9	8.7	8.0	6.2	6.2	16.3	7.5
Jun 11	6.8	8.4	4.6	3.1	6.0	5.8	8.6	12.7	10.1	9.9	14.7	21.0	14.9	14.2	12.1	15.4	14.3	16.0	13.9	15.3	11.8	8.0	9.2	11.4	3.1	21.0	10.5
Jun 12	12.8	11.6	9.7	12.1	12.5	11.5	13.1	15.6	14.4	14.3	14.9	13.1	15.4	16.9	14.2	12.3	11.6	9.2	9.4	6.8	3.2	2.6	4.2	2.7	2.6	16.9	10.2
Jun 13	3.3	4.0	4.6	4.1	3.4	3.5	2.8	1.2	1.9	2.3	2.3	4.3	3.4	5.9	5.8	7.1	8.3	11.2	11.3	10.9	6.2	4.1	1.5	1.5	1.2	11.3	2.5
Jun 14	3.6	3.7	2.3	0.9	5.0	7.3	10.3	9.2	11.2	12.0	15.4	18.7	23.6	26.3	22.9	18.8	17.8	7.9	7.9	5.2	5.1	1.9	2.9	6.2	0.9	26.3	8.4
Jun 15	6.5	6.3	6.9	6.3	10.7	11.6	14.1	15.3	15.4	17.2	15.5	16.8	16.2	15.2	18.8	13.6	8.8	12.8	2.4	12.2	9.8	11.2	6.1	3.2	2.4	18.8	10.9
Jun 16	0.8	1.8	2.0	1.7	0.7	1.5	1.3	4.7	8.8	17.5	17.4	18.8	20.2	19.8	17.0	17.5	17.4	17.4	17.8	25.9	17.2	5.7	2.3	4.3	0.7	25.9	9.4
Jun 17	6.1	14.2	18.5	21.7	19.8	19.2	18.4	16.9	17.7	20.4	17.9	19.1	19.3	17.8	14.2	10.9	10.9	7.5	3.8	3.7	6.0	5.8	5.5	10.2	3.7	21.7	8.2
Jun 18	2.4	5.9	2.5	2.8	3.4	0.7	3.1	5.3	7.4	6.6	5.0	4.8	9.1	8.9	7.0	6.6	6.2	5.5	4.3	4.2	2.5	1.9	2.9	4.8	0.7	9.1	2.2
Jun 19	4.1	4.4	4.5	1.5	4.1	5.9	4.9	6.7	9.3	11.8	10.2	8.7	7.6	6.2	7.1	9.5	6.0	5.5	4.9	7.7	7.4	4.7	3.6	1.8	1.5	11.8	4.5
Jun 20	3.0	0.8	0.4	3.1	3.7	3.8	3.9	6.0	4.0	2.2	1.8	1.4	3.1	3.5	4.3	5.2	5.8	3.7	2.2	4.0	3.7	4.3	3.5	2.7	0.4	6.0	0.4
Jun 21	4.9	10.8	7.2	5.6	5.7	12.1	11.9	15.1	12.8	15.3	16.6	15.7	16.4	15.9	17.9	20.1	15.9	14.0	11.1	14.0	6.2	6.7	9.0	11.1	4.9	20.1	9.5
Jun 22	15.0	12.2	11.6	9.1	9.9	11.9	14.4	12.7	10.9	13.5	15.1	15.4	12.0	11.2	18.4	20.3	16.2	14.2	13.4	12.1	5.4	6.1	2.2	3.3	2.2	20.3	8.6
Jun 23	4.4	6.6	5.9	2.5	4.9	8.8	11.9	8.5	8.1	11.3	17.4	16.2	20.8	17.8	24.9	26.0	24.0	21.3	21.8	21.2	15.3	9.4	6.8	10.0	2.5	26.0	13.1
Jun 24	13.7	12.1	8.8	2.1	3.1	5.1	8.3	7.9	7.3	8.7	7.3	8.3	7.3	7.6	4.8	6.7	7.1	5.9	6.7	4.3	4.3	7.1	6.9	5.8	2.1	13.7	4.8
Jun 25	2.6	5.4	8.1	8.9	8.9	7.9	8.6	10.7	12.1	15.6	15.7	15.5	14.5	12.9	11.7	11.2	12.7	13.5	14.8	13.4	10.9	10.7	10.0	5.6	2.6	15.7	10.5
Jun 26	5.6	2.6	1.1	2.6	9.8	1.5	3.7	5.3	9.2	16.0	15.6	18.2	17.6	16.2	18.8	18.8	15.4	14.2	17.5	12.9	6.9	8.6	8.8	5.1	1.1	18.8	8.7
Jun 27	2.4	3.6	1.2	2.5	3.1	2.2	5.3	7.4	9.2	10.6	11.3	12.0	8.1	13.5	11.0	7.9	4.9	4.7	7.1	6.5	8.0	2.1	4.0	5.0	1.2	13.5	4.6
Jun 28	7.2	6.0	4.9	5.9	7.2	4.9	6.9	9.5	14.4	12.1	8.7	7.7	7.7	6.8	6.0	10.2	7.2	9.8	11.5	10.9	6.0	5.3	4.9	6.0	4.9	14.4	6.6
Jun 29	8.9	13.9	11.9	10.3	9.8	11.2	10.6	14.2	17.2	15.8	14.6	14.4	15.5	9.8	15.1	12.9	8.2	7.5	2.2	8.2	5.1	3.6	2.9	3.0	2.2	17.2	7.7
Jun 30	2.6	3.0	2.8	1.6	4.0	3.9	2.6	5.9	6.7	7.7	9.9	9.5	9.4	8.7	6.1	7.8	7.4	5.0	1.5	4.6	23.5	12.9	15.8	8.9	1.5	23.5	1.8
Diurnal Maximum	22	22	22	22	20	20	24	24	22	24	27	34	33	27	25	26	24	25	23	26	24	14	16	19			
Diurnal Average	6.7	7.9	7.3	6.8	7.8	7.7	9.0	10.3	10.5	11.8	12.2	13.2	13.7	13.3	13.1	12.4	11.3	11.6	10.1	10.8	8.5	6.7	6.3	6.6			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

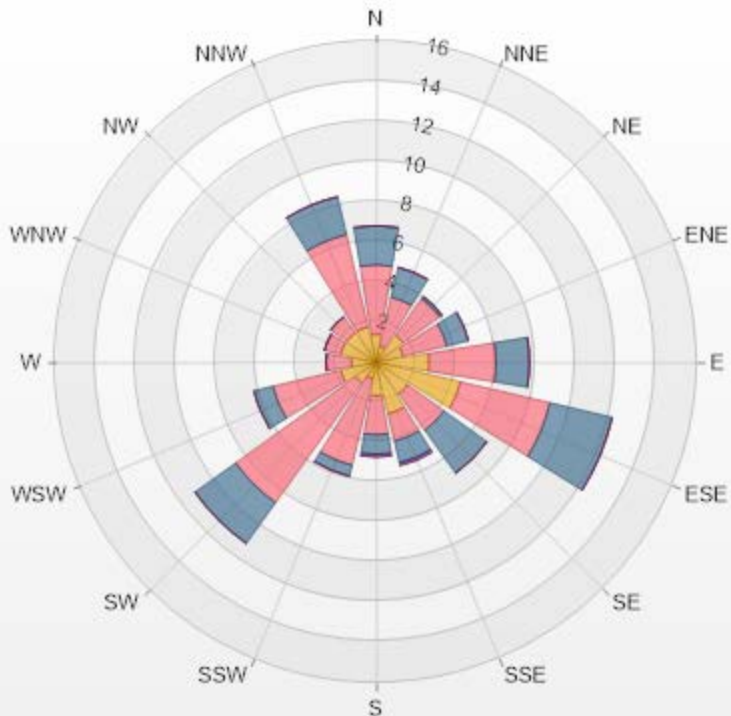
Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 06-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.

Calm: 3.47% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.39	3.47	1.94	0	0	6.8
NNE	0.83	2.5	1.53	0	0	4.86
NE	1.67	2.22	0.14	0	0	4.03
ENE	1.39	2.22	1.11	0	0	4.72
E	2.64	3.33	1.67	0	0	7.64
ESE	4.31	4.58	3.19	0	0	12.08
SE	1.94	2.22	2.64	0	0	6.8
SSE	2.64	1.39	1.11	0.14	0	5.28
S	1.67	1.94	0.97	0.14	0	4.72
SSW	0.83	4.44	0.56	0	0	5.83
SW	1.25	7.36	2.5	0	0	11.11
WSW	1.81	3.47	0.97	0	0	6.25
W	1.25	1.25	0	0	0	2.5
WNW	1.81	0.83	0	0	0	2.64
NW	1.81	0.97	0	0	0	2.78
NNW	1.81	4.72	1.94	0	0	8.47
Summary	29.05	46.91	20.27	0.28	0	96.51



PRAMP-202206

Page 68 of 276

% Icon Classes (KPH)

29

1.8-6.0

47

6.0-15.0

20

15.0-29.0

0

29.0-39.0

0

>39.0



PEACE RIVER AREA MONITORING PROGRAM

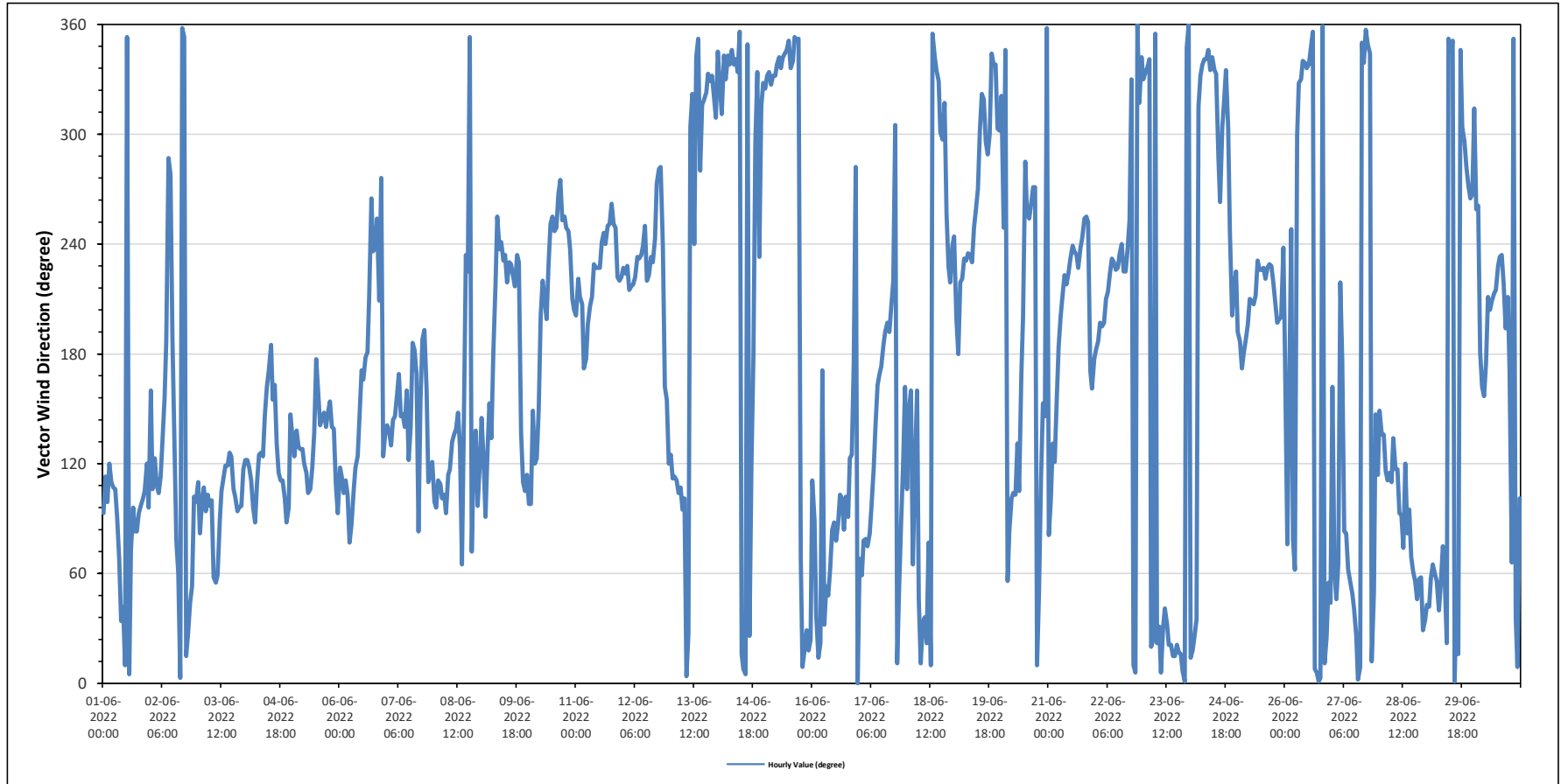
986c Station - June 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		130 (SE) degree														Hours in Service:		720																	
																Hours of Data:		720																	
																Hours of Missing Data:		0																	
																Hours of Calibration:		0																	
																Operational Uptime:		100.0																	
Day	Hourly Period Starting at (MST)																							Daily Average											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant									
Jun 1	E	ESE	E	ESE	ESE	ESE	ESE	E	ENE	NE	NE	N	N	N	ENE	E	E	E	E	E	ESE	ESE	E	80	E										
Jun 2	SSE	ESE	ESE	ESE	ESE	ESE	SE	SSE	S	WNW	W	S	SE	ENE	ENE	N	N	N	NNE	NNE	NE	NE	E	E	61	ENE									
Jun 3	ESE	E	E	ESE	E	ESE	E	E	ENE	NE	ENE	E	ESE	ESE	ESE	SE	ESE	ESE	E	E	E	E	E	ESE	103	ESE									
Jun 4	ESE	ESE	ESE	ESE	E	E	ESE	SE	SE	ESE	SE	SSE	S	S	SSE	SSE	SE	ESE	ESE	ESE	E	E	E	SE	128	SE									
Jun 5	SE	ESE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	SE	S	SSE	SE	SE	SE	SE	SSE	SE	SE	ESE	E	134	SE										
Jun 6	ESE	ESE	ESE	ESE	ESE	ENE	E	ESE	ESE	ESE	SE	S	SSE	S	S	SSW	W	SW	SW	WSW	SSW	W	ESE	SE	146	SE									
Jun 7	SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SE	SSE	ESE	SE	S	S	SSE	E	SSE	S	S	SSE	ESE	ESE	ESE	153	SSE									
Jun 8	E	E	ESE	ESE	E	ESE	E	ESE	ESE	SE	SE	SE	SE	ENE	SE	SW	SW	N	ENE	ESE	SE	E	ESE	120	ESE										
Jun 9	SE	ESE	E	SE	SSE	SE	S	SW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SE	ESE	ESE	ESE	195	SSW									
Jun 10	E	E	SSE	ESE	ESE	SSE	SSW	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	SW	SSW	SSW	221	SW									
Jun 11	SSW	SW	SSW	SSW	S	S	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	SW	SW	230	SW									
Jun 12	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	W	W	SW	SSE	SSE	ESE	ESE	231	SW										
Jun 13	SE	ESE	ESE	ESE	ESE	ESE	E	E	N	NNE	WNW	NW	WSW	NNW	N	W	NW	NW	NNW	NNW	NNW	NW	NW	NW	337	NNW									
Jun 14	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	N	NNW	NNE	ESE	S	WNW	NNW	SW	NW	NNW	354	N									
Jun 15	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	N	N	ENE	N	NNE	NNE	NNE	NNE	347	NNW									
Jun 16	ESE	E	NE	NNE	NNE	S	NNE	NE	NE	ENE	E	E	ENE	E	ESE	E	E	E	ESE	SE	S	W	N	92	E										
Jun 17	ENE	ENE	ENE	ENE	ENE	E	E	ESE	SE	SSE	S	S	S	SSE	S	SSW	SW	WNW	NNE	NE	E	ESE	SSE	132	SE										
Jun 18	ESE	SSE	SSE	ENE	ESE	SSE	NE	NNE	NNE	NE	NNE	ENE	N	N	NNW	NNW	NNW	WNW	WNW	NW	WSW	SW	SW	WSW	1	N									
Jun 19	WSW	SSW	S	SW	SW	SW	SW	SW	SW	WSW	WSW	W	WNW	NW	NW	WNW	WNW	WNW	NNW	NNW	NNW	WNW	WNW	WNW	270	W									
Jun 20	NW	WSW	NNW	NE	E	E	ESE	ESE	SE	ESE	SSE	SSW	WNW	WSW	WSW	W	W	N	NE	ESE	SSE	SE	N	134	SE										
Jun 21	E	E	SE	ESE	SSE	S	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	S	SSE	S	216	SW									
Jun 22	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	WSW	NNW	N	N	N	NNW	NNW	228	SW									
Jun 23	NNW	NNW	NNW	NNW	NNE	NNE	N	NNE	NNE	N	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNW	N	15	NNE										
Jun 24	NNE	NNE	NNE	NE	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	W	WNW	NW	NNW	WSW	SSW	SSW	SW	330	NNW									
Jun 25	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	213	SSW									
Jun 26	S	ENE	SSE	WSW	ENE	ENE	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	NNE	NE	NE	NE	358	N									
Jun 27	SSE	ENE	NE	ENE	SW	S	E	E	ENE	NE	NE	NE	NNE	N	N	N	NNW	N	NNW	NNW	NNE	NE	SE	ESE	34	NE									
Jun 28	SSE	SE	SE	ESE	ESE	ESE	SE	ESE	ESE	E	E	ENE	ESE	E	E	ENE	ENE	NE	NE	ENE	ENE	ENE	NNE	NE	93	E									
Jun 29	NE	NE	ENE	ENE	ENE	NE	NE	NE	ENE	ENE	NNE	N	NNW	N	N	NE	NNE	NNW	WNW	WNW	W	W	W	W	28	NNE									
Jun 30	NW	WSW	W	S	SSE	SSE	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SSE	ENE	N	NE	N	E	228	SW										
C	Monthly Calibration														S	Daily Zero-Span Check														Q	Quality Assurance				
K	Collection Error														N	No Data (Machine Not in Service)														Y	Routine Maintenance		P	Power Failure	
X	Invalid Data (Machine Malfunction /Recovery)														NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																			

Timeseries Chart of Hourly Average for VWD - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																											
Maximum Hourly Value: 33.6 kph on June 4 at hour 11													Hours in Service: 720														
Maximum Daily Value: 18.1 kph on June 4													Hours of Data: 720														
Minimum Hourly Value: 0.4 kph on June 20 at hour 2													Hours of Missing Data: 0														
Minimum Daily Value: 0.4 kph on June 20													Hours of Calibration: 0														
Monthly Average: 1.6 kph													Operational Uptime: 100														
WIND DIRECTION																											
Monthly Average: 130 (SE) degree																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	5.1	5.1	5.1	0.9	4.8	4.6	3.7	4.9	1.5	5.1	3.4	8.1	6.7	7.6	15.6	7.4	11.8	10.5	2.7	14.9	9.6	4.6	3.2	5.7	0.9	15.6	5.3
E	ESE	E	ESE	ESE	ESE	ESE	ESE	E	ENE	NE	NE	N	N	N	ENE	E	E	E	E	E	E	ESE	ESE	E	ESE	ESE	E
Jun 2	3.4	6.0	6.2	8.5	6.3	3.6	2.8	6.2	4.8	7.9	8.0	5.2	7.8	5.8	10.9	6.2	12.0	17.5	7.8	10.6	5.9	5.6	4.6	3.2	2.8	17.5	2.8
SSE	ESE	ESE	ESE	ESE	ESE	SE	SSE	S	WNW	W	S	SE	ENE	ENE	N	N	NNE	NNE	NE	NE	E	E	E	E	E	E	E
Jun 3	4.3	4.3	4.6	6.2	5.5	5.9	5.7	6.4	5.0	7.6	11.9	9.4	8.3	10.6	14.0	14.0	14.7	17.6	22.8	19.9	13.8	14.0	15.7	19.3	4.3	22.8	10.4
ESE	E	E	ESE	E	ESE	E	E	ENE	NE	ENE	E	ESE	ESE	ESE	ESE	SE	ESE	ESE	E	E	E	E	E	E	ESE	ESE	E
Jun 4	21.8	22.1	21.6	20.1	19.2	20.2	23.6	24.2	21.5	23.5	27.3	33.6	33.1	26.6	11.0	9.2	12.5	24.8	21.8	20.7	14.9	11.7	12.8	8.3	8.3	33.6	18.1
ESE	ESE	ESE	ESE	E	E	ESE	SE	SE	ESE	SE	SSE	S	S	SSE	SSE	SE	ESE	ESE	ESE	E	E	E	E	SE	ESE	ESE	E
Jun 5	9.0	17.2	21.7	17.7	19.1	18.5	16.8	16.3	18.4	19.4	17.7	19.3	18.8	20.5	13.3	17.5	19.2	20.0	22.0	20.8	12.0	10.6	8.3	10.9	8.3	22.0	16.0
SE	ESE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	S	SSE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	ESE	E	ESE	ESE	E
Jun 6	12.5	13.1	12.9	14.8	12.1	10.7	12.6	13.4	16.2	12.2	6.8	7.5	17.3	19.0	15.3	12.3	10.4	9.6	7.2	5.7	9.5	2.0	2.9	4.4	2.0	19.0	6.9
ESE	ESE	ESE	ESE	ESE	ENE	E	ESE	ESE	ESE	SE	SSE	S	S	SSW	W	SW	SW	WSW	SSW	W	ESE	SE	ESE	ESE	ESE	ESE	ESE
Jun 7	2.3	3.6	3.4	1.4	2.4	2.3	4.2	5.4	5.5	2.2	5.8	8.9	12.4	9.6	8.2	5.3	1.5	5.1	6.5	6.8	3.3	3.4	4.4	4.6	1.4	12.4	4.5
SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SE	SSE	ESE	SE	S	SSE	E	SSE	S	S	SSE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
Jun 8	7.3	13.6	10.1	11.3	14.0	10.6	11.3	19.4	19.9	17.8	16.9	17.9	16.5	15.0	20.2	16.3	11.3	11.1	4.2	6.3	4.2	7.0	3.2	8.0	3.2	20.2	9.8
E	E	ESE	ESE	E	ESE	E	ESE	ESE	SE	SE	SE	SE	SE	ENE	SE	SW	SW	N	ENE	ESE	SE	E	ESE	ESE	ESE	ESE	ESE
Jun 9	6.5	1.8	3.8	7.4	7.5	4.1	7.5	6.9	5.6	5.9	8.1	13.0	14.3	15.1	13.0	13.4	9.5	8.8	7.2	2.2	7.7	9.4	11.6	13.9	1.8	15.1	5.4
SE	ESE	E	SE	SSE	SE	S	SW	WSW	SW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
Jun 10	11.4	13.0	11.2	8.2	7.1	9.7	16.3	15.3	7.4	12.5	13.3	14.3	13.0	13.2	13.2	10.6	8.8	15.8	14.4	11.2	10.9	8.7	8.0	6.2	6.2	16.3	7.5
E	E	SSE	ESE	ESE	SSE	SSW	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SSW	SSW
Jun 11	6.8	8.4	4.6	3.1	6.0	5.8	8.6	12.7	10.1	9.9	14.7	21.0	14.9	14.2	12.1	15.4	14.3	16.0	13.9	15.3	11.8	8.0	9.2	11.4	3.1	21.0	10.5
SSW	SW	SSW	SSW	S	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	SW	SW	SW	SW
Jun 12	12.8	11.6	9.7	12.1	12.5	11.5	13.1	15.6	14.4	14.3	14.9	13.1	15.4	16.9	14.2	12.3	11.6	9.2	9.4	6.8	3.2	2.6	4.2	2.7	2.6	16.9	10.2
SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	W	W	W	W	W	SSE	SSE	ESE	ESE	ESE
Jun 13	3.3	4.0	4.6	4.1	3.4	3.5	2.8	1.2	1.9	2.3	2.3	4.3	3.4	5.9	5.8	7.1	8.3	11.2	11.3	10.9	6.2	4.1	1.5	1.5	1.2	11.3	2.5
SE	ESE	ESE	ESE	ESE	ESE	E	E	N	NNE	WNW	NW	WSW	NNW	N	W	NW	NW	NW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW
Jun 14	3.6	3.7	2.3	0.9	5.0	7.3	10.3	9.2	11.2	12.0	15.4	18.7	23.6	26.3	22.9	18.8	17.8	7.9	7.9	5.2	5.1	1.9	2.9	6.2	0.9	26.3	8.4
NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNE	ESE	S	WNW	NNW	SW	NW	NNW	NNW	NNW	NNW
Jun 15	6.5	6.3	6.9	6.3	10.7	11.6	14.1	15.3	15.4	17.2	15.5	16.8	16.2	15.2	18.8	13.6	8.8	12.8	2.4	12.2	9.8	11.2	6.1	3.2	2.4	18.8	10.9
NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	ENE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE
Jun 16	0.8	1.8	2.0	1.7	0.7	1.5	1.3	4.7	8.8	17.5	17.4	18.8	20.2	19.8	17.0	17.5	17.4	17.4	17.8	25.9	17.2	5.7	2.3	4.3	0.7	25.9	9.4
ESE	E	NE	NNE	NNE	S	NNE	NE	ENE	E	ENE	E	ENE	E	ESE	E	E	E	E	ESE	SE	S	W	N	N	N	N	N
Jun 17	6.1	14.2	18.5	21.7	19.8	19.2	18.4	16.9	17.7	20.4	17.9	19.1	19.3	17.8	14.2	10.9	10.9	7.5	3.8	3.7	6.0	5.8	5.5	10.2	3.7	21.7	8.2
ENE	ENE	ENE	ENE	ENE	E	E	ESE	SE	SSE	SW	SSW	SSW	S	S	SSW	S	SSW	SW	WNW	NNE	NE	E	ESE	SSE	ESE	ESE	SSE
Jun 18	2.4	5.9	2.5	2.8	3.4	0.7	3.1	5.3	7.4	6.6	5.0	4.8	9.1	8.9	7.0	6.6	6.2	5.5	4.3	4.2	2.5	1.9	2.9	4.8	0.7	9.1	2.2
ESE	SSE	SSE	ENE	ESE	SSE	NE	NNE	NNE	NE	NNE	ENE	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
Jun 19	4.1	4.4	4.5	1.5	4.1	5.9	4.9	6.7	9.3	11.8	10.2	8.7	7.6	6.2	7.1	9.5	6.0	5.5	4.9	7.7	7.4	4.7	3.6	1.8	1.5	11.8	4.5
WSW	SSW	S	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	W	NNW	NW	NW	WNW	WNW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
Jun 20	3.0	0.8	0.4	3.1	3.7	3.8	3.9	6.0	4.0	2.2	1.8	1.4	3.1	3.5	4.3	5.2	5.8	3.7	2.2	4.0	3.7	4.3	3.5	2.7	0.4	6.0	0.4
NW	WSW	NNW	NE	E	E	ESE	ESE	SE	ESE	SSE	SSW	WNW	WSW	WSW	W	W	W	N	NE	ESE	SSE	SE	N	N	N	N	N



PEACE RIVER AREA MONITORING PROGRAM

986c Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																															
Maximum Hourly Value:	33.6	kph	on June 4 at hour 11	Hours in Service:	720																										
Maximum Daily Value:	18.1	kph	on June 4	Hours of Data:	720																										
Minimum Hourly Value:	0.4	kph	on June 20 at hour 2	Hours of Missing Data:	0																										
Minimum Daily Value:	0.4	kph	on June 20	Hours of Calibration:	0																										
Monthly Average:	1.6	kph		Operational Uptime:	100																										
WIND DIRECTION																															
Monthly Average:	130	(SE)	degree																												
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23							
Jun 21	4.9	10.8	7.2	5.6	5.7	12.1	11.9	15.1	12.8	15.3	16.6	15.7	16.4	15.9	17.9	20.1	15.9	14.0	11.1	14.0	6.2	6.7	9.0	11.1	4.9	20.1	9.5				
	E	E	SE	ESE	SSE	S	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	S	SSE	S								
Jun 22	15.0	12.2	11.6	9.1	9.9	11.9	14.4	12.7	10.9	13.5	15.1	15.4	12.0	11.2	18.4	20.3	16.2	14.2	13.4	12.1	5.4	6.1	2.2	3.3	2.2	20.3	8.6				
	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	WSW	NNW	N	N	N	NW	NNW								
Jun 23	4.4	6.6	5.9	2.5	4.9	8.8	11.9	8.5	8.1	11.3	17.4	16.2	20.8	17.8	24.9	26.0	24.0	21.3	21.8	21.2	15.3	9.4	6.8	10.0	2.5	26.0	13.1				
	NNW	NNW	NNW	NNW	NNE	NNE	N	NNE	NNE	N	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NW	NNW							
Jun 24	13.7	12.1	8.8	2.1	3.1	5.1	8.3	7.9	7.3	8.7	7.3	8.3	7.3	7.6	4.8	6.7	7.1	5.9	6.7	4.3	4.3	7.1	6.9	5.8	2.1	13.7	4.8				
	NNE	NNE	NNE	NE	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	W	WNW	NW	NNW	WNW	WSW	SSW	SSW	SW							
Jun 25	2.6	5.4	8.1	8.9	8.9	7.9	8.6	10.7	12.1	15.6	15.7	15.5	14.5	12.9	11.7	11.2	12.7	13.5	14.8	13.4	10.9	10.7	10.0	5.6	2.6	15.7	10.5				
	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW							
Jun 26	5.6	2.6	1.1	2.6	9.8	1.5	3.7	5.3	9.2	16.0	15.6	18.2	17.6	16.2	18.8	18.8	15.4	14.2	17.5	12.9	6.9	8.6	8.8	5.1	1.1	18.8	8.7				
	S	ENE	SSE	WSW	ENE	ENE	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	NNE	NNE	NE	NE							
Jun 27	2.4	3.6	1.2	2.5	3.1	2.2	5.3	7.4	9.2	10.6	11.3	12.0	8.1	13.5	11.0	7.9	4.9	4.7	7.1	6.5	8.0	2.1	4.0	5.0	1.2	13.5	4.6				
	SSE	ENE	NE	ENE	SW	S	E	E	ENE	NE	NE	NE	NNE	N	N	NNW	N	NNW	NNW	NNW	NE	SE	ESE	ESE							
Jun 28	7.2	6.0	4.9	5.9	7.2	4.9	6.9	9.5	14.4	12.1	8.7	7.7	7.7	6.8	6.0	10.2	7.2	9.8	11.5	10.9	6.0	5.3	4.9	6.0	4.9	14.4	6.6				
	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ENE	ESE	E	E	ENE	ENE	NE	NE	ENE	ENE	NNE	NE							
Jun 29	8.9	13.9	11.9	10.3	9.8	11.2	10.6	14.2	17.2	15.8	14.6	14.4	15.5	9.8	15.1	12.9	8.2	7.5	2.2	8.2	5.1	3.6	2.9	3.0	2.2	17.2	7.7				
	NE	NE	ENE	ENE	ENE	NE	NE	ENE	ENE	NNE	N	NNW	N	N	NE	NNE	NNW	WNW	WNW	W	W	W	W	W							
Jun 30	2.6	3.0	2.8	1.6	4.0	3.9	2.6	5.9	6.7	7.7	9.9	9.5	9.4	8.7	6.1	7.8	7.4	5.0	1.5	4.6	23.5	12.9	15.8	8.9	1.5	23.5	1.8				
	NW	WSW	W	S	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSE	ENE	N	NE	N	E							
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance														
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure						
X	Invalid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																						
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																															

842b STATION



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

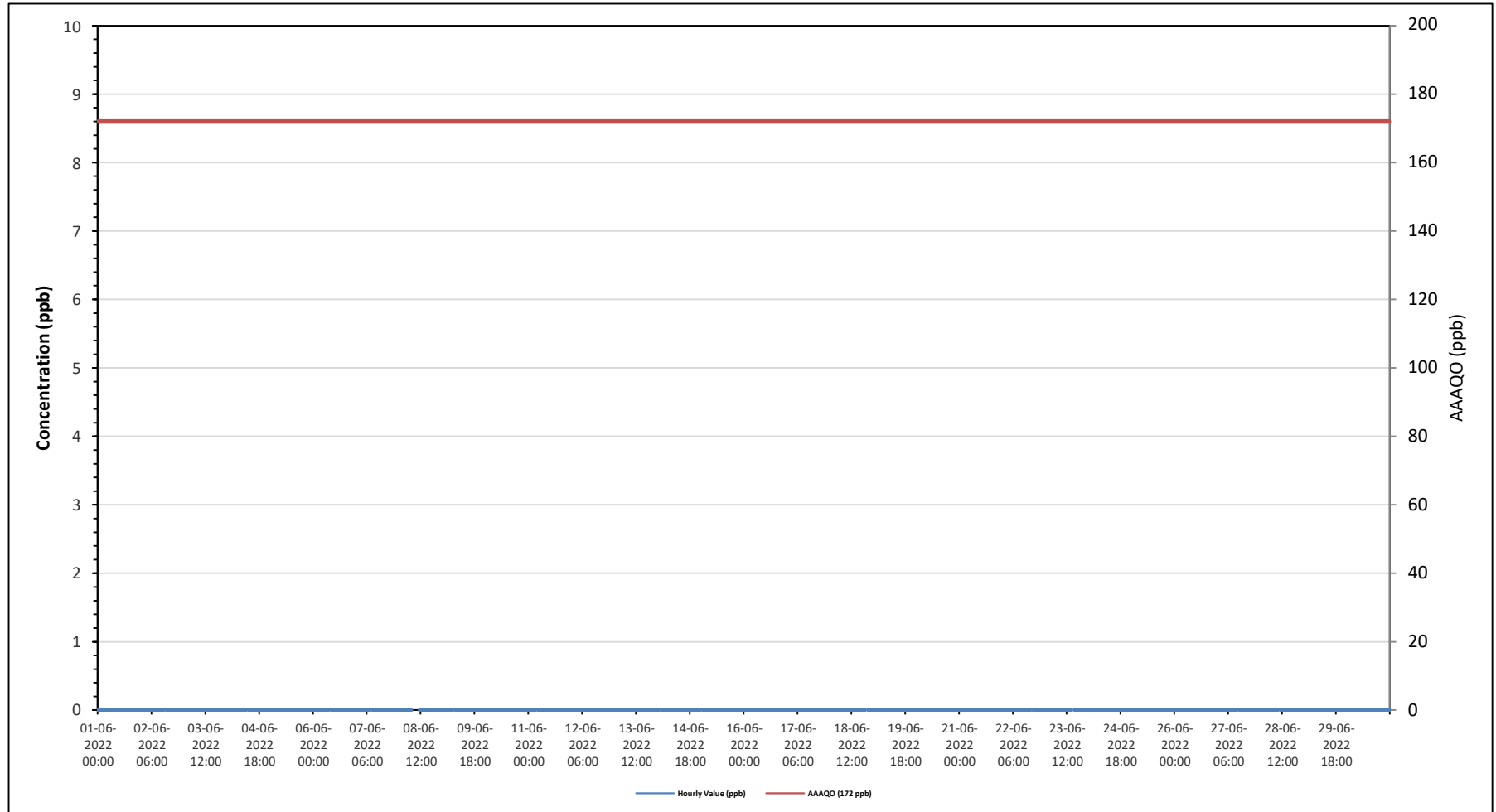
Summary of Hourly Averages

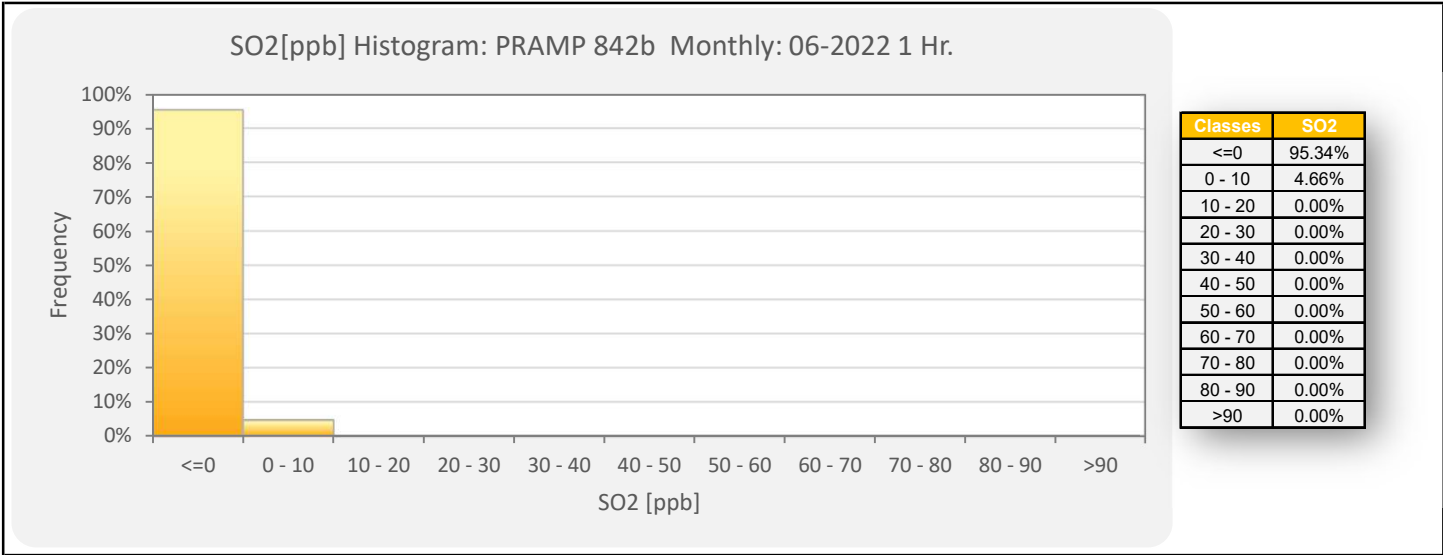
SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																													
Number of 1-Hour Exceedances: 0						Number of 24-Hour Exceedances: 0						30-Day Exceedance: 0																	
Maximum Hourly Value: 0 ppb on June 1 at hour 0												Hours in Service: 720																	
Maximum Daily Value: 0.0 ppb on June 1												Hours of Data: 686																	
Minimum Hourly Value: 0 ppb on June 1 at hour 0												Hours of Missing Data: 0																	
Minimum Daily Value: 0.0 ppb on June 1												Hours of Calibration: 34																	
Monthly Average: 0.0 ppb												Operational Uptime: 100.0																	
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 4	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 5	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 6	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 7	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 8	0	0	0	0	0	0	0	S	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 9	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 10	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 11	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 12	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 13	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 14	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 15	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	
Jun 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	
Jun 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 25	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 27	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 28	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 29	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 30	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diurnal Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C Monthly Calibration													S Daily Zero-Span Check													Q Quality Assurance			
K Collection Error													N No Data (Machine Not in Service)													Y Routine Maintenance			
X InValid Data (Equipment Malfunction /Recovery)													NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)													P Power Failure			

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

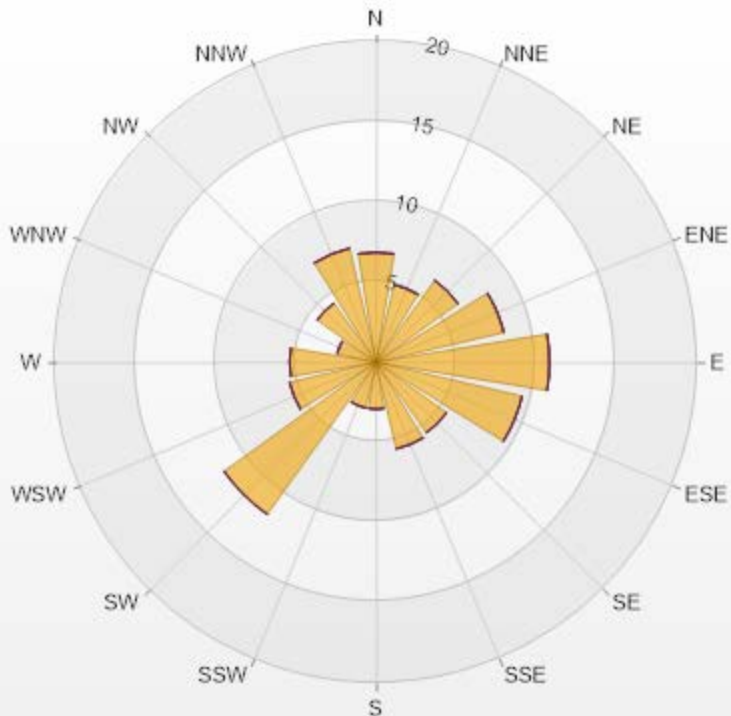
Timeseries Chart of Hourly Average for SO2 - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.28% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.85	0	0	0	0	6.85
NNE	4.96	0	0	0	0	4.96
NE	6.27	0	0	0	0	6.27
ENE	8.16	0	0	0	0	8.16
E	10.79	0	0	0	0	10.79
ESE	9.33	0	0	0	0	9.33
SE	5.39	0	0	0	0	5.39
SSE	5.54	0	0	0	0	5.54
S	2.92	0	0	0	0	2.92
SSW	2.92	0	0	0	0	2.92
SW	11.66	0	0	0	0	11.66
WSW	5.54	0	0	0	0	5.54
W	5.39	0	0	0	0	5.39
WNW	2.48	0	0	0	0	2.48
NW	4.52	0	0	0	0	4.52
NNW	7.29	0	0	0	0	7.29
Summary	100	0	0	0	0	100



PRAMP-202206

% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	1.98 ppb	on June 26 at hour 2	Hours in Service:	720
Maximum Daily Value:	0.78 ppb	on June 27	Hours of Data:	684
Minimum Hourly Value:	0.14 ppb	on June 1 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	0.29 ppb	on June 4	Hours of Calibration:	36
Monthly Average:	0.50 ppb		Operational Uptime:	100.0

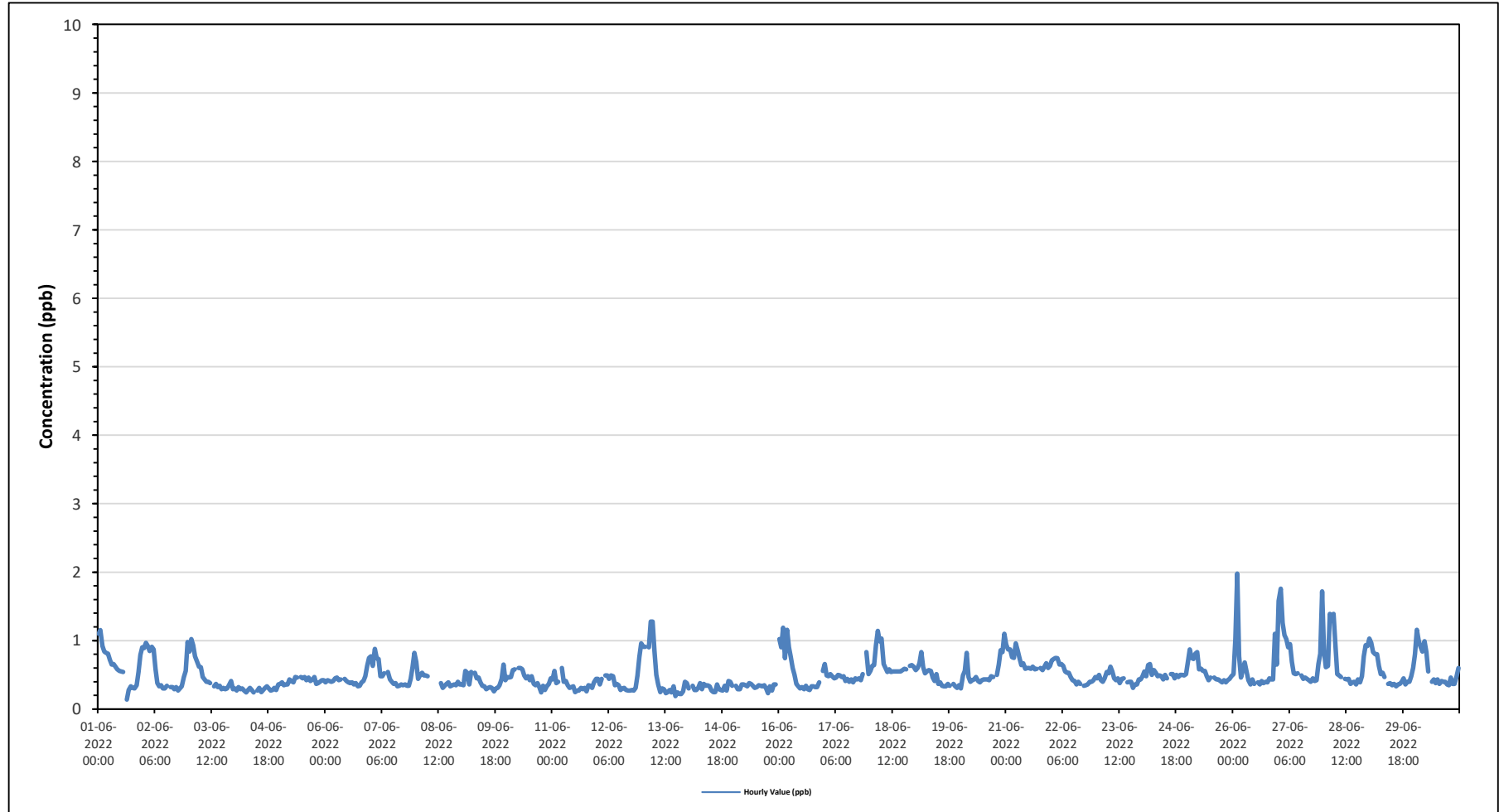
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	1.1	1.15	0.92	0.84	0.82	0.81	0.72	0.65	0.66	0.62	0.58	0.56	0.55	0.54	S	0.14	0.28	0.33	0.31	0.3	0.35	0.54	0.79	0.9	0.14	1.15	0.63	
Jun 2	0.89	0.97	0.92	0.85	0.91	0.87	0.59	0.38	0.33	0.35	0.3	0.3	0.34	S	0.32	0.32	0.29	0.32	0.27	0.3	0.33	0.47	0.56	0.98	0.27	0.98	0.53	
Jun 3	0.84	1.02	0.93	0.77	0.7	0.62	0.61	0.47	0.43	0.4	0.4	0.38	S	0.33	0.37	0.32	0.34	0.29	0.31	0.29	0.3	0.35	0.41	0.29	0.29	1.02	0.49	
Jun 4	0.3	0.27	0.32	0.29	0.3	0.27	0.24	0.28	0.31	0.28	0.24	S	0.27	0.31	0.25	0.28	0.31	0.33	0.3	0.27	0.28	0.31	0.28	0.36	0.24	0.36	0.29	
Jun 5	0.37	0.39	0.35	0.36	0.36	0.43	0.41	0.39	0.47	0.46	S	0.47	0.45	0.47	0.42	0.46	0.41	0.43	0.47	0.37	0.38	0.4	0.42	0.42	0.35	0.47	0.42	
Jun 6	0.39	0.42	0.41	0.4	0.41	0.45	0.46	0.42	0.43	S	0.44	0.41	0.39	0.38	0.39	0.36	0.38	0.33	0.34	0.39	0.41	0.48	0.63	0.75	0.33	0.75	0.43	
Jun 7	0.77	0.63	0.88	0.74	0.73	0.48	0.48	0.52	S	0.54	0.43	0.4	0.37	0.38	0.33	0.34	0.36	0.35	0.36	0.34	0.34	0.44	0.61	0.82	0.33	0.88	0.51	
Jun 8	0.69	0.44	0.49	0.53	0.49	0.49	0.48	S	C	C	C	C	C	C	0.38	0.31	0.34	0.37	0.39	0.33	0.35	0.36	0.35	0.4	0.36	0.31	0.69	0.42
Jun 9	0.36	0.35	0.56	0.53	0.36	0.54	S	0.53	0.45	0.46	0.39	0.34	0.33	0.29	0.31	0.32	0.31	0.26	0.3	0.31	0.35	0.44	0.65	0.42	0.26	0.65	0.40	
Jun 10	0.47	0.46	0.47	0.57	0.58	S	0.6	0.6	0.58	0.49	0.45	0.48	0.42	0.48	0.37	0.35	0.38	0.32	0.24	0.34	0.28	0.33	0.37	0.45	0.24	0.60	0.44	
Jun 11	0.43	0.56	0.38	0.4	S	0.6	0.4	0.41	0.35	0.31	0.32	0.33	0.25	0.27	0.27	0.31	0.29	0.31	0.26	0.35	0.34	0.31	0.39	0.44	0.25	0.60	0.36	
Jun 12	0.44	0.36	0.44	S	0.49	0.49	0.44	0.49	0.48	0.35	0.37	0.35	0.28	0.3	0.31	0.28	0.27	0.27	0.28	0.27	0.31	0.49	0.76	0.96	0.27	0.96	0.41	
Jun 13	0.91	0.91	S	0.9	1.28	1.28	0.85	0.5	0.36	0.25	0.3	0.29	0.23	0.25	0.28	0.24	0.33	0.19	0.24	0.22	0.22	0.26	0.4	0.38	0.19	1.28	0.48	
Jun 14	0.3	S	0.34	0.28	0.28	0.31	0.38	0.29	0.37	0.34	0.35	0.33	0.27	0.25	0.25	0.36	0.29	0.28	0.27	0.34	0.27	0.41	0.4	0.34	0.25	0.41	0.32	
Jun 15	S	0.34	0.29	0.29	0.36	0.36	0.35	0.33	0.38	0.37	0.34	0.31	0.32	0.35	0.34	0.33	0.35	0.3	0.23	0.33	0.27	0.36	0.36	S	0.23	0.38	0.33	
Jun 16	1.02	0.9	1.19	0.74	1.16	0.9	0.76	0.6	0.5	0.37	0.33	0.3	0.32	0.29	0.34	0.29	0.28	0.33	0.33	0.32	0.32	0.39	S	0.56	0.28	1.19	0.55	
Jun 17	0.66	0.49	0.48	0.51	0.48	0.45	0.46	0.5	0.49	0.47	0.48	0.41	0.44	0.4	0.43	0.39	0.45	0.43	0.45	0.42	0.51	S	0.83	0.51	0.39	0.83	0.48	
Jun 18	0.56	0.63	0.64	0.93	1.14	0.99	1.03	0.66	0.6	0.54	0.58	0.54	0.55	0.55	0.55	0.55	0.57	0.59	0.58	S	0.63	0.64	0.62	0.54	1.14	0.66	0.66	
Jun 19	0.57	0.6	0.67	0.83	0.61	0.52	0.55	0.57	0.56	0.46	0.41	0.51	0.37	0.39	0.34	0.33	0.33	0.37	0.34	S	0.37	0.33	0.31	0.35	0.31	0.83	0.46	
Jun 20	0.3	0.49	0.56	0.82	0.47	0.4	0.42	0.43	0.47	0.41	0.39	0.42	0.43	0.43	0.43	0.42	0.48	0.47	S	0.5	0.65	0.86	0.83	1.1	0.30	1.10	0.53	
Jun 21	0.94	0.87	0.87	0.76	0.75	0.96	0.86	0.75	0.64	0.67	0.59	0.6	0.6	0.59	0.62	0.58	0.59	S	0.6	0.57	0.62	0.67	0.6	0.63	0.57	0.96	0.69	
Jun 22	0.71	0.73	0.75	0.74	0.65	0.66	0.63	0.55	0.53	0.53	0.47	0.42	0.41	0.36	0.4	0.37	S	0.34	0.35	0.36	0.4	0.4	0.42	0.47	0.34	0.75	0.51	
Jun 23	0.45	0.5	0.42	0.4	0.45	0.54	0.52	0.62	0.55	0.45	0.42	0.45	0.38	0.44	0.45	S	0.39	0.4	0.4	0.31	0.36	0.36	0.43	0.43	0.31	0.62	0.44	
Jun 24	0.48	0.55	0.48	0.64	0.66	0.5	0.57	0.53	0.48	0.49	0.48	0.43	0.5	0.45	S	0.51	0.51	0.45	0.5	0.47	0.5	0.5	0.49	0.51	0.43	0.66	0.51	
Jun 25	0.69	0.87	0.75	0.73	0.81	0.83	0.58	0.59	0.56	0.56	0.48	0.42	0.46	S	0.46	0.43	0.43	0.41	0.39	0.42	0.39	0.42	0.44	0.48	0.39	0.87	0.55	
Jun 26	0.51	1.03	1.98	0.77	0.46	0.57	0.68	0.55	0.42	0.36	0.43	0.37	S	0.39	0.36	0.41	0.38	0.4	0.39	0.45	0.43	0.43	1.1	0.65	0.36	1.98	0.59	
Jun 27	1.58	1.76	1.26	1.08	1.02	0.9	0.95	0.69	0.52	0.51	0.52	S	0.49	0.44	0.46	0.44	0.42	0.4	0.45	0.41	0.42	0.66	0.81	1.72	0.40	1.76	0.78	
Jun 28	0.85	0.61	0.63	1.39	1.29	1.39	0.94	0.51	0.49	0.47	S	0.44	0.43	0.44	0.37	0.39	0.4	0.36	0.43	0.39	0.48	0.77	0.93	0.92	0.36	1.39	0.67	
Jun 29	1.03	0.97	0.83	0.8	0.8	0.63	0.51	0.53	0.47	S	0.37	0.38	0.35	0.37	0.33	0.36	0.37	0.4	0.45	0.36	0.4	0.4	0.48	0.6	0.33	1.03	0.53	
Jun 30	0.8	1.16	1	0.91	0.84	0.99	0.83	0.55	S	0.4	0.43	0.38	0.43	0.37	0.41	0.4	0.4	0.36	0.35	0.46	0.37	0.37	0.48	0.6	0.35	1.16	0.58	
Diurnal Maximum	1.58	1.76	1.98	1.39	1.29	1.39	1.03	0.75	0.66	0.67	0.59	0.60	0.60	0.59	0.62	0.58	0.59	0.57	0.60	0.58	0.65	0.86	1.10	1.72				
Diurnal Average	0.67	0.70	0.70	0.68	0.68	0.66	0.60	0.60	0.51	0.48	0.44	0.42	0.41	0.39	0.39	0.37	0.37	0.38	0.36	0.37	0.38	0.45	0.56	0.62				

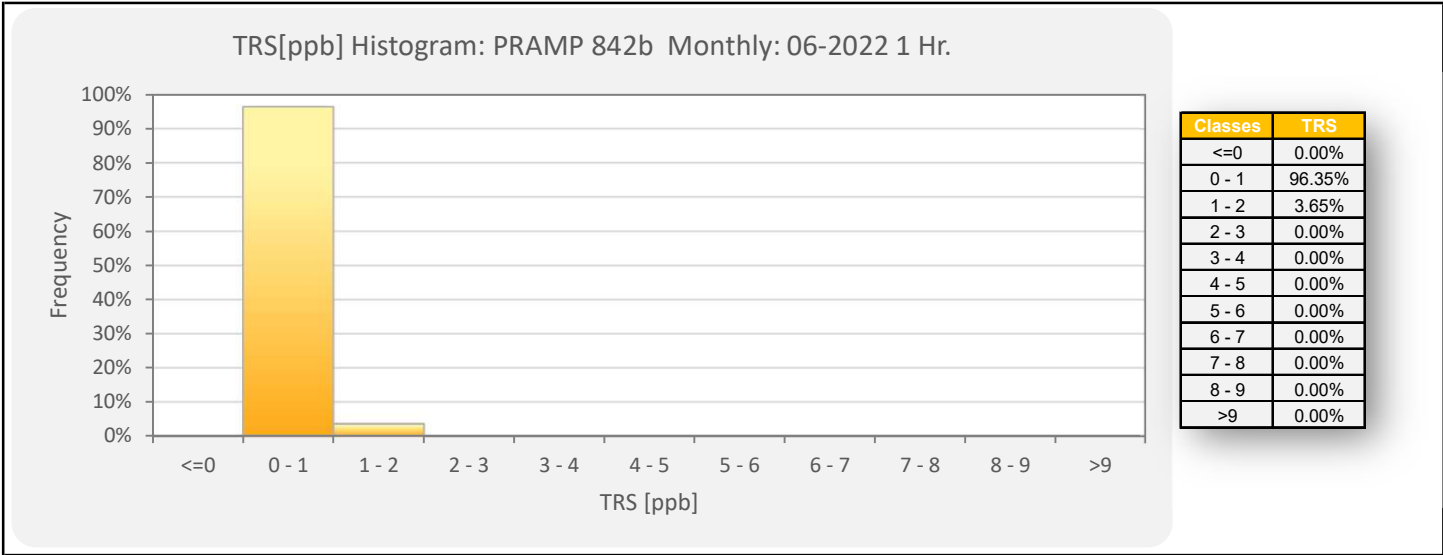
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

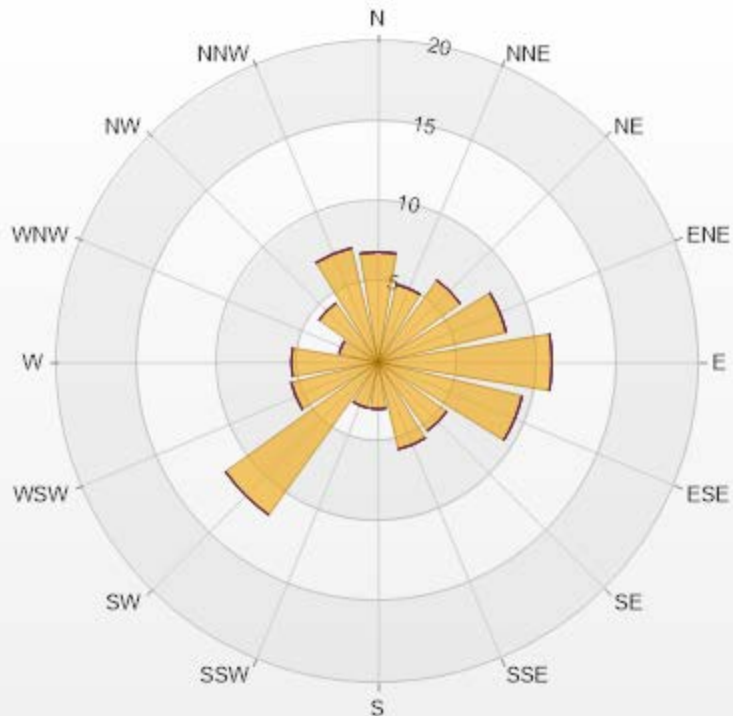
Timeseries Chart of Hourly Average for TRS - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.87	0	0	0	0	6.87
NNE	4.97	0	0	0	0	4.97
NE	6.29	0	0	0	0	6.29
ENE	8.19	0	0	0	0	8.19
E	10.82	0	0	0	0	10.82
ESE	9.21	0	0	0	0	9.21
SE	5.26	0	0	0	0	5.26
SSE	5.56	0	0	0	0	5.56
S	2.92	0	0	0	0	2.92
SSW	2.92	0	0	0	0	2.92
SW	11.7	0	0	0	0	11.7
WSW	5.56	0	0	0	0	5.56
W	5.41	0	0	0	0	5.41
WNW	2.49	0	0	0	0	2.49
NW	4.53	0	0	0	0	4.53
NNW	7.31	0	0	0	0	7.31
Summary	100	0	0	0	0	100



PRAMP-202206

Page 83 of 276

% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.15 ppm on June 2 at hour 4	Hours in Service:	720
Maximum Daily Value:	1.93 ppm on June 2	Hours of Data:	685
Minimum Hourly Value:	1.82 ppm on June 10 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	1.84 ppm on June 22	Hours of Calibration:	35
Monthly Average:	1.87 ppm	Operational Uptime:	100.0

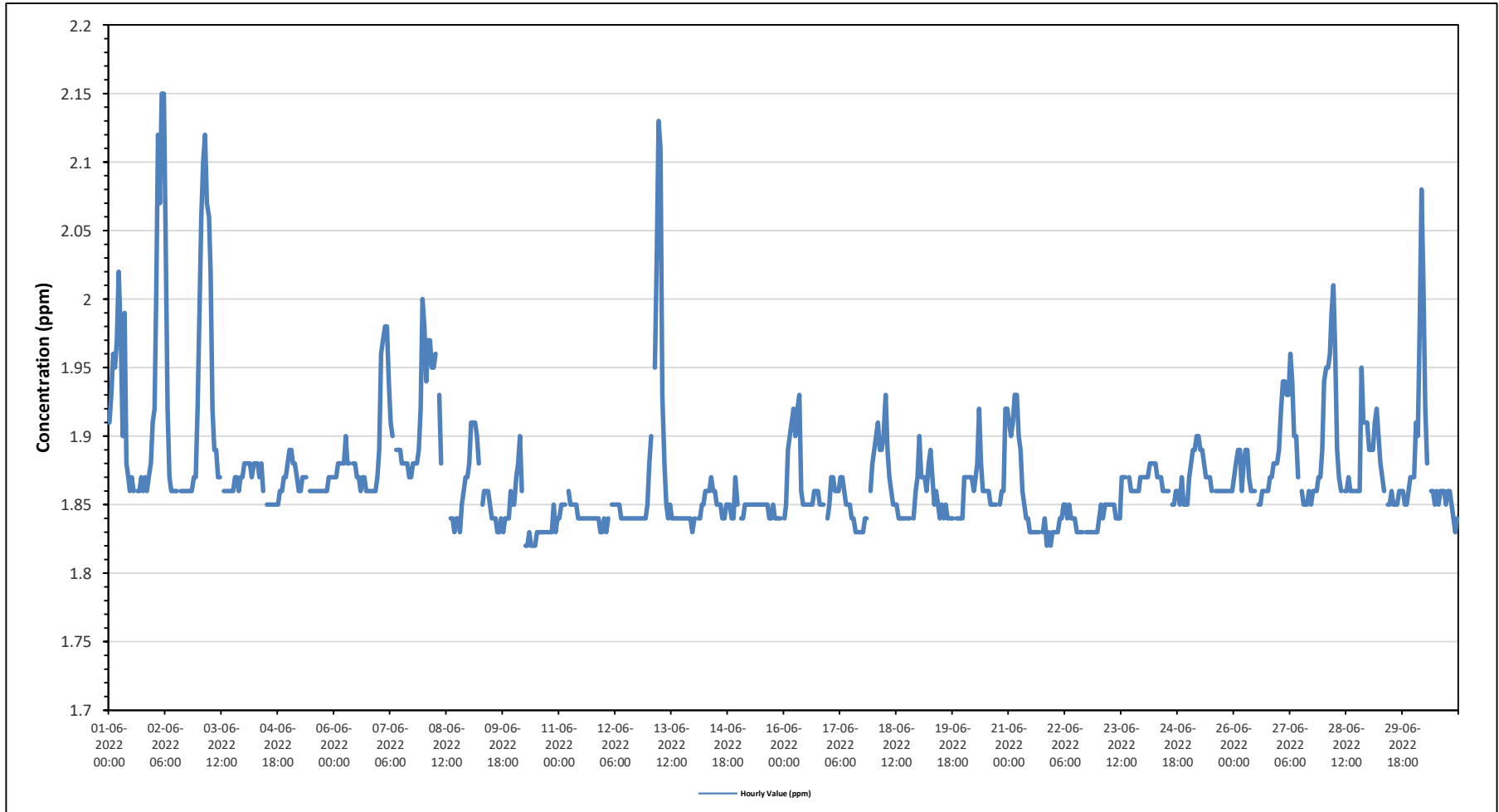
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	1.91	1.93	1.96	1.95	1.97	2.02	1.97	1.90	1.99	1.88	1.87	1.86	1.87	1.86	S	1.86	1.86	1.87	1.86	1.87	1.88	1.91	1.86	2.02	1.90			
Jun 2	1.92	2.00	2.12	2.07	2.15	2.15	2.04	1.92	1.87	1.86	1.86	1.86	1.86	S	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.92	1.86	2.15	1.93	
Jun 3	1.99	2.06	2.10	2.12	2.07	2.06	2.02	1.92	1.89	1.89	1.87	1.87	S	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.86	2.12	1.93	
Jun 4	1.88	1.88	1.88	1.88	1.87	1.88	1.88	1.88	1.87	1.88	1.86	S	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.87	1.87	1.88	1.85	1.88	1.87	1.87	
Jun 5	1.89	1.89	1.88	1.88	1.87	1.86	1.86	1.87	1.87	1.87	S	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.86	1.89	1.87	1.87	
Jun 6	1.87	1.87	1.88	1.88	1.88	1.88	1.90	1.88	1.88	S	1.88	1.88	1.87	1.87	1.86	1.87	1.87	1.86	1.86	1.86	1.86	1.87	1.87	1.86	1.90	1.87	1.87	
Jun 7	1.89	1.96	1.97	1.98	1.98	1.94	1.91	1.90	S	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.87	1.87	1.88	1.88	1.89	1.92	2.00	1.87	2.00	1.91	1.91	
Jun 8	1.98	1.94	1.97	1.97	1.95	1.95	1.96	S	1.93	1.88	C	C	C	C	1.84	1.84	1.83	1.84	1.84	1.83	1.85	1.86	1.87	1.87	1.83	1.98	1.89	
Jun 9	1.88	1.91	1.91	1.91	1.90	1.88	S	1.85	1.86	1.86	1.86	1.85	1.84	1.84	1.84	1.83	1.83	1.84	1.83	1.84	1.84	1.84	1.85	1.83	1.91	1.86	1.86	
Jun 10	1.85	1.87	1.88	1.90	1.86	S	1.82	1.82	1.83	1.82	1.82	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.85	1.83	1.84	1.84	1.84	
Jun 11	1.84	1.85	1.85	1.85	S	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.86	1.84	
Jun 12	1.84	1.83	1.84	S	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.83	1.85	1.84	
Jun 13	1.88	1.90	S	1.95	2.03	2.13	2.11	1.93	1.88	1.85	1.84	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83	1.83	2.13	1.89	
Jun 14	1.84	S	1.84	1.84	1.85	1.85	1.86	1.86	1.86	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.85	1.85	1.85	1.84	1.84	1.87	1.85	1.84	1.85	
Jun 15	S	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.85	1.84	1.84	1.84	1.84	S	1.84	1.85	1.85	
Jun 16	1.84	1.85	1.89	1.90	1.91	1.92	1.90	1.92	1.93	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.85	1.85	1.85	S	1.84	1.84	1.93	1.87	
Jun 17	1.85	1.87	1.87	1.86	1.86	1.86	1.87	1.87	1.86	1.85	1.85	1.85	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.84	1.84	S	1.86	1.88	1.83	1.88	
Jun 18	1.89	1.90	1.91	1.89	1.89	1.90	1.93	1.89	1.87	1.86	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	S	1.84	1.86	1.87	1.84	1.93	
Jun 19	1.90	1.87	1.87	1.87	1.86	1.88	1.89	1.87	1.85	1.86	1.85	1.84	1.85	1.84	1.85	1.84	1.84	1.84	1.84	1.84	S	1.84	1.84	1.84	1.84	1.84	1.90	1.86
Jun 20	1.87	1.87	1.87	1.87	1.87	1.86	1.87	1.88	1.92	1.88	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85	S	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.92	1.87
Jun 21	1.91	1.90	1.91	1.93	1.93	1.90	1.89	1.86	1.85	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	S	1.83	1.84	1.82	1.83	1.83	1.82	1.83	1.82	1.86	
Jun 22	1.83	1.83	1.83	1.84	1.84	1.85	1.85	1.84	1.85	1.84	1.84	1.84	1.83	1.83	1.83	S	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.84	
Jun 23	1.84	1.85	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.87	1.87	1.87	S	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.87	
Jun 24	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.86	1.86	1.86	1.86	S	1.85	1.85	1.86	1.86	1.86	1.85	1.87	1.85	1.85	1.85	1.85	1.86	
Jun 25	1.87	1.88	1.89	1.89	1.90	1.90	1.89	1.89	1.88	1.87	1.87	1.87	1.86	S	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	
Jun 26	1.87	1.88	1.89	1.89	1.86	1.88	1.89	1.89	1.87	1.86	1.86	1.86	S	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.88	1.88	1.88	1.85	1.89	
Jun 27	1.89	1.92	1.94	1.94	1.93	1.93	1.96	1.94	1.90	1.90	1.87	S	1.86	1.85	1.85	1.85	1.86	1.85	1.86	1.86	1.86	1.87	1.87	1.87	1.89	1.85	1.96	
Jun 28	1.94	1.95	1.95	1.96	1.99	2.01	1.96	1.89	1.87	1.86	S	1.86	1.86	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.95	1.91	1.91	1.86	2.01	1.90	
Jun 29	1.89	1.89	1.89	1.91	1.92	1.90	1.88	1.87	1.86	S	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.85	1.85	1.86	1.87	1.87	1.85	1.92	
Jun 30	1.87	1.91	1.90	1.98	2.08	2.01	1.92	1.88	S	1.86	1.86	1.85	1.86	1.85	1.86	1.86	1.86	1.85	1.86	1.86	1.85	1.84	1.83	1.84	1.83	2.08	1.88	
Diurnal Maximum	1.99	2.06	2.12	2.12	2.15	2.15	2.11	1.94	1.99	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.87	1.87	1.88	1.88	1.95	1.91	1.92	2.00				
Diurnal Average	1.88	1.90	1.90	1.91	1.92	1.92	1.91	1.88	1.88	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.87				

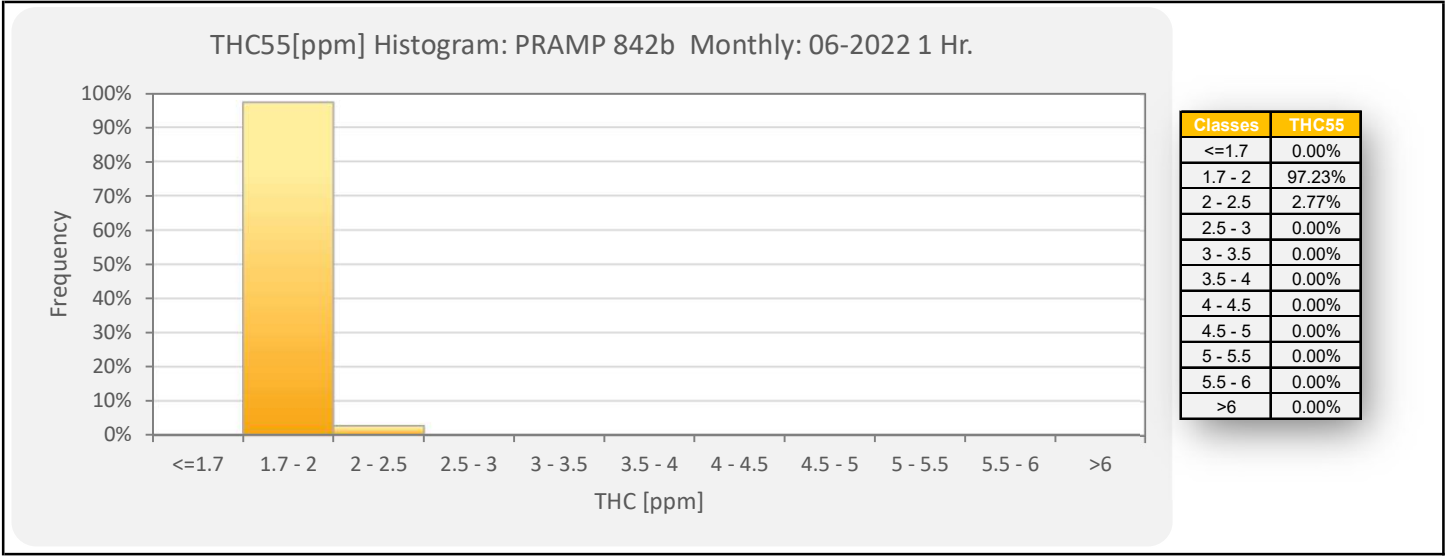
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

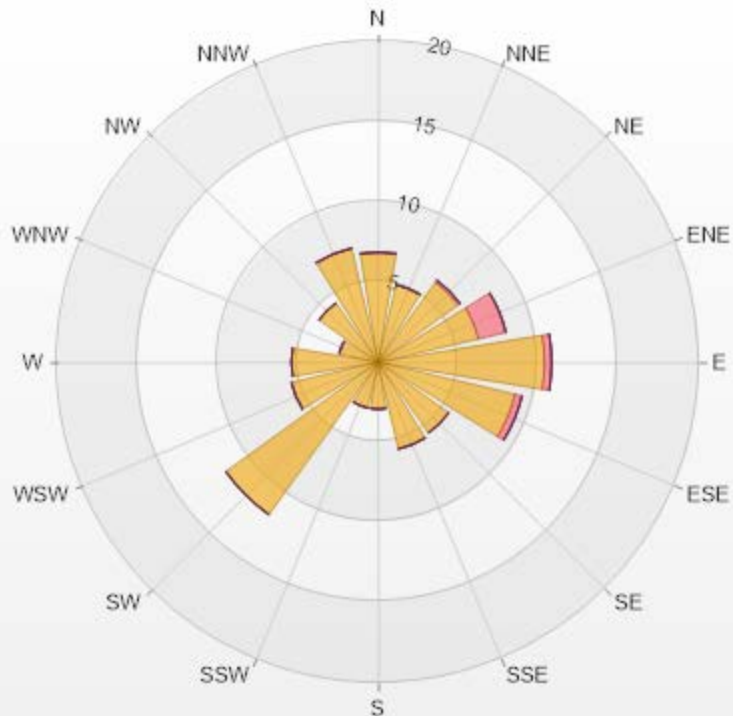
Timeseries Chart of Hourly Average for THC - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	6.86	0	0	0	0	6.86
NNE	4.96	0	0	0	0	4.96
NE	6.13	0.15	0	0	0	6.28
ENE	6.42	1.75	0	0	0	8.17
E	10.36	0.44	0	0	0	10.8
ESE	8.76	0.44	0	0	0	9.2
SE	5.4	0	0	0	0	5.4
SSE	5.55	0	0	0	0	5.55
S	2.92	0	0	0	0	2.92
SSW	2.92	0	0	0	0	2.92
SW	11.68	0	0	0	0	11.68
WSW	5.55	0	0	0	0	5.55
W	5.4	0	0	0	0	5.4
WNW	2.48	0	0	0	0	2.48
NW	4.53	0	0	0	0	4.53
NNW	7.3	0	0	0	0	7.3
Summary	97.22	2.78	0	0	0	100



PRAMP-202206

Page 88 of 276

% Icon Classes (ppm)

97 0-2

3 2-5

0 5-10

0 10-40

0 >40.0



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

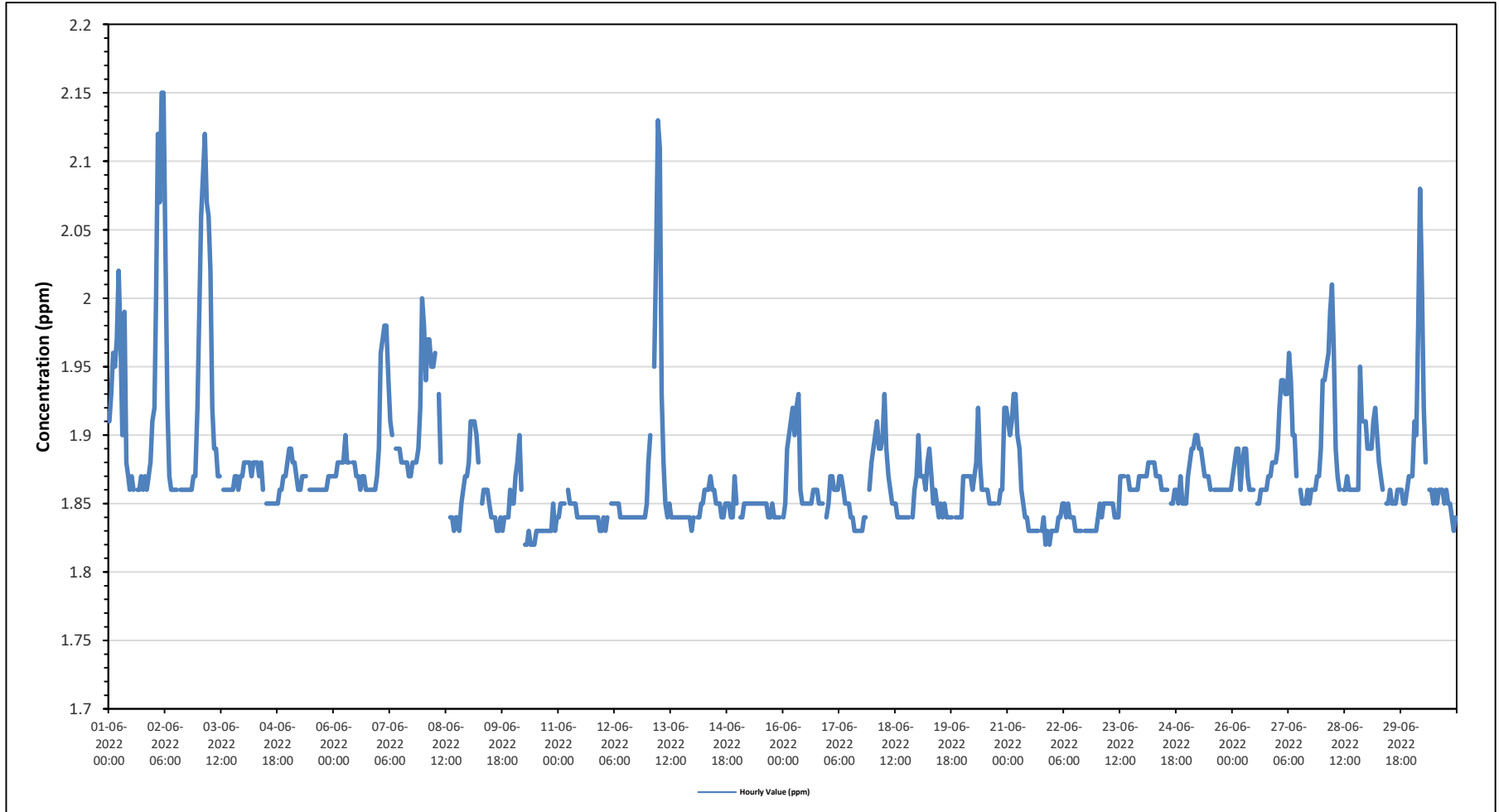
Maximum Hourly Value:	2.15 ppm	on June 2 at hour 4	Hours in Service:	720
Maximum Daily Value:	1.93 ppm	on June 2	Hours of Data:	685
Minimum Hourly Value:	1.82 ppm	on June 10 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	1.84 ppm	on June 22	Hours of Calibration:	35
Monthly Average:	1.87 ppm		Operational Uptime:	100.0

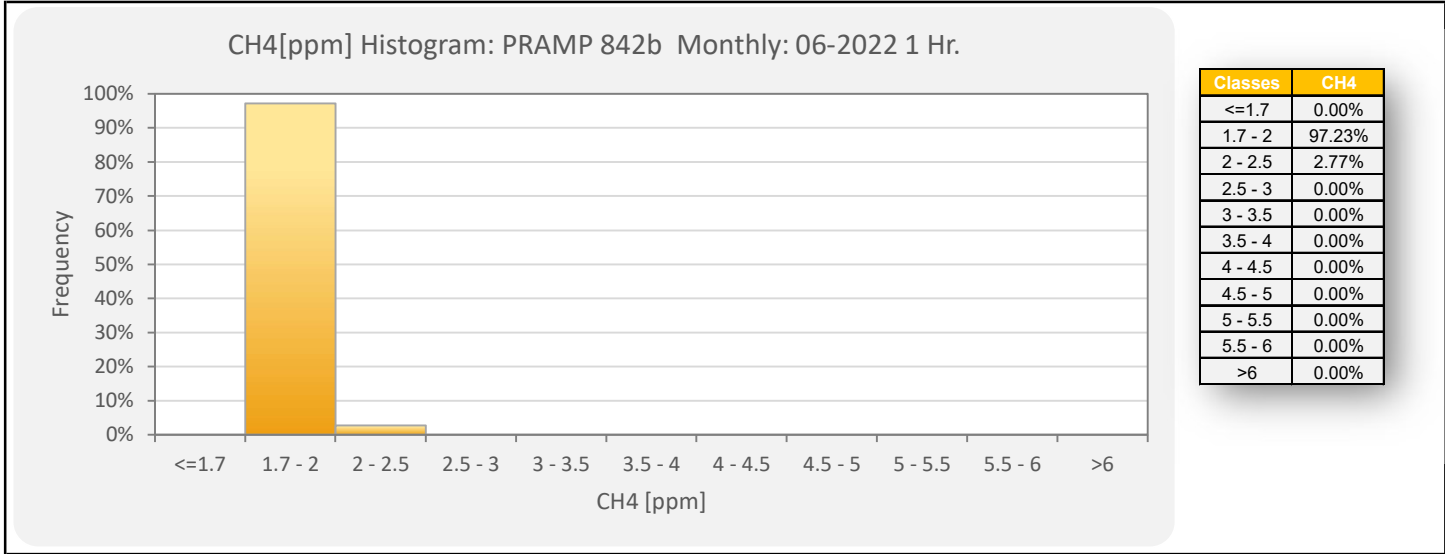
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Jun 1	1.91	1.93	1.96	1.95	1.97	2.02	1.97	1.90	1.99	1.88	1.87	1.86	1.87	1.86	S	1.86	1.86	1.87	1.86	1.87	1.88	1.91	1.86	2.02	1.90				
Jun 2	1.92	2.00	2.12	2.07	2.15	2.15	2.04	1.92	1.87	1.86	1.86	1.86	1.86	S	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.92	1.86	2.15	1.93	
Jun 3	1.99	2.06	2.09	2.12	2.07	2.06	2.02	1.92	1.89	1.89	1.87	1.87	S	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.86	1.87	1.87	1.87	1.86	2.12	1.93	
Jun 4	1.88	1.88	1.88	1.88	1.87	1.88	1.88	1.88	1.87	1.88	1.86	S	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.87	1.87	1.87	1.88	1.85	1.88	1.87	1.87	
Jun 5	1.89	1.89	1.88	1.88	1.87	1.86	1.86	1.87	1.87	1.87	S	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.86	1.89	1.87	
Jun 6	1.87	1.87	1.88	1.88	1.88	1.88	1.90	1.88	1.88	S	1.88	1.88	1.87	1.87	1.86	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.86	1.86	1.90	1.87	
Jun 7	1.89	1.96	1.97	1.98	1.98	1.94	1.91	1.90	S	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.87	1.87	1.88	1.88	1.89	1.92	2.00	1.87	2.00	1.91	1.91	1.91	
Jun 8	1.98	1.94	1.97	1.97	1.95	1.95	1.96	S	1.93	1.88	C	C	C	C	1.84	1.84	1.83	1.84	1.84	1.83	1.85	1.86	1.87	1.87	1.83	1.98	1.89	1.89	
Jun 9	1.88	1.91	1.91	1.91	1.90	1.88	S	1.85	1.86	1.86	1.86	1.85	1.84	1.84	1.84	1.83	1.83	1.84	1.83	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.91	1.86	
Jun 10	1.85	1.87	1.88	1.90	1.86	S	1.82	1.82	1.83	1.82	1.82	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.85	1.83	1.84	
Jun 11	1.84	1.85	1.85	1.85	S	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.86	1.84	
Jun 12	1.84	1.83	1.84	S	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.83	1.85	1.84
Jun 13	1.88	1.90	S	1.95	2.03	2.13	2.11	1.93	1.88	1.85	1.84	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83	1.83	2.13	1.89	
Jun 14	1.84	S	1.84	1.84	1.85	1.85	1.86	1.86	1.86	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.85	1.85	1.85	1.84	1.84	1.87	1.85	1.84	1.87	1.85	
Jun 15	S	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.85	1.84	1.84	1.84	1.84	S	1.84	1.85	1.85	1.85	
Jun 16	1.84	1.85	1.89	1.90	1.91	1.92	1.90	1.92	1.93	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.85	1.85	1.85	S	1.84	1.84	1.93	1.87	1.87	
Jun 17	1.85	1.87	1.87	1.86	1.86	1.86	1.87	1.87	1.86	1.85	1.85	1.85	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.84	1.84	S	1.86	1.88	1.83	1.88	1.85	
Jun 18	1.89	1.90	1.91	1.89	1.89	1.90	1.93	1.89	1.87	1.86	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	S	1.84	1.86	1.87	1.84	1.93	1.87	
Jun 19	1.90	1.87	1.87	1.87	1.86	1.88	1.89	1.87	1.85	1.86	1.85	1.84	1.85	1.84	1.85	1.84	1.84	1.84	1.84	1.84	S	1.84	1.84	1.84	1.84	1.84	1.90	1.86	
Jun 20	1.87	1.87	1.87	1.87	1.87	1.86	1.87	1.88	1.92	1.88	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85	S	1.85	1.86	1.86	1.86	1.92	1.92	1.85	1.92	1.87
Jun 21	1.91	1.90	1.91	1.93	1.93	1.90	1.89	1.86	1.85	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	S	1.83	1.84	1.82	1.83	1.82	1.83	1.82	1.93	1.86	1.86	
Jun 22	1.83	1.83	1.83	1.84	1.84	1.85	1.85	1.84	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.83	S	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.85	1.84	
Jun 23	1.84	1.85	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.87	1.87	1.87	S	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.84	1.87	1.86	
Jun 24	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.86	1.86	1.86	1.86	S	1.85	1.85	1.86	1.86	1.86	1.85	1.87	1.85	1.85	1.85	1.85	1.85	1.88	1.86
Jun 25	1.87	1.88	1.89	1.89	1.90	1.90	1.89	1.89	1.88	1.87	1.87	1.87	1.86	S	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.90	1.87	
Jun 26	1.87	1.88	1.89	1.89	1.86	1.88	1.89	1.89	1.87	1.86	1.86	1.86	S	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.88	1.88	1.88	1.85	1.89	1.87	
Jun 27	1.89	1.92	1.94	1.94	1.93	1.93	1.96	1.94	1.90	1.90	1.87	S	1.86	1.85	1.85	1.85	1.86	1.85	1.86	1.86	1.86	1.87	1.87	1.87	1.89	1.85	1.96	1.89	
Jun 28	1.94	1.94	1.95	1.96	1.99	2.01	1.96	1.89	1.87	1.86	S	1.86	1.86	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.95	1.91	1.91	1.86	2.01	1.90	1.90	
Jun 29	1.89	1.89	1.89	1.91	1.92	1.90	1.88	1.87	1.86	S	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.85	1.85	1.86	1.87	1.87	1.85	1.92	1.87	
Jun 30	1.87	1.91	1.90	1.98	2.08	2.01	1.92	1.88	S	1.86	1.86	1.85	1.86	1.85	1.86	1.86	1.86	1.85	1.86	1.85	1.85	1.84	1.83	1.84	1.83	2.08	1.83	2.08	1.88
Diurnal Maximum	1.99	2.06	2.12	2.12	2.15	2.15	2.11	1.94	1.99	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.87	1.87	1.88	1.88	1.95	1.91	1.92	2.00					
Diurnal Average	1.88	1.90	1.90	1.91	1.92	1.92	1.91	1.88	1.88	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.87					

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

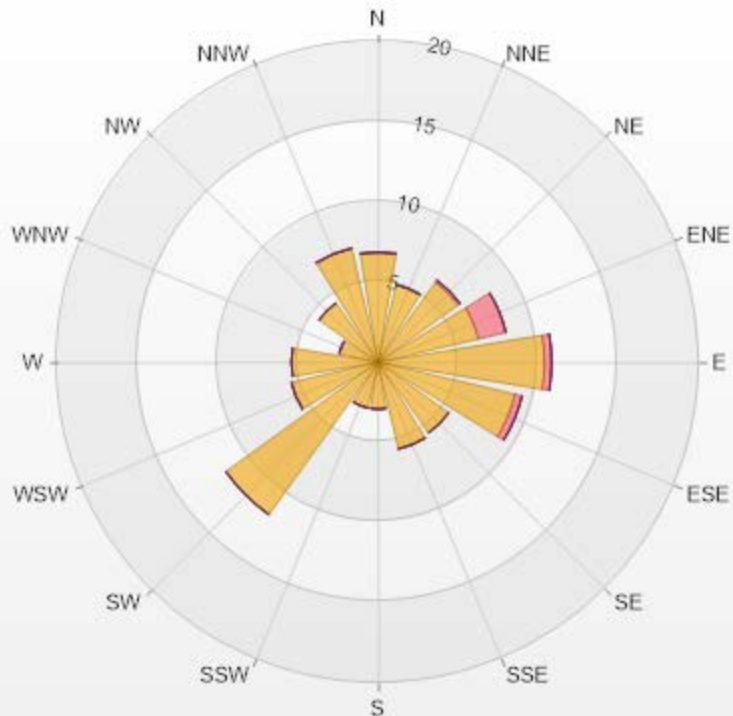
Timeseries Chart of Hourly Average for CH4 - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	6.86	0	0	0	0	6.86
NNE	4.96	0	0	0	0	4.96
NE	6.13	0.15	0	0	0	6.28
ENE	6.42	1.75	0	0	0	8.17
E	10.36	0.44	0	0	0	10.8
ESE	8.76	0.44	0	0	0	9.2
SE	5.4	0	0	0	0	5.4
SSE	5.55	0	0	0	0	5.55
S	2.92	0	0	0	0	2.92
SSW	2.92	0	0	0	0	2.92
SW	11.68	0	0	0	0	11.68
WSW	5.55	0	0	0	0	5.55
W	5.4	0	0	0	0	5.4
WNW	2.48	0	0	0	0	2.48
NW	4.53	0	0	0	0	4.53
NNW	7.3	0	0	0	0	7.3
Summary	97.22	2.78	0	0	0	100



PRAMP-202206

Page 93 of 276

% Icon Classes (ppm)

97 0-2

3 2-5

0 5-10

0 10-20

0 >20.0



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

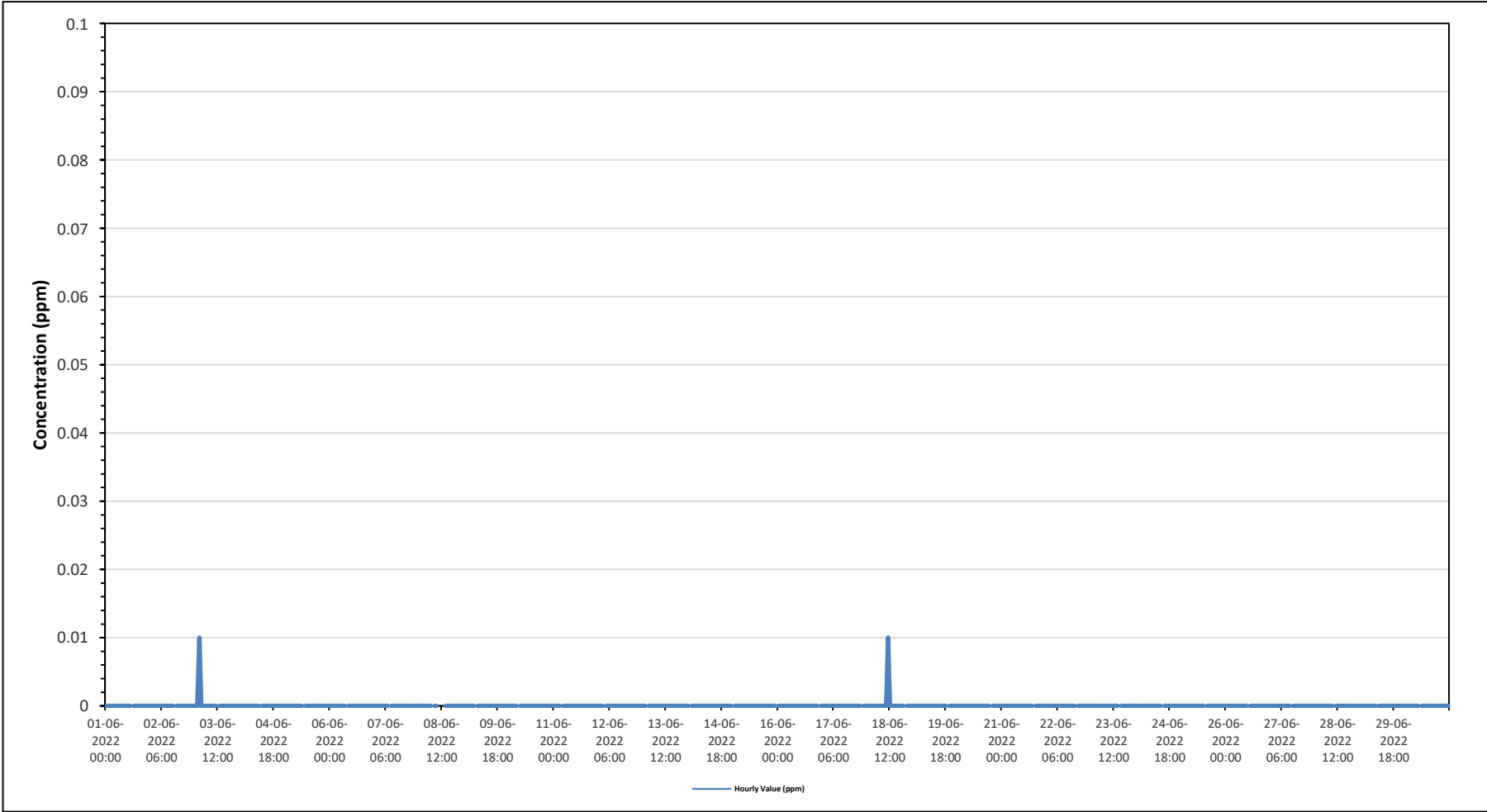
Maximum Hourly Value:	0.01 ppm on June 3 at hour 2	Hours in Service:	720
Maximum Daily Value:	0.00 ppm on June 3	Hours of Data:	685
Minimum Hourly Value:	0.00 ppm on June 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00 ppm on June 1	Hours of Calibration:	35
Monthly Average:	0.00 ppm	Operational Uptime:	100.0

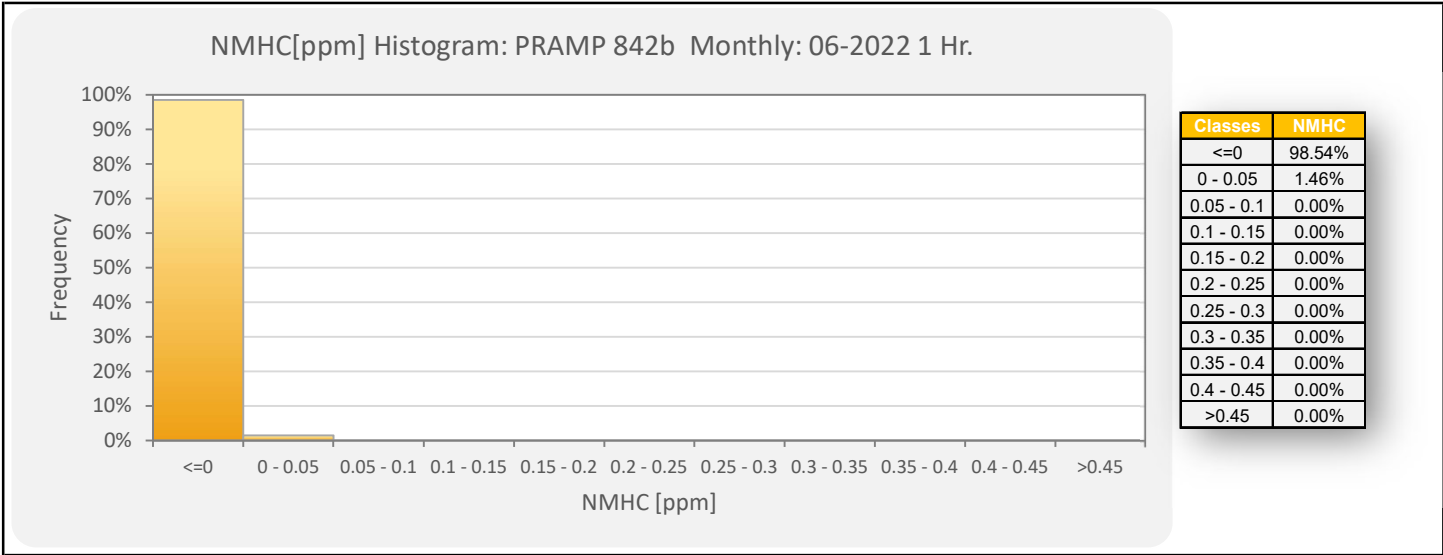
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23			
Jun 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 3	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 9	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 10	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 11	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 12	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 13	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 14	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 15	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	
Jun 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	
Jun 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	
Jun 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Diurnal Maximum	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

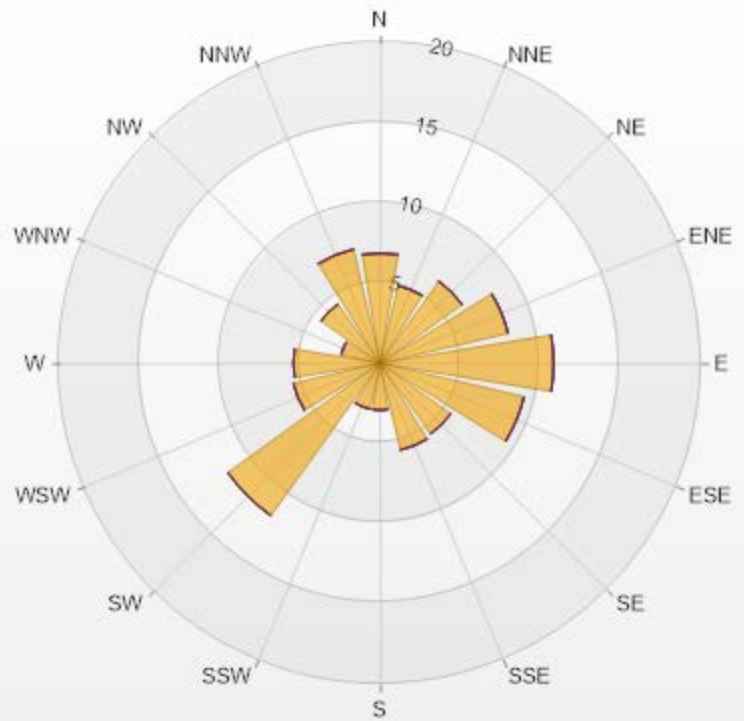
Timeseries Chart of Hourly Average for NMHC - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.86	0	0	0	0	6.86
NNE	4.96	0	0	0	0	4.96
NE	6.28	0	0	0	0	6.28
ENE	8.18	0	0	0	0	8.18
E	10.8	0	0	0	0	10.8
ESE	9.2	0	0	0	0	9.2
SE	5.4	0	0	0	0	5.4
SSE	5.55	0	0	0	0	5.55
S	2.92	0	0	0	0	2.92
SSW	2.92	0	0	0	0	2.92
SW	11.68	0	0	0	0	11.68
WSW	5.55	0	0	0	0	5.55
W	5.4	0	0	0	0	5.4
WNW	2.48	0	0	0	0	2.48
NW	4.53	0	0	0	0	4.53
NNW	7.3	0	0	0	0	7.3
Summary	100	0	0	0	0	100



PRAMP-202206

% Icon Classes (ppm)	100	0-0.1	0.1-0.3	0.3-1	1-2	>2.0
----------------------	-----	-------	---------	-------	-----	------



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100 %	on June 9 at hour 2	Hours in Service:	720
Maximum Daily Value:	96.8 %	on June 18	Hours of Data:	720
Minimum Hourly Value:	13 %	on June 3 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	38.0 %	on June 4	Hours of Calibration:	0
Monthly Average:	63.5 %		Operational Uptime:	100.0

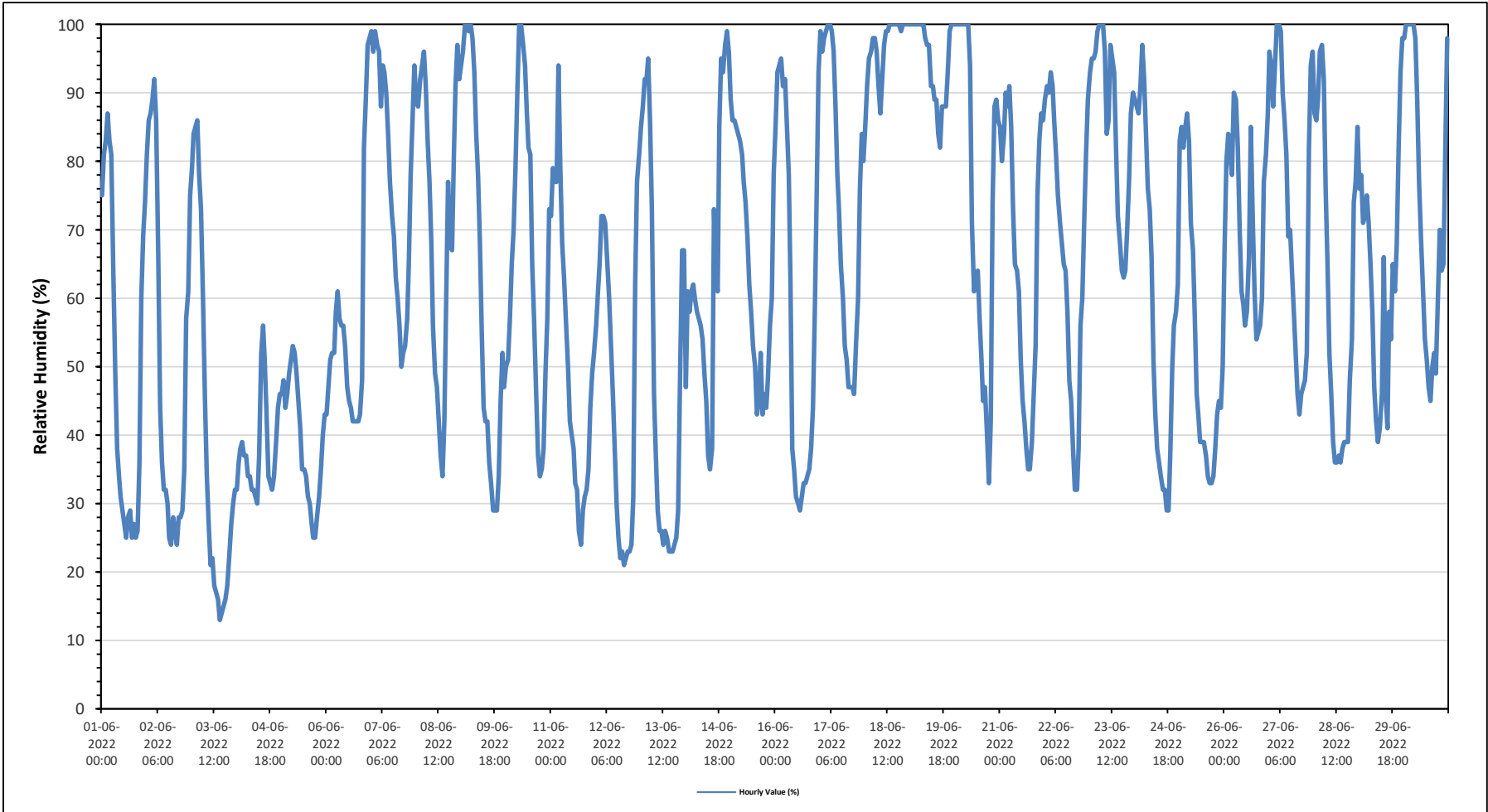
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	75	81	83	87	83	81	65	49	38	34	31	29	27	25	28	29	25	27	25	26	36	60	69	74	25	87	49.5	
Jun 2	81	86	87	89	92	86	66	44	36	32	32	30	25	24	28	26	24	28	28	29	35	57	61	75	24	92	50.0	
Jun 3	79	84	85	86	78	73	59	45	34	27	21	22	18	17	16	13	14	15	16	18	22	27	30	32	13	86	38.8	
Jun 4	32	36	38	39	37	37	34	34	32	32	31	30	37	52	56	51	43	34	33	32	34	39	44	46	30	56	38.0	
Jun 5	46	48	44	46	49	51	53	52	49	45	41	35	35	34	31	30	27	25	25	28	31	35	40	43	25	53	39.3	
Jun 6	43	47	51	52	52	58	61	57	56	56	53	47	45	44	42	42	42	43	48	82	89	97	98	42	98	56.1		
Jun 7	99	96	99	97	96	88	94	93	90	84	77	72	69	63	60	56	50	52	53	57	65	78	86	94	50	99	77.8	
Jun 8	89	88	92	94	96	91	83	77	68	56	49	47	42	37	34	42	60	77	68	67	81	91	97	92	34	97	71.6	
Jun 9	94	96	100	100	99	100	98	93	84	78	68	55	44	42	42	36	33	29	29	34	45	52	47	29	100	63.6		
Jun 10	50	51	57	65	70	79	90	100	100	97	94	87	82	81	65	57	46	37	34	35	38	49	57	73	34	100	66.4	
Jun 11	72	79	77	77	94	79	68	63	56	50	42	40	38	33	32	26	24	29	31	32	35	44	49	52	24	94	50.9	
Jun 12	56	61	65	72	72	71	66	60	53	46	38	30	25	22	23	21	22	23	23	24	31	62	77	81	21	81	46.8	
Jun 13	85	88	92	92	95	86	73	46	37	29	26	26	24	26	25	23	23	23	24	25	29	48	67	67	23	95	49.1	
Jun 14	47	61	58	61	62	60	58	57	56	54	49	45	37	35	38	73	63	61	85	95	93	97	99	96	35	99	64.2	
Jun 15	89	86	86	85	84	83	81	77	74	69	62	58	53	50	43	45	52	43	46	44	48	56	60	78	43	89	64.7	
Jun 16	85	93	94	95	91	92	85	78	63	38	35	31	30	29	31	33	33	34	35	38	44	58	75	93	29	95	58.9	
Jun 17	99	96	98	99	100	100	99	96	88	78	73	65	60	53	51	47	47	47	46	53	60	76	84	80	46	100	74.8	
Jun 18	85	91	95	96	98	98	96	91	87	92	97	99	99	100	100	100	100	100	100	99	100	100	100	100	85	100	96.8	
Jun 19	100	100	100	100	100	100	100	100	100	98	97	97	91	89	89	84	82	88	88	88	93	99	100	100	82	100	94.8	
Jun 20	100	100	100	100	100	100	100	100	100	94	71	61	63	64	57	51	45	47	40	33	42	74	88	89	86	33	100	75.2
Jun 21	85	80	84	90	88	91	85	73	65	64	61	51	45	42	38	35	35	39	46	53	75	83	87	86	35	91	65.9	
Jun 22	89	91	90	93	91	86	81	75	71	68	65	64	58	48	45	38	32	32	38	56	60	71	81	89	32	93	67.2	
Jun 23	93	95	95	96	99	100	100	100	96	84	86	97	95	93	82	72	68	64	63	64	70	77	87	90	63	100	86.1	
Jun 24	89	88	87	91	97	92	84	76	73	66	51	43	38	36	34	32	32	29	29	38	50	56	58	62	29	97	59.6	
Jun 25	83	85	82	85	87	83	71	67	57	46	43	39	39	37	34	33	33	34	38	43	45	44	50	33	87	54.0		
Jun 26	67	80	84	81	78	90	89	82	70	61	59	56	58	66	85	72	61	54	55	56	60	77	81	87	54	90	71.2	
Jun 27	96	94	88	94	100	100	99	90	86	81	69	70	64	58	52	46	43	46	47	48	52	82	94	96	43	100	74.8	
Jun 28	87	86	89	96	97	92	76	65	52	46	39	36	36	37	36	38	39	39	39	48	54	74	77	85	36	97	61.0	
Jun 29	76	78	71	72	75	71	65	58	47	42	39	41	46	66	46	41	58	54	65	61	68	82	93	98	39	98	63.0	
Jun 30	98	100	100	100	100	100	98	89	77	69	62	54	51	47	45	50	52	49	60	70	64	65	82	98	45	100	74.2	
Diurnal Maximum	100	100	100	100	100	100	100	100	100	97	97	99	99	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100
Diurnal Average	79.0	81.5	82.4	84.3	85.3	83.9	79.2	72.9	66.2	59.7	55.0	51.8	49.2	48.2	46.2	44.6	43.7	43.1	44.7	48.0	55.4	67.0	73.9	78.3				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for RH - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

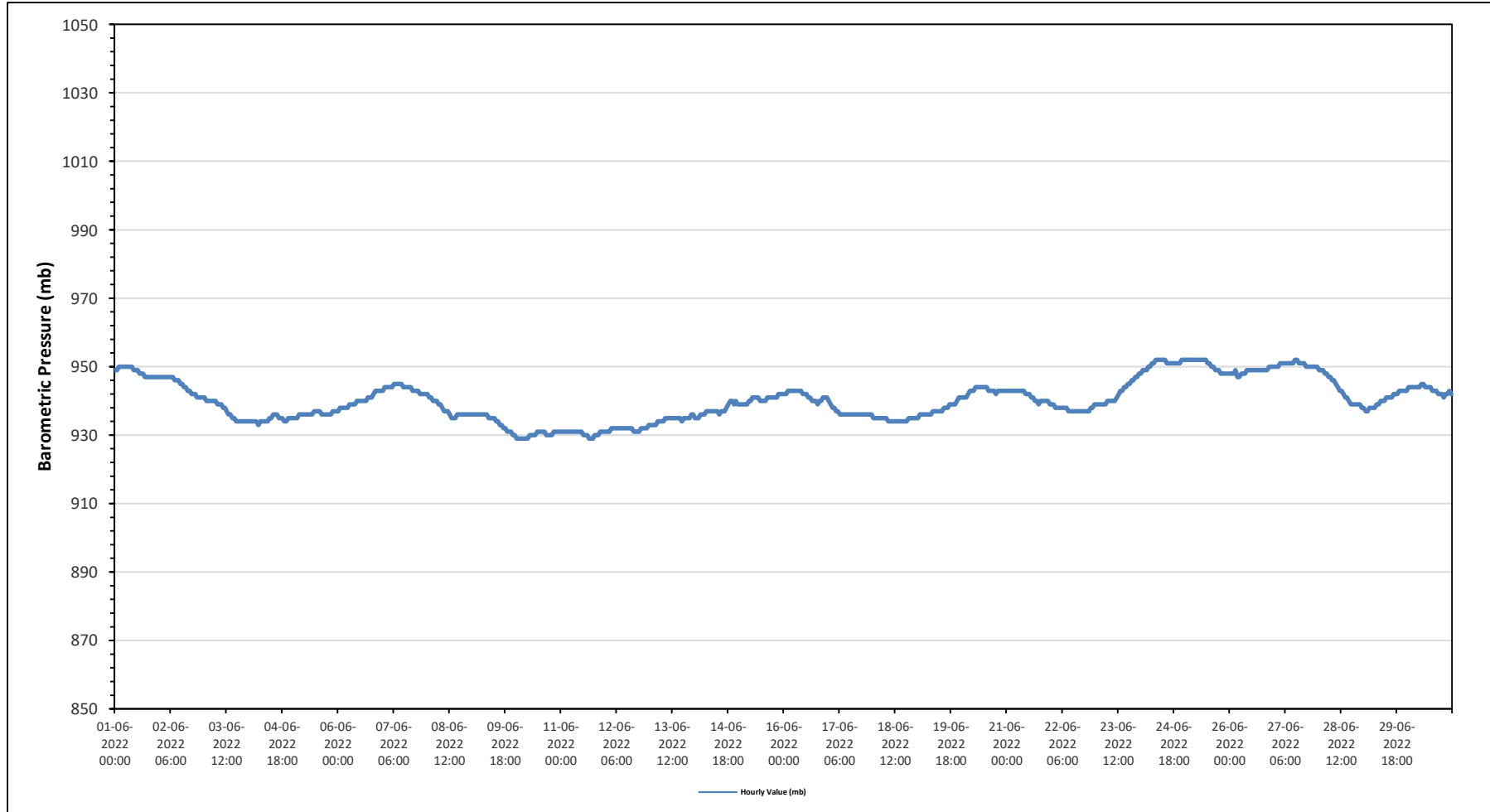
Maximum Hourly Value:	952 mb	on June 24 at hour 8	Hours in Service:	720
Maximum Daily Value:	951 mb	on June 24	Hours of Data:	720
Minimum Hourly Value:	929 mb	on June 10 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	930 mb	on June 10	Hours of Calibration:	0
Monthly Average:	940 mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Jun 1	949	949	950	950	950	950	950	950	950	950	949	949	949	948	948	948	947	947	947	947	947	947	947	947	947	947	947	950	949
Jun 2	947	947	947	947	947	947	947	947	946	946	946	945	945	944	944	943	943	942	942	942	941	941	941	941	941	941	941	947	945
Jun 3	941	940	940	940	940	940	940	939	939	939	938	938	937	936	936	935	935	934	934	934	934	934	934	934	934	934	934	941	937
Jun 4	934	934	934	934	934	933	934	934	934	934	934	935	935	936	936	936	935	935	935	935	934	934	935	935	935	935	933	936	935
Jun 5	935	935	935	936	936	936	936	936	936	936	936	937	937	937	937	936	936	936	936	936	936	936	937	937	937	935	937	936	
Jun 6	937	938	938	938	938	938	939	939	939	939	940	940	940	940	940	941	941	941	941	942	943	943	943	943	943	943	943	943	940
Jun 7	943	944	944	944	944	944	945	945	945	945	945	944	944	944	944	943	943	943	943	942	942	942	942	942	942	942	942	945	944
Jun 8	942	941	941	940	940	940	939	939	938	937	937	937	936	935	935	935	936	936	936	936	936	936	936	936	936	936	935	942	938
Jun 9	936	936	936	936	936	936	936	936	936	935	935	935	935	934	934	933	933	932	932	931	931	931	931	931	931	931	930	936	934
Jun 10	929	929	929	929	929	929	929	930	930	930	930	931	931	931	931	931	930	930	930	930	931	931	931	931	931	931	931	931	930
Jun 11	931	931	931	931	931	931	931	931	931	931	931	931	930	930	930	929	929	929	930	930	930	931	931	931	931	931	931	931	931
Jun 12	931	931	931	932	932	932	932	932	932	932	932	932	932	932	932	931	931	931	931	932	932	932	932	932	932	932	932	933	932
Jun 13	933	933	933	933	934	934	934	934	933	935	935	935	935	935	935	935	935	934	935	935	935	935	935	935	935	935	935	936	935
Jun 14	935	935	935	936	936	936	937	937	937	937	937	937	937	936	937	937	937	938	939	940	940	939	940	939	940	939	940	937	
Jun 15	939	939	939	939	939	940	940	941	941	941	941	940	940	940	940	941	941	941	941	941	941	942	942	942	942	942	939	942	940
Jun 16	942	942	943	943	943	943	943	943	943	943	942	942	942	941	941	940	940	940	939	940	940	941	941	941	941	941	939	943	942
Jun 17	940	939	938	938	937	937	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	940	937
Jun 18	935	935	935	935	935	935	935	935	934	934	934	934	934	934	934	934	934	934	934	935	935	935	935	935	935	935	934	935	935
Jun 19	935	936	936	936	936	936	936	936	937	937	937	937	937	937	938	938	938	939	939	939	939	940	941	941	941	935	941	938	
Jun 20	941	941	941	942	943	943	943	944	944	944	944	944	944	943	943	943	943	942	943	943	943	943	943	943	943	941	944	943	
Jun 21	943	943	943	943	943	943	943	943	943	943	942	942	942	941	941	940	940	939	940	940	940	940	939	939	939	939	943	942	
Jun 22	939	939	938	938	938	938	938	938	938	937	937	937	937	937	937	937	937	937	937	937	937	937	938	938	939	937	939	938	
Jun 23	939	939	939	939	939	939	940	940	940	940	940	941	942	943	943	944	944	945	945	946	946	947	947	948	939	948	942		
Jun 24	948	949	949	949	950	950	951	951	952	952	952	952	952	952	951	951	951	951	951	951	951	951	951	951	951	951	948	951	
Jun 25	952	952	952	952	952	952	952	952	952	952	952	952	951	951	950	950	949	949	949	949	948	948	948	948	948	948	948	952	951
Jun 26	948	948	948	949	947	947	948	948	948	949	949	949	949	949	949	949	949	949	949	949	950	950	950	950	950	947	950	949	
Jun 27	950	950	950	951	951	951	951	951	951	951	951	952	952	951	951	951	951	950	950	950	950	950	950	950	950	950	950	952	951
Jun 28	949	949	949	948	948	947	947	946	946	945	944	943	943	942	941	941	940	939	939	939	939	939	939	938	938	938	949	943	
Jun 29	938	937	937	938	938	938	938	939	939	940	940	940	941	941	941	941	942	942	942	942	943	943	943	943	943	943	943	943	940
Jun 30	944	944	944	944	944	944	944	945	945	944	944	944	943	943	943	943	942	942	942	941	942	942	942	942	942	942	942	945	943
Diurnal Maximum	952	952	952	952	952	952	952	952	952	952	952	952	952	952	951	951	951	951	951	951	951	951	951	951	951	951	952	951	
Diurnal Average	940	940	940	940	940	940	940	941	941	940	940	940	940	940	940	940	940	939	940	940	940	940	940	940	940	940	940	940	940

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for BP - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

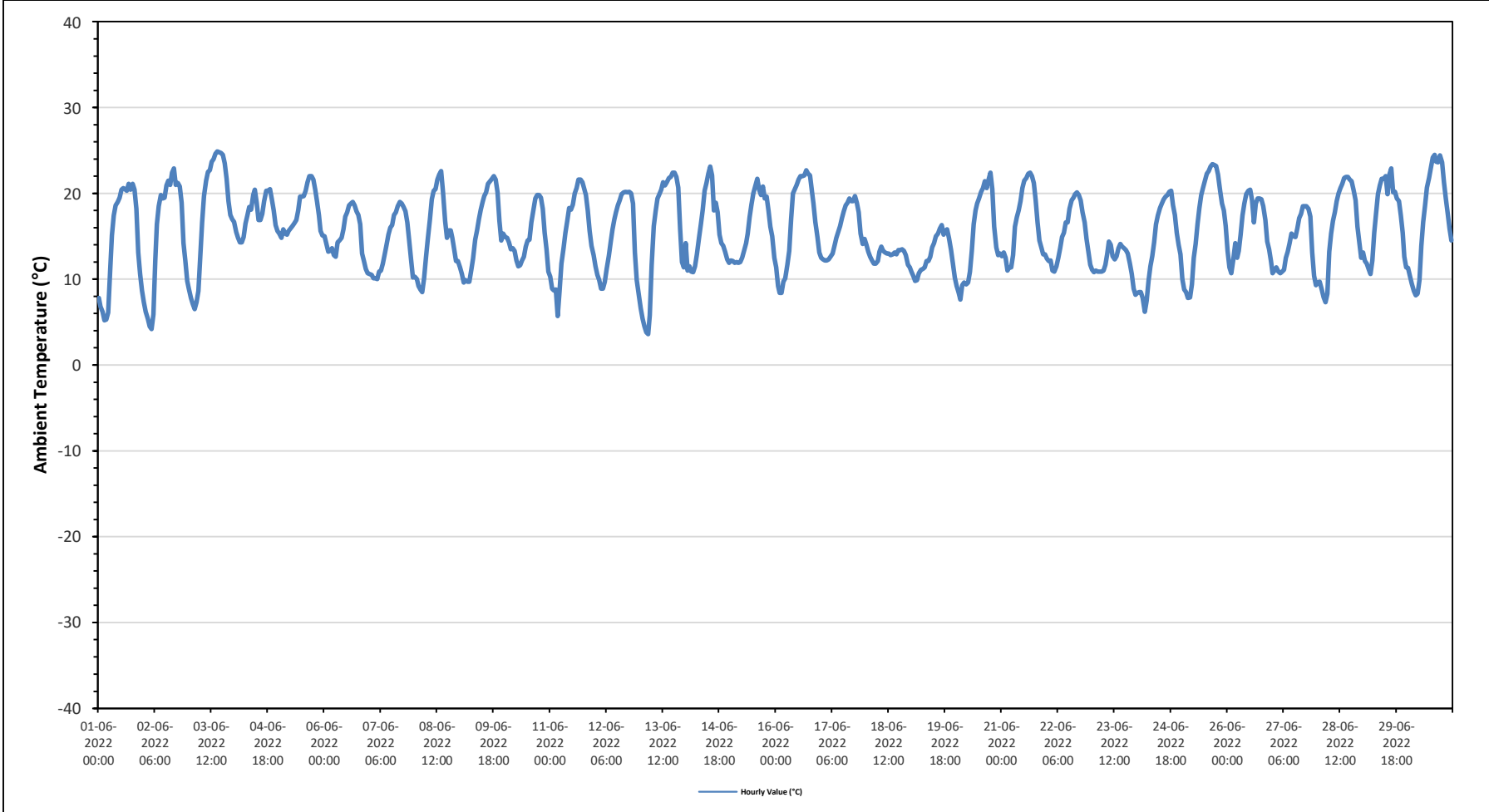
Maximum Hourly Value:	24.9 °C	on June 3 at hour 15	Hours in Service:	720
Maximum Daily Value:	18.0 °C	on June 3	Hours of Data:	720
Minimum Hourly Value:	3.6 °C	on June 13 at hour 4	Hours of Missing Data:	0
Minimum Daily Value:	12.0 °C	on June 23	Hours of Calibration:	0
Monthly Average:	15.5 °C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	7.8	6.8	6.2	5.2	5.3	6.1	10.7	15.1	17.4	18.6	19	19.5	20.4	20.6	20.5	20.3	21.1	20.4	21.1	20.4	18.2	13.1	10.6	8.7	5.2	21.1	14.7
Jun 2	7.3	6.2	5.4	4.5	4.2	5.9	12.2	16.4	18.5	19.8	19.4	19.5	20.9	21.5	21	22.4	22.9	21	21.2	20.8	18.9	14.2	12.1	9.8	4.2	22.9	15.3
Jun 3	8.9	7.8	7.1	6.5	7.3	8.6	12.6	16.6	19.7	21.5	22.5	22.7	23.7	24	24.6	24.9	24.8	24.7	24.5	23.5	21.7	19.1	17.5	17	6.5	24.9	18.0
Jun 4	16.7	15.5	14.8	14.3	14.3	14.9	16.5	17.4	18.4	18.1	19.8	20.4	18.9	16.9	16.9	17.6	19.1	20.3	20.3	20.5	19.3	18	16.3	15.6	14.3	20.5	17.5
Jun 5	15.3	14.8	15.8	15.3	15.2	15.6	15.9	16.2	16.5	16.9	18	19.6	19.6	19.7	20.3	21.3	22	22	21.6	20.4	19	17.4	15.6	15.1	14.8	22.0	17.9
Jun 6	15	14.1	13.2	13.3	13.6	12.8	12.6	14.3	14.5	14.8	15.8	17.3	17.8	18.6	18.8	19	18.6	17.9	17.5	16.4	13	12.1	11.2	10.7	10.7	19.0	15.1
Jun 7	10.6	10.5	10.1	10.1	10	10.9	11	11.8	12.9	14	15.2	16	16.3	17.5	17.8	18.5	19	18.8	18.4	17.9	16.6	14.5	12.3	10.2	10.0	19.0	14.2
Jun 8	10.3	10	9.2	8.8	8.5	10.1	12.5	14.7	17	19.3	20.3	20.5	21.6	22.2	22.6	20.2	16.8	14.8	15.7	15.7	14.8	13.5	12.1	12.1	8.5	22.6	15.1
Jun 9	11.4	10.6	9.6	9.9	9.7	11	12.4	14.6	15.7	17	18.1	19	19.7	20.1	21.1	21.4	21.7	22	21.6	20.1	16.8	14.5	15.3	9.6	22.0	16.0	
Jun 10	14.9	14.8	14.3	13.5	13.6	13.3	12.2	11.5	11.6	12.2	12.6	13.8	14.5	14.6	16.6	17.9	19.4	19.8	19.8	19.5	18.2	15.4	13.5	10.9	10.9	19.8	14.9
Jun 11	10.3	8.9	8.7	8.8	5.7	8.6	11.8	13.6	15.4	16.8	18.3	18.1	18.7	20	20.6	21.6	21.6	21.3	20.6	19.8	18	15.6	13.9	12.8	5.7	21.6	15.4
Jun 12	11.5	10.5	9.9	8.9	8.9	9.7	11.2	12.7	14.3	15.8	17	17.8	18.6	19.2	19.9	20.1	20.2	20.1	20.2	20	18.8	13.1	9.9	8.1	8.1	20.2	14.9
Jun 13	6.6	5.4	4.5	3.8	3.6	5.8	11.6	16.2	17.9	19.4	19.9	20.4	21.3	20.9	21.3	21.8	21.9	22.4	22.4	21.9	20.7	15.9	12	11.4	3.6	22.4	15.4
Jun 14	14.2	11	11.5	10.9	10.8	11.5	12.9	14.8	16.4	18.1	20.3	21.2	22.3	23.1	22.1	18	18.9	17.8	15.2	14.2	13.9	13.2	12.3	11.9	10.8	23.1	15.7
Jun 15	12.2	12.1	11.9	12	11.9	12	12.5	13.4	14.2	15.3	17.2	18.7	20	20.8	21.7	20.4	19.8	20.8	19.4	19.6	18	16.1	15	12.5	11.9	21.7	16.1
Jun 16	11.4	9.2	8.4	8.4	9.7	10.1	11.7	13.3	17	20	20.5	21	21.6	22	22	22.1	22.7	22.3	22.1	20.3	18.8	16.7	14.9	13.1	8.4	22.7	16.6
Jun 17	12.5	12.3	12.2	12.2	12.3	12.6	13	13.9	14.8	15.5	16.2	17.1	17.9	18.6	18.9	19.4	19.1	19.1	19.7	18.9	17.8	15.3	14.1	14.7	12.2	19.7	15.8
Jun 18	14	13.2	12.6	12.2	11.8	11.8	12.1	13.2	13.8	13.3	13.1	13	13	12.8	12.9	13.1	12.9	13.4	13.4	13.5	13.3	12.8	11.7	11.4	11.4	14.0	12.8
Jun 19	10.9	10.4	9.8	9.9	10.7	11.1	11.2	11.4	12.1	12.1	12.6	13.7	14.2	15	15.3	15.9	16.3	15.2	15.6	15.8	14.8	13.4	11.8	10.2	9.8	16.3	12.9
Jun 20	9.2	8.5	7.6	9.3	9.6	9.4	9.6	10.9	13.3	16.4	18	18.8	19.4	20.2	20.6	21.4	20.6	21.6	22.4	20.5	16.1	13.7	12.8	13	7.6	22.4	15.1
Jun 21	12.7	13.1	12.5	11	11.4	11.4	12.8	16.1	17.2	18	19.1	20.6	21.5	21.8	22.3	22.4	22	21.2	19.2	16.6	14.5	13.6	12.9	12.9	11.0	22.4	16.5
Jun 22	12.4	12.1	12.2	11	10.9	11.5	12.5	13.6	14.9	15.4	16.6	16.6	18.2	19.2	19.5	19.9	20.1	19.8	19.2	17.8	16.6	14.7	13.2	11.7	10.9	20.1	15.4
Jun 23	11.1	10.8	11	10.9	10.9	10.9	11	11.7	13	14.4	14	12.7	12.3	12.7	13.6	14.1	13.8	13.6	13.4	13	11.8	10.6	8.9	8.2	8.2	14.4	12.0
Jun 24	8.4	8.5	8.5	7.8	6.2	7.5	9.8	11.5	12.7	14.3	16.4	17.4	18.3	18.8	19.3	19.6	19.8	20.2	20.3	18.6	17.5	15.4	14	12.9	6.2	20.3	14.3
Jun 25	10	8.8	8.5	7.8	7.9	9.4	12.5	14.1	16.4	18.3	19.8	20.7	21.6	22.3	22.6	23.1	23.4	23.3	23.2	22.2	20.3	18.8	18	16.2	7.8	23.4	17.1
Jun 26	13.3	11.4	10.7	12.2	14.2	12.5	13.3	15.2	17.4	18.8	19.9	20.3	20.4	19.2	16.6	18.8	19.4	19.4	19.3	18.5	16.9	14.4	13.5	12.1	10.7	20.4	16.2
Jun 27	10.7	11	11.4	10.9	10.7	10.9	11.1	12.5	13.2	14.2	15.3	15	14.9	15.9	17.1	17.6	18.5	18.5	18.5	18.2	17.3	13.1	10.4	9.3	9.3	18.5	14.0
Jun 28	9.6	9.7	8.9	7.9	7.3	8.3	13.2	15.3	16.8	17.8	19.1	20	20.6	21.1	21.8	21.9	21.9	21.6	21.4	20.3	19.2	16.1	14.3	12.5	7.3	21.9	16.1
Jun 29	13.1	12.1	11.8	11.1	10.6	12.2	15.4	17.7	19.9	20.9	21.7	21.7	22	19.9	22.2	22.9	20.1	20.2	19.4	19.1	17.4	15.4	12.6	11.4	10.6	22.9	17.1
Jun 30	11.3	10.4	9.5	8.6	8.1	8.3	9.9	13.9	16.7	18.6	20.7	21.8	23	24.2	24.5	23.7	23.6	24.4	23.6	21.3	19.4	17.7	15.9	14.5	8.1	24.5	17.2
Diurnal Maximum	16.7	15.5	15.8	15.3	15.2	15.6	16.5	17.7	19.9	21.5	22.5	22.7	23.7	24.2	24.6	24.9	24.8	24.7	24.5	23.5	21.7	19.1	18.0	17.0			
Diurnal Average	11.5	10.7	10.3	9.9	9.8	10.4	12.2	14.0	15.6	16.8	17.8	18.5	19.1	19.4	19.8	20.0	20.1	19.9	19.7	18.9	17.4	15.0	13.3	12.2			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for AT - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

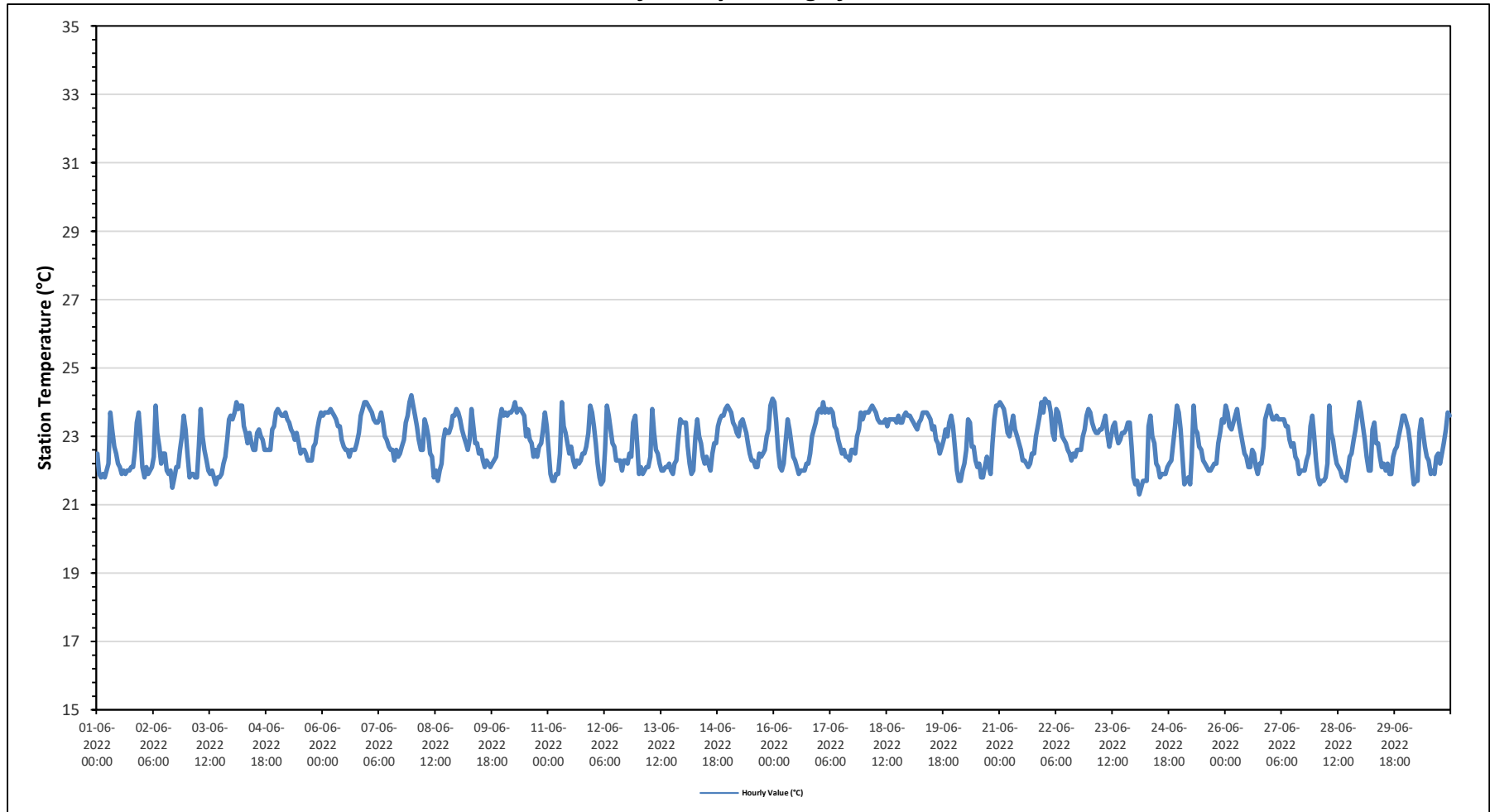
Maximum Hourly Value:	24.2 °C	on June 7 at hour 23	Hours in Service:	720
Maximum Daily Value:	23.6 °C	on June 18	Hours of Data:	720
Minimum Hourly Value:	21.3 °C	on June 24 at hour 2	Hours of Missing Data:	0
Minimum Daily Value:	22.3 °C	on June 3	Hours of Calibration:	0
Monthly Average:	22.8 °C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Jun 1	22.5	21.9	21.8	21.9	21.8	22.0	22.2	23.7	23.2	22.7	22.5	22.2	22.1	21.9	22.0	21.9	22.0	22.0	22.1	22.1	22.6	23.4	23.7	23.0	21.8	23.7	22.4		
Jun 2	22.1	21.8	22.1	21.9	22.0	22.1	22.4	23.9	23.1	22.7	22.2	22.5	22.5	22.0	21.9	22.0	21.8	21.6	21.8	21.8	21.9	22.2	22.4	22.9	23.5	23.6	21.6	23.8	22.3
Jun 3	22.5	21.8	21.9	21.9	21.8	21.8	22.7	23.8	23.0	22.6	22.3	22.0	21.9	22.0	21.8	21.6	21.8	21.8	21.9	22.2	22.4	22.9	23.5	23.6	21.6	23.8	22.3		
Jun 4	23.5	23.7	24.0	23.8	23.9	23.9	23.3	23.1	22.8	23.1	22.8	22.6	22.6	23.1	23.2	23.0	22.9	22.6	22.6	22.6	22.6	23.2	23.3	23.7	22.6	24.0	23.2		
Jun 5	23.8	23.7	23.6	23.6	23.7	23.5	23.4	23.2	23.1	22.9	23.1	22.8	22.5	22.6	22.6	22.5	22.3	22.3	22.3	22.7	22.8	23.2	23.5	23.7	22.3	23.8	23.1		
Jun 6	23.6	23.7	23.7	23.7	23.8	23.7	23.6	23.5	23.3	23.3	22.9	22.7	22.6	22.6	22.4	22.6	22.6	22.6	22.8	23.1	23.6	23.8	24.0	24.0	22.4	24.0	23.3		
Jun 7	23.9	23.8	23.7	23.5	23.4	23.4	23.5	23.7	23.4	23.0	22.9	22.7	22.6	22.6	22.3	22.6	22.4	22.5	22.7	22.9	23.4	23.6	24.0	24.2	22.3	24.2	23.2		
Jun 8	23.9	23.6	23.3	22.9	22.6	22.6	23.5	23.3	23.0	22.5	22.4	21.8	22.0	21.7	22.0	22.2	22.9	23.2	23.1	23.1	23.3	23.6	23.6	23.8	21.7	23.9	22.9		
Jun 9	23.7	23.5	23.2	23.0	22.8	22.6	22.9	23.8	23.3	22.8	22.8	22.5	22.6	22.3	22.1	22.3	22.2	22.1	22.2	22.3	22.4	23.0	23.5	23.8	22.1	23.8	22.8		
Jun 10	23.6	23.7	23.6	23.7	23.7	23.8	24.0	23.7	23.8	23.8	23.7	23.6	23.0	23.2	22.9	22.8	22.4	22.6	22.4	22.7	22.8	23.2	23.7	23.3	22.4	24.0	23.3		
Jun 11	22.6	21.9	21.7	21.7	21.9	21.9	22.5	24.0	23.3	23.1	22.8	22.5	22.7	22.3	22.1	22.3	22.2	22.3	22.5	22.5	22.7	23.1	23.9	23.7	21.7	24.0	22.6		
Jun 12	23.3	22.8	22.2	21.8	21.6	21.7	22.6	23.9	23.6	23.2	22.8	22.7	22.3	22.3	22.3	22.0	22.3	22.3	22.2	22.5	22.4	23.4	23.6	22.8	21.6	23.9	22.6		
Jun 13	21.9	22.1	21.9	22.0	22.1	22.1	22.4	23.8	23.1	22.6	22.5	22.2	22.0	22.0	22.1	22.1	22.2	22.0	21.9	22.2	22.3	22.9	23.5	23.4	21.9	23.8	22.4		
Jun 14	23.4	23.4	22.7	22.2	21.9	22.0	23.0	23.5	23.0	22.8	22.4	22.2	22.4	22.2	22.0	22.5	22.8	22.8	23.3	23.5	23.6	23.6	23.8	23.9	21.9	23.9	22.9		
Jun 15	23.8	23.7	23.4	23.3	23.1	23.0	23.4	23.5	23.3	23.1	22.8	22.5	22.3	22.3	22.1	22.1	22.5	22.4	22.5	22.6	23.0	23.2	23.9	24.1	22.1	24.1	23.0		
Jun 16	24.0	23.4	22.6	22.1	22.0	22.2	22.8	23.5	23.2	22.8	22.4	22.3	22.1	21.9	22.0	22.0	22.2	22.2	22.5	23.0	23.2	23.4	23.7	21.9	24.0	22.6			
Jun 17	23.8	23.7	24.0	23.7	23.8	23.7	23.8	23.7	23.3	23.2	22.9	22.7	22.5	22.6	22.4	22.4	22.3	22.6	22.6	22.5	23.0	23.2	23.7	23.5	22.3	24.0	23.2		
Jun 18	23.7	23.7	23.7	23.8	23.9	23.8	23.7	23.5	23.4	23.4	23.4	23.5	23.3	23.5	23.5	23.5	23.4	23.6	23.4	23.4	23.6	23.7	23.6	23.3	23.9	23.6			
Jun 19	23.6	23.5	23.4	23.3	23.2	23.4	23.5	23.7	23.7	23.7	23.6	23.5	23.2	23.3	22.9	22.8	22.5	22.7	22.9	23.2	23.0	23.4	23.6	23.3	22.5	23.7	23.3		
Jun 20	22.7	22.0	21.7	21.7	22.0	22.2	22.6	23.5	23.4	22.7	22.7	22.3	22.1	22.2	21.8	21.8	22.1	22.4	22.1	21.9	22.8	23.5	23.9	23.9	21.7	23.9	22.5		
Jun 21	24.0	23.9	23.8	23.5	23.1	23.0	23.3	23.6	23.2	23.0	22.8	22.6	22.3	22.3	22.2	22.1	22.2	22.5	22.5	23.0	23.3	23.6	24.0	23.7	22.1	24.0	23.1		
Jun 22	24.1	24.0	24.0	23.7	23.1	22.9	23.8	23.7	23.4	23.0	22.9	22.8	22.6	22.5	22.3	22.5	22.4	22.6	22.6	22.6	23.0	23.2	23.6	23.8	22.3	24.1	23.1		
Jun 23	23.7	23.4	23.2	23.1	23.1	23.2	23.2	23.4	23.6	23.1	22.7	23.0	23.3	23.4	23.0	22.8	22.9	23.1	23.1	23.2	23.4	23.4	22.7	21.8	21.8	23.7	23.1		
Jun 24	21.6	21.7	21.3	21.5	21.7	21.7	21.7	23.3	23.6	23.0	22.8	22.2	22.1	21.8	21.9	21.9	21.9	22.1	22.2	22.3	22.8	23.3	23.9	23.7	21.3	23.9	22.3		
Jun 25	23.2	22.4	21.6	21.7	21.8	21.6	22.4	23.9	23.2	23.1	22.7	22.6	22.3	22.2	22.1	22.0	22.0	22.1	22.2	22.2	22.8	23.1	23.5	23.4	21.6	23.9	22.5		
Jun 26	23.9	23.7	23.3	23.2	23.4	23.6	23.8	23.4	23.1	22.8	22.5	22.4	22.1	22.1	22.6	22.5	22.1	21.9	22.2	22.2	22.7	23.5	23.7	23.9	21.9	23.9	22.9		
Jun 27	23.7	23.5	23.5	23.6	23.5	23.5	23.5	23.5	23.3	23.3	22.9	22.7	22.8	22.4	22.3	21.9	22.0	22.0	22.0	22.3	22.5	23.3	23.6	23.0	21.9	23.7	22.9		
Jun 28	22.3	21.8	21.6	21.7	21.7	21.8	22.2	23.9	23.1	22.9	22.5	22.2	22.1	22.0	21.8	21.8	21.7	22.0	22.4	22.5	22.9	23.2	23.6	24.0	21.6	24.0	22.4		
Jun 29	23.7	23.3	22.9	22.4	22.0	22.0	23.2	23.4	22.8	22.8	22.4	22.1	22.2	22.0	22.2	21.9	21.9	22.4	22.6	22.7	23.0	23.3	23.6	23.6	21.9	23.7	22.7		
Jun 30	23.4	23.2	22.8	22.1	21.6	21.7	21.7	23.1	23.5	23.1	22.7	22.4	22.3	21.9	22.0	21.9	22.4	22.5	22.2	22.5	22.8	23.2	23.7	23.6	21.6	23.7	22.6		
Diurnal Maximum	24.1	24.0	24.0	23.8	23.9	23.9	24.0	24.0	23.8	23.8	23.7	23.6	23.3	23.5	23.5	23.5	23.5	23.4	23.6	23.5	23.6	23.8	24.0	24.2					
Diurnal Average	23.3	23.1	22.9	22.7	22.7	23.0	23.6	23.3	23.0	22.8	22.6	22.4	22.4	22.3	22.3	22.3	22.4	22.5	22.6	22.9	23.3	23.6	23.6						

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for ST - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

PRECIPITATION in mm

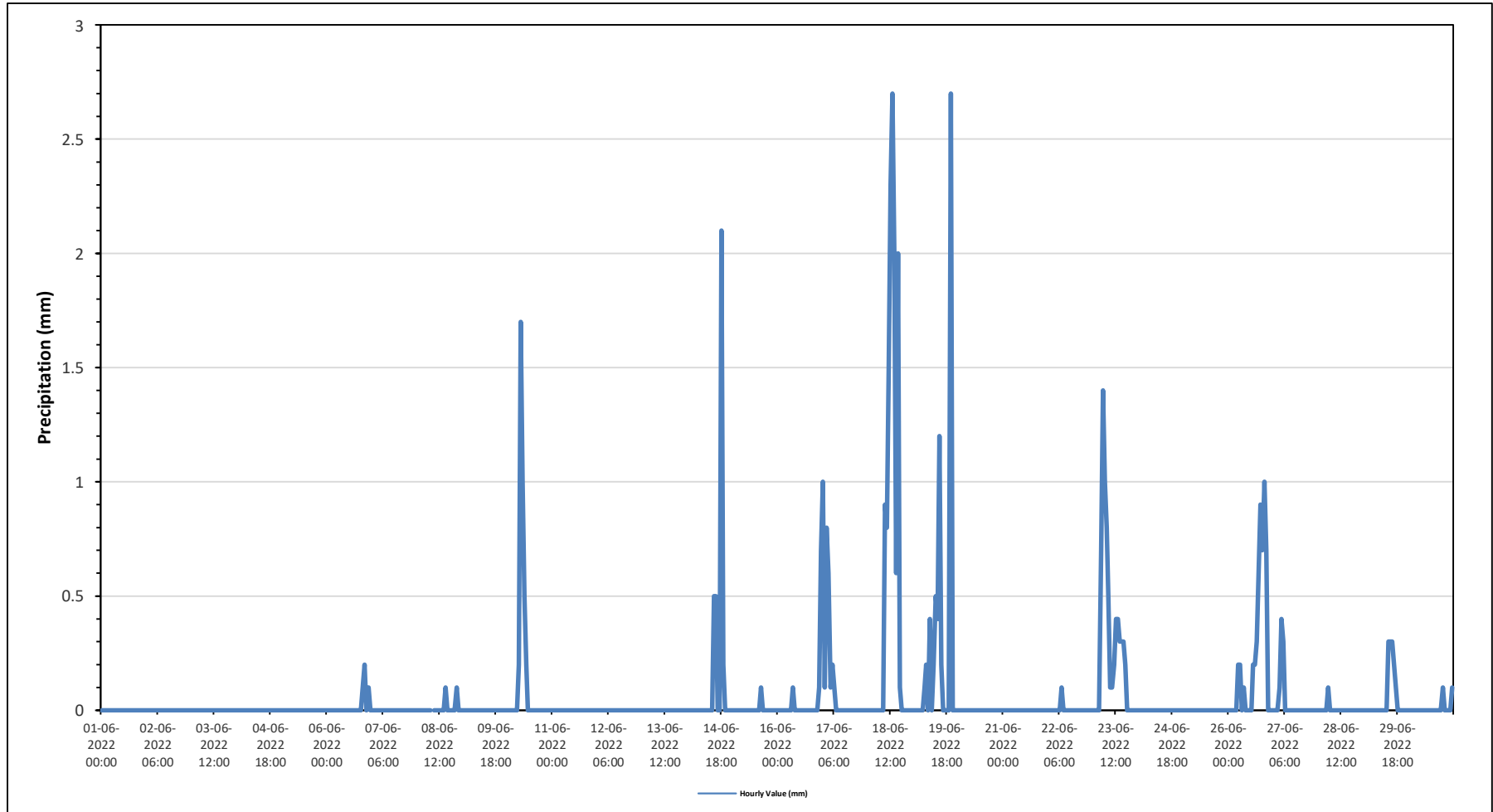
Maximum Hourly Value:	2.7 mm on June 18 at hour 13	Hours in Service:	720
Maximum Daily Value:	12.9 mm on June 18	Hours of Data:	719
Minimum Hourly Value:	0.0 mm on June 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 mm on June 1	Hours of Calibration:	1
Monthly Total:	44.4 mm	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0	0.1	0	0.0	0.2	0.4
Jun 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 8	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0.1	0	0	0	0	0	0.1	0	0	0.0	0.1	0.2
Jun 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 10	0	0	0	0	0	0	0.2	1.7	1	0.5	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.7	3.6
Jun 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	2.1	0.2	0	0	0	0	0.0	2.1	3.3
Jun 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Jun 16	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0.0	0.7	0.9
Jun 17	1	0.1	0.8	0.6	0.1	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.0	2.9
Jun 18	0	0	0	0	0	0	0	0	0	0.9	0.8	1.5	2.3	2.7	2	0.6	2	0.1	0	0	0	0	0	0	0.0	2.7	12.9
Jun 19	0	0	0	0	0	0	0.1	0.2	0	0.4	0	0.2	0.5	0.4	1.2	0.2	0	0	0	0	2.7	0	0	0	0.0	2.7	5.9
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 22	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Jun 23	0	0	0	0	0.7	1.4	1	0.8	0.5	0.1	0.1	0.2	0.4	0.4	0.3	0.3	0.3	0.2	0	0	0	0	0	0	0.0	1.4	6.7
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 26	0	0	0	0	0	0.2	0.2	0	0.1	0	0	0	0	0.2	0.2	0.3	0.6	0.9	0.7	1	0.7	0	0	0	0.0	1.0	5.1
Jun 27	0	0	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	0.8
Jun 28	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Jun 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.3	0.3	0.2	0.1	0	0	0	0	0	0	0.0	0.3	1.2
Jun 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.1	0.0	0.1	0.2
Diurnal Maximum	1.0	0.1	0.8	0.6	0.7	1.4	1.0	1.7	1.0	0.9	0.8	1.5	2.3	2.7	2.0	0.6	2.0	0.9	2.1	1.0	2.7	0.1	0.1	0.7			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for Precipitation - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	21.6 kph	on June 4 at hour 12	Hours in Service:	720
Maximum Daily Value:	9.5 kph	on June 4	Hours of Data:	720
Minimum Hourly Value:	0.1 kph	on June 29 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	0.7 kph	on June 20	Hours of Calibration:	0
Monthly Average:	0.9 kph		Operational Uptime:	100.0

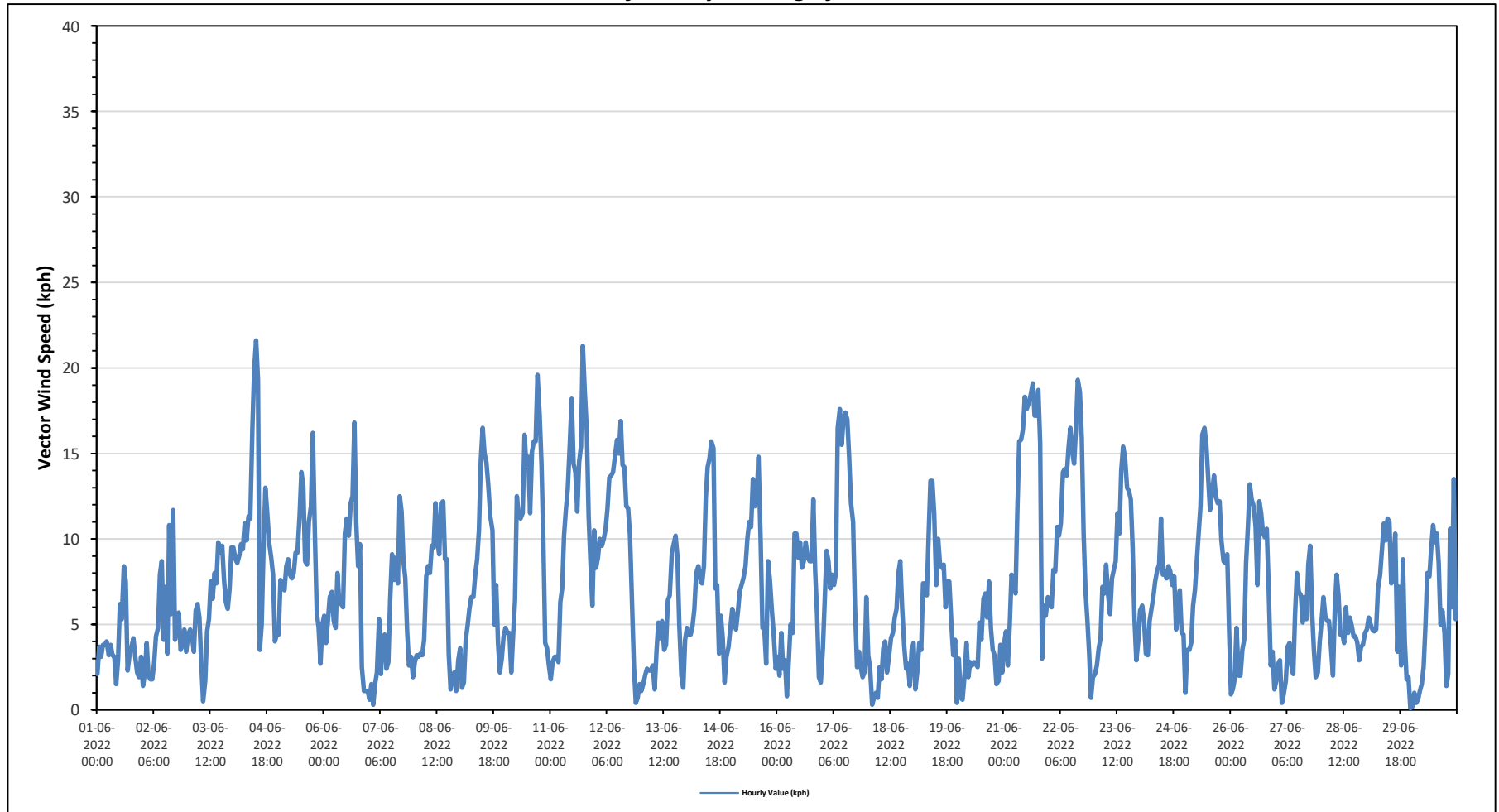
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	2.1	3.7	3.1	3.8	3.8	4.0	3.2	3.8	3.2	3.1	1.5	2.9	6.2	5.3	8.4	7.5	2.3	3.3	3.7	4.2	3.1	2.2	1.9	3.1	1.5	8.4	3.0
Jun 2	1.4	2.1	3.9	2.0	1.8	1.8	2.7	4.3	4.8	7.9	8.7	4.1	7.2	3.3	10.8	5.6	11.7	4.1	4.9	5.7	3.5	3.8	4.7	3.4	1.4	11.7	1.6
Jun 3	4.4	4.7	4.3	3.4	5.8	6.2	5.4	2.8	0.5	1.7	4.6	5.3	7.5	6.5	8.0	7.4	9.8	9.2	9.6	7.6	6.3	5.9	7.1	9.5	0.5	9.8	5.5
Jun 4	9.5	8.8	8.6	9.0	9.7	9.4	10.9	9.9	11.3	11.2	16.5	20.0	21.6	19.3	3.5	5.0	9.5	13.0	11.3	9.7	8.9	7.9	4.0	4.4	3.5	21.6	9.5
Jun 5	4.4	7.6	7.3	7.0	8.4	8.8	7.9	7.7	8.0	9.2	9.2	11.3	13.9	13.1	8.7	8.5	11.0	11.9	16.2	10.8	5.7	4.8	2.7	5.0	2.7	16.2	8.2
Jun 6	5.5	3.9	5.2	6.6	6.9	5.2	4.8	8.0	6.2	6.4	6.0	10.3	11.2	10.2	12.1	12.5	16.8	10.9	8.4	9.7	2.5	1.1	1.1	1.1	1.1	16.8	4.6
Jun 7	0.6	1.5	0.3	1.5	2.2	5.3	2.1	4.2	4.4	2.4	2.8	6.5	9.1	7.6	8.9	7.4	12.5	11.6	8.7	7.7	4.6	2.6	3.1	1.9	0.3	12.5	4.7
Jun 8	2.8	3.2	3.1	3.3	3.2	4.1	7.8	8.4	8.0	9.6	9.5	12.1	9.8	9.1	12.1	12.2	8.8	8.8	3.3	1.2	2.0	2.2	1.1	2.9	1.1	12.2	4.0
Jun 9	3.6	1.3	1.6	4.1	4.9	5.9	6.6	6.6	7.9	8.8	10.5	14.6	16.5	15.0	14.5	13.2	11.3	10.5	5.0	7.3	3.9	2.2	3.0	4.3	1.3	16.5	5.7
Jun 10	4.8	4.5	4.5	2.2	4.4	6.4	12.5	11.4	11.2	11.5	16.1	14.2	14.8	11.5	15.1	15.7	15.7	19.6	17.2	14.4	9.9	3.9	3.6	2.6	2.2	19.6	7.9
Jun 11	1.8	2.8	3.1	3.1	2.8	6.3	7.1	10.2	11.7	12.9	15.6	18.2	14.4	13.9	11.6	14.5	15.4	21.3	18.7	16.3	11.3	8.6	6.1	10.5	1.8	21.3	9.4
Jun 12	8.3	8.9	10.0	9.6	10.0	10.6	11.8	13.6	13.7	13.9	14.8	15.8	15.0	16.9	14.3	14.2	11.9	11.8	10.2	6.6	2.5	0.4	0.7	1.5	0.4	16.9	9.5
Jun 13	1.1	1.5	2.0	2.4	2.3	2.3	2.6	1.2	3.4	5.1	4.2	5.2	3.5	3.8	6.4	6.7	9.2	9.7	10.2	9.0	5.0	2.0	1.3	4.1	1.1	10.2	2.9
Jun 14	4.8	4.4	4.4	4.9	5.9	8.0	8.4	7.7	7.4	8.4	12.4	14.2	14.7	15.7	15.3	7.1	7.3	3.3	5.5	4.2	1.6	3.1	3.7	4.8	1.6	15.7	6.2
Jun 15	5.9	5.5	4.7	5.7	6.9	7.3	7.7	8.4	10.0	11.0	10.7	13.5	11.9	12.2	14.8	9.9	4.8	4.7	2.7	8.7	7.6	5.9	4.5	2.4	2.4	14.8	7.3
Jun 16	3.1	2.0	4.5	2.4	2.9	0.8	2.8	5.0	4.5	10.3	10.3	8.9	9.8	8.3	8.7	9.8	8.9	8.7	8.7	12.3	8.1	5.6	1.9	1.6	0.8	12.3	5.3
Jun 17	3.6	6.4	9.3	8.7	7.1	7.9	7.3	8.0	16.5	17.6	15.5	17.1	17.4	17.0	14.8	12.1	11.0	6.1	2.5	3.4	2.5	1.9	2.2	6.6	1.9	17.6	5.4
Jun 18	3.2	2.5	0.3	0.7	1.0	0.7	2.5	1.8	3.6	4.0	2.2	3.2	4.2	4.5	5.4	5.9	8.0	8.7	6.0	3.7	2.4	2.7	1.4	3.5	0.3	8.7	1.8
Jun 19	3.9	1.2	2.2	3.9	3.5	7.4	7.4	6.7	10.2	13.4	11.5	7.3	10.0	8.5	8.3	8.5	6.0	7.5	7.5	5.0	3.2	4.1	0.4	0.4	0.4	13.4	5.4
Jun 20	3.0	0.7	0.6	1.9	3.9	1.9	2.8	2.6	2.8	2.7	2.5	5.1	4.1	6.5	6.8	5.4	7.5	4.8	3.5	3.2	1.5	1.7	3.8	2.2	0.6	7.5	0.7
Jun 21	3.9	4.6	2.6	4.9	7.9	7.4	6.8	11.7	15.7	15.8	16.4	18.3	17.6	17.9	18.4	19.1	17.2	17.2	18.7	15.6	3.0	6.1	5.5	6.6	2.6	19.1	8.8
Jun 22	6.3	6.0	8.2	8.1	10.7	10.2	10.9	13.9	14.1	13.7	15.3	16.5	15.1	14.4	16.4	19.3	18.6	15.9	10.3	7.0	5.3	3.3	0.7	1.9	0.7	19.3	8.6
Jun 23	2.1	2.6	3.6	4.2	7.2	6.8	8.5	6.8	5.6	7.7	8.2	8.7	11.5	10.3	14.0	15.4	14.8	13.0	12.8	12.3	9.5	5.3	2.9	4.0	2.1	15.4	8.0
Jun 24	5.8	6.1	5.2	3.3	3.2	5.2	5.9	6.6	7.5	8.2	8.5	11.2	7.9	8.1	7.7	8.4	8.1	7.3	7.8	4.7	5.8	7.0	4.5	4.4	3.2	11.2	5.0
Jun 25	1.0	3.5	3.5	3.9	6.1	7.0	8.7	10.3	11.9	16.1	16.5	15.5	13.6	11.7	12.6	13.7	12.5	12.1	12.2	9.9	8.7	8.6	9.1	4.7	1.0	16.5	8.7
Jun 26	0.9	1.2	1.8	4.8	2.0	2.0	3.5	4.1	8.6	10.7	13.2	12.3	11.9	10.7	7.3	12.2	11.5	10.3	10.1	10.6	7.3	2.6	3.4	1.2	0.9	13.2	6.0
Jun 27	1.7	2.7	2.9	0.4	0.9	1.7	3.7	3.9	2.6	2.1	5.6	8.0	6.9	6.7	5.1	6.6	5.3	8.5	9.6	5.8	3.5	1.9	2.2	4.0	0.4	9.6	3.0
Jun 28	5.2	6.6	5.5	5.2	5.2	3.8	2.0	5.9	7.9	6.7	4.4	4.5	3.9	6.0	4.5	5.4	4.9	4.3	4.3	3.9	2.9	3.7	3.8	4.5	2.0	7.9	4.4
Jun 29	4.7	5.4	5.0	4.7	4.6	4.7	7.1	7.9	9.4	10.9	9.9	11.2	11.0	7.4	8.6	10.3	3.4	7.2	2.6	8.8	4.0	1.8	1.9	0.1	0.1	11.2	4.9
Jun 30	0.2	1.0	0.4	0.6	1.1	1.5	2.5	4.9	8.0	7.8	9.5	10.8	9.8	10.3	8.6	5.0	5.8	4.5	1.4	2.1	10.6	6.0	13.5	5.3	0.2	13.5	2.5
Diurnal Maximum	10	9	10	10	11	11	13	14	17	18	17	20	22	19	18	19	19	21	19	16	11	9	14	11			
Diurnal Average	3.7	3.9	4.1	4.2	4.9	5.4	6.1	6.9	8.0	9.0	9.8	11.0	11.0	10.4	10.4	10.1	10.1	9.6	8.5	7.8	5.3	3.9	3.7	3.8			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

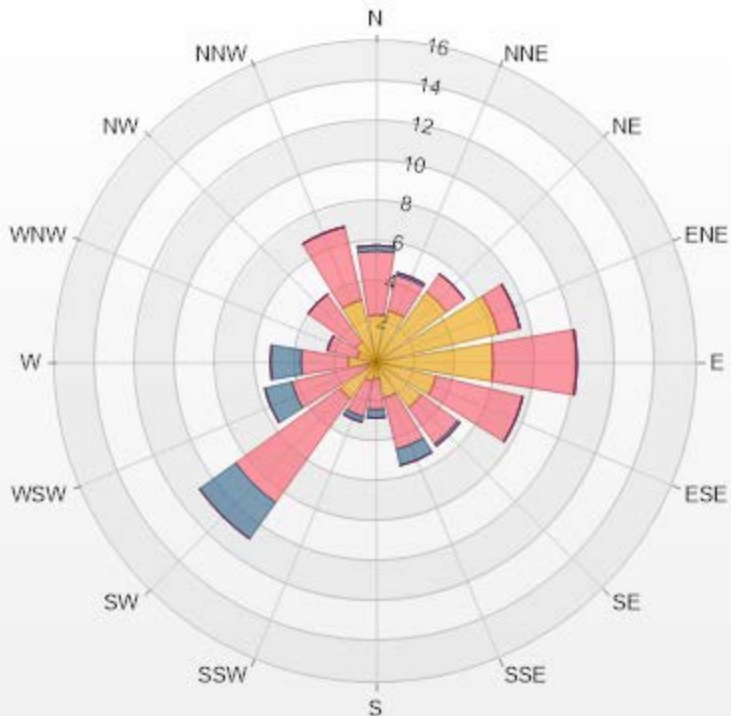
Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 06-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.

Calm: 7.64% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.36	3.19	0.28	0	0	5.83
NNE	2.64	1.81	0.14	0	0	4.59
NE	4.31	1.11	0	0	0	5.42
ENE	6.25	1.11	0	0	0	7.36
E	5.83	4.17	0	0	0	10
ESE	3.06	4.44	0	0	0	7.5
SE	2.78	2.22	0.14	0	0	5.14
SSE	1.81	2.64	0.83	0	0	5.28
S	0.83	1.53	0.42	0	0	2.78
SSW	0.97	1.81	0.28	0	0	3.06
SW	2.22	6.39	2.22	0	0	10.83
WSW	0.42	3.89	1.39	0	0	5.7
W	1.39	2.36	1.53	0	0	5.28
WNW	0.97	1.53	0	0	0	2.5
NW	1.25	2.92	0	0	0	4.17
NNW	3.19	3.75	0	0	0	6.94
Summary	40.28	44.87	7.23	0	0	92.38



PRAMP-202206

Page 112 of 276

% Icon Classes (KPH)	40	1.8-6.0	45	6.0-15.0	7	15.0-29.0	0	29.0-39.0	0	>39.0
----------------------	----	---------	----	----------	---	-----------	---	-----------	---	-------



PEACE RIVER AREA MONITORING PROGRAM

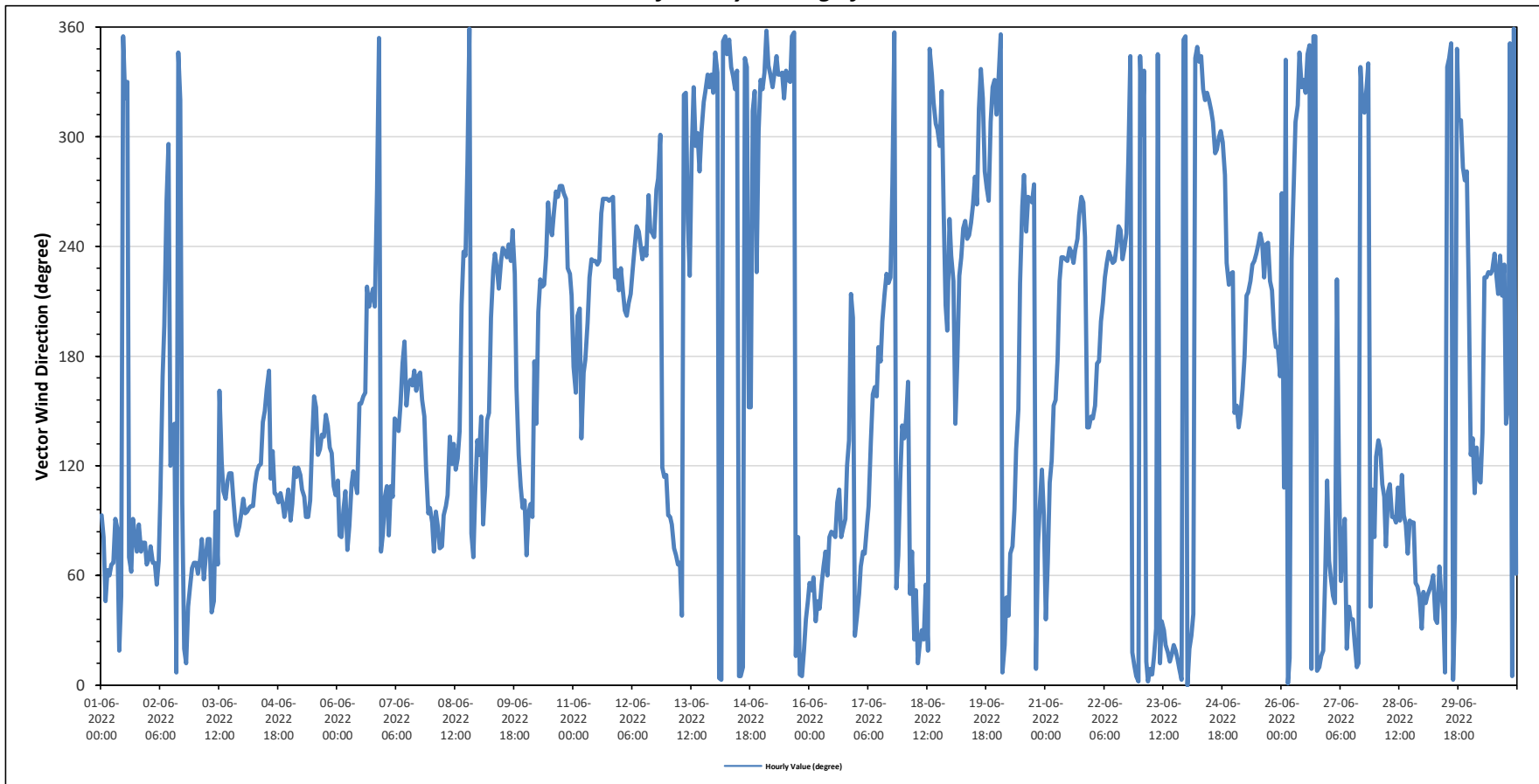
842b Station - June 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		225 (SW) degree										Hours in Service:		720																													
												Hours of Data:		720																													
												Hours of Missing Data:		0																													
												Hours of Calibration:		0																													
												Operational Uptime:		100.0																													
Day	Hourly Period Starting at (MST)																							Daily Average																			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant																	
Jun 1	E	E	NE	ENE	ENE	ENE	ENE	E	E	NNE	NE	N	NW	NNW	ENE	ENE	E	E	ENE	E	ENE	ENE	ENE	ENE	59	ENE																	
Jun 2	ENE	ENE	ENE	ENE	NE	ENE	ESE	SSE	SSW	W	WNW	ESE	SE	SE	N	NNW	NW	E	NNE	NNE	NE	NE	ENE	ENE	34	NE																	
Jun 3	ENE	ENE	ENE	E	ENE	ENE	E	E	NE	NE	E	ENE	SSE	ESE	ESE	E	ESE	ESE	ESE	E	E	E	E	E	95	E																	
Jun 4	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SSE	SSE	S	ESE	SE	ESE	ESE	E	ESE	E	E	E	ESE	120	ESE																	
Jun 5	E	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	125	SE																	
Jun 6	ESE	E	E	E	ESE	ENE	E	ESE	ESE	ESE	ESE	SSE	SSE	SSE	SW	SSW	SSW	SSW	SSW	W	N	ENE	E	154	SSE																		
Jun 7	ESE	ESE	E	ESE	ESE	SE	SE	SE	SSE	S	S	SSE	SSE	SSE	SSE	S	SSE	SSE	S	SSE	SE	ESE	E	E	156	SSE																	
Jun 8	E	ENE	E	E	ENE	ENE	E	ESE	SE	ESE	SE	ESE	ESE	SE	SSW	SW	SW	WNW	N	E	ENE	ESE	SE	129	SE																		
Jun 9	SE	SE	E	ESE	SE	SSE	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	SSE	SE	ESE	E	E	217	SW																		
Jun 10	ENE	E	E	E	S	SE	SSW	SW	SW	SW	SW	W	WSW	WSW	WSW	W	W	W	W	W	W	SW	SW	SSW	246	WSW																	
Jun 11	S	SSE	SSW	SSW	SE	S	S	SSW	SW	SW	SW	SW	SW	WSW	W	W	W	W	W	W	W	W	SW	SW	SW	239	WSW																
Jun 12	SW	SW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	W	WSW	WSW	WSW	W	W	WNW	ESE	ESE	ESE	238	SW																	
Jun 13	E	E	E	ENE	ENE	ENE	ENE	NE	NW	NW	WSW	SW	WNW	NW	WNW	WNW	W	WNW	NW	NW	NNW	NW	NNW	NW	314	NW																	
Jun 14	NNW	NNW	N	N	N	N	NNW	N	NNW	NNW	NW	NNW	N	N	NNW	NNW	SSE	SSE	NW	NW	SW	WNW	NNW	NNW	347	NNW																	
Jun 15	NW	NNW	N	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	N	N	NNE	E	N	N	NNE	NE	NE	343	NNW																	
Jun 16	NE	NE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	E	E	E	E	ESE	E	E	E	ESE	SE	SSW	SSW	NNE	NNE	87	E																	
Jun 17	NE	NE	ENE	ENE	ENE	E	E	SE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	W	N	NE	ENE	ESE	SE	161	SSE																		
Jun 18	SE	SE	SSE	NE	ENE	NNE	NE	NNE	NNE	NNE	NNE	NE	NNE	NNW	NNW	NW	NW	WNW	WNW	NW	WSW	SSW	SSW	WSW	333	NNW																	
Jun 19	SW	SW	SE	S	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	NW	NNW	NW	W	W	W	NW	NW	NNW	NW	268	W																	
Jun 20	NNW	N	N	NNE	NE	NE	ENE	ENE	E	SE	SSE	SW	W	W	WSW	W	W	W	N	ENE	E	ESE	E	274	W																		
Jun 21	NE	ENE	ESE	ESE	SSE	SSE	S	SW	SW	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	W	W	WSW	SE	SE	SE	229	SW																	
Jun 22	SE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WNW	NNW	NNE	NNE	N	N	233	SW																	
Jun 23	NNW	WNW	NNW	NNE	N	N	N	NNE	NNE	NNW	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	13	NNE																	
Jun 24	N	NNE	NNE	NE	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	W	SW	SW	SW	SW	312	NW																	
Jun 25	SSE	SSE	SE	SSE	SSE	S	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SSW	S	S	SSE	218	SW																	
Jun 26	W	ESE	NNW	N	NNE	SW	W	NW	NW	NNW	NW	NNW	NW	NNW	N	N	N	N	N	NNE	NNE	ENE	ESE	ESE	348	NNW																	
Jun 27	ENE	ENE	NE	NE	SW	ESE	ENE	ENE	E	NNE	NE	NE	NE	NNE	N	NNE	NNW	NW	NW	NW	NNW	NE	ESE	E	19	NNE																	
Jun 28	SE	SE	SE	ESE	ESE	ENE	ESE	ESE	E	E	E	ESE	E	E	ENE	E	ENE	E	E	E	NE	NE	NE	NNE	94	E																	
Jun 29	NE	NE	NE	NE	NE	ENE	NE	NE	ENE	NE	NE	NE	N	NNW	NNW	N	N	NE	NNW	NW	NW	W	W	SSW	16	NNE																	
Jun 30	SE	SE	ESE	SE	ESE	ESE	SE	SW	SW	SW	SW	SW	SW	SSW	SW	SSW	SW	SE	SSE	N	N	N	ENE	235	SW																		
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																				
K	Collection Error										N	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure									
X	Invalid Data (Machine Malfunction /Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																															
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																											

Timeseries Chart of Hourly Average for VWD - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																												
Maximum Hourly Value:	21.6	kph	on June 4 at hour 12	Hours in Service:	720																							
Maximum Daily Value:	9.5	kph	on June 4	Hours of Data:	720																							
Minimum Hourly Value:	0.1	kph	on June 29 at hour 23	Hours of Missing Data:	0																							
Minimum Daily Value:	0.7	kph	on June 20	Hours of Calibration:	0																							
Monthly Average:	0.9	kph		Operational Uptime:	100																							
WIND DIRECTION																												
Monthly Average:	225	(SW)	degree																									
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2.1	3.7	3.1	3.8	3.8	4.0	3.2	3.8	3.2	3.1	1.5	2.9	6.2	5.3	8.4	7.5	2.3	3.3	3.7	4.2	3.1	2.2	1.9	3.1	1.5	8.4	3.0	
E	E	NE	ENE	ENE	ENE	ENE	E	E	NNE	NE	N	NW	NNW	ENE	ENE	E	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	
Jun 2	1.4	2.1	3.9	2.0	1.8	1.8	2.7	4.3	4.8	7.9	8.7	4.1	7.2	3.3	10.8	5.6	11.7	4.1	4.9	5.7	3.5	3.8	4.7	3.4	1.4	11.7	1.6	
ENE	ENE	ENE	ENE	NE	ENE	ESE	SSE	SSW	W	WNW	ESE	SE	SE	N	NNW	NW	E	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	
Jun 3	4.4	4.7	4.3	3.4	5.8	6.2	5.4	2.8	0.5	1.7	4.6	5.3	7.5	6.5	8.0	7.4	9.8	9.2	9.6	7.6	6.3	5.9	7.1	9.5	0.5	9.8	5.5	
ENE	ENE	ENE	E	ENE	ENE	E	E	NE	NE	E	ENE	SSE	ESE	ESE	E	ESE	ESE	ESE	ESE	E	E	E	E	E	E	E	E	
Jun 4	9.5	8.8	8.6	9.0	9.7	9.4	10.9	9.9	11.3	11.2	16.5	20.0	21.6	19.3	3.5	5.0	9.5	13.0	11.3	9.7	8.9	7.9	4.0	4.4	3.5	21.6	9.5	
E	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SSE	SSE	S	ESE	SE	ESE	ESE	ESE	E	ESE	E	E	ESE	ESE	3.5	21.6	9.5	
Jun 5	4.4	7.6	7.3	7.0	8.4	8.8	7.9	7.7	8.0	9.2	9.2	11.3	13.9	13.1	8.7	8.5	11.0	11.9	16.2	10.8	5.7	4.8	2.7	5.0	2.7	16.2	8.2	
E	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	2.7	16.2	8.2	
Jun 6	5.5	3.9	5.2	6.6	6.9	5.2	4.8	8.0	6.2	6.4	6.0	10.3	11.2	12.1	12.5	16.8	10.9	8.4	9.7	2.5	1.1	1.1	1.1	1.1	1.1	16.8	4.6	
ESE	E	E	E	ESE	ENE	E	ESE	ESE	ESE	ESE	SSE	SSE	SSE	SSE	SE	SW	SSW	SSW	SW	SSW	W	N	ENE	E	1.1	16.8	4.6	
Jun 7	0.6	1.5	0.3	1.5	2.2	5.3	2.1	4.2	4.4	2.4	2.8	6.5	9.1	7.6	8.9	7.4	12.5	11.6	8.7	7.7	4.6	2.6	3.1	1.9	0.3	12.5	4.7	
ESE	ESE	E	ESE	ESE	SE	SE	SE	SSE	S	S	SSE	SSE	SSE	SSE	S	SSE	SSE	S	SSE	SE	ESE	E	E	E	0.3	12.5	4.7	
Jun 8	2.8	3.2	3.1	3.3	3.2	4.1	7.8	8.4	8.0	9.6	9.5	12.1	9.8	9.1	12.1	12.2	8.8	8.8	3.3	1.2	2.0	2.2	1.1	2.9	1.1	12.2	4.0	
E	ENE	E	E	ENE	ENE	E	E	ESE	SE	ESE	SE	ESE	ESE	SE	SSE	SW	SW	WNW	N	E	ENE	ESE	SE	2.9	1.1	12.2	4.0	
Jun 9	3.6	1.3	1.6	4.1	4.9	5.9	6.6	6.6	7.9	8.8	10.5	14.6	16.5	15.0	14.5	13.2	11.3	10.5	5.0	7.3	3.9	2.2	3.0	4.3	1.3	16.5	5.7	
SE	SE	E	ESE	SE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	E	4.3	16.5	5.7	
Jun 10	4.8	4.5	4.5	2.2	4.4	6.4	12.5	11.4	11.2	11.5	16.1	14.2	14.8	11.5	15.1	15.7	19.6	17.2	14.4	9.9	3.9	3.6	2.6	2.2	2.2	19.6	7.9	
ENE	E	E	E	S	SE	SSW	SSW	SSW	SSW	SSW	W	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	SSW	SSW	2.2	19.6	7.9	
Jun 11	1.8	2.8	3.1	3.1	2.8	6.3	7.1	10.2	11.7	12.9	15.6	18.2	14.4	13.9	11.6	14.5	15.4	21.3	18.7	16.3	11.3	8.6	6.1	10.5	1.8	21.3	9.4	
S	SSE	SSW	SSW	SE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	10.5	1.8	21.3	9.4
Jun 12	8.3	8.9	10.0	9.6	10.0	10.6	11.8	13.6	13.7	13.9	14.8	15.8	15.0	16.9	14.3	14.2	11.9	11.8	10.2	6.6	2.5	0.4	0.7	1.5	0.4	16.9	9.5	
SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	1.5	0.4	16.9	9.5
Jun 13	1.1	1.5	2.0	2.4	2.3	2.3	2.6	1.2	3.4	5.1	4.2	5.2	3.5	3.8	6.4	6.7	9.2	9.7	10.2	9.0	5.0	2.0	1.3	4.1	1.1	10.2	2.9	
E	E	E	ENE	ENE	ENE	ENE	NE	NW	NW	WSW	WSW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	4.1	1.1	10.2	2.9
Jun 14	4.8	4.4	4.4	4.9	5.9	8.0	8.4	7.7	7.4	8.4	12.4	14.2	14.7	15.7	15.3	7.1	7.3	3.3	5.5	4.2	1.6	3.1	3.7	4.8	1.6	15.7	6.2	
NNW	NNW	N	N	N	N	NNW	N	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	SSE	SSE	NNW	NNW	SSW	SSW	NNW	NNW	6.2	1.6	15.7	6.2
Jun 15	5.9	5.5	4.7	5.7	6.9	7.3	7.7	8.4	10.0	11.0	10.7	13.5	11.9	12.2	14.8	9.9	4.8	4.7	2.7	8.7	7.6	5.9	4.5	2.4	2.4	14.8	7.3	
NW	NNW	N	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	E	N	N	NNE	NE	2.4	2.4	14.8	7.3
Jun 16	3.1	2.0	4.5	2.4	2.9	0.8	2.8	5.0	4.5	10.3	10.3	8.9	9.8	8.3	8.7	9.8	8.9	8.7	8.7	12.3	8.1	5.6	1.9	1.6	0.8	12.3	5.3	
NE	NE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	E	E	E	E	E	ESE	E	E	ESE	E	ESE	SE	SSW	SSW	NNE	1.6	0.8	12.3	5.3
Jun 17	3.6	6.4	9.3	8.7	7.1	7.9	7.3	8.0	16.5	17.6	15.5	17.1	17.4	17.0	14.8	12.1	11.0	6.1	2.5	3.4	2.5	1.9	2.2	6.6	1.9	17.6	5.4	
NE	NE	ENE	ENE	ENE	E	E	SE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	6.6	1.9	17.6	5.4
Jun 18	3.2	2.5	0.3	0.7	1.0	0.7	2.5	1.8	3.6	4.0	2.2	3.2	4.2	4.5	5.4	5.9	8.0	8.7	6.0	3.7	2.4	2.7	1.4	3.5	0.3	8.7	1.8	
SE	SE	SSE	NE	ENE	NNE	NE	NNE	NNE	NNE	NNE	NE	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	3.5	0.3	8.7	1.8
Jun 19	3.9	1.2	2.2	3.9	3.5	7.4	7.4	6.7	10.2	13.4	13.4	11.5	7.3	10.0	8.5	8.3	8.5	6.0	7.5	7.5	5.0	3.2	4.1	0.4	0.4	13.4	5.4	
SW	SW	SE	S	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	0.4	0.4	13.4	5.4
Jun 20	3.0	0.7	0.6	1.9	3.9	1.9	2.8	2.6	2.8	2.7	2.5	5.1	4.1	6.5	6.8	5.4	7.5	4.8	3.5	3.2	1.5	1.7	3.8	2.2	0.6	7.5	0.7	
NNW	N	N	NNE	NE	NE	ENE	ENE	E	SE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	2.2	0.6	7.5	0.7



PEACE RIVER AREA MONITORING PROGRAM

842b Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																															
Maximum Hourly Value:	21.6 kph on June 4 at hour 12																														
Maximum Daily Value:	9.5 kph on June 4																														
Minimum Hourly Value:	0.1 kph on June 29 at hour 23																														
Minimum Daily Value:	0.7 kph on June 20																														
Monthly Average:	0.9 kph																														
Hours in Service:	720																														
Hours of Data:	720																														
Hours of Missing Data:	0																														
Hours of Calibration:	0																														
Operational Uptime:	100																														
WIND DIRECTION																															
Monthly Average:	225 (SW) degree																														
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average					
Jun 21	3.9	4.6	2.6	4.9	7.9	7.4	6.8	11.7	15.7	15.8	16.4	18.3	17.6	17.9	18.4	19.1	17.2	17.2	18.7	15.6	3.0	6.1	5.5	6.6	2.6	19.1	8.8				
Jun 22	6.3	6.0	8.2	8.1	10.7	10.2	10.9	13.9	14.1	13.7	15.3	16.5	15.1	14.4	16.4	19.3	18.6	15.9	10.3	7.0	5.3	3.3	0.7	1.9	0.7	19.3	8.6				
Jun 23	2.1	2.6	3.6	4.2	7.2	6.8	8.5	6.8	5.6	7.7	8.2	8.7	11.5	10.3	14.0	15.4	14.8	13.0	12.8	12.3	9.5	5.3	2.9	4.0	2.1	15.4	8.0				
Jun 24	5.8	6.1	5.2	3.3	3.2	5.2	5.9	6.6	7.5	8.2	8.5	11.2	7.9	8.1	7.7	8.4	8.1	7.3	7.8	4.7	5.8	7.0	4.5	4.4	3.2	11.2	5.0				
Jun 25	1.0	3.5	3.5	3.9	6.1	7.0	8.7	10.3	11.9	16.1	16.5	15.5	13.6	11.7	12.6	13.7	12.5	12.1	12.2	9.9	8.7	8.6	9.1	4.7	1.0	16.5	8.7				
Jun 26	0.9	1.2	1.8	4.8	2.0	2.0	3.5	4.1	8.6	10.7	13.2	12.3	11.9	10.7	7.3	12.2	11.5	10.3	10.1	10.6	7.3	2.6	3.4	1.2	0.9	13.2	6.0				
Jun 27	1.7	2.7	2.9	0.4	0.9	1.7	3.7	3.9	2.6	2.1	5.6	8.0	6.9	6.7	5.1	6.6	5.3	8.5	9.6	5.8	3.5	1.9	2.2	4.0	0.4	9.6	3.0				
Jun 28	5.2	6.6	5.5	5.2	5.2	3.8	2.0	5.9	7.9	6.7	4.4	4.5	3.9	6.0	4.5	5.4	4.9	4.3	4.3	3.9	2.9	3.7	3.8	4.5	2.0	7.9	4.4				
Jun 29	4.7	5.4	5.0	4.7	4.6	4.7	7.1	7.9	9.4	10.9	9.9	11.2	11.0	7.4	8.6	10.3	3.4	7.2	2.6	8.8	4.0	1.8	1.9	0.1	0.1	11.2	4.9				
Jun 30	0.2	1.0	0.4	0.6	1.1	1.5	2.5	4.9	8.0	7.8	9.5	10.8	9.8	10.3	8.6	5.0	5.8	4.5	1.4	2.1	10.6	6.0	13.5	5.3	0.2	13.5	2.5				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance														
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure						
X	Invalid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																						
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																															

RENO STATION



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

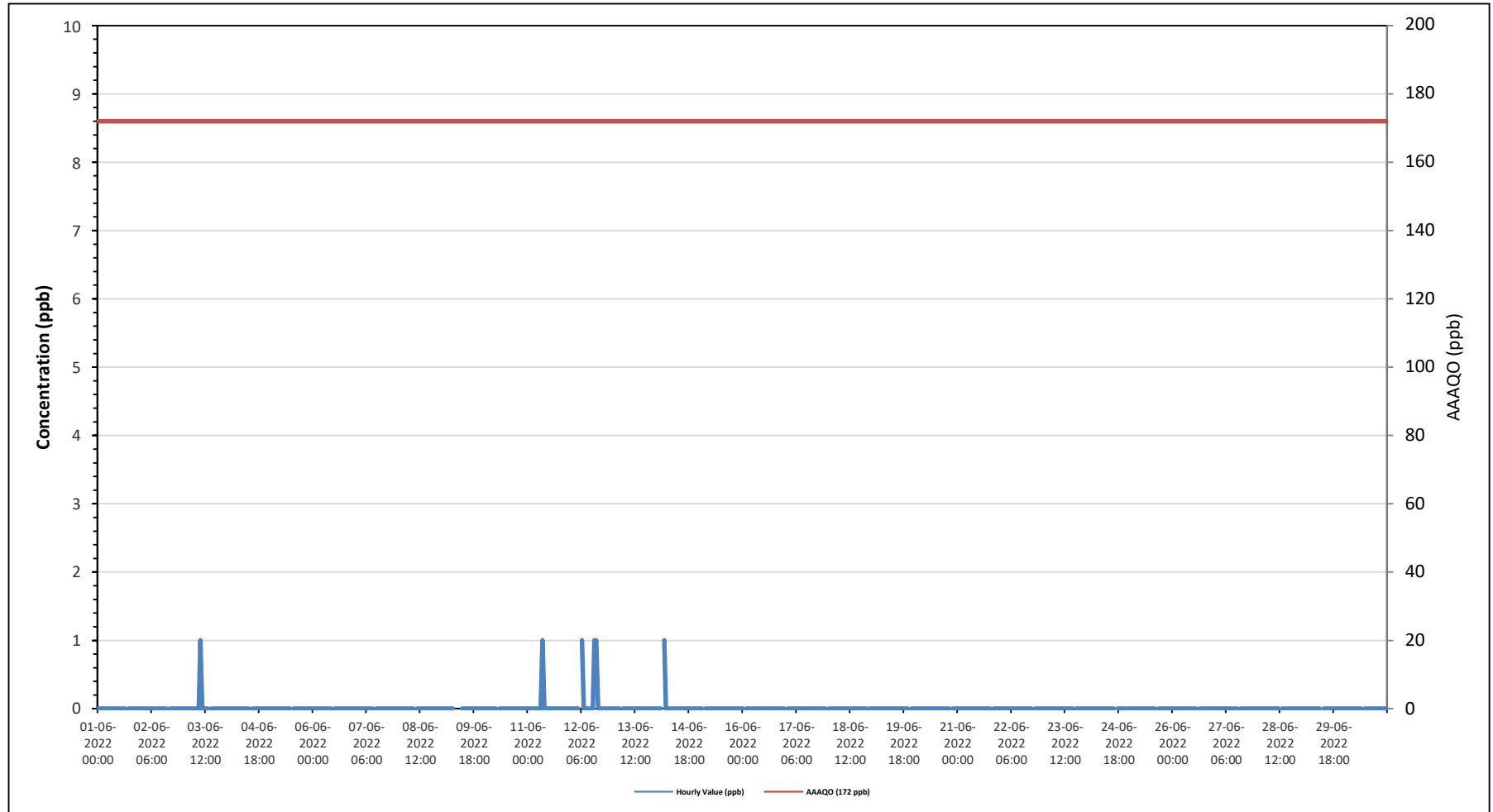
SULPHUR DIOXIDE (SO₂) in ppb

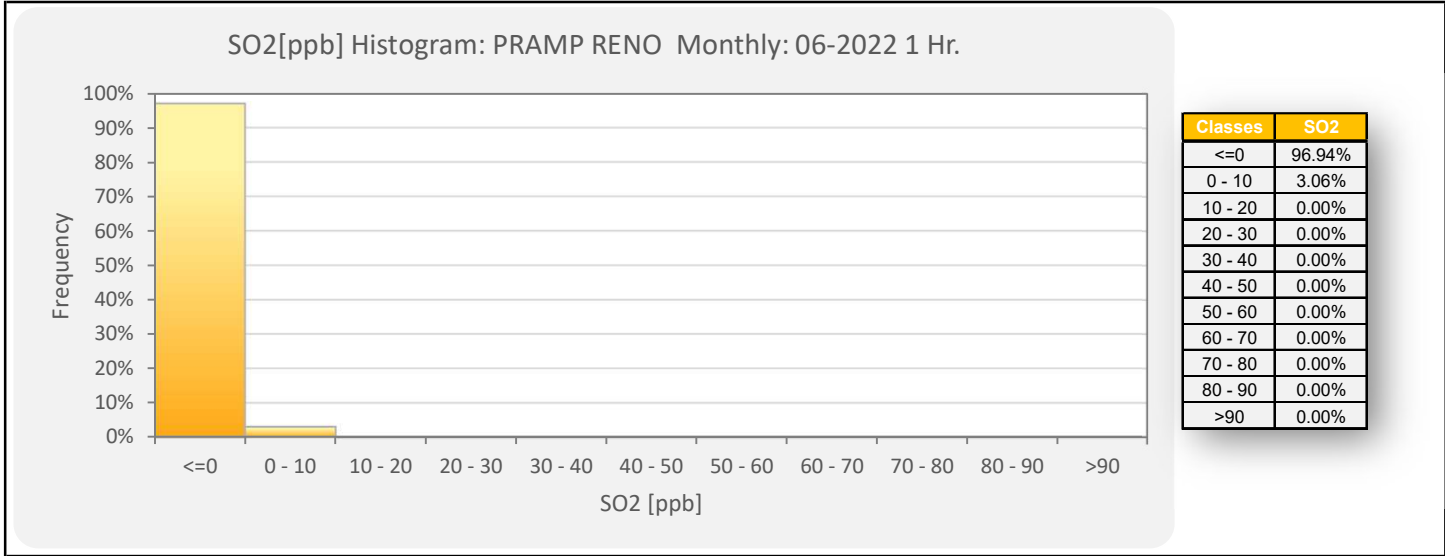
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																												
Number of 1-Hour Exceedances: 0						Number of 24-Hour Exceedances: 0						30-Day Exceedance: 0																
Maximum Hourly Value: 1 ppb on June 3 at hour 9						Hours in Service: 720						Maximum Daily Value: 0.1 ppb on June 12						Hours of Data: 686										
Minimum Hourly Value: 0 ppb on June 1 at hour 0						Hours of Missing Data: 0						Minimum Daily Value: 0.0 ppb on June 1						Hours of Calibration: 34										
Monthly Average: 0.0 ppb						Operational Uptime: 100.0																						
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	
Jun 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0
Jun 3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0
Jun 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 6	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 7	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 8	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 9	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 10	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 11	0	0	0	0	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 12	0	0	0	0	0	S	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 13	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 14	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 15	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 16	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 17	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0
Jun 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	0	0	0
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0
Jun 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 27	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 28	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 29	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 30	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Maximum	0	0	0	0	1	0	1	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance													
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure						
X	Invalid Data (Equipment Malfunction / Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

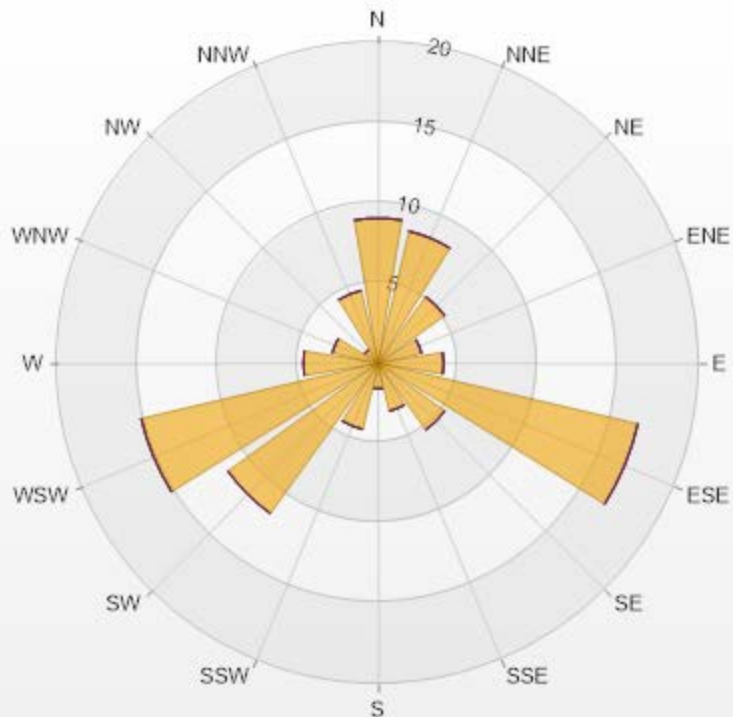
Timeseries Chart of Hourly Average for SO2 - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.28% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	9.04	0	0	0	0	9.04
NNE	8.45	0	0	0	0	8.45
NE	5.1	0	0	0	0	5.1
ENE	2.77	0	0	0	0	2.77
E	4.08	0	0	0	0	4.08
ESE	16.62	0	0	0	0	16.62
SE	5.1	0	0	0	0	5.1
SSE	3.06	0	0	0	0	3.06
S	1.6	0	0	0	0	1.6
SSW	4.23	0	0	0	0	4.23
SW	11.52	0	0	0	0	11.52
WSW	15.16	0	0	0	0	15.16
W	4.66	0	0	0	0	4.66
WNW	2.92	0	0	0	0	2.92
NW	1.02	0	0	0	0	1.02
NNW	4.66	0	0	0	0	4.66
Summary	100	0	0	0	0	100



PRAMP-202206

Page 122 of 276

% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

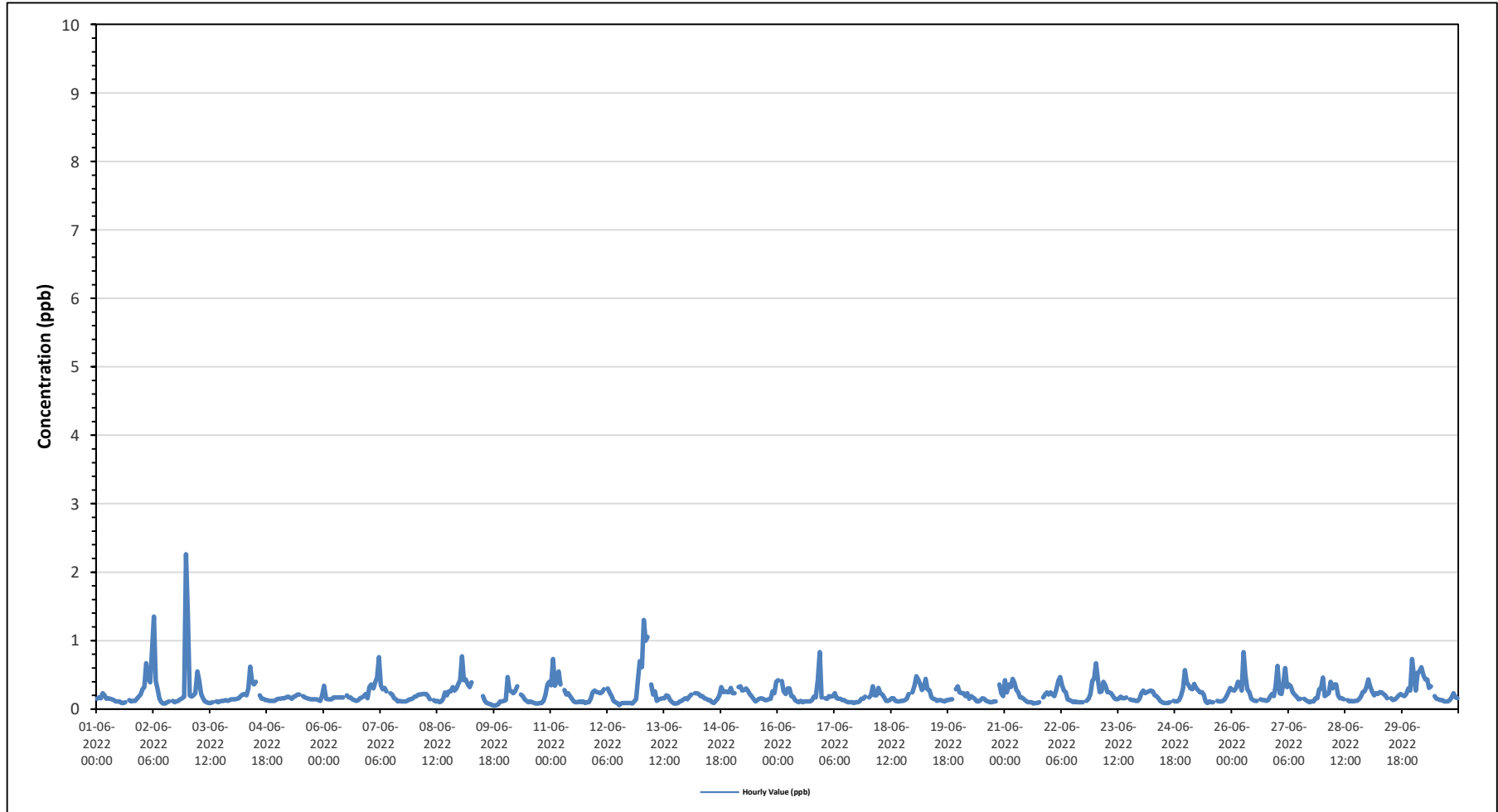
Maximum Hourly Value:	2.26 ppb on June 2 at hour 23	Hours in Service:	720
Maximum Daily Value:	0.38 ppb on June 2	Hours of Data:	685
Minimum Hourly Value:	0.05 ppb on June 9 at hour 18	Hours of Missing Data:	0
Minimum Daily Value:	0.14 ppb on June 17	Hours of Calibration:	35
Monthly Average:	0.22 ppb	Operational Uptime:	100.0

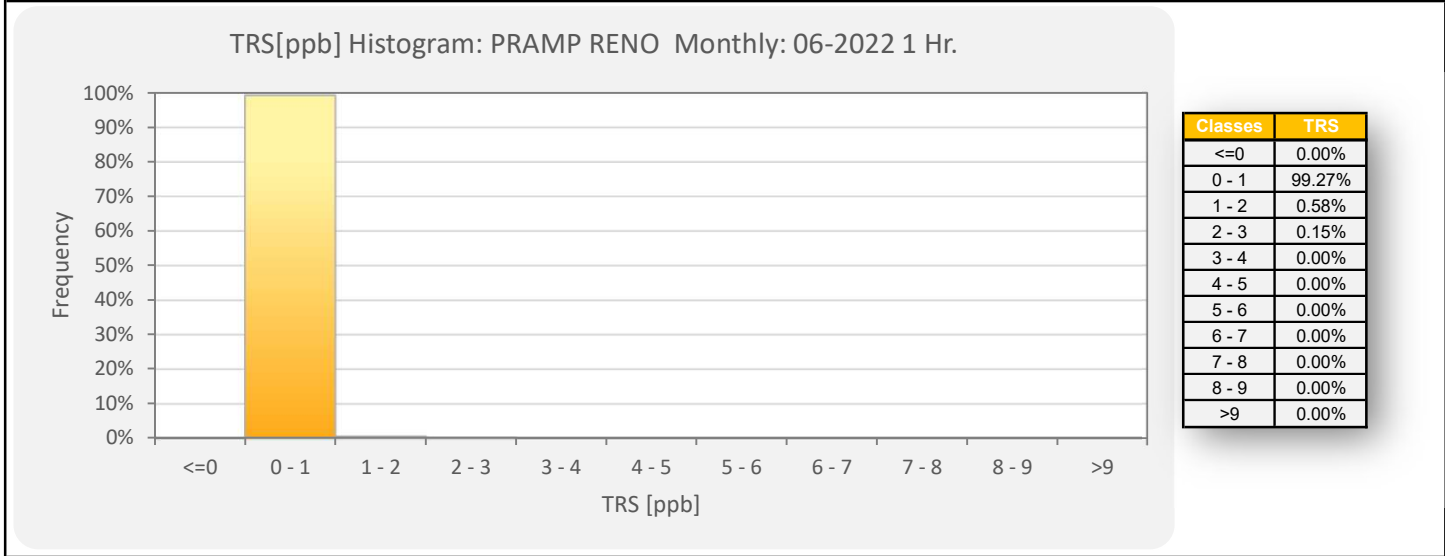
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	0.15	0.17	0.16	0.23	0.2	0.15	0.16	0.15	0.14	0.13	0.11	0.11	0.11	0.09	0.09	0.1	S	0.13	0.11	0.12	0.12	0.15	0.18	0.21	0.09	0.23	0.14	
Jun 2	0.29	0.32	0.67	0.45	0.39	0.86	1.35	0.41	0.29	0.15	0.1	0.08	0.08	0.1	0.11	S	0.12	0.1	0.11	0.12	0.14	0.16	0.18	2.26	0.08	2.26	0.38	
Jun 3	1.36	0.2	0.18	0.2	0.23	0.55	0.41	0.22	0.16	0.11	0.1	0.09	0.09	0.1	S	0.11	0.1	0.11	0.12	0.12	0.13	0.12	0.13	0.14	0.09	1.36	0.22	
Jun 4	0.14	0.14	0.15	0.16	0.19	0.21	0.22	0.2	0.3	0.62	0.4	0.36	0.4	S	0.2	0.15	0.15	0.13	0.13	0.12	0.12	0.12	0.12	0.14	0.12	0.62	0.21	
Jun 5	0.15	0.15	0.16	0.16	0.17	0.18	0.17	0.15	0.18	0.19	0.21	0.21	S	0.19	0.17	0.16	0.15	0.14	0.14	0.14	0.14	0.13	0.12	0.2	0.12	0.21	0.16	
Jun 6	0.34	0.15	0.14	0.14	0.14	0.17	0.17	0.17	0.17	0.17	0.17	S	0.2	0.17	0.17	0.14	0.13	0.12	0.13	0.16	0.17	0.19	0.22	0.16	0.12	0.34	0.17	
Jun 7	0.32	0.36	0.3	0.39	0.46	0.76	0.35	0.29	0.31	0.26	S	0.23	0.21	0.16	0.14	0.11	0.12	0.11	0.11	0.11	0.12	0.14	0.14	0.16	0.11	0.76	0.25	
Jun 8	0.18	0.19	0.21	0.21	0.22	0.22	0.22	0.19	0.14	S	0.13	0.11	0.12	0.1	0.11	0.15	0.24	0.2	0.26	0.26	0.32	0.27	0.3	0.37	0.10	0.37	0.21	
Jun 9	0.42	0.77	0.42	0.43	0.36	0.32	0.39	C	C	C	C	C	C	0.19	0.12	0.09	0.08	0.07	0.06	0.05	0.06	0.07	0.11	0.11	0.12	0.05	0.77	0.22
Jun 10	0.13	0.47	0.27	0.26	0.23	0.26	0.33	S	0.21	0.19	0.14	0.12	0.1	0.11	0.1	0.09	0.08	0.08	0.09	0.09	0.12	0.2	0.36	0.4	0.08	0.47	0.19	
Jun 11	0.35	0.73	0.34	0.41	0.55	0.36	S	0.28	0.21	0.23	0.19	0.15	0.11	0.1	0.1	0.11	0.1	0.11	0.09	0.1	0.1	0.15	0.24	0.27	0.09	0.73	0.23	
Jun 12	0.25	0.24	0.23	0.25	0.29	S	0.3	0.24	0.19	0.12	0.1	0.09	0.06	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.11	0.14	0.43	0.7	0.06	0.70	0.19	
Jun 13	0.61	1.3	1	1.05	S	0.36	0.21	0.26	0.12	0.14	0.15	0.16	0.16	0.2	0.19	0.13	0.1	0.08	0.08	0.09	0.11	0.12	0.14	0.16	0.08	1.30	0.30	
Jun 14	0.14	0.18	0.21	S	0.23	0.23	0.22	0.19	0.19	0.16	0.15	0.13	0.13	0.1	0.09	0.12	0.15	0.2	0.32	0.25	0.26	0.25	0.25	0.31	0.09	0.32	0.19	
Jun 15	0.23	0.23	S	0.32	0.33	0.27	0.28	0.3	0.27	0.22	0.19	0.15	0.11	0.13	0.15	0.16	0.15	0.13	0.13	0.14	0.15	0.26	0.23	0.4	0.11	0.40	0.21	
Jun 16	0.42	S	0.41	0.26	0.22	0.3	0.3	0.19	0.18	0.13	0.11	0.1	0.12	0.1	0.11	0.11	0.11	0.13	0.18	0.17	0.43	0.83	0.17	0.10	0.83	0.23		
Jun 17	S	0.16	0.15	0.19	0.18	0.19	0.23	0.16	0.15	0.15	0.13	0.13	0.11	0.1	0.1	0.1	0.09	0.1	0.1	0.11	0.15	0.15	0.18	S	0.09	0.23	0.14	
Jun 18	0.17	0.2	0.33	0.2	0.2	0.31	0.23	0.21	0.17	0.12	0.12	0.13	0.16	0.16	0.12	0.11	0.11	0.12	0.12	0.13	0.15	0.22	S	0.24	0.11	0.33	0.18	
Jun 19	0.34	0.48	0.43	0.37	0.28	0.31	0.44	0.29	0.27	0.17	0.15	0.14	0.12	0.13	0.13	0.12	0.11	0.13	0.13	0.14	0.14	S	0.29	0.33	0.11	0.48	0.24	
Jun 20	0.24	0.23	0.23	0.19	0.23	0.15	0.19	0.17	0.15	0.11	0.11	0.13	0.16	0.15	0.12	0.11	0.1	0.1	0.11	S	0.36	0.23	0.19	0.10	0.36	0.17		
Jun 21	0.42	0.24	0.36	0.32	0.44	0.38	0.28	0.24	0.17	0.17	0.14	0.12	0.1	0.1	0.1	0.08	0.09	0.09	0.1	S	0.17	0.21	0.24	0.21	0.08	0.44	0.21	
Jun 22	0.24	0.21	0.19	0.28	0.41	0.47	0.35	0.27	0.25	0.14	0.13	0.12	0.1	0.11	0.1	0.1	0.1	0.1	S	0.12	0.15	0.22	0.41	0.45	0.10	0.47	0.22	
Jun 23	0.67	0.43	0.25	0.26	0.4	0.34	0.25	0.24	0.23	0.19	0.15	0.14	0.15	0.18	0.16	0.16	0.17	S	0.14	0.13	0.13	0.12	0.12	0.15	0.12	0.67	0.22	
Jun 24	0.23	0.27	0.23	0.25	0.26	0.27	0.26	0.2	0.19	0.16	0.12	0.1	0.09	0.09	0.09	0.1	S	0.12	0.11	0.11	0.13	0.19	0.3	0.57	0.09	0.57	0.19	
Jun 25	0.39	0.35	0.3	0.29	0.37	0.31	0.28	0.24	0.25	0.21	0.11	0.09	0.11	0.1	0.1	S	0.12	0.11	0.11	0.12	0.14	0.19	0.25	0.31	0.09	0.39	0.21	
Jun 26	0.28	0.27	0.31	0.4	0.38	0.27	0.83	0.49	0.29	0.24	0.15	0.13	0.12	0.12	S	0.14	0.13	0.13	0.12	0.13	0.18	0.22	0.19	0.34	0.12	0.83	0.25	
Jun 27	0.63	0.23	0.22	0.38	0.6	0.32	0.36	0.33	0.25	0.21	0.18	0.14	0.15	S	0.15	0.13	0.11	0.1	0.11	0.11	0.16	0.16	0.29	0.3	0.10	0.63	0.24	
Jun 28	0.46	0.19	0.21	0.23	0.4	0.3	0.36	0.36	0.2	0.16	0.16	0.14	S	0.13	0.11	0.12	0.11	0.12	0.12	0.14	0.18	0.25	0.26	0.32	0.11	0.46	0.22	
Jun 29	0.43	0.33	0.26	0.2	0.23	0.22	0.25	0.24	0.22	0.2	0.16	S	0.16	0.13	0.14	0.17	0.2	0.22	0.2	0.19	0.22	0.3	0.27	0.73	0.13	0.73	0.25	
Jun 30	0.48	0.27	0.53	0.55	0.61	0.49	0.43	0.43	0.31	0.33	S	0.19	0.15	0.14	0.13	0.13	0.11	0.11	0.11	0.11	0.13	0.17	0.23	0.17	0.16	0.11	0.61	0.28
Diurnal Maximum	1.36	1.30	1.00	1.05	0.61	0.86	1.35	0.49	0.31	0.62	0.40	0.36	0.40	0.20	0.20	0.17	0.24	0.22	0.32	0.26	0.32	0.43	0.83	2.26				
Diurnal Average	0.36	0.33	0.31	0.31	0.32	0.33	0.34	0.25	0.21	0.19	0.15	0.14	0.14	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.15	0.20	0.25	0.36				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

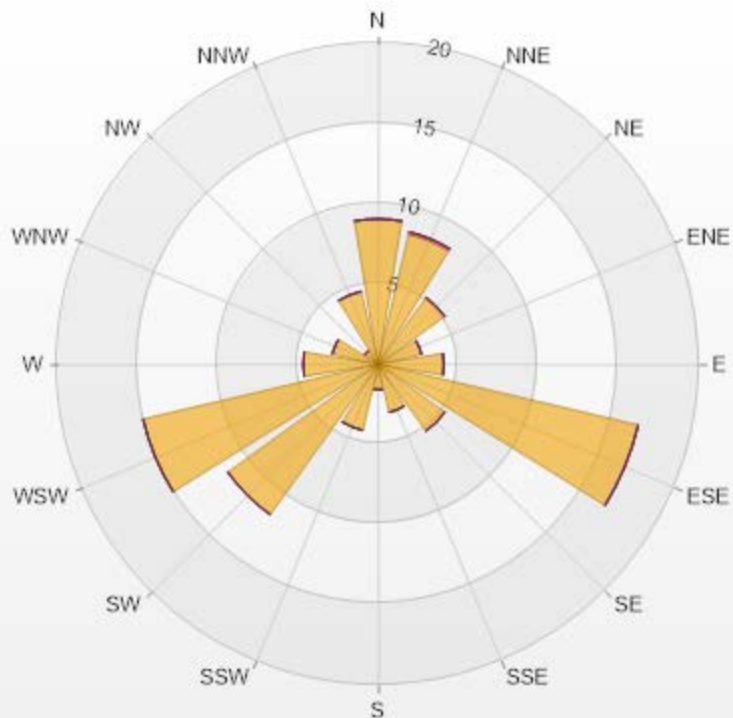
Timeseries Chart of Hourly Average for TRS - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	9.05	0	0	0	0	9.05
NNE	8.32	0.15	0	0	0	8.47
NE	5.11	0	0	0	0	5.11
ENE	2.77	0	0	0	0	2.77
E	4.09	0	0	0	0	4.09
ESE	16.64	0	0	0	0	16.64
SE	5.11	0	0	0	0	5.11
SSE	3.07	0	0	0	0	3.07
S	1.61	0	0	0	0	1.61
SSW	4.23	0	0	0	0	4.23
SW	11.53	0	0	0	0	11.53
WSW	15.04	0	0	0	0	15.04
W	4.67	0	0	0	0	4.67
WNW	2.92	0	0	0	0	2.92
NW	1.02	0	0	0	0	1.02
NNW	4.67	0	0	0	0	4.67
Summary	100	0.15	0	0	0	100



PRAMP-202206

Page 127 of 276

% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.53 ppm on June 2 at hour 4	Hours in Service:	720
Maximum Daily Value:	2.10 ppm on June 2	Hours of Data:	683
Minimum Hourly Value:	1.95 ppm on June 8 at hour 16	Hours of Missing Data:	2
Minimum Daily Value:	1.97 ppm on June 10	Hours of Calibration:	35
Monthly Average:	2.00 ppm	Operational Uptime:	99.7

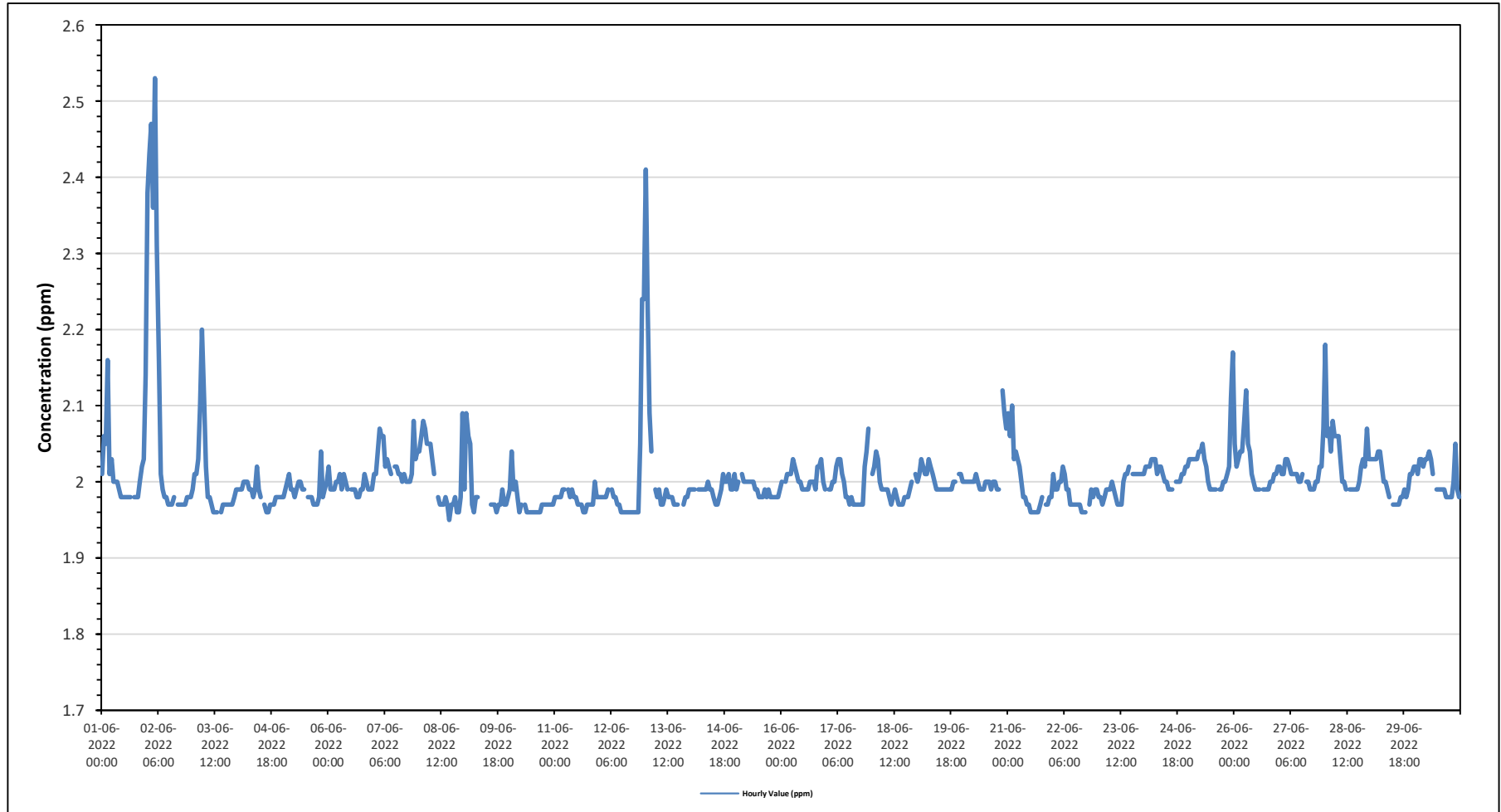
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2.01	2.06	2.05	2.16	2.01	2.03	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	2.00	2.02	2.03	2.14	1.98	2.16	2.01	
Jun 2	2.38	2.43	2.47	2.36	2.53	2.31	2.16	2.01	1.99	1.98	1.98	1.97	1.97	1.97	1.98	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	2.53	2.10	
Jun 3	1.99	2.01	2.01	2.03	2.10	2.20	2.11	2.02	1.98	1.98	1.97	1.96	1.96	1.96	S	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	1.96	2.20	2.00
Jun 4	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.98	1.99	2.02	1.99	1.98	S	1.97	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.96	2.02	1.98
Jun 5	1.98	1.99	2.00	2.01	1.99	1.99	1.98	1.99	2.00	2.00	1.99	1.99	S	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.98	2.04	1.98	1.99	2.00	1.97	2.04	1.99
Jun 6	2.02	1.99	1.99	1.99	2.00	2.00	2.01	1.99	2.01	2.00	1.99	S	1.99	1.99	1.98	1.98	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.99	1.98	1.98	2.02	1.99
Jun 7	2.01	2.01	2.04	2.07	2.06	2.06	2.02	2.03	2.02	2.01	S	2.02	2.02	2.01	2.01	2.00	2.01	2.00	2.00	2.00	2.01	2.01	2.08	2.03	2.04	2.00	2.08	2.02
Jun 8	2.04	2.06	2.08	2.07	2.05	2.05	2.05	2.03	2.01	S	1.98	1.97	1.97	1.97	1.98	1.97	1.95	1.97	1.97	1.98	1.96	1.96	1.98	2.09	1.95	2.09	2.01	
Jun 9	1.99	2.09	2.06	2.05	1.97	1.96	1.98	1.98	S	1.95	C	C	C	C	1.97	1.97	1.97	1.96	1.97	1.97	1.99	1.97	1.97	1.98	1.95	2.09	1.99	
Jun 10	1.99	2.04	1.99	2.00	1.98	1.96	1.97	S	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	2.04	1.97	
Jun 11	1.98	1.98	1.98	1.98	1.99	1.99	S	1.99	1.98	1.99	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.97	2.00	1.98	1.98	1.96	2.00	1.98	
Jun 12	1.98	1.98	1.98	1.98	1.99	S	1.99	1.98	1.98	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	2.05	2.24	2.24	1.96	2.24	2.00	
Jun 13	2.41	2.23	2.09	2.04	S	1.99	1.98	1.99	1.97	1.97	1.98	1.99	1.98	1.98	1.98	1.97	1.97	1.97	NRM	NRM	1.97	1.98	1.98	1.99	1.97	2.41	2.02	
Jun 14	1.99	1.99	1.99	S	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.98	1.97	1.97	1.98	1.99	2.01	2.00	2.00	2.01	1.99	1.99	2.01	1.97	2.01	1.99	
Jun 15	1.99	2.00	S	2.01	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.99	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	2.01	1.99
Jun 16	2.00	S	2.00	2.01	2.01	2.01	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.02	2.02	2.03	2.00	1.99	1.99	1.99	2.03	2.00
Jun 17	S	1.99	1.99	2.00	2.00	2.02	2.03	2.03	2.01	2.00	1.98	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	2.02	2.04	2.07	S	1.97	2.07	2.00	
Jun 18	2.01	2.02	2.04	2.03	2.00	1.99	1.99	1.99	1.99	1.98	1.97	1.98	1.99	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.99	2.00	S	2.01	1.97	2.04	1.99	
Jun 19	2.00	2.01	2.03	2.02	2.01	2.01	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	S	2.01	1.99	2.03	2.00	
Jun 20	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.00	2.00	1.99	1.99	1.99	S	2.12	2.09	2.07	1.99	2.12	2.01
Jun 21	2.09	2.06	2.10	2.03	2.04	2.03	2.02	2.00	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.98	S	1.97	1.97	1.98	1.98	1.96	2.10	2.00	
Jun 22	2.01	1.99	1.99	2.00	2.00	2.02	2.01	1.99	1.99	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	S	1.97	1.99	1.99	1.98	1.99	1.99	1.96	2.02	1.98	
Jun 23	1.98	1.98	1.97	1.98	1.99	1.99	1.99	2.00	1.99	1.98	1.97	1.97	1.97	2.00	2.01	2.01	2.02	S	2.01	2.01	2.01	2.01	2.01	2.01	1.97	2.02	1.99	
Jun 24	2.01	2.02	2.02	2.02	2.03	2.03	2.03	2.01	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.99	S	2.00	2.00	2.00	2.01	2.01	2.02	2.02	1.99	2.03	2.01	
Jun 25	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.05	2.03	2.02	2.00	1.99	1.99	1.99	1.99	S	1.99	1.99	2.00	2.00	2.01	2.02	2.11	2.17	1.99	2.17	2.03	
Jun 26	2.05	2.02	2.03	2.04	2.04	2.08	2.12	2.05	2.04	2.01	2.00	1.99	1.99	1.99	S	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.01	2.02	1.99	2.12	2.02	
Jun 27	2.02	2.01	2.01	2.03	2.03	2.02	2.01	2.01	2.01	2.01	2.00	2.00	2.01	S	2.00	2.00	1.99	1.99	1.99	2.00	2.00	2.02	2.02	2.07	1.99	2.07	2.01	
Jun 28	2.18	2.06	2.07	2.04	2.08	2.06	2.06	2.06	2.03	2.00	2.00	1.99	S	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.03	2.02	2.07	2.03	1.99	2.18	2.03	
Jun 29	2.03	2.03	2.03	2.03	2.04	2.04	2.02	2.00	2.00	1.99	1.98	S	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.98	1.99	2.01	2.01	2.02	1.97	2.04	2.00	
Jun 30	2.02	2.01	2.03	2.03	2.02	2.03	2.02	2.04	2.03	2.01	S	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	2.00	2.05	1.99	1.98	1.98	2.05	2.01	
Diurnal Maximum	2.41	2.43	2.47	2.36	2.53	2.31	2.16	2.06	2.04	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.02	2.04	2.12	2.24	2.24				
Diurnal Average	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.01	2.02	2.03				

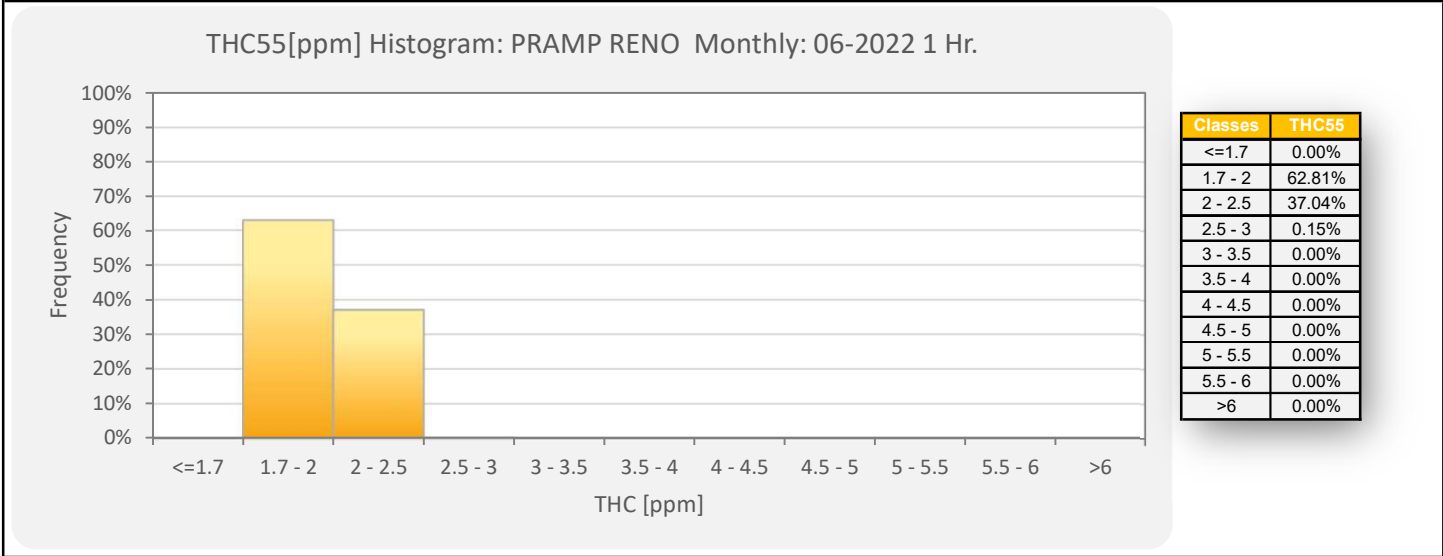
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

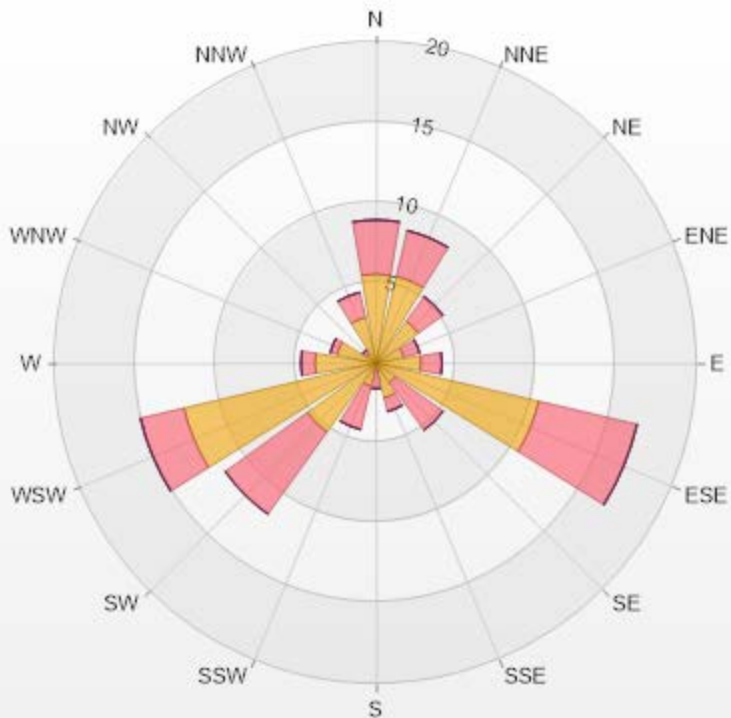
Timeseries Chart of Hourly Average for THC - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	5.56	3.37	0	0	0	8.93
NNE	5.56	2.93	0	0	0	8.49
NE	3.22	1.9	0	0	0	5.12
ENE	1.76	1.02	0	0	0	2.78
E	2.78	1.32	0	0	0	4.1
ESE	10.4	6.3	0	0	0	16.7
SE	1.46	3.66	0	0	0	5.12
SSE	2.2	0.88	0	0	0	3.08
S	0.44	1.17	0	0	0	1.61
SSW	1.46	2.78	0	0	0	4.24
SW	5.27	6.3	0	0	0	11.57
WSW	12.3	2.78	0	0	0	15.08
W	3.81	0.88	0	0	0	4.69
WNW	2.49	0.44	0	0	0	2.93
NW	0.73	0.29	0	0	0	1.02
NNW	2.93	1.61	0	0	0	4.54
Summary	62.37	37.63	0	0	0	100



PRAMP-202206

Page 132 of 276

% Icon Classes (ppm)	62	0-2	38	2-5	0	5-10	0	10-40	0	>40.0
----------------------	----	-----	----	-----	---	------	---	-------	---	-------



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

Maximum Hourly Value:	2.53 ppm on June 2 at hour 4	Hours in Service:	720
Maximum Daily Value:	2.10 ppm on June 2	Hours of Data:	683
Minimum Hourly Value:	1.95 ppm on June 8 at hour 16	Hours of Missing Data:	2
Minimum Daily Value:	1.97 ppm on June 10	Hours of Calibration:	35
Monthly Average:	2.00 ppm	Operational Uptime:	99.7

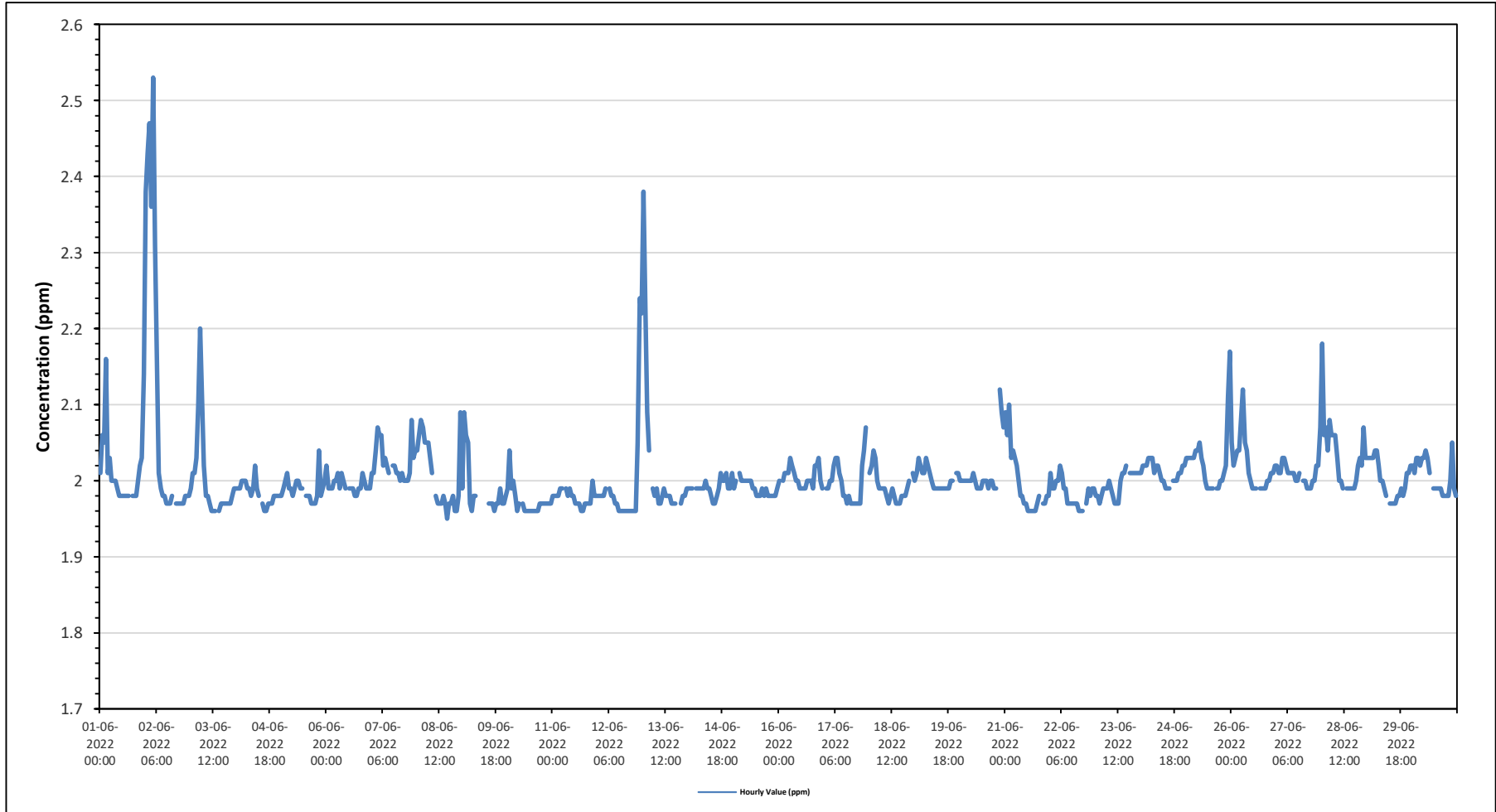
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2.01	2.06	2.05	2.16	2.01	2.03	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	2.00	2.02	2.03	2.14	1.98	2.16	2.01	
Jun 2	2.38	2.43	2.47	2.36	2.53	2.31	2.16	2.01	1.99	1.98	1.98	1.97	1.97	1.97	1.98	S	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	2.53	2.10	
Jun 3	1.99	2.01	2.01	2.03	2.10	2.20	2.11	2.02	1.98	1.98	1.97	1.96	1.96	1.96	S	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	1.96	2.20	2.00
Jun 4	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.98	1.99	2.02	1.99	1.98	S	1.97	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.96	2.02	1.98
Jun 5	1.98	1.99	2.00	2.01	1.99	1.99	1.98	1.99	2.00	2.00	1.99	1.99	S	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.98	2.04	1.98	1.99	2.00	1.97	2.04	1.99
Jun 6	2.02	1.99	1.99	1.99	2.00	2.00	2.01	1.99	2.01	2.00	1.99	S	1.99	1.99	1.98	1.98	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.99	1.98	1.98	2.02	1.99
Jun 7	2.01	2.01	2.04	2.07	2.06	2.06	2.02	2.03	2.02	2.01	S	2.02	2.02	2.01	2.01	2.00	2.01	2.00	2.00	2.00	2.01	2.01	2.08	2.03	2.04	2.00	2.08	2.02
Jun 8	2.04	2.06	2.08	2.07	2.05	2.05	2.05	2.03	2.01	S	1.98	1.97	1.97	1.97	1.98	1.97	1.95	1.97	1.97	1.98	1.96	1.96	1.98	2.09	1.95	2.09	2.01	
Jun 9	1.99	2.09	2.06	2.05	1.97	1.96	1.98	1.98	S	1.95	C	C	C	C	1.97	1.97	1.97	1.96	1.97	1.97	1.99	1.97	1.97	1.98	1.95	2.09	1.99	
Jun 10	1.99	2.04	1.99	2.00	1.98	1.96	1.97	S	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	2.04	1.97	
Jun 11	1.98	1.98	1.98	1.98	1.99	1.99	S	1.99	1.98	1.99	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.97	2.00	1.98	1.98	1.96	2.00	1.98	
Jun 12	1.98	1.98	1.98	1.98	1.99	S	1.99	1.98	1.98	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	2.05	2.24	2.22	1.96	2.24	2.00	
Jun 13	2.38	2.23	2.09	2.04	S	1.99	1.98	1.99	1.97	1.97	1.98	1.99	1.98	1.98	1.98	1.97	1.97	1.97	NRM	NRM	1.97	1.98	1.98	1.99	1.97	2.38	2.02	
Jun 14	1.99	1.99	1.99	S	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.98	1.97	1.97	1.98	1.99	2.01	2.00	2.00	2.01	1.99	1.99	2.01	1.97	2.01	1.99	
Jun 15	1.99	2.00	S	2.01	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.99	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	2.01	1.99
Jun 16	2.00	S	2.00	2.01	2.01	2.01	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.02	2.02	2.03	2.00	1.99	1.99	2.03	2.00	
Jun 17	S	1.99	1.99	2.00	2.00	2.02	2.03	2.03	2.01	2.00	1.98	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	2.02	2.04	2.07	S	1.97	2.07	2.00	
Jun 18	2.01	2.02	2.04	2.03	2.00	1.99	1.99	1.99	1.99	1.98	1.97	1.98	1.99	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.99	2.00	S	2.01	1.97	2.04	1.99	
Jun 19	2.00	2.01	2.03	2.02	2.01	2.01	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	S	2.01	1.99	2.03	2.00	
Jun 20	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.00	2.00	1.99	1.99	1.99	S	2.12	2.09	2.07	1.99	2.12	2.01
Jun 21	2.09	2.06	2.10	2.03	2.04	2.03	2.02	2.00	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.98	S	1.97	1.97	1.98	1.98	1.96	2.10	2.00	
Jun 22	2.01	1.99	1.99	2.00	2.00	2.02	2.01	1.99	1.99	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	S	1.97	1.99	1.99	1.98	1.99	1.99	1.96	2.02	1.98	
Jun 23	1.98	1.98	1.97	1.98	1.99	1.99	1.99	2.00	1.99	1.98	1.97	1.97	1.97	2.00	2.01	2.01	2.02	S	2.01	2.01	2.01	2.01	2.01	2.01	1.97	2.02	1.99	
Jun 24	2.01	2.02	2.02	2.02	2.03	2.03	2.03	2.01	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.99	S	2.00	2.00	2.00	2.01	2.01	2.02	2.02	1.99	2.03	2.01	
Jun 25	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.05	2.03	2.02	2.00	1.99	1.99	1.99	1.99	S	1.99	1.99	2.00	2.00	2.01	2.02	2.11	2.17	1.99	2.17	2.03	
Jun 26	2.05	2.02	2.03	2.04	2.04	2.08	2.12	2.05	2.04	2.01	2.00	1.99	1.99	1.99	S	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.01	2.02	1.99	2.12	2.02	
Jun 27	2.02	2.01	2.01	2.03	2.03	2.02	2.01	2.01	2.01	2.01	2.00	2.00	2.01	S	2.00	2.00	1.99	1.99	1.99	2.00	2.00	2.02	2.02	2.07	1.99	2.07	2.01	
Jun 28	2.18	2.06	2.07	2.04	2.08	2.06	2.06	2.06	2.03	2.00	2.00	1.99	S	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.03	2.02	2.07	2.03	1.99	2.18	2.03	
Jun 29	2.03	2.03	2.03	2.03	2.04	2.04	2.02	2.00	1.99	1.98	S	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.98	1.99	2.01	2.01	2.02	1.97	2.04	2.00	
Jun 30	2.02	2.01	2.03	2.03	2.02	2.03	2.02	2.04	2.03	2.01	S	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	2.00	2.05	1.99	1.98	1.98	2.05	2.01	
Diurnal Maximum	2.38	2.43	2.47	2.36	2.53	2.31	2.16	2.06	2.04	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.02	2.04	2.12	2.24	2.22				
Diurnal Average	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.01	2.02	2.02				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

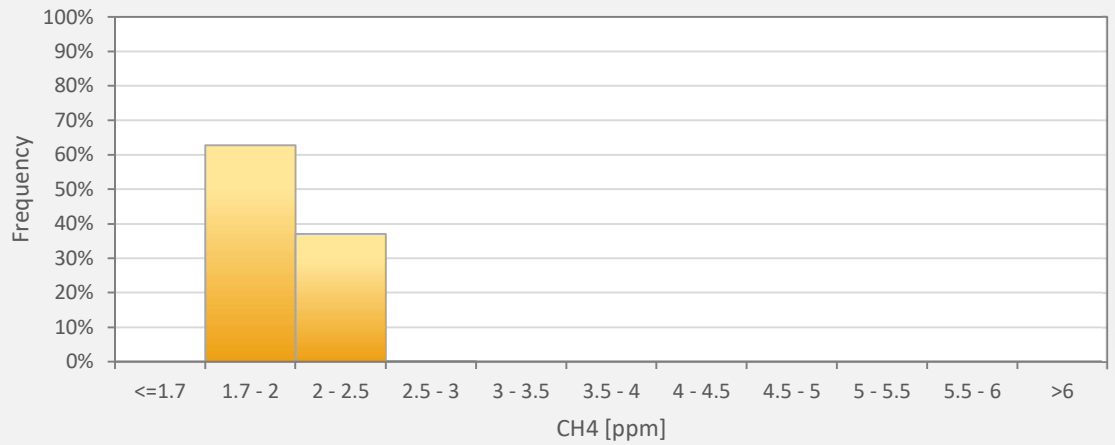
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for CH4 - Reno Station



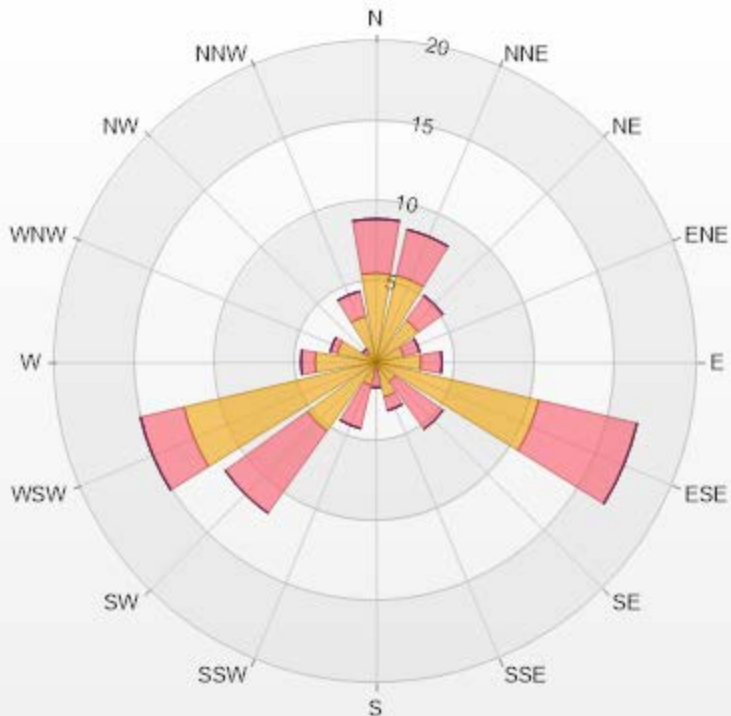
CH4[ppm] Histogram: PRAMP RENO Monthly: 06-2022 1 Hr.



Classes	CH4
<=1.7	0.00%
1.7 - 2	62.81%
2 - 2.5	37.04%
2.5 - 3	0.15%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	5.56	3.37	0	0	0	8.93
NNE	5.56	2.93	0	0	0	8.49
NE	3.22	1.9	0	0	0	5.12
ENE	1.76	1.02	0	0	0	2.78
E	2.78	1.32	0	0	0	4.1
ESE	10.4	6.3	0	0	0	16.7
SE	1.46	3.66	0	0	0	5.12
SSE	2.2	0.88	0	0	0	3.08
S	0.44	1.17	0	0	0	1.61
SSW	1.46	2.78	0	0	0	4.24
SW	5.27	6.3	0	0	0	11.57
WSW	12.3	2.78	0	0	0	15.08
W	3.81	0.88	0	0	0	4.69
WNW	2.49	0.44	0	0	0	2.93
NW	0.73	0.29	0	0	0	1.02
NNW	2.93	1.61	0	0	0	4.54
Summary	62.37	37.63	0	0	0	100



PRAMP-202206

Page 137 of 276

% Icon Classes (ppm)

62

0-2

38

2-5

0

5-10

0

10-20

0

>20.0



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	0.03 ppm on June 13 at hour 0	Hours in Service:	720
Maximum Daily Value:	0.00 ppm on June 13	Hours of Data:	683
Minimum Hourly Value:	0.00 ppm on June 1 at hour 0	Hours of Missing Data:	2
Minimum Daily Value:	0.00 ppm on June 1	Hours of Calibration:	35
Monthly Average:	0.00 ppm	Operational Uptime:	99.7

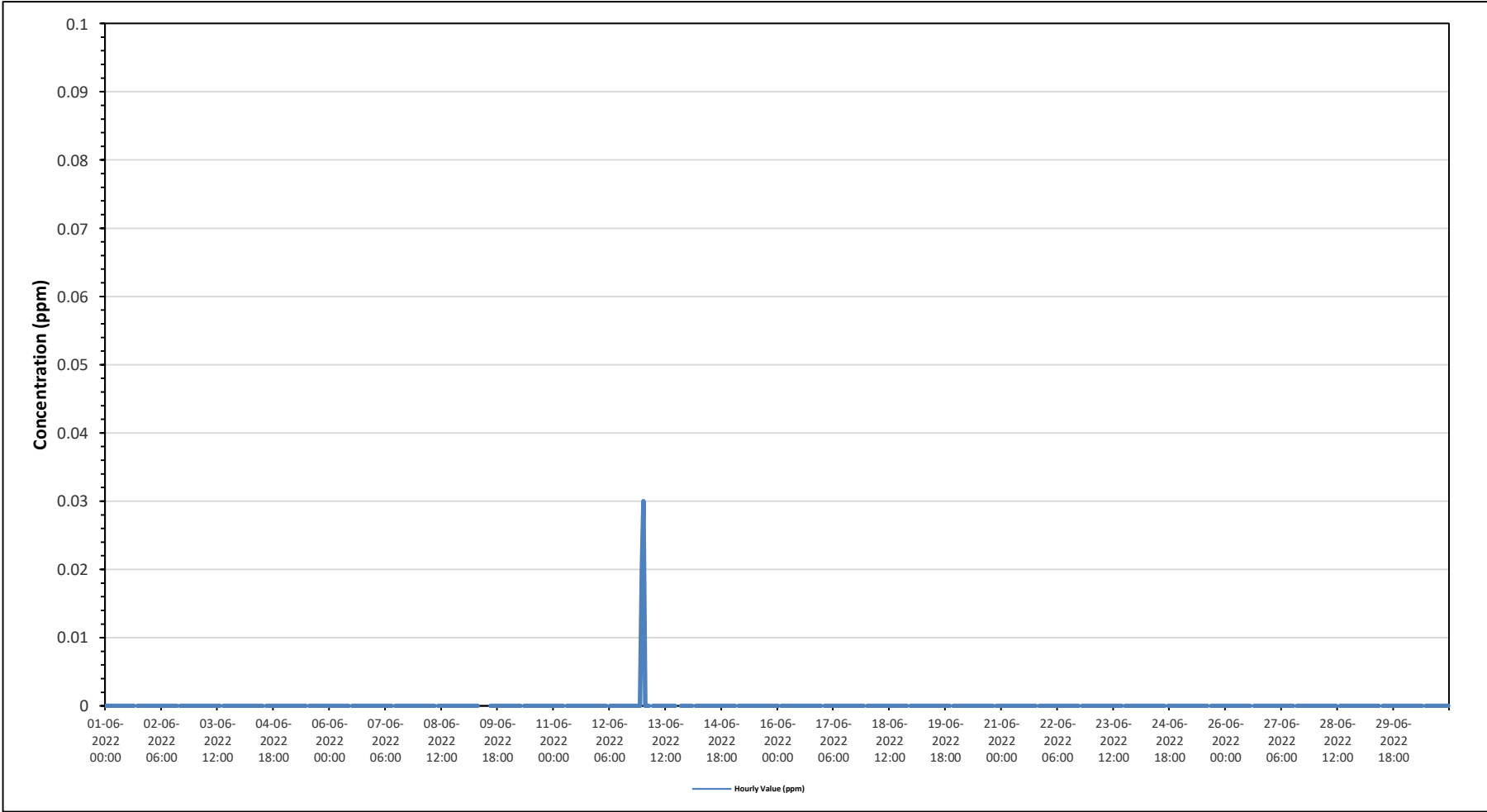
Day	Hourly Period Starting at (MST)																							Daily								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average					
Jun 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 11	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 12	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00
Jun 13	0.03	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NRM	NRM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Jun 14	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 15	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 16	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 17	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	
Jun 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

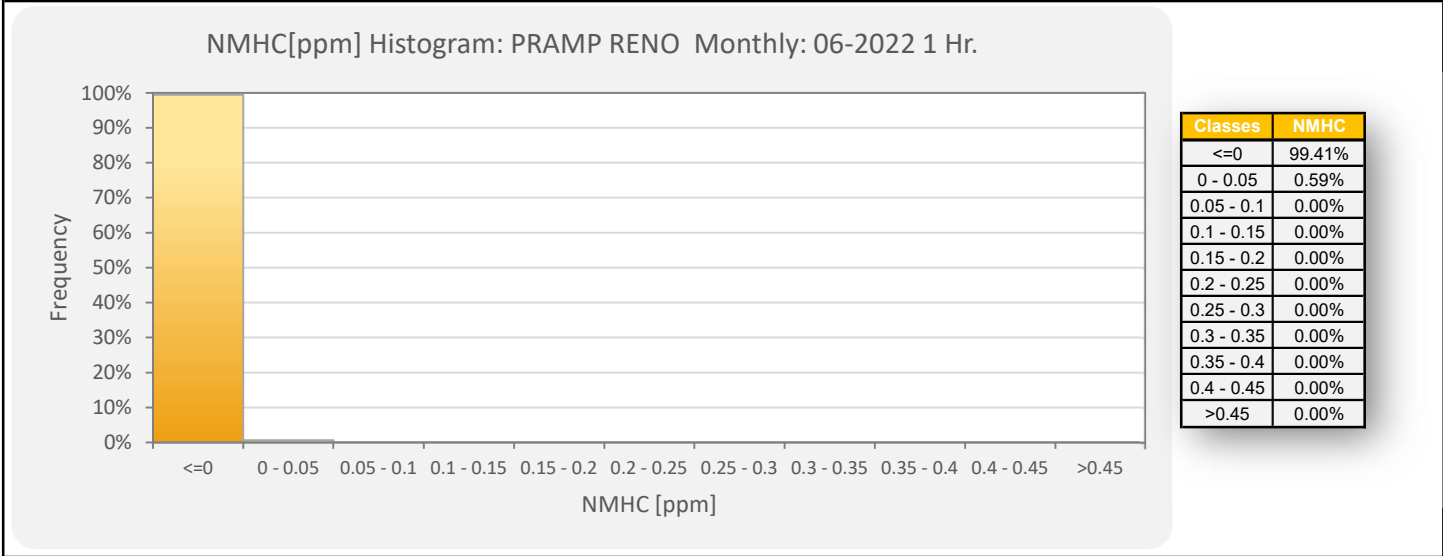
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

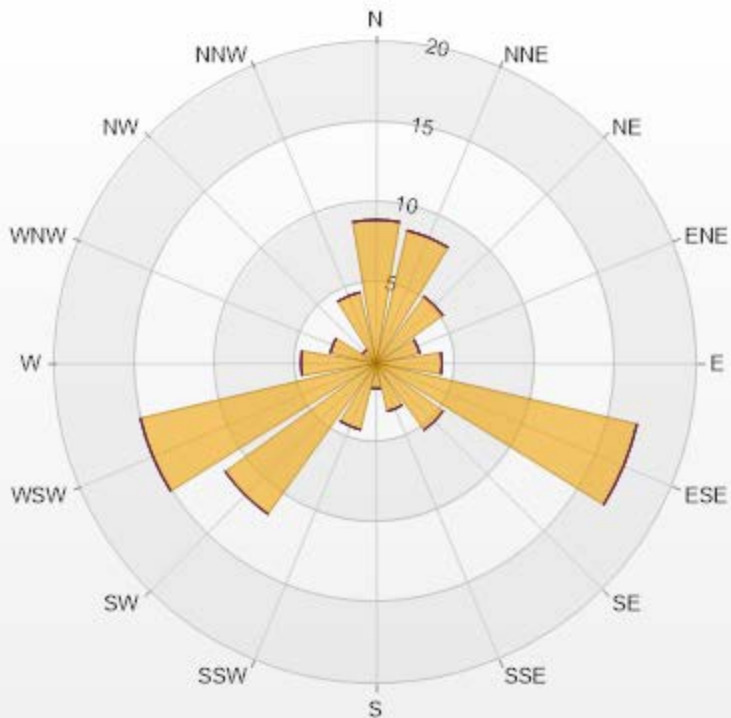
Timeseries Chart of Hourly Average for NMHC - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	8.93	0	0	0	0	8.93
NNE	8.49	0	0	0	0	8.49
NE	5.12	0	0	0	0	5.12
ENE	2.78	0	0	0	0	2.78
E	4.1	0	0	0	0	4.1
ESE	16.69	0	0	0	0	16.69
SE	5.12	0	0	0	0	5.12
SSE	3.07	0	0	0	0	3.07
S	1.61	0	0	0	0	1.61
SSW	4.25	0	0	0	0	4.25
SW	11.57	0	0	0	0	11.57
WSW	15.08	0	0	0	0	15.08
W	4.69	0	0	0	0	4.69
WNW	2.93	0	0	0	0	2.93
NW	1.02	0	0	0	0	1.02
NNW	4.54	0	0	0	0	4.54
Summary	100	0	0	0	0	100



PRAMP-202206

Page 142 of 276

% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-1

0 1-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

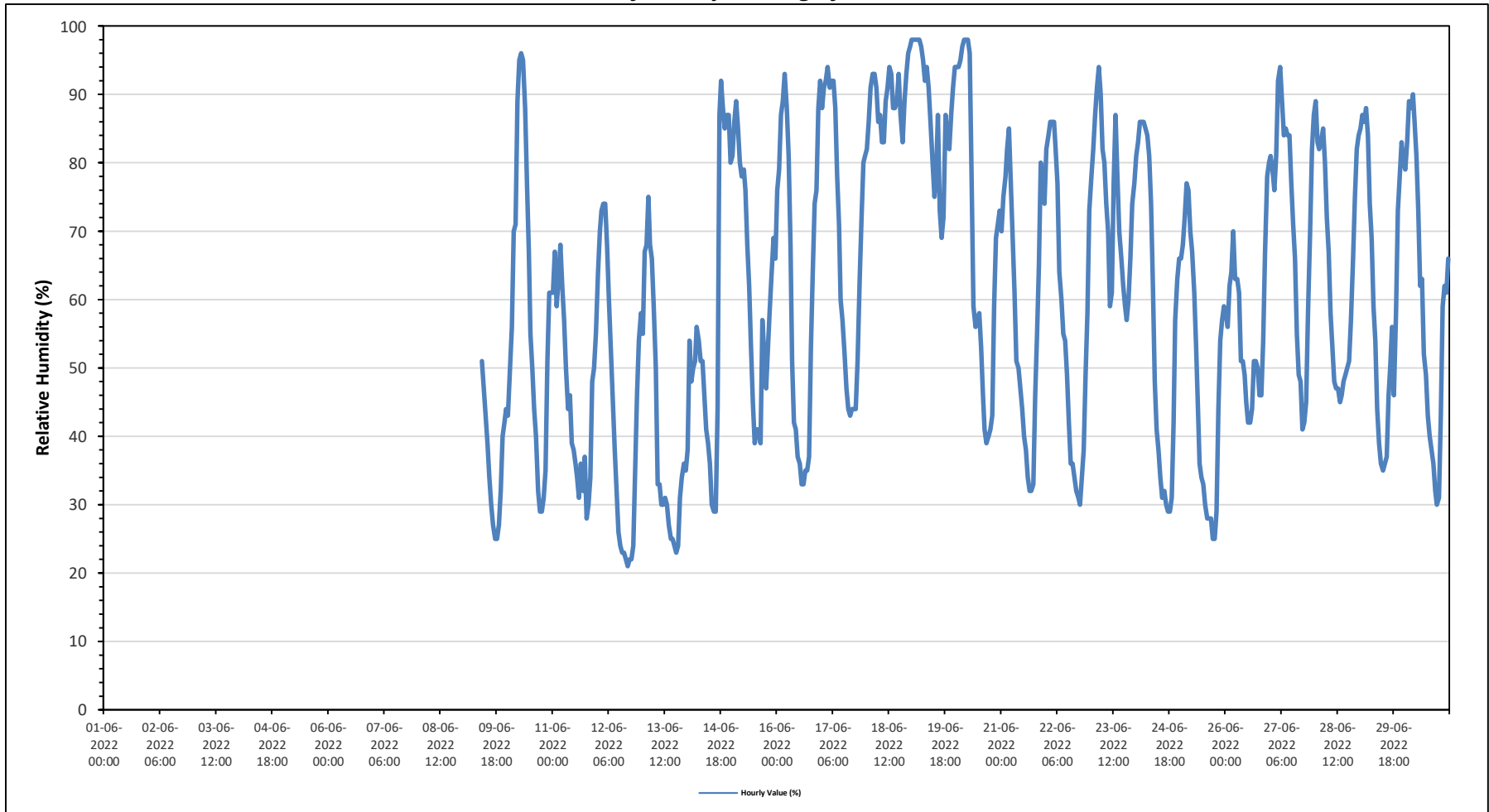
Maximum Hourly Value:	98 %	on June 19 at hour 0	Hours in Service:	720
Maximum Daily Value:	89.4 %	on June 18	Hours of Data:	518
Minimum Hourly Value:	21 %	on June 12 at hour 16	Hours of Missing Data:	202
Minimum Daily Value:	40.8 %	on June 13	Hours of Calibration:	0
Monthly Average:	60.9 %		Operational Uptime:	71.9

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Jun 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jun 9	X	X	X	X	X	X	X	X	Y	Y															25	51	-	
Jun 10	43	50	56	70	71	89	95	96	95	88	77	67	55	50	44	40	32	29	29	31	35	51	61	61	29	96	59.0	
Jun 11	61	67	59	63	68	62	57	50	44	46	39	38	36	34	31	36	32	37	28	30	34	48	50	55	28	68	46.0	
Jun 12	64	70	73	74	74	68	60	52	45	38	32	26	24	23	23	22	21	22	22	24	35	46	54	58	21	74	43.8	
Jun 13	55	67	68	75	68	66	59	50	33	33	30	30	31	30	27	25	25	24	23	24	31	34	36	35	23	75	40.8	
Jun 14	38	54	48	50	51	56	54	51	51	46	41	39	36	30	29	29	44	87	92	88	85	87	87	80	29	92	56.4	
Jun 15	81	86	89	85	80	78	79	76	68	62	53	45	39	41	41	39	57	52	47	53	58	64	69	66	39	89	62.8	
Jun 16	76	79	87	89	93	88	81	68	51	42	41	37	36	33	33	35	35	37	53	64	74	76	88	92	33	93	62.0	
Jun 17	88	91	92	94	91	92	92	88	78	71	60	57	52	47	44	43	44	44	44	51	63	72	80	81	43	94	69.1	
Jun 18	82	86	91	93	93	91	86	87	83	83	89	91	94	93	88	88	89	93	87	83	89	93	96	97	82	97	89.4	
Jun 19	98	98	98	98	98	97	95	92	94	91	86	80	75	78	87	73	69	72	87	84	82	87	91	94	69	98	87.7	
Jun 20	94	94	95	97	98	98	98	96	78	59	56	57	58	53	46	41	39	40	41	43	59	69	71	73	39	98	68.9	
Jun 21	70	75	78	82	85	77	69	61	51	50	47	44	40	38	34	32	32	33	46	55	65	80	76	74	32	85	58.1	
Jun 22	82	84	86	86	86	82	77	64	60	55	54	49	42	36	34	32	31	30	34	38	49	58	73	30	86	56.6		
Jun 23	78	82	87	91	94	90	82	80	74	70	59	61	77	87	78	70	66	62	59	57	60	66	74	77	57	94	74.2	
Jun 24	81	83	86	86	86	85	84	81	74	62	48	41	38	34	31	32	30	29	29	31	42	57	63	66	29	86	57.5	
Jun 25	66	68	72	77	76	70	67	61	53	44	36	34	33	30	28	28	25	25	29	44	54	57	59	25	77	48.5		
Jun 26	58	56	62	64	70	63	63	61	51	51	49	45	42	42	44	51	50	46	46	54	67	78	80	42	80	56.0		
Jun 27	81	79	76	81	92	94	89	84	85	84	84	77	71	66	55	49	48	41	42	45	58	70	82	87	41	94	71.7	
Jun 28	89	83	82	83	85	80	72	67	58	53	48	47	47	45	46	48	49	50	51	57	66	75	82	84	45	89	64.5	
Jun 29	85	87	86	88	84	74	69	59	54	44	39	36	35	36	37	46	50	56	46	58	73	78	83	80	35	88	61.8	
Jun 30	79	83	89	88	90	86	81	73	62	63	52	49	43	40	38	36	32	30	31	43	59	62	61	66	30	90	59.8	
Diurnal Maximum	98	98	98	98	98	98	98	96	95	91	89	91	94	93	88	88	89	93	92	88	89	93	96	97				
Diurnal Average	73.8	77.2	79.0	81.6	82.5	80.3	76.6	71.3	63.9	58.8	53.2	49.9	47.6	45.7	43.4	42.1	42.4	44.0	44.7	48.0	56.2	64.8	70.0	71.9				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for RH - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

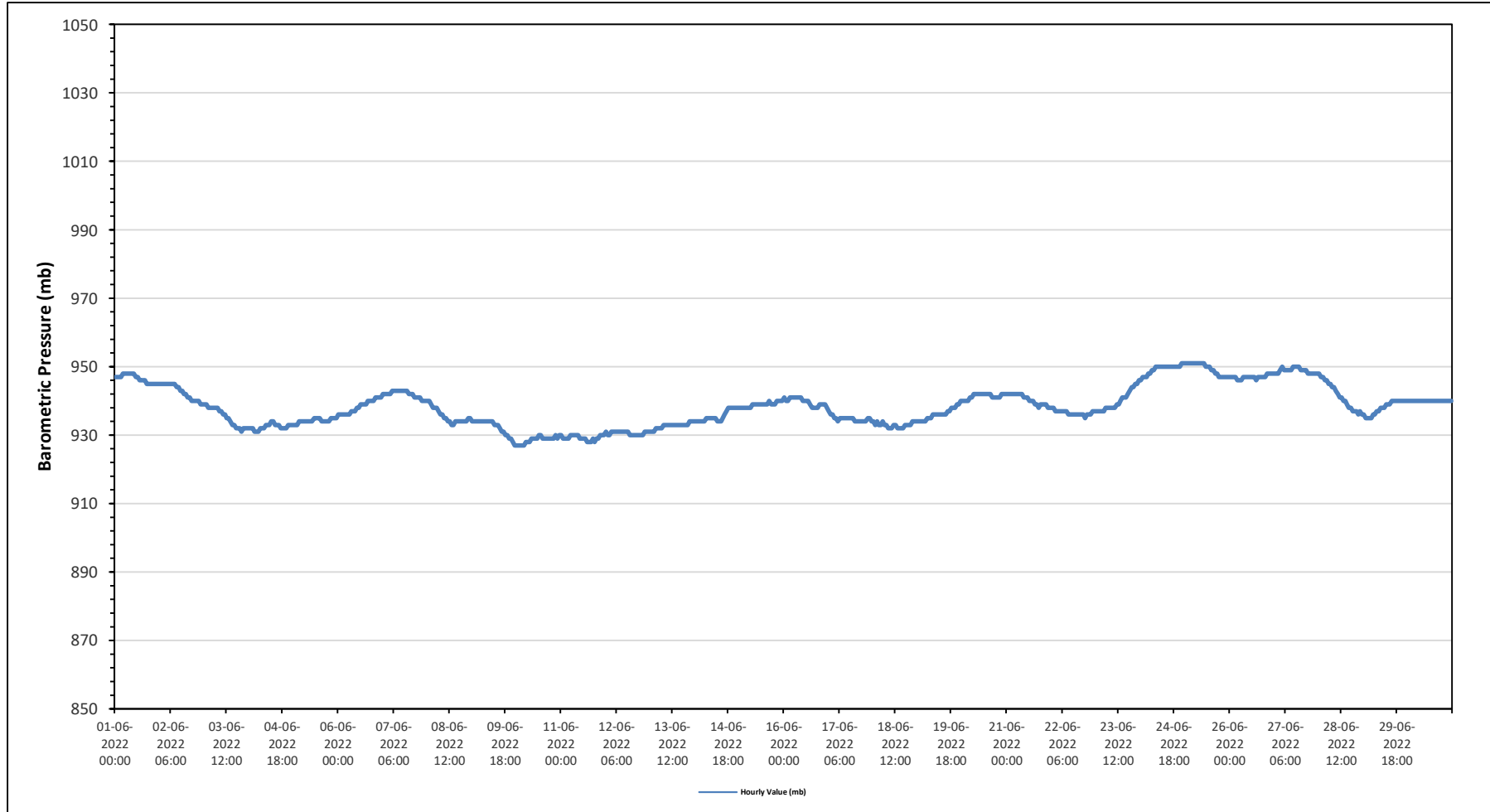
Maximum Hourly Value:	951 mb on June 24 at hour 22	Hours in Service:	720
Maximum Daily Value:	949 mb on June 25	Hours of Data:	720
Minimum Hourly Value:	927 mb on June 9 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	929 mb on June 10	Hours of Calibration:	0
Monthly Average:	938 mb	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Jun 1	947	947	947	947	948	948	948	948	948	948	948	947	947	946	946	946	946	945	945	945	945	945	945	945	945	945	948	947	
Jun 2	945	945	945	945	945	945	945	945	945	944	944	943	943	942	942	941	941	940	940	940	940	939	939	939	939	939	939	945	943
Jun 3	939	939	938	938	938	938	938	938	937	937	936	936	935	935	934	933	933	932	932	932	931	932	932	932	932	932	931	935	
Jun 4	932	932	932	931	931	931	932	932	932	933	933	933	934	934	933	933	933	932	932	932	932	933	933	933	933	931	932	932	
Jun 5	933	933	933	934	934	934	934	934	934	934	934	935	935	935	935	934	934	934	934	934	935	935	935	935	935	933	935	934	
Jun 6	936	936	936	936	936	936	936	937	937	937	937	938	938	939	939	939	940	940	940	940	941	941	941	941	941	936	938	938	
Jun 7	942	942	942	942	942	943	943	943	943	943	943	943	943	942	942	941	941	941	941	941	940	940	940	940	940	940	940	942	942
Jun 8	940	940	939	938	938	938	937	936	936	935	935	934	934	933	933	934	934	934	934	934	934	934	935	935	935	933	940	936	
Jun 9	934	934	934	934	934	934	934	934	934	934	934	934	933	933	933	932	931	931	930	930	929	929	928	927	927	927	934	932	
Jun 10	927	927	927	927	927	928	928	928	929	929	929	929	930	930	929	929	929	929	929	929	929	930	930	930	927	927	930	929	
Jun 11	930	929	929	929	929	930	930	930	930	930	929	929	929	929	928	928	928	929	928	929	929	930	930	930	928	930	929	929	
Jun 12	931	930	930	931	931	931	931	931	931	931	931	931	931	930	930	930	930	930	930	930	931	931	931	931	930	931	931	931	
Jun 13	931	931	931	932	932	932	932	933	933	933	933	933	933	933	933	933	933	933	933	933	933	934	934	934	931	934	933	933	
Jun 14	934	934	934	934	934	934	935	935	935	935	935	935	934	934	934	934	935	936	937	938	938	938	938	938	938	934	938	936	
Jun 15	938	938	938	938	938	938	938	939	939	939	939	939	939	939	939	940	939	939	939	939	940	940	940	940	938	940	939	939	
Jun 16	941	940	940	941	941	941	941	941	941	941	940	940	940	940	939	938	938	938	938	939	939	939	939	938	938	941	940	940	
Jun 17	937	936	936	935	935	934	935	935	935	935	935	935	935	935	934	934	934	934	934	934	934	934	935	935	934	934	937	935	
Jun 18	934	933	934	933	933	934	933	933	932	932	932	933	933	932	932	932	932	933	933	933	933	933	934	934	932	934	933	933	
Jun 19	934	934	934	934	934	935	935	935	936	936	936	936	936	936	936	936	937	937	938	938	938	939	939	940	934	940	936	936	
Jun 20	940	940	940	940	941	941	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	942	942	942	940	942	941	941	
Jun 21	942	942	942	942	942	942	942	942	942	941	941	941	940	940	940	939	939	938	939	939	939	939	939	938	938	942	940	940	
Jun 22	938	938	937	937	937	937	937	937	937	936	936	936	936	936	936	936	936	936	935	936	936	936	937	937	935	938	937	937	
Jun 23	937	937	937	937	937	938	938	938	938	938	938	939	939	940	941	941	942	943	944	944	945	945	946	946	937	946	940	940	
Jun 24	946	947	947	947	948	948	949	949	950	950	950	950	950	950	950	950	950	950	950	950	950	950	950	951	951	946	949	949	
Jun 25	951	951	951	951	951	951	951	951	951	951	951	950	950	950	949	949	948	948	947	947	947	947	947	947	947	947	951	949	
Jun 26	947	947	947	947	946	946	946	947	947	947	947	947	947	947	946	947	947	947	947	948	948	948	948	948	946	948	947	947	
Jun 27	948	948	948	949	950	949	949	949	949	949	949	950	950	950	950	949	949	949	949	948	948	948	948	948	948	948	950	949	
Jun 28	948	947	947	946	946	945	945	944	944	943	942	941	941	940	940	939	938	938	937	937	937	936	937	936	936	948	941	941	
Jun 29	936	935	935	935	935	936	936	937	937	938	938	939	939	939	940	940	940	940	940	940	940	940	940	940	935	940	938	938	
Jun 30	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	
Diurnal Maximum	951	951	951	951	951	951	951	951	951	951	951	950	950	950	950	950	950	950	950	950	950	950	951	951	951	951	951	951	
Diurnal Average	939	938	938	938	938	939	939	939	939	939	939	939	939	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for BP - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

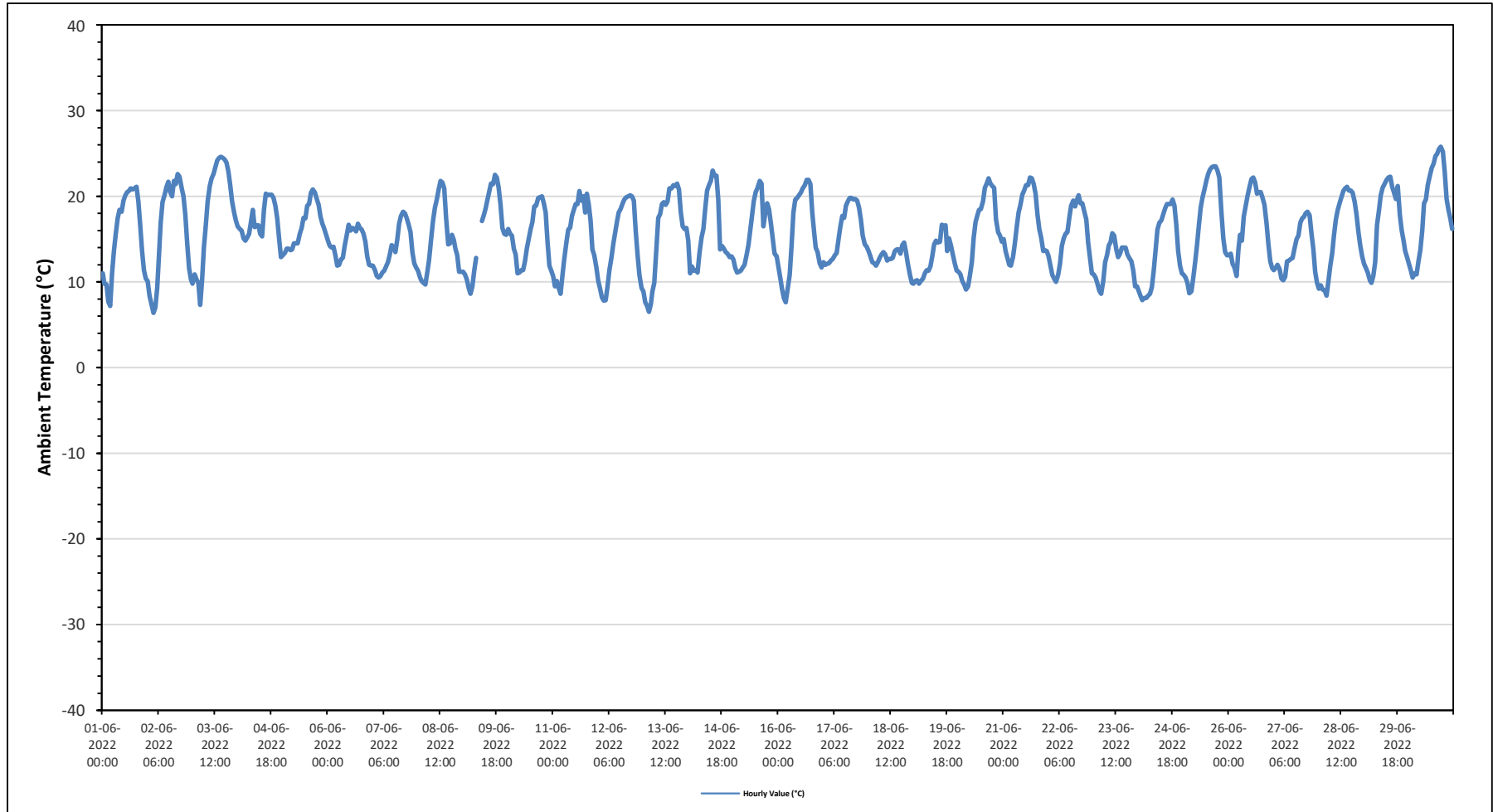
Maximum Hourly Value:	25.8 °C	on June 30 at hour 17	Hours in Service:	720
Maximum Daily Value:	18.7 °C	on June 30	Hours of Data:	718
Minimum Hourly Value:	6.4 °C	on June 2 at hour 3	Hours of Missing Data:	2
Minimum Daily Value:	12.3 °C	on June 23	Hours of Calibration:	0
Monthly Average:	15.5 °C		Operational Uptime:	99.7

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	11	9.8	9.7	7.7	7.2	11	13.6	15.6	17.4	18.4	18.2	19.5	20.1	20.5	20.6	20.9	20.8	20.9	21.1	19.4	16.6	13.6	11.4	10.4	7.2	21.1	15.6
Jun 2	10.1	8.4	7.3	6.4	7	9.3	13.3	16.9	19.3	20.2	21.1	21.7	20.5	20	21.8	21.4	22.6	22.3	21	20	17.8	14.5	11.6	10.3	6.4	22.6	16.0
Jun 3	9.8	10.9	10.3	9.9	7.3	10.2	14.1	16.6	19.4	21.2	22.1	22.6	23.4	24.2	24.5	24.6	24.5	24.3	23.9	22.9	21.3	19.4	18.2	17.2	7.3	24.6	18.5
Jun 4	16.5	16.2	16	15.1	14.8	15.2	15.6	17	18.4	16.4	16.6	16.6	15.6	15.3	18.4	20.3	20.1	20.2	20.2	19.8	18.9	17.4	15.1	12.9	12.9	20.3	17.0
Jun 5	13.1	13.4	13.9	13.9	13.7	13.8	14.5	14.5	14.5	15.6	16.3	17.5	17.4	18.9	19.1	20.4	20.8	20.4	19.7	19	17.6	16.8	16.3	15.6	13.1	20.8	16.5
Jun 6	14.8	14.2	14	14.1	13.1	11.9	12	12.6	12.8	14.4	15.5	16.7	16	16.3	16.2	15.9	16.8	16.3	16.1	15.6	14.7	13	12	11.9	11.9	16.8	14.5
Jun 7	11.9	11.4	10.7	10.5	10.7	11.1	11.3	11.8	12.3	13.2	14.3	14.1	13.5	14.9	16.8	17.7	18.2	18	17.4	16.7	15.8	13.5	12.2	11.7	10.5	18.2	13.7
Jun 8	11.3	10.5	10.1	9.9	9.7	11.1	12.6	14.8	17.2	18.7	19.6	20.8	21.8	21.6	20.9	17.5	14.4	14.5	15.5	14.9	13.9	13.1	11.2	11.2	9.7	21.8	14.9
Jun 9	11.2	10.9	10.3	9.3	8.6	9.5	11.3	12.8	Y	Y	17.1	17.8	18.6	19.5	20.5	21.5	21.4	22.5	22.2	21	19	16.3	15.6	15.5	8.6	22.5	16.0
Jun 10	16.2	15.6	15.4	13.9	13.2	11	11.1	11.4	11.4	12.4	13.9	15	16.1	17	18.8	18.9	19.8	19.9	20	19.2	18.1	14.7	11.9	11.3	11.0	20.0	15.3
Jun 11	10.7	9.5	10.1	9.3	8.6	10.7	12.7	14.6	16.1	16.3	17.7	18.4	19.1	19.1	20.6	19.5	20	18.1	20.3	19.1	17.2	13.8	13.1	11.7	8.6	20.6	15.3
Jun 12	10.1	9.2	8.2	7.8	7.9	9.5	11.4	12.9	14.5	15.8	17.1	18.1	18.5	19.1	19.6	19.9	20	20.1	20	19.5	16	13.2	10.8	9.3	7.8	20.1	14.5
Jun 13	8.9	7.6	7.2	6.5	7.4	8.9	9.9	13.9	17.5	17.9	19.1	19.3	19	19.4	20.9	20.9	21.3	21.2	21.5	20.8	18.1	16.5	16.2	16.3	6.5	21.5	15.7
Jun 14	14.8	11	11.8	11.3	11.4	11.1	13.3	15.2	16.2	18.6	20.7	21.3	21.8	23	22.4	22.4	19.6	13.8	14.2	13.9	13.5	13.3	12.9	13	11.0	23.0	15.9
Jun 15	12.6	11.6	11.1	11.2	11.3	11.7	12	13.2	14.4	15.9	17.7	19.5	20.5	21	21.8	21.5	16.5	18	19.2	18.5	16.9	15.1	13.3	13	11.1	21.8	15.7
Jun 16	11.7	10.4	9.2	8.1	7.6	9.1	10.8	14.2	18.1	19.6	19.8	20.1	20.4	20.9	21.3	21.9	21.9	21.4	18.1	15.8	14	13.5	12.2	11.7	7.6	21.9	15.5
Jun 17	12.3	12	12.1	12.2	12.5	12.7	13.1	13.4	15	16.5	17.7	17.5	18.9	19.4	19.8	19.8	19.6	19.7	19.5	18.7	17.3	15.4	14.4	14.1	12.0	19.8	16.0
Jun 18	13.6	13	12.3	12.2	11.9	12.3	12.9	13.2	13.5	13.2	12.5	12.7	12.7	12.8	13.6	13.8	13.8	13.3	14.3	14.6	13.5	12.1	10.8	9.9	9.9	14.6	12.9
Jun 19	9.8	10.1	10.2	9.8	10.1	10.4	11	11.4	11.3	11.8	13	14.4	14.8	14.6	14.7	16.7	16.5	16.6	13.6	15.1	14.3	13.1	12.1	11.3	9.8	16.7	12.8
Jun 20	11.2	10.9	10.1	9.7	9.1	9.5	10.8	12.3	15.2	17	17.8	18.4	18.5	19.4	21	21.5	22.1	21.5	21.2	21	17.3	15.8	15.4	14.7	9.1	22.1	15.9
Jun 21	15	13.6	12.8	12	11.9	12.9	14.5	16.4	18.1	19	20.2	20.7	21.3	21.3	22.2	22.1	21.4	20.3	17.9	16.2	15.2	13.6	13.7	13.6	11.9	22.2	16.9
Jun 22	13	11.9	10.8	10.4	10	10.8	12.1	14.2	15.1	15.6	15.8	17.5	18.9	19.5	18.8	19.5	20.1	19.2	19.2	18.3	17.3	14.6	12.8	11	10.0	20.1	15.3
Jun 23	10.9	10.5	9.8	9	8.6	10.1	12.3	13.1	14.3	14.6	15.7	15.4	13.8	12.9	13.3	14	14	14	13.2	12.8	12.4	11.3	9.5	9.5	8.6	15.7	12.3
Jun 24	8.9	8.3	7.9	8.1	8.1	8.4	8.6	9.4	11.3	13.7	16.1	16.9	17.2	17.9	18.6	19.1	19.1	19.1	19.6	18.9	16.7	13.6	11.9	11	7.9	19.6	13.7
Jun 25	10.8	10.5	9.9	8.7	8.9	10.5	12.3	14.3	16.6	18.7	19.9	20.8	21.9	22.6	23.1	23.4	23.5	23.5	23	22.2	18.1	15.1	13.5	13.1	8.7	23.5	16.9
Jun 26	13.1	13.3	12.1	11.7	10.7	13.8	15.5	14.8	17.6	18.8	20	21.1	22	22.2	21.6	20.3	20.5	20.5	19.8	19	16.8	14.4	12.4	11.6	10.7	22.2	16.8
Jun 27	11.4	11.6	12	11.5	10.4	10.2	10.6	12.4	12.5	12.7	12.8	13.9	15	15.4	16.9	17.4	17.6	18	18.2	17.8	15.7	13.9	11.2	9.9	9.9	18.2	13.7
Jun 28	9.2	9.6	9.1	9	8.4	10.1	11.9	13.3	15.5	17.3	18.4	19.2	19.9	20.6	20.9	21.1	20.7	20.7	20.4	19.3	17.8	15.8	14.2	13	8.4	21.1	15.6
Jun 29	12.1	11.6	11.1	10.2	9.9	10.7	12.3	16.7	18.3	20.1	21	21.5	21.9	22.2	22.3	21.1	20.4	19.7	21.2	17.8	16	14.8	13.6	12.9	9.9	22.3	16.6
Jun 30	12.1	11.4	10.5	11	10.9	12.4	13.7	15.9	19.2	19.6	21.3	22.4	23.3	23.8	24.7	24.9	25.5	25.8	25.2	22.8	19.7	18.4	17.4	16.2	10.5	25.8	18.7
Diurnal Maximum	16.5	16.2	16.0	15.1	14.8	15.2	15.6	17.0	19.4	21.2	22.1	22.6	23.4	24.2	24.7	24.9	25.5	25.8	25.2	22.9	21.3	19.4	18.2	17.2			
Diurnal Average	11.9	11.3	10.9	10.3	10.0	11.0	12.4	14.0	15.6	16.7	17.6	18.4	18.7	19.2	19.9	20.0	19.8	19.5	19.2	18.4	16.6	14.7	13.2	12.5			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for AT - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

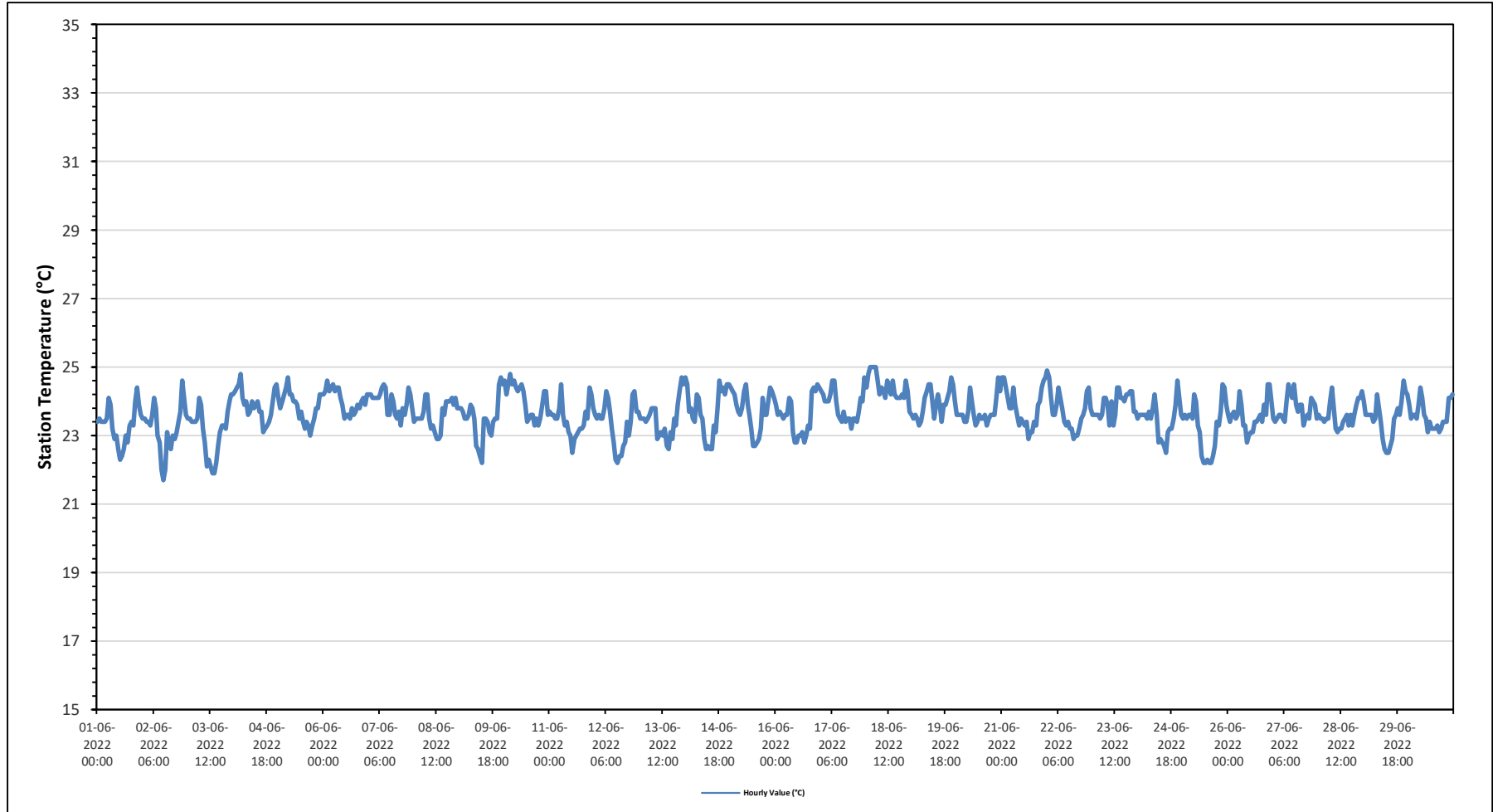
Maximum Hourly Value:	25.0 °C	on June 18 at hour 2	Hours in Service:	720
Maximum Daily Value:	24.4 °C	on June 18	Hours of Data:	720
Minimum Hourly Value:	21.7 °C	on June 2 at hour 11	Hours of Missing Data:	0
Minimum Daily Value:	23.1 °C	on June 3	Hours of Calibration:	0
Monthly Average:	23.7 °C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	23.4	23.5	23.4	23.4	23.4	23.5	24.1	23.9	23.2	22.9	23.0	22.6	22.3	22.4	22.6	23.0	22.8	23.3	23.4	23.3	24.0	24.4	23.9	23.6	22.3	24.4	23.3
Jun 2	23.5	23.5	23.4	23.4	23.3	23.6	24.1	23.8	23.0	22.8	22.0	21.7	22.0	23.1	22.8	22.6	23.0	22.9	23.1	23.4	23.7	24.6	24.1	23.6	21.9	24.2	23.2
Jun 3	23.5	23.5	23.4	23.4	23.4	23.5	24.1	23.9	23.2	22.8	22.1	22.3	22.1	21.9	21.9	22.2	22.7	23.1	23.3	23.2	23.7	24.0	24.2	21.9	24.2	23.1	
Jun 4	24.2	24.3	24.4	24.5	24.8	24.1	23.9	24.0	23.6	23.7	24.0	23.8	23.9	24.0	23.7	23.7	23.1	23.2	23.3	23.4	23.6	24.0	24.4	24.5	23.1	24.8	23.9
Jun 5	24.1	23.8	24.0	24.2	24.4	24.7	24.2	24.2	24.0	24.0	23.9	23.5	23.7	23.4	23.2	23.4	23.3	23.0	23.3	23.5	23.8	23.8	24.2	24.2	23.0	24.7	23.8
Jun 6	24.2	24.3	24.6	24.3	24.4	24.5	24.3	24.4	24.4	24.1	23.9	23.5	23.6	23.6	23.5	23.8	23.6	23.7	23.9	23.8	24.0	24.1	23.9	24.2	23.5	24.6	24.0
Jun 7	24.2	24.2	24.1	24.1	24.1	24.2	24.3	24.4	24.5	24.4	23.6	23.6	24.2	24.0	23.6	23.5	23.7	23.3	23.8	23.6	23.9	24.4	24.2	23.8	23.3	24.5	24.0
Jun 8	23.4	23.5	23.5	23.5	23.5	23.7	24.2	24.2	23.5	23.2	23.3	23.1	22.9	22.9	23.0	23.8	23.6	24.0	24.0	24.0	24.1	23.9	24.1	23.8	22.9	24.2	23.6
Jun 9	23.8	23.8	23.7	23.5	23.5	23.6	23.9	23.8	23.5	22.7	22.6	22.4	22.2	23.5	23.5	23.4	23.1	23.0	23.4	23.5	23.5	24.5	24.7	24.5	22.2	24.7	23.5
Jun 10	24.6	24.2	24.5	24.8	24.5	24.6	24.4	24.3	24.4	24.5	24.3	23.9	23.4	23.5	23.6	23.6	23.3	23.5	23.3	23.5	23.9	24.3	24.3	23.6	23.3	24.8	24.0
Jun 11	23.7	23.6	23.6	23.5	23.5	23.8	24.5	23.6	23.3	23.4	23.1	23.0	22.5	22.9	23.0	23.1	23.2	23.2	23.3	23.7	23.5	24.4	24.2	23.8	22.5	24.5	23.5
Jun 12	23.6	23.5	23.6	23.5	23.5	23.8	24.3	24.1	23.7	23.2	22.8	22.3	22.2	22.4	22.4	22.7	22.8	23.4	23.0	23.4	24.2	24.3	23.7	23.7	22.2	24.3	23.3
Jun 13	23.5	23.5	23.5	23.4	23.5	23.6	23.8	23.8	23.8	22.9	23.0	23.1	23.0	23.2	22.7	22.6	23.1	22.9	23.5	23.3	23.9	24.3	24.7	24.5	22.6	24.7	23.5
Jun 14	24.7	24.5	23.7	23.8	23.5	23.4	24.2	24.1	23.6	23.5	22.9	22.6	22.7	22.6	22.6	23.3	23.1	23.8	24.6	24.3	24.4	24.2	24.5	24.5	22.6	24.7	23.7
Jun 15	24.4	24.3	24.2	23.9	23.7	23.6	23.8	24.3	24.5	23.9	23.6	23.2	22.7	22.7	22.8	22.9	23.2	24.1	23.6	23.6	24.0	24.4	24.3	24.1	22.7	24.5	23.7
Jun 16	23.9	23.6	23.7	23.6	23.5	23.6	23.6	24.1	24.0	23.1	22.8	22.8	23.0	23.0	23.1	22.8	23.0	23.3	23.2	24.3	24.4	24.3	24.5	24.4	22.8	24.5	23.6
Jun 17	24.3	24.2	24.0	24.0	24.0	24.2	24.6	24.6	24.0	23.6	23.5	23.4	23.7	23.4	23.5	23.5	23.2	23.5	23.5	23.4	23.7	24.1	24.0	24.7	23.2	24.7	23.9
Jun 18	24.4	24.8	25.0	25.0	25.0	25.0	24.6	24.2	24.4	24.3	24.1	24.6	24.4	24.2	24.6	24.2	24.1	24.1	24.1	24.2	24.1	24.6	24.3	23.7	23.7	25.0	24.4
Jun 19	23.6	23.5	23.6	23.5	23.3	23.4	23.7	24.1	24.3	24.5	24.5	24.0	23.5	23.9	24.2	23.9	23.4	23.9	23.9	24.1	24.3	24.7	24.5	24.0	23.3	24.7	23.9
Jun 20	23.6	23.6	23.6	23.6	23.4	23.4	23.7	24.4	24.0	23.6	23.3	23.4	23.6	23.5	23.5	23.6	23.3	23.5	23.6	23.6	23.6	24.1	24.7	24.3	23.3	24.7	23.7
Jun 21	24.7	24.7	24.4	24.1	23.8	23.8	24.4	23.9	23.6	23.3	23.5	23.4	23.3	23.4	22.9	23.1	23.1	23.4	23.3	23.9	24.0	24.4	24.6	24.7	22.9	24.7	23.8
Jun 22	24.9	24.7	24.1	23.6	23.6	23.9	24.4	24.1	23.8	23.4	23.3	23.4	23.2	23.2	22.9	23.0	23.0	23.2	23.5	23.6	23.8	24.3	24.4	23.8	22.9	24.9	23.7
Jun 23	23.6	23.6	23.6	23.6	23.5	23.6	24.1	24.1	23.9	23.3	24.0	23.3	23.6	24.4	24.4	24.1	24.1	24.0	24.2	24.2	24.3	24.3	23.7	23.7	23.3	24.4	23.9
Jun 24	23.5	23.6	23.6	23.6	23.6	23.5	23.7	23.5	23.8	24.2	23.6	22.8	22.9	22.8	22.7	22.5	23.1	23.2	23.2	23.5	23.9	24.6	24.1	23.6	22.5	24.6	23.5
Jun 25	23.5	23.6	23.5	23.6	23.6	23.5	24.2	24.0	23.3	23.1	22.4	22.2	22.2	22.3	22.2	22.2	22.4	22.7	23.4	23.3	23.7	24.5	24.4	23.9	22.2	24.5	23.2
Jun 26	23.6	23.4	23.6	23.7	23.5	23.6	24.3	23.9	23.3	23.3	22.8	23.0	23.1	23.1	23.4	23.4	23.5	23.6	23.4	23.9	23.6	24.5	24.5	24.0	22.8	24.5	23.6
Jun 27	23.5	23.4	23.5	23.6	23.6	23.5	23.4	24.0	24.5	24.3	24.1	24.5	23.9	23.7	23.9	23.9	23.3	23.5	23.6	23.5	24.1	24.0	23.9	23.5	23.3	24.5	23.8
Jun 28	23.6	23.5	23.5	23.4	23.5	23.5	24.0	24.4	23.8	23.2	23.1	23.2	23.2	23.4	23.5	23.6	23.3	23.6	23.3	23.6	23.9	24.1	24.1	24.3	23.1	24.4	23.6
Jun 29	24.0	23.6	23.6	23.6	23.6	23.4	23.5	24.2	23.8	23.4	22.9	22.6	22.5	22.5	22.7	22.9	23.5	23.6	23.8	23.6	24.0	24.6	24.3	24.2	22.5	24.6	23.5
Jun 30	23.9	23.5	23.6	23.6	23.5	23.9	24.4	24.1	23.6	23.5	23.1	23.4	23.2	23.2	23.2	23.3	23.1	23.2	23.4	23.4	23.4	24.1	24.1	24.2	23.1	24.4	23.6
Diurnal Maximum	24.9	24.8	25.0	25.0	25.0	25.0	24.6	24.6	24.5	24.5	24.5	24.6	24.4	24.4	24.6	24.2	24.1	24.1	24.6	24.3	24.4	24.7	24.7	24.7	23.7	24.8	24.1
Diurnal Average	23.9	23.8	23.8	23.7	23.8	24.1	24.1	23.8	23.5	23.3	23.2	23.1	23.2	23.2	23.2	23.3	23.2	23.4	23.5	23.7	23.9	24.3	24.2	24.1	23.3	24.4	23.6

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for ST - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

PRECIPITATION in mm

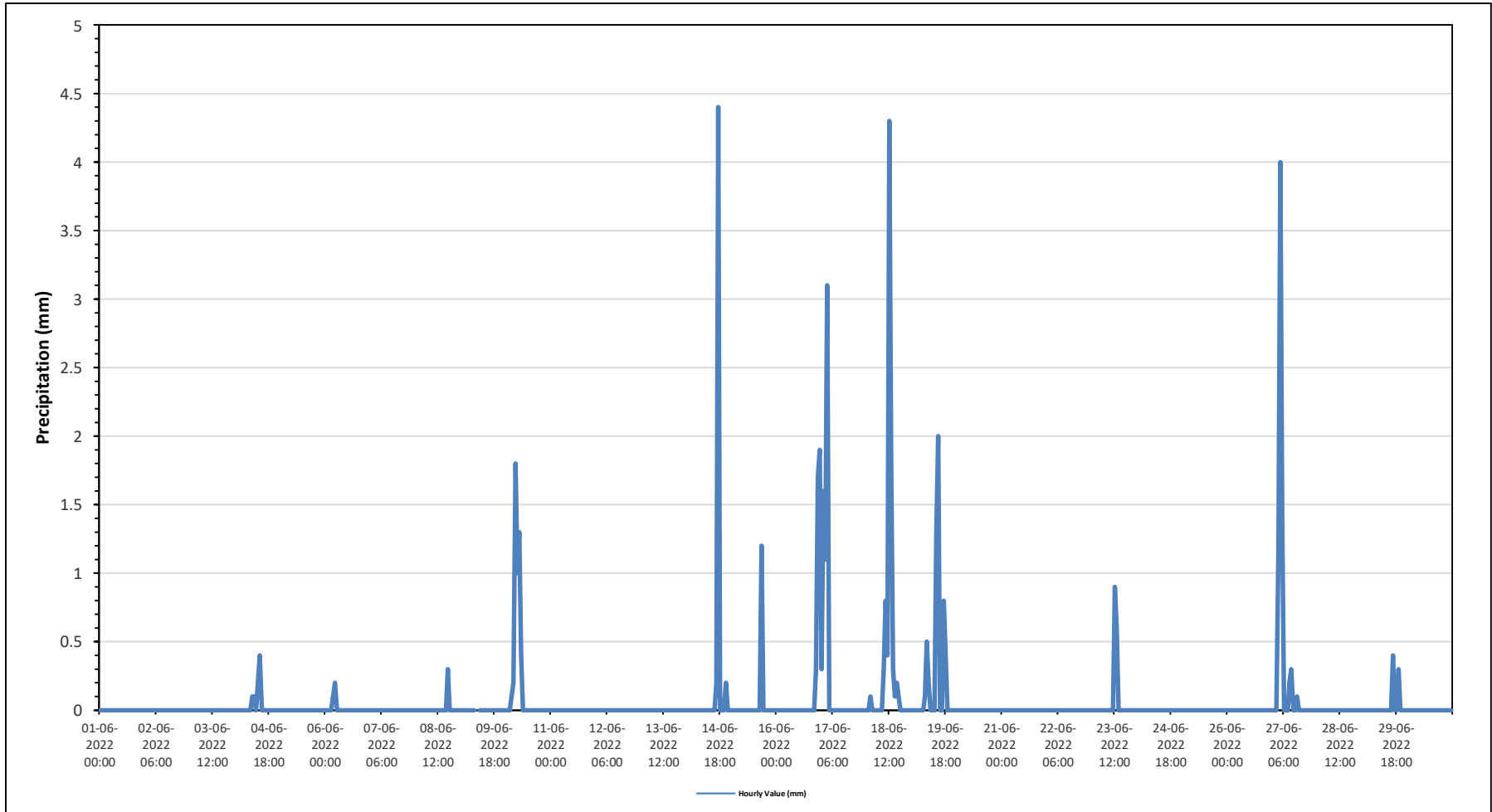
Maximum Hourly Value:	4.4 mm on June 14 at hour 17	Hours in Service:	720
Maximum Daily Value:	8.4 mm on June 18	Hours of Data:	718
Minimum Hourly Value:	0.0 mm on June 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 mm on June 1	Hours of Calibration:	2
Monthly Total:	45.3 mm	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 4	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0.2	0.4	0	0	0	0	0	0	0	0	0	0	0.0	0.4	0.8
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 6	0	0	0	0	0.1	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.3
Jun 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0.0	0.3	0.3
Jun 9	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 10	0	0	0	0.1	0.2	1.8	1	1.3	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.8	4.8
Jun 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	4.4	0	0	0	0.2	0	0	0.0	4.4	4.8
Jun 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0.0	1.2	1.2
Jun 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.7	1.9	0.0	1.9	3.9
Jun 17	0.3	1.6	1.1	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	3.1	6.1
Jun 18	0	0	0.1	0	0	0	0	0	0	0.3	0.8	0.4	4.3	1.8	0.3	0.1	0.2	0.1	0	0	0	0	0	0	0.0	4.3	8.4
Jun 19	0	0	0	0	0	0	0	0.1	0.5	0.2	0	0	0	1.3	2	0	0	0.8	0.4	0	0	0	0	0	0.0	2.0	5.3
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0.6	0	0	0	0	0	0	0	0	0	0	0.0	0.9	1.5
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 27	0	0	0	1.2	4	1.4	0	0	0	0.2	0.3	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.0	4.0	7.2
Jun 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jun 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.3	0	0	0	0	0.0	0.4	0.7
Jun 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.3	1.6	1.1	3.1	4.0	1.8	1.0	1.3	0.5	0.3	0.8	0.4	4.3	1.8	2.0	0.1	1.2	4.4	0.4	0.3	0.0	0.3	1.7	1.9			
Diurnal Average	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for Precipitation - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	17.2 kph	on June 4 at hour 15	Hours in Service:	720
Maximum Daily Value:	8.8 kph	on June 4	Hours of Data:	720
Minimum Hourly Value:	0.1 kph	on June 1 at hour 20	Hours of Missing Data:	0
Minimum Daily Value:	0.8 kph	on June 20	Hours of Calibration:	0
Monthly Average:	0.5 kph		Operational Uptime:	100.0

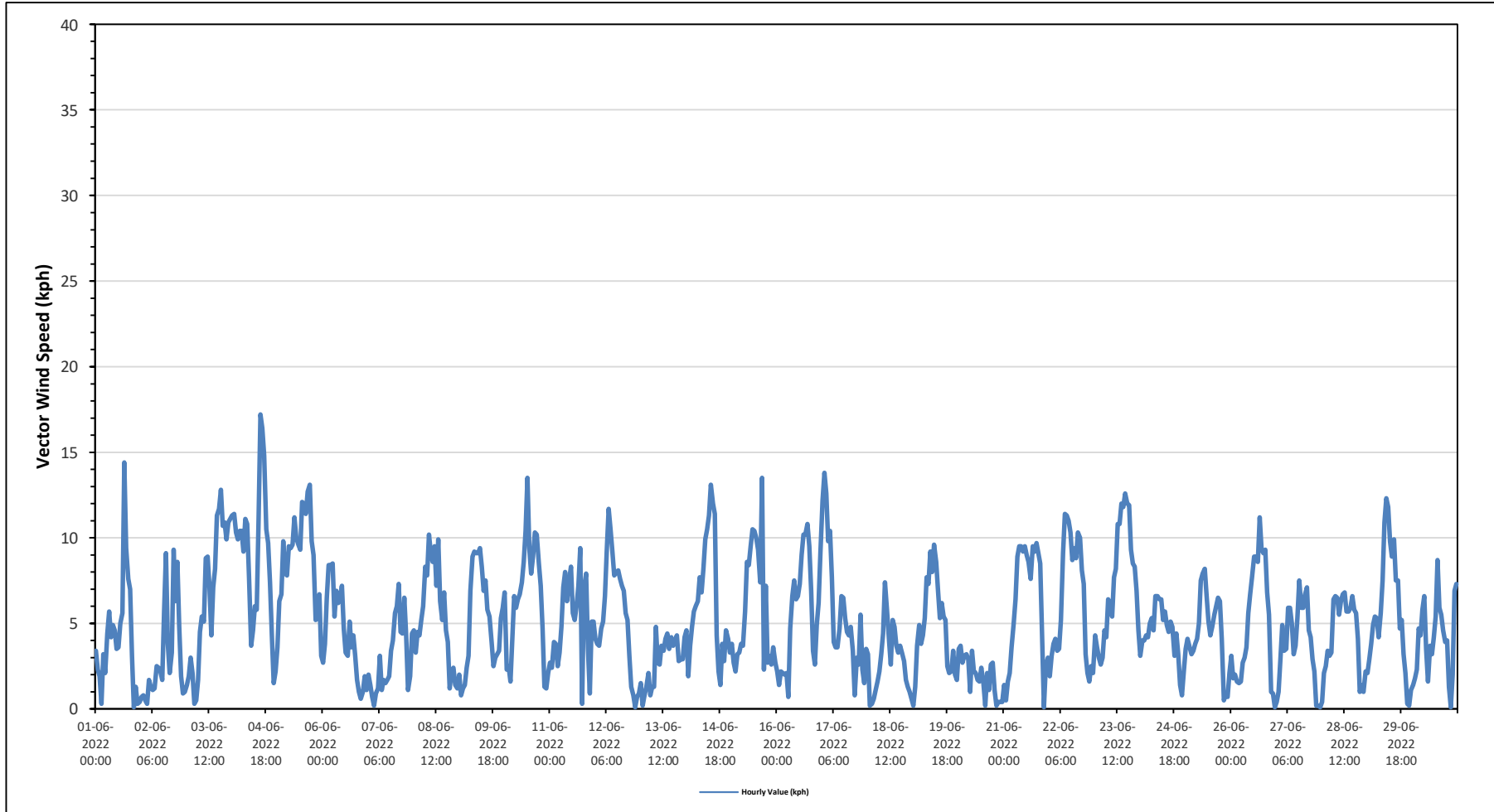
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	3.4	2.3	1.9	0.3	3.2	2.1	4.4	5.7	4.2	4.9	4.6	3.5	3.6	5.0	5.6	14.4	9.4	7.6	7.0	3.1	0.1	1.3	0.3	0.4	0.1	14.4	3.4
Jun 2	0.7	0.8	0.5	0.3	1.7	1.3	1.1	1.2	2.5	2.4	2.2	1.7	5.7	9.1	3.8	2.1	3.3	9.3	6.3	8.6	4.8	1.9	0.9	1.0	0.3	9.3	2.0
Jun 3	1.4	1.9	3.0	2.1	0.3	0.5	1.7	4.5	5.4	5.1	8.8	8.9	7.1	4.3	7.1	8.2	11.3	11.7	12.8	10.7	10.9	9.9	10.9	11.1	0.3	12.8	6.5
Jun 4	11.3	11.4	10.3	9.9	10.4	10.4	9.2	11.1	10.8	7.7	3.7	4.6	6.0	5.8	11.1	17.2	16.4	14.8	10.5	9.7	7.4	4.3	1.5	2.2	1.5	17.2	8.8
Jun 5	3.6	6.3	6.7	9.8	7.9	7.8	9.5	9.4	9.6	11.2	10.0	9.6	9.3	12.1	12.0	11.4	12.7	13.1	9.8	9.0	5.2	5.3	6.7	3.1	3.1	13.1	8.7
Jun 6	2.7	3.8	6.5	8.4	8.4	8.5	5.4	6.9	6.2	6.5	7.2	4.7	3.3	3.1	5.1	3.6	4.3	3.1	1.7	1.0	0.6	1.0	1.9	1.1	0.6	8.5	3.8
Jun 7	2.0	1.4	0.7	0.2	0.9	1.2	3.1	1.1	1.7	1.5	1.7	1.9	3.4	4.0	5.6	6.0	7.3	4.5	4.4	6.5	4.3	1.1	1.9	4.4	0.2	7.3	2.3
Jun 8	4.6	3.3	4.5	4.3	5.2	6.0	8.3	7.8	10.2	9.1	8.6	9.5	7.2	9.9	6.3	5.2	6.8	4.6	3.9	1.2	2.2	2.4	1.4	1.2	1.2	10.2	4.3
Jun 9	2.0	0.8	1.2	1.4	2.4	3.1	6.9	8.9	9.2	9.1	9.1	9.4	8.3	6.9	7.5	5.8	5.4	3.9	2.5	3.0	3.2	3.4	5.3	5.9	0.8	9.4	3.6
Jun 10	6.8	2.3	2.5	1.6	4.1	6.6	5.9	6.4	6.7	7.4	8.6	10.4	13.5	9.4	7.9	8.9	10.3	10.2	8.5	7.2	4.7	1.3	1.2	2.1	1.2	13.5	5.7
Jun 11	2.7	2.4	3.9	3.8	2.5	3.3	4.8	7.1	8.0	6.3	7.5	8.3	5.6	5.2	6.0	7.2	9.4	0.3	7.0	7.9	3.5	0.9	5.1	5.1	0.3	9.4	5.0
Jun 12	4.1	3.8	3.7	4.7	5.1	6.6	9.3	11.7	10.5	9.2	7.8	8.0	8.1	7.6	7.2	6.9	5.6	5.2	3.1	1.3	0.8	0.1	0.7	0.9	0.1	11.7	5.3
Jun 13	1.5	0.2	0.8	1.3	2.1	0.8	1.3	1.3	4.8	2.7	2.6	3.7	3.4	4.1	4.4	3.5	4.2	3.7	4.0	4.3	2.8	2.9	2.9	4.2	0.2	4.8	1.2
Jun 14	4.6	1.9	3.7	4.8	5.7	6.0	6.3	7.7	6.8	8.2	9.9	10.5	11.3	13.1	12.0	11.4	4.3	2.2	1.4	3.8	2.8	4.6	4.1	3.3	1.4	13.1	5.3
Jun 15	3.8	2.7	2.2	3.2	3.3	3.8	3.7	5.7	8.6	8.4	9.5	10.5	10.4	10.0	9.3	7.4	13.5	2.3	7.2	2.7	3.1	2.6	3.6	2.7	2.2	13.5	5.4
Jun 16	2.2	1.4	2.2	2.1	2.0	2.1	0.7	4.7	6.6	7.5	6.4	6.6	7.3	9.0	10.2	10.2	10.8	9.5	6.9	3.4	2.6	4.9	6.2	9.2	0.7	10.8	4.8
Jun 17	12.2	13.8	12.6	9.8	10.4	7.7	3.9	3.6	3.6	4.7	6.6	6.5	5.3	4.5	4.3	4.8	3.4	0.8	3.0	2.6	5.5	2.3	1.5	3.5	0.8	13.8	2.9
Jun 18	3.2	0.2	0.3	0.6	1.1	1.6	2.2	3.2	4.4	7.4	5.9	4.1	2.6	5.2	4.8	3.7	3.3	3.7	3.3	2.8	1.7	1.3	1.0	0.6	0.2	7.4	2.0
Jun 19	0.2	1.3	3.7	4.9	3.8	4.3	5.3	7.7	7.3	9.2	8.0	9.6	8.6	6.9	5.3	6.2	5.4	5.2	2.5	2.1	2.2	3.4	2.0	1.7	0.2	9.6	4.4
Jun 20	3.5	3.7	2.7	3.1	3.2	2.9	1.0	3.4	2.2	2.1	1.7	1.6	2.4	1.5	0.2	2.1	1.1	2.6	2.7	1.1	0.2	0.4	0.4	0.4	0.2	3.7	0.8
Jun 21	1.4	0.5	1.6	2.1	3.6	5.0	6.4	8.9	9.5	9.5	9.2	9.5	9.0	8.6	7.6	9.5	9.2	9.7	9.1	8.5	4.3	0.1	2.5	3.0	0.1	9.7	6.1
Jun 22	1.9	3.1	3.8	4.1	3.4	3.5	5.2	9.1	11.4	11.3	11.0	10.3	8.7	9.4	8.8	10.3	10.0	8.1	7.3	3.2	2.1	1.6	2.5	2.1	1.6	11.4	5.9
Jun 23	4.3	3.6	3.0	2.6	3.0	4.6	4.2	6.4	6.1	5.4	7.7	8.2	10.8	10.8	12.0	11.8	12.6	12.0	11.9	9.3	8.5	8.3	6.9	4.6	2.6	12.6	7.2
Jun 24	3.1	4.0	4.0	4.3	4.2	5.0	5.3	4.6	6.6	6.6	6.4	6.4	5.2	5.7	4.9	4.5	5.1	4.8	3.1	4.4	3.2	1.4	0.8	2.2	0.8	6.6	3.6
Jun 25	3.5	4.1	3.6	3.2	3.4	3.8	4.1	5.0	7.5	7.9	8.2	6.6	5.1	4.3	4.8	5.5	6.0	6.5	6.3	4.1	0.5	0.9	0.7	2.1	0.5	8.2	4.4
Jun 26	3.1	1.8	2.0	1.6	1.5	1.6	2.7	3.0	3.6	5.6	6.7	7.7	8.9	8.9	8.6	11.2	9.3	9.1	9.3	6.8	5.5	1.0	0.9	0.1	0.1	11.2	3.9
Jun 27	0.4	1.0	2.9	4.9	3.4	3.5	5.9	5.9	5.0	3.2	3.7	5.3	7.5	5.9	5.9	6.7	7.1	4.6	4.2	2.9	2.2	0.2	0.2	0.1	0.1	7.5	3.4
Jun 28	0.4	2.1	2.5	3.4	3.1	3.3	6.4	6.6	6.5	5.5	6.3	6.7	6.8	5.7	5.7	5.9	6.6	5.8	5.6	4.1	1.0	1.4	1.0	2.2	0.4	6.8	4.1
Jun 29	2.1	2.9	3.8	4.9	5.4	5.3	4.2	5.6	7.5	10.9	12.3	11.8	9.8	8.9	9.9	7.5	7.5	4.7	5.2	3.2	2.1	0.3	0.2	1.1	0.2	12.3	5.1
Jun 30	1.4	1.8	2.3	4.7	4.3	5.8	6.6	3.5	1.6	3.7	3.2	4.2	5.4	8.7	5.9	5.5	4.6	3.9	4.0	1.3	0.1	2.0	6.9	7.3	0.1	8.7	2.9
Diurnal Maximum	12	14	13	10	10	10	10	12	11	11	12	12	14	13	12	17	16	15	13	11	11	10	11	11			
Diurnal Average	3.3	3.0	3.4	3.7	4.0	4.3	4.8	5.9	6.5	6.7	6.8	7.0	7.0	7.1	7.0	7.5	6.3	5.8	4.7	3.3	2.4	2.7	3.0				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

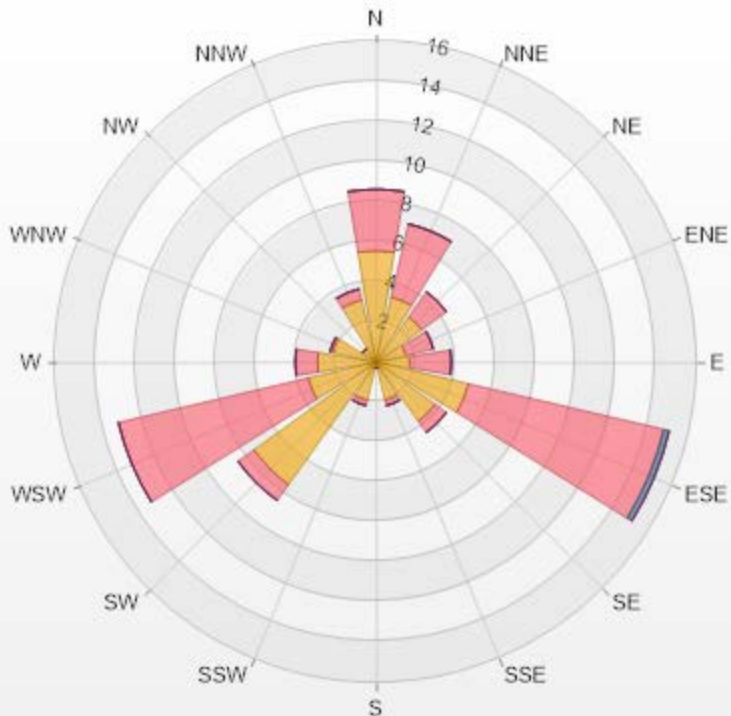
Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 06-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.

Calm: 16.67% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	5.56	3.06	0	0	0	8.62
NNE	3.33	3.75	0	0	0	7.08
NE	2.78	1.53	0	0	0	4.31
ENE	1.53	1.39	0	0	0	2.92
E	1.67	2.08	0	0	0	3.75
ESE	4.72	10	0.28	0	0	15
SE	3.61	0.69	0	0	0	4.3
SSE	1.94	0.28	0	0	0	2.22
S	0.28	0	0	0	0	0.28
SSW	1.94	0.28	0	0	0	2.22
SW	7.5	0.97	0	0	0	8.47
WSW	3.47	9.72	0	0	0	13.19
W	2.92	1.11	0	0	0	4.03
WNW	2.22	0.14	0	0	0	2.36
NW	0.83	0	0	0	0	0.83
NNW	3.19	0.56	0	0	0	3.75
Summary	47.49	35.56	0.28	0	0	83.33



PRAMP-202206

Page 156 of 276

% Icon Classes (KPH)	47	36	0	0
1.8-6.0	47	36	0	0
6.0-15.0		36	0	0
15.0-29.0			0	0
29.0-39.0			0	0
>39.0				0



PEACE RIVER AREA MONITORING PROGRAM

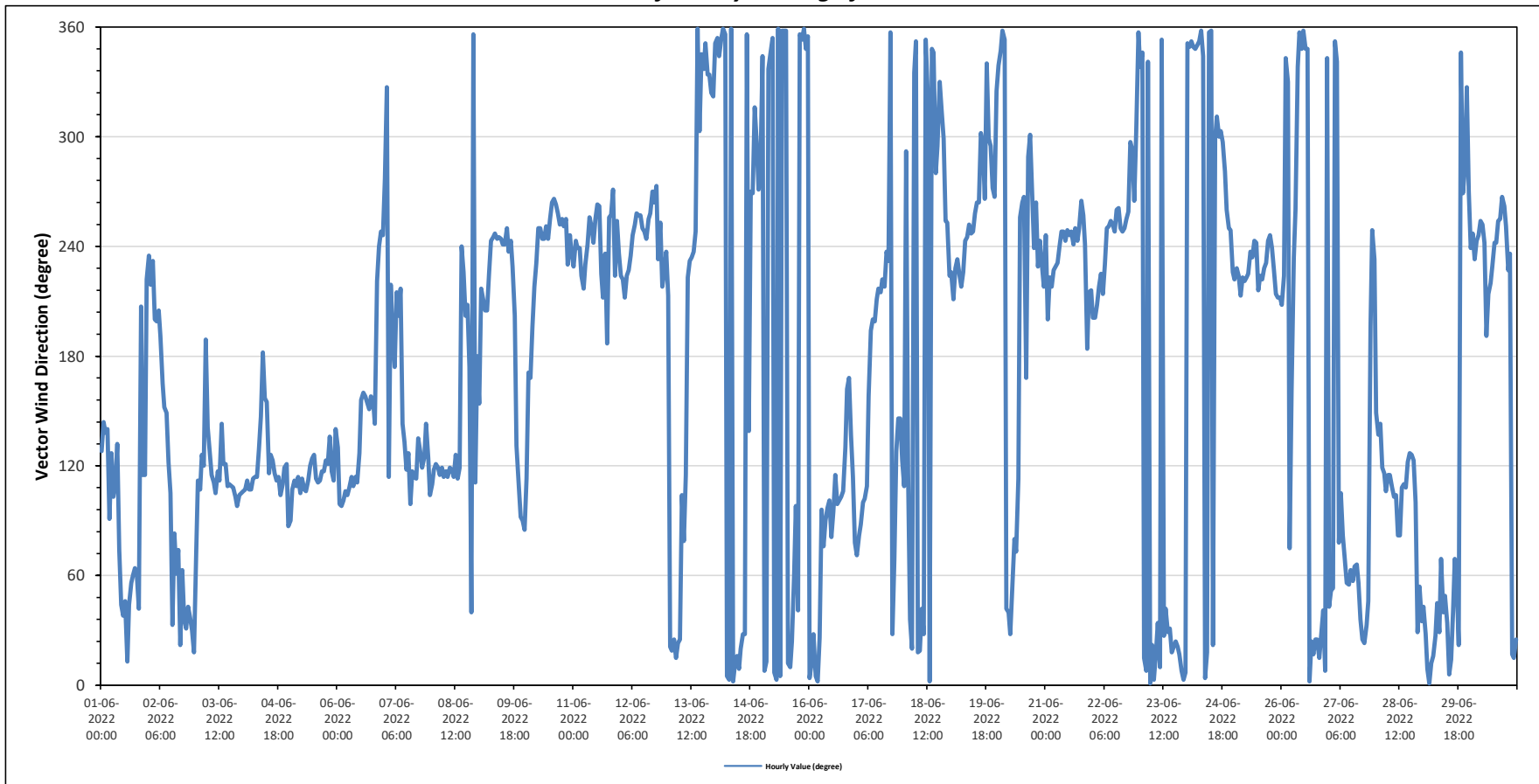
Reno Station - June 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		94 (E) degree														Hours in Service:		720									
																Hours of Data:		720									
																Hours of Missing Data:		0									
																Hours of Calibration:		0									
																Operational Uptime:		100.0									
Day	Hourly Period Starting at (MST)																							Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant	
Jun 1	SE	SE	SE	SE	E	SE	ESE	ESE	SE	ENE	NE	NE	NE	NNE	NE	NE	ENE	ENE	ENE	NE	SSW	ESE	ESE	SW	71	ENE	
Jun 2	SW	SW	SW	SSW	SSW	SSW	S	SSE	SSE	ESE	ESE	ESE	NNE	E	ENE	ENE	NNE	ENE	NE	NNE	NE	NE	NNE	NNE	63	ENE	
Jun 3	ENE	ESE	ESE	SE	ESE	S	SE	SE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	111	ESE	
Jun 4	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	S	SSE	SSE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	118	ESE	
Jun 5	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	SE	115	ESE	
Jun 6	SE	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SW	WSW	WSW	WSW	122	ESE		
Jun 7	W	NW	ESE	SW	S	S	SSW	SSW	SW	SE	SE	ESE	SE	E	ESE	ESE	ESE	SE	SE	ESE	SE	SE	ESE	ESE	128	SE	
Jun 8	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	WSW	SW	SSW	SSW	S	NE	N	ESE	S	126	SE	
Jun 9	SSE	SW	SSW	SSW	SSW	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SE	ESE	E	E	E	230	SW	
Jun 10	ESE	S	SSE	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	247	WSW	
Jun 11	SW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	SW	SSW	SW	S	WSW	WSW	W	SW	WSW	SW	244	WSW
Jun 12	SW	SW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	SW	WSW	SW	SW	SW	SW	248	WSW	
Jun 13	SSW	NNE	NNE	NNE	NNE	NNE	NNE	ESE	ENE	ESE	SW	SW	SW	WSW	N	WNW	NNW	NNW	N	NNW	NNW	NW	NW	NW	320	NW	
Jun 14	N	N	NNW	N	N	N	N	N	N	N	NNE	NNE	N	NNE	NNE	N	SE	W	W	NW	WNW	W	WNW	1	N		
Jun 15	NNW	N	NNE	NNW	NNW	N	N	N	N	N	N	N	N	NNE	N	NNE	ENE	E	NE	N	N	N	NNW	N	10	N	
Jun 16	N	NNE	NNE	N	N	NNE	E	ENE	E	E	E	E	E	ESE	E	E	ESE	SE	SSE	SSE	SE	ESE	ENE	ENE	98	E	
Jun 17	ENE	E	E	E	E	ESE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	N	NNE	ENE	SE	SE	SE	ESE	131	SE	
Jun 18	ESE	WNW	ESE	NE	NNE	NNW	N	NNE	NNE	NE	NNE	N	NW	N	NNW	NNW	W	WNW	NNW	NW	WNW	WSW	WSW	SW	354	N	
Jun 19	SW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WNW	WNW	W	NNW	WNW	WNW	W	W	NW	256	WSW	
Jun 20	NNW	NNW	N	N	NE	NE	NNE	NE	E	ENE	ESE	WSW	W	W	SSE	WNW	WNW	W	WSW	W	SW	WSW	SW	SW	345	NNW	
Jun 21	WSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	S	SSW	SW	244	WSW	
Jun 22	SSW	SSW	SSW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WNW	WNW	W	WNW	N	250	WSW	
Jun 23	NNW	NNW	NNE	N	NNW	N	NNE	N	NNE	NE	N	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	17	NNE	
Jun 24	N	NNW	N	NNW	NNW	N	N	N	NNW	N	NNE	N	N	NNE	N/NW	NW	WNW	WNW	WNW	W	WSW	WSW	WSW	SW	337	NNW	
Jun 25	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SSW	SSW	230	SW	
Jun 26	SSW	SW	NNW	NNW	ENE	SSE	SW	WSW	NNW	N	NNW	N	NNW	NNW	N	SSE	NNE	NNE	NNE	NNE	NNE	NE	N	NNW	4	N	
Jun 27	NE	NE	NE	N	NNW	ENE	ESE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NE	SSW	WSW	SW	53	NE	
Jun 28	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	SE	SE	ESE	E	NNE	NE	NE	NE	108	ESE	
Jun 29	NE	NNE	N	N	NNE	NNE	NE	NNE	ENE	NE	NE	NE	NE	NNE	NE	ENE	NE	NE	NNE	NNW	W	W	NW	W	32	NNE	
Jun 30	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	S	SSW	SW	SW	WSW	WSW	WSW	WSW	W	W	WSW	SW	SW	NNE	NNE	NNE	254	WSW	
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance												
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure					
X	Invalid Data (Machine Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for VWD - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																											
Maximum Hourly Value: 17.2 kph on June 4 at hour 15													Hours in Service: 720														
Maximum Daily Value: 8.8 kph on June 4													Hours of Data: 720														
Minimum Hourly Value: 0.1 kph on June 1 at hour 20													Hours of Missing Data: 0														
Minimum Daily Value: 0.8 kph on June 20													Hours of Calibration: 0														
Monthly Average: 0.5 kph													Operational Uptime: 100														
WIND DIRECTION																											
Monthly Average: 94 (E) degree																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	3.4	2.3	1.9	0.3	3.2	2.1	4.4	5.7	4.2	4.9	4.6	3.5	3.6	5.0	5.6	14.4	9.4	7.6	7.0	3.1	0.1	1.3	0.3	0.4	0.1	14.4	3.4
Jun 2	0.7	0.8	0.5	0.3	1.7	1.3	1.1	1.2	2.5	2.4	2.2	1.7	5.7	9.1	3.8	2.1	3.3	9.3	6.3	8.6	4.8	1.9	0.9	1.0	0.3	9.3	2.0
Jun 3	1.4	1.9	3.0	2.1	0.3	0.5	1.7	4.5	5.4	5.1	8.8	8.9	7.1	4.3	7.1	8.2	11.3	11.7	12.8	10.7	10.9	9.9	10.9	11.1	0.3	12.8	6.5
Jun 4	11.3	11.4	10.3	9.9	10.4	10.4	9.2	11.1	10.8	7.7	3.7	4.6	6.0	5.8	11.1	17.2	16.4	14.8	10.5	9.7	7.4	4.3	1.5	2.2	1.5	17.2	8.8
Jun 5	3.6	6.3	6.7	9.8	7.9	7.8	9.5	9.4	9.6	11.2	10.0	9.6	9.3	12.1	12.0	11.4	12.7	13.1	9.8	9.0	5.2	5.3	6.7	3.1	3.1	13.1	8.7
Jun 6	2.7	3.8	6.5	8.4	8.4	8.5	5.4	6.9	6.2	6.5	7.2	4.7	3.3	3.1	5.1	3.6	4.3	3.1	1.7	1.0	0.6	1.0	1.9	1.1	0.6	8.5	3.8
Jun 7	2.0	1.4	0.7	0.2	0.9	1.2	3.1	1.1	1.7	1.5	1.7	1.9	3.4	4.0	5.6	6.0	7.3	4.5	4.4	6.5	4.3	1.1	1.9	4.4	0.2	7.3	2.3
Jun 8	4.6	3.3	4.5	4.3	5.2	6.0	8.3	7.8	10.2	9.1	8.6	9.5	7.2	9.9	6.3	5.2	6.8	4.6	3.9	1.2	2.2	2.4	1.4	1.2	1.2	10.2	4.3
Jun 9	2.0	0.8	1.2	1.4	2.4	3.1	6.9	8.9	9.2	9.1	9.1	9.4	8.3	6.9	7.5	5.8	5.4	3.9	2.5	3.0	3.2	3.4	5.3	5.9	0.8	9.4	3.6
Jun 10	6.8	2.3	2.5	1.6	4.1	6.6	5.9	6.4	6.7	7.4	8.6	10.4	13.5	9.4	7.9	8.9	10.3	10.2	8.5	7.2	4.7	1.3	1.2	2.1	1.2	13.5	5.7
Jun 11	2.7	2.4	3.9	3.8	2.5	3.3	4.8	7.1	8.0	6.3	7.5	8.3	5.6	5.2	6.0	7.2	9.4	0.3	7.0	7.9	3.5	0.9	5.1	5.1	0.3	9.4	5.0
Jun 12	4.1	3.8	3.7	4.7	5.1	6.6	9.3	11.7	10.5	9.2	7.8	8.0	8.1	7.6	7.2	6.9	5.6	5.2	3.1	1.3	0.8	0.1	0.7	0.9	0.1	11.7	5.3
Jun 13	1.5	0.2	0.8	1.3	2.1	0.8	1.3	1.3	4.8	2.7	2.6	3.7	3.4	4.1	4.4	3.5	4.2	3.7	4.0	4.3	2.8	2.9	2.9	4.2	0.2	4.8	1.2
Jun 14	4.6	1.9	3.7	4.8	5.7	6.0	6.3	7.7	6.8	8.2	9.9	10.5	11.3	12.0	11.4	4.3	2.2	1.4	3.8	2.8	4.6	4.1	3.3	1.4	13.1	5.3	
Jun 15	3.8	2.7	2.2	3.2	3.3	3.8	3.7	5.7	8.6	8.4	9.5	10.5	10.4	10.0	9.3	7.4	13.5	2.3	7.2	2.7	3.1	2.6	3.6	2.7	2.2	13.5	5.4
Jun 16	2.2	1.4	2.2	2.1	2.0	2.1	0.7	4.7	6.6	7.5	6.4	6.6	7.3	9.0	10.2	10.2	10.8	9.5	6.9	3.4	2.6	4.9	6.2	9.2	0.7	10.8	4.8
Jun 17	12.2	13.8	12.6	9.8	10.4	7.7	3.9	3.6	3.6	4.7	6.6	6.5	5.3	4.5	4.3	4.8	3.4	0.8	3.0	2.6	5.5	2.3	1.5	3.5	0.8	13.8	2.9
Jun 18	3.2	0.2	0.3	0.6	1.1	1.6	2.2	3.2	4.4	7.4	5.9	4.1	2.6	5.2	4.8	3.7	3.3	3.7	3.3	2.8	1.7	1.3	1.0	0.6	0.2	7.4	2.0
Jun 19	0.2	1.3	3.7	4.9	3.8	4.3	5.3	7.7	7.3	9.2	8.0	9.6	8.6	6.9	5.3	6.2	5.4	5.2	2.5	2.1	2.2	3.4	2.0	1.7	0.2	9.6	4.4
Jun 20	3.5	3.7	2.7	3.1	3.2	2.9	1.0	3.4	2.2	2.1	1.7	1.6	2.4	1.5	0.2	2.1	1.1	2.6	2.7	1.1	0.2	0.4	0.4	0.4	0.2	3.7	0.8



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																															
Maximum Hourly Value:	17.2	kph	on June 4 at hour 15	Hours in Service:	720																										
Maximum Daily Value:	8.8	kph	on June 4	Hours of Data:	720																										
Minimum Hourly Value:	0.1	kph	on June 1 at hour 20	Hours of Missing Data:	0																										
Minimum Daily Value:	0.8	kph	on June 20	Hours of Calibration:	0																										
Monthly Average:	0.5	kph		Operational Uptime:	100																										
WIND DIRECTION																															
Monthly Average:	94	(E)	degree																												
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23							
Jun 21	1.4	0.5	1.6	2.1	3.6	5.0	6.4	8.9	9.5	9.5	9.2	9.5	9.0	8.6	7.6	9.5	9.2	9.7	9.1	8.5	4.3	0.1	2.5	3.0	0.1	9.7	6.1				
	WSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	S	SSW	SW							
Jun 22	1.9	3.1	3.8	4.1	3.4	3.5	5.2	9.1	11.4	11.3	11.0	10.3	8.7	9.4	8.8	10.3	10.0	8.1	7.3	3.2	2.1	1.6	2.5	2.1	1.6	11.4	5.9				
	SSW	SSW	SSW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WNW	W	WNW	N							
Jun 23	4.3	3.6	3.0	2.6	3.0	4.6	4.2	6.4	6.1	5.4	7.7	8.2	10.8	10.8	12.0	11.8	12.6	12.0	11.9	9.3	8.5	8.3	6.9	4.6	2.6	12.6	7.2				
	NNW	NNW	NNE	N	NNW	N	NNE	N	NNE	NE	N	N	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N							
Jun 24	3.1	4.0	4.0	4.3	4.2	5.0	5.3	4.6	6.6	6.6	6.4	6.4	5.2	5.7	4.9	4.5	5.1	4.8	3.1	4.4	3.2	1.4	0.8	2.2	0.8	6.6	3.6				
	N	NNW	N	NNW	NNW	N	N	N	NNW	N	NNE	N	N	NNE	WNW	NW	WNW	WNW	WNW	W	WSW	WSW	WSW	SW							
Jun 25	3.5	4.1	3.6	3.2	3.4	3.8	4.1	5.0	7.5	7.9	8.2	6.6	5.1	4.3	4.8	5.5	6.0	6.5	6.3	4.1	0.5	0.9	0.7	2.1	0.5	8.2	4.4				
	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW						
Jun 26	3.1	1.8	2.0	1.6	1.5	1.6	2.7	3.0	3.6	5.6	6.7	7.7	8.9	8.9	8.6	11.2	9.3	9.1	9.3	6.8	5.5	1.0	0.9	0.1	0.1	11.2	3.9				
	SSW	SW	NNW	NNW	ENE	SSE	SW	WSW	NNW	N	NNW	N	NNW	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	N	NNW								
Jun 27	0.4	1.0	2.9	4.9	3.4	3.5	5.9	5.9	5.0	3.2	3.7	5.3	7.5	5.9	5.9	6.7	7.1	4.6	4.2	2.9	2.2	0.2	0.2	0.1	0.1	7.5	3.4				
	NE	NE	NE	N	NNW	ENE	ESE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NNE	NE	SSW	WSW	SW							
Jun 28	0.4	2.1	2.5	3.4	3.1	3.3	6.4	6.6	6.5	5.5	6.3	6.7	6.8	5.7	5.7	5.9	6.6	5.8	5.6	4.1	1.0	1.4	1.0	2.2	0.4	6.8	4.1				
	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	ESE	SE	SE	ESE	E	NNE	NE	NE								
Jun 29	2.1	2.9	3.8	4.9	5.4	5.3	4.2	5.6	7.5	10.9	12.3	11.8	9.8	8.9	9.9	7.5	7.5	4.7	5.2	3.2	2.1	0.3	0.2	1.1	0.2	12.3	5.1				
	NE	NNE	N	N	NNE	NNE	NE	NNE	ENE	NE	NE	NE	N	NNE	NE	ENE	NE	NNE	NNE	NNW	W	W	NW	W							
Jun 30	1.4	1.8	2.3	4.7	4.3	5.8	6.6	3.5	1.6	3.7	3.2	4.2	5.4	8.7	5.9	5.5	4.6	3.9	4.0	1.3	0.1	2.0	6.9	7.3	0.1	8.7	2.9				
	WSW	WSW	SW	WSW	WSW	WSW	WSW	S	SSW	SW	SW	WSW	WSW	WSW	WSW	W	W	WSW	SW	SW	NNE	NNE	NNE								
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance														
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure						
X	Invalid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																						
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																															

PRC STATION



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

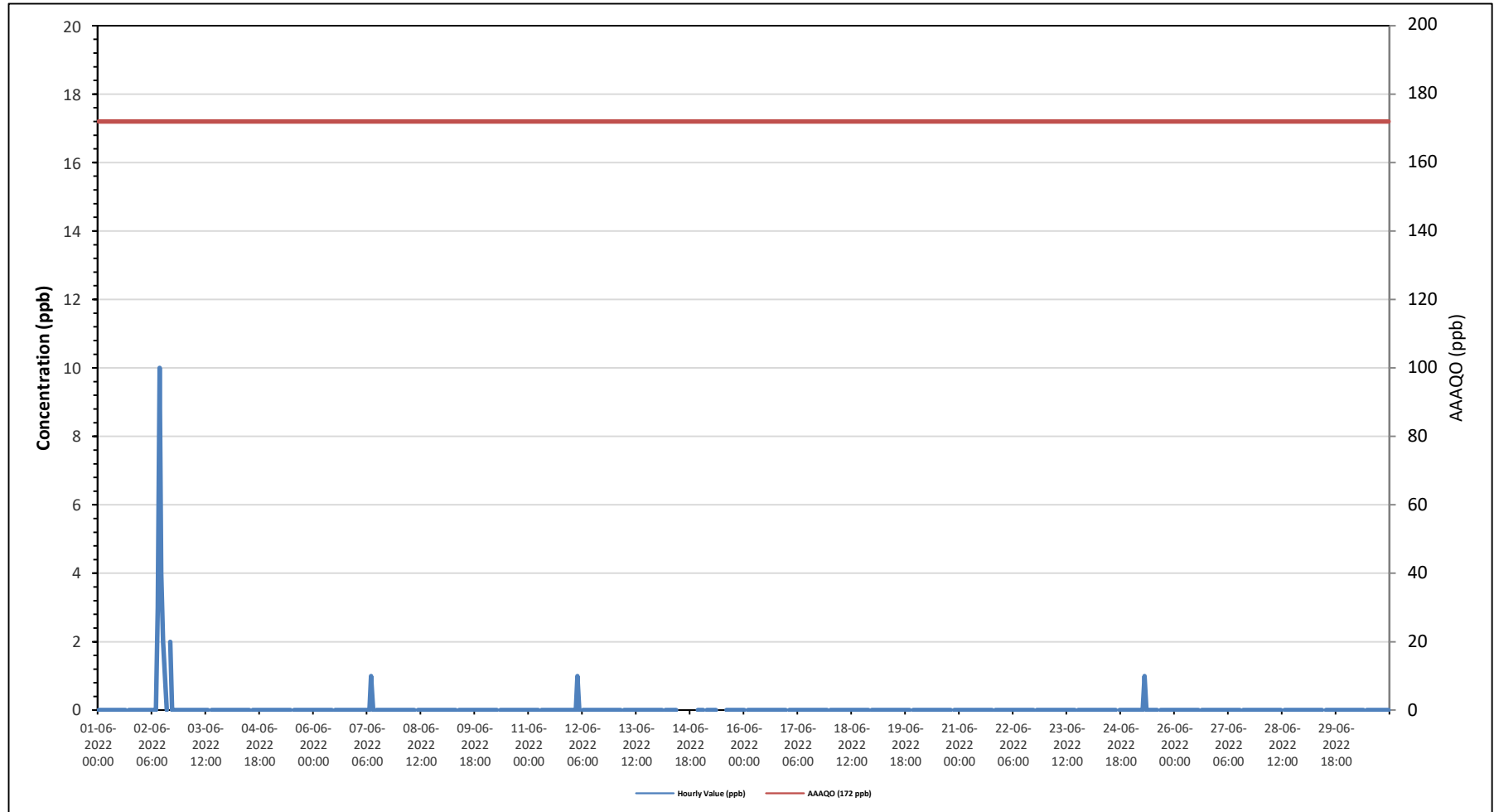
Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

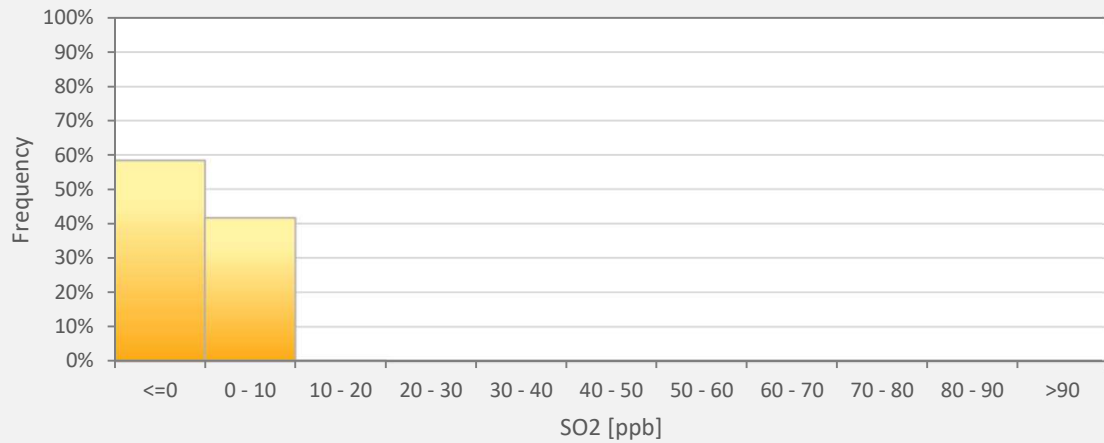
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																													
Number of 1-Hour Exceedances: 0					Number of 24-Hour Exceedances: 0					30-Day Exceedance: 0																			
Maximum Hourly Value: 10 ppb on June 2 at hour 10					Hours in Service: 720																								
Maximum Daily Value: 1.0 ppb on June 2					Hours of Data: 673																								
Minimum Hourly Value: 0 ppb on June 1 at hour 0					Hours of Missing Data: 11																								
Minimum Daily Value: 0.0 ppb on June 1					Hours of Calibration: 36																								
Monthly Average: 0.0 ppb					Operational Uptime: 98.5																								
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	
Jun 2	0	0	0	0	0	0	0	0	0	3	10	4	2	1	0	S	2	0	0	0	0	0	0	0	0	0	0	0	0
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 4	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 6	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 7	0	0	0	0	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 8	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 9	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 10	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 11	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 12	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 13	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 14	0	0	0	S	0	0	0	0	0	0	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Jun 15	0	0	S	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 16	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 17	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0
Jun 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0
Jun 25	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 27	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 28	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 29	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 30	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Maximum	0	0	0	1	0	0	0	1	1	3	10	4	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	Monthly Calibration					S	Daily Zero-Span Check					Q	Quality Assurance																
K	Collection Error					N	No Data (Machine Not in Service)					Y	Routine Maintenance					P	Power Failure										
X	Invalid Data (Equipment Malfunction /Recovery)					NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																						

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for SO₂ - Peace River Complex (PRC) Station



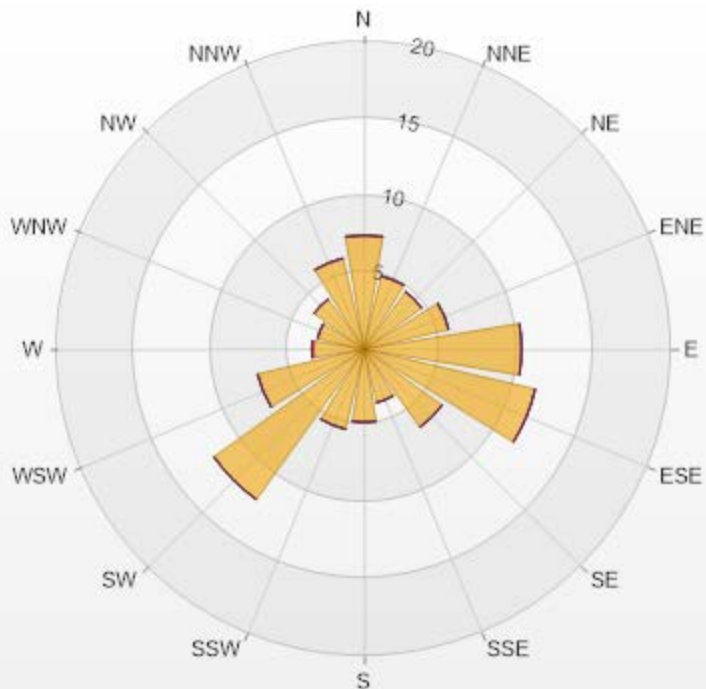
SO2[ppb] Histogram: Peace River Complex [PRC] Monthly: 06-2022 1 Hr.



Classes	SO2
<=0	58.25%
0 - 10	41.60%
10 - 20	0.15%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.47% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	7.43	0	0	0	0	7.43
NNE	4.9	0	0	0	0	4.9
NE	4.61	0	0	0	0	4.61
ENE	5.65	0	0	0	0	5.65
E	10.25	0	0	0	0	10.25
ESE	11.44	0	0	0	0	11.44
SE	6.24	0	0	0	0	6.24
SSE	3.57	0	0	0	0	3.57
S	4.75	0	0	0	0	4.75
SSW	5.35	0	0	0	0	5.35
SW	12.04	0	0	0	0	12.04
WSW	7.13	0	0	0	0	7.13
W	3.27	0.15	0	0	0	3.42
WNW	3.12	0	0	0	0	3.12
NW	4.01	0	0	0	0	4.01
NNW	6.09	0	0	0	0	6.09
Summary	100	0.15	0	0	0	100



PRAMP-202206

Page 166 of 276

% Icon Classes (ppb)

100 0-10

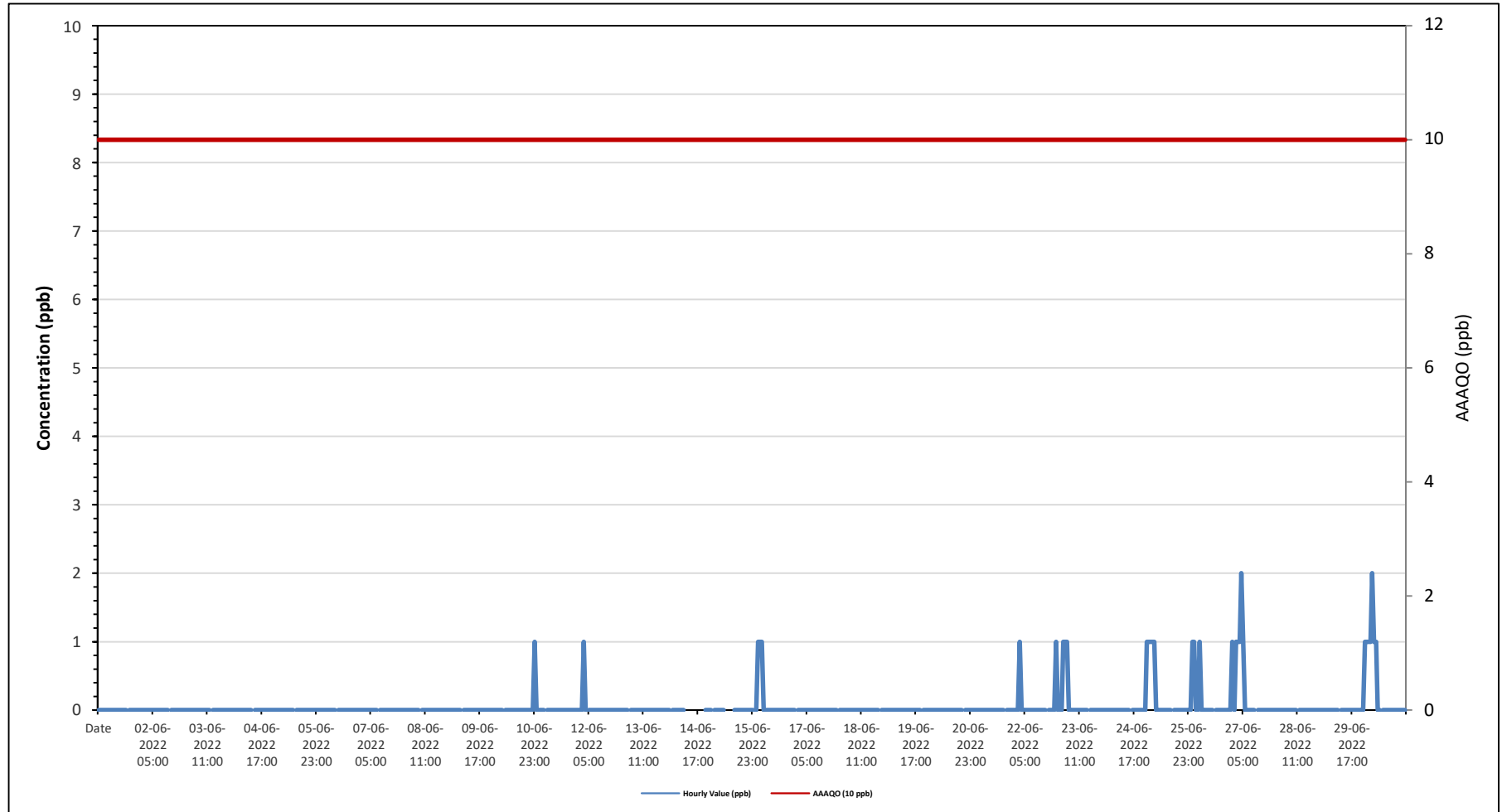
0 10-50

0 50-100

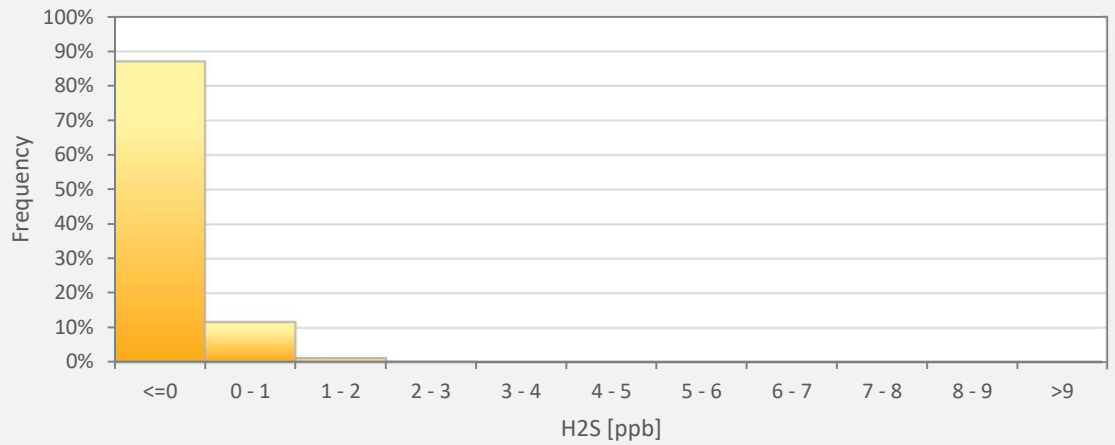
0 100-172

0 >172.0

Timeseries Chart of Hourly Average for H2S - Peace River Complex (PRC) Station



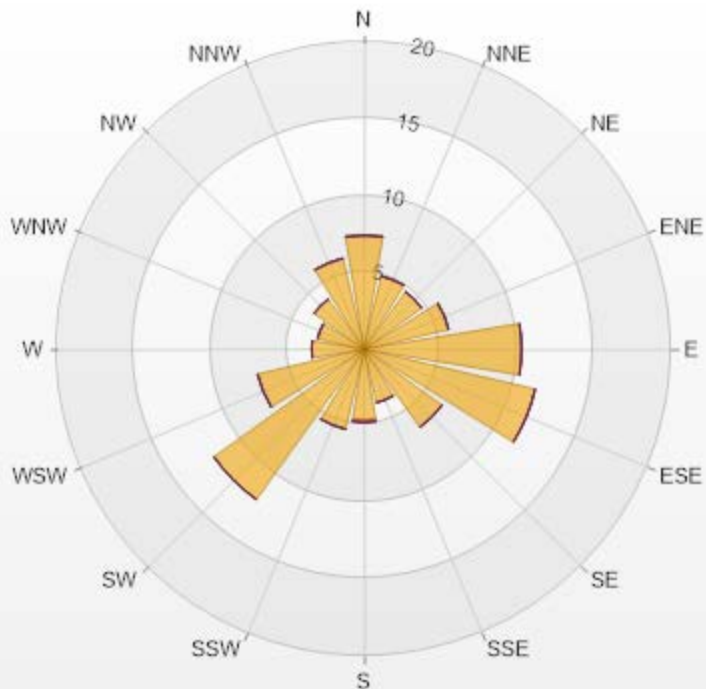
H2S[ppb] Histogram: Peace River Complex [PRC] Monthly: 06-2022 1 Hr.



Classes	H2S
<=0	87.07%
0 - 1	11.59%
1 - 2	1.19%
2 - 3	0.15%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.47% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	7.43	0	0	0	0	7.43
NNE	4.9	0	0	0	0	4.9
NE	4.61	0	0	0	0	4.61
ENE	5.65	0	0	0	0	5.65
E	10.25	0	0	0	0	10.25
ESE	11.44	0	0	0	0	11.44
SE	6.24	0	0	0	0	6.24
SSE	3.57	0	0	0	0	3.57
S	4.61	0.15	0	0	0	4.76
SSW	5.35	0	0	0	0	5.35
SW	12.04	0	0	0	0	12.04
WSW	7.13	0	0	0	0	7.13
W	3.42	0	0	0	0	3.42
WNW	3.12	0	0	0	0	3.12
NW	4.01	0	0	0	0	4.01
NNW	6.09	0	0	0	0	6.09
Summary	100	0.15	0	0	0	100



PRAMP-202206

Page 171 of 276

% Icon Classes (ppb)

100 0-2

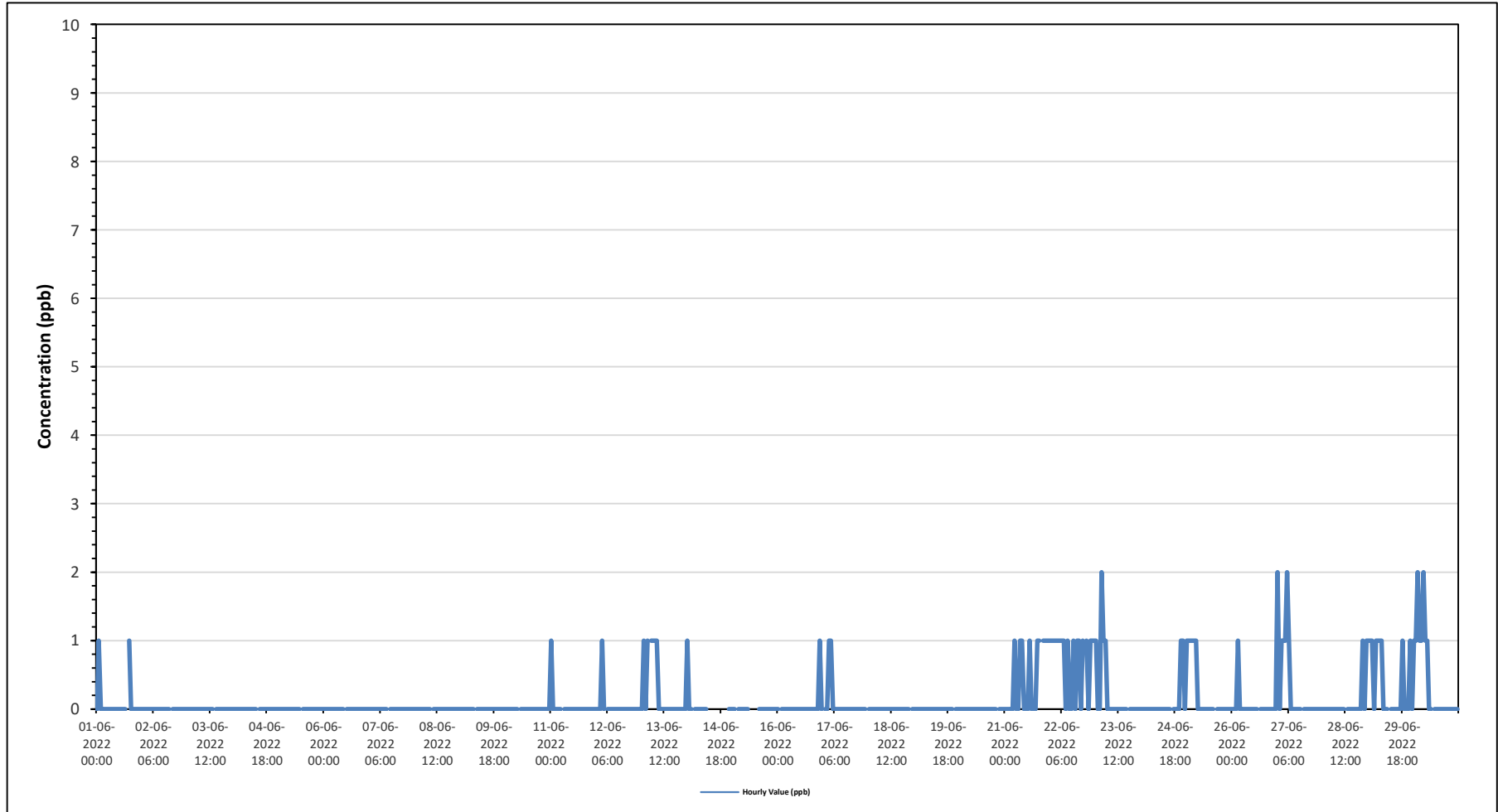
0 2-5

0 5-10

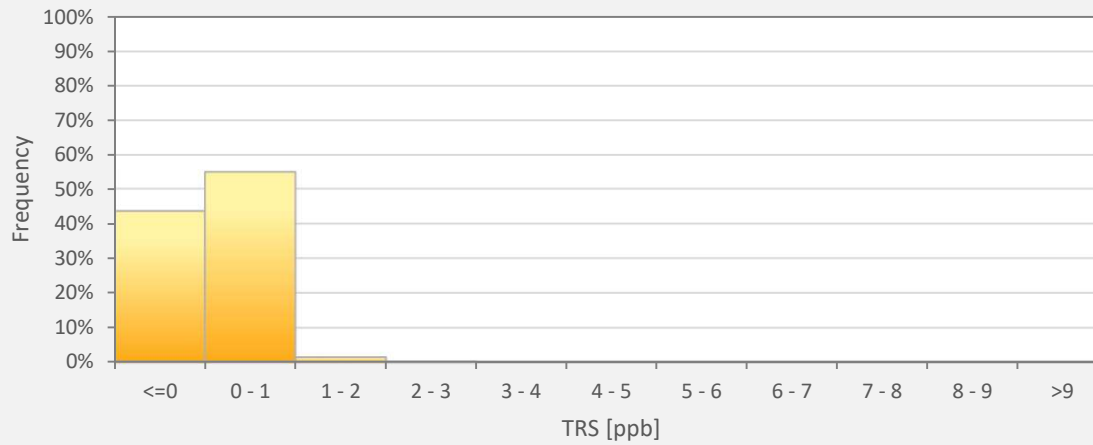
0 10-50

0 >50.0

Timeseries Chart of Hourly Average for TRS - Peace River Complex (PRC) Station



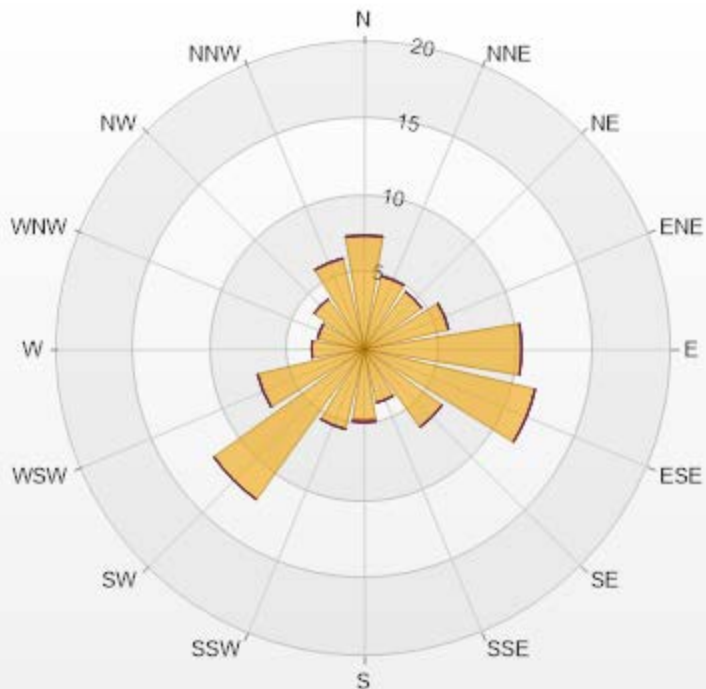
TRS[ppb] Histogram: Peace River Complex [PRC] Monthly: 06-2022 1 Hr.



Classes	TRS
<=0	43.54%
0 - 1	54.83%
1 - 2	1.49%
2 - 3	0.15%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.47% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	7.43	0	0	0	0	7.43
NNE	4.9	0	0	0	0	4.9
NE	4.61	0	0	0	0	4.61
ENE	5.65	0	0	0	0	5.65
E	10.25	0	0	0	0	10.25
ESE	11.44	0	0	0	0	11.44
SE	6.24	0	0	0	0	6.24
SSE	3.57	0	0	0	0	3.57
S	4.61	0.15	0	0	0	4.76
SSW	5.35	0	0	0	0	5.35
SW	12.04	0	0	0	0	12.04
WSW	7.13	0	0	0	0	7.13
W	3.42	0	0	0	0	3.42
WNW	3.12	0	0	0	0	3.12
NW	4.01	0	0	0	0	4.01
NNW	6.09	0	0	0	0	6.09
Summary	100	0.15	0	0	0	100



PRAMP-202206

Page 176 of 276

% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

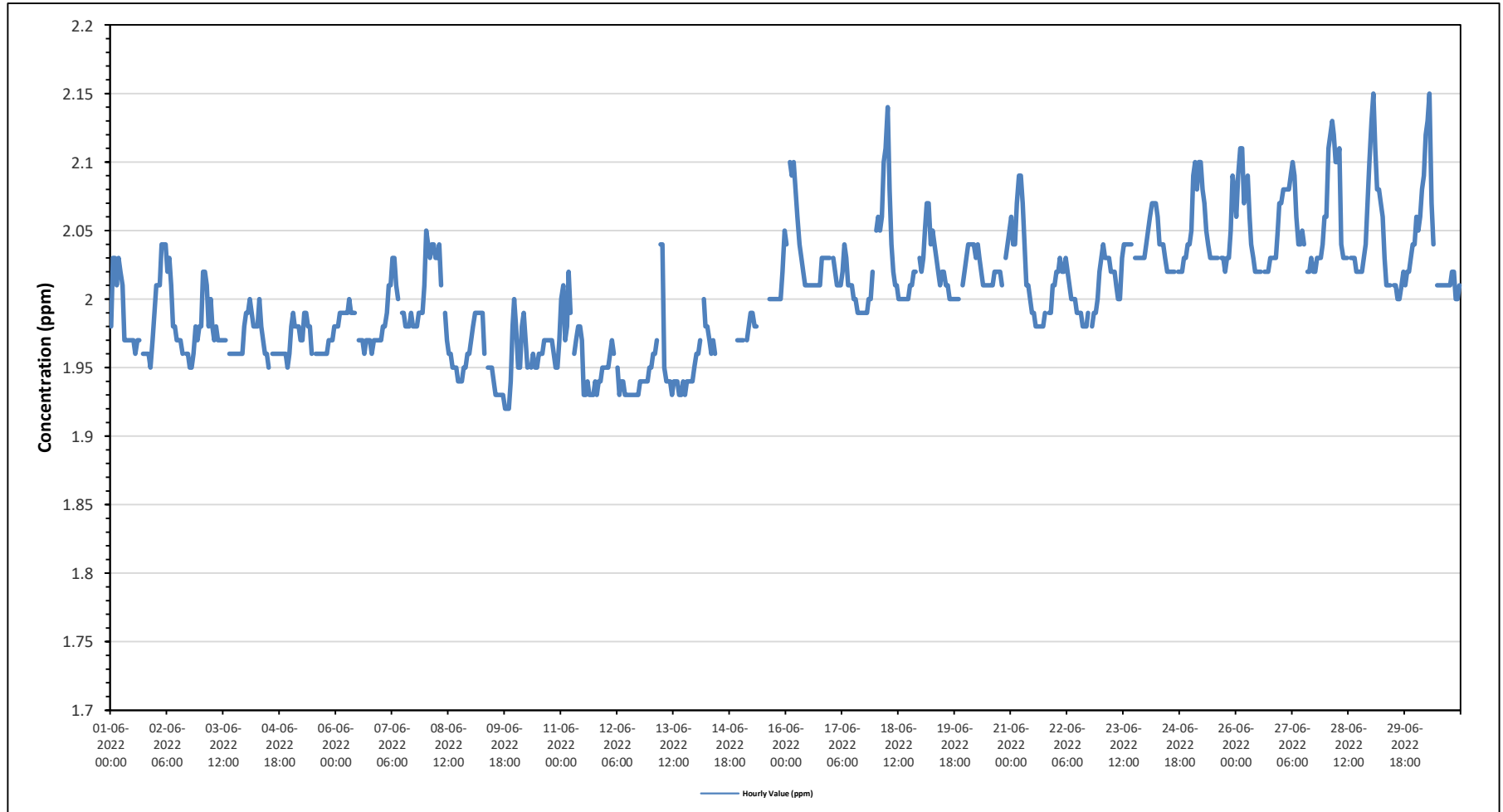
Maximum Hourly Value:	2.15 ppm on June 29 at hour 1	Hours in Service:	720
Maximum Daily Value:	2.06 ppm on June 28	Hours of Data:	672
Minimum Hourly Value:	1.92 ppm on June 9 at hour 18	Hours of Missing Data:	12
Minimum Daily Value:	1.94 ppm on June 12	Hours of Calibration:	36
Monthly Average:	2.00 ppm	Operational Uptime:	98.3

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	1.98	2.03	2.03	2.01	2.03	2.02	2.01	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.97	1.97	S	1.96	1.96	1.96	1.96	1.95	1.97	1.99	1.95	2.03	1.98	
Jun 2	2.01	2.01	2.01	2.04	2.04	2.04	2.02	2.03	2.01	1.98	1.98	1.97	1.97	1.97	1.97	1.96	S	1.96	1.96	1.95	1.95	1.96	1.98	1.97	1.98	1.95	2.04	1.99
Jun 3	1.98	2.02	2.02	2.01	1.98	2.00	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	S	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.98	1.96	2.02	1.98
Jun 4	1.99	1.99	2.00	1.99	1.98	1.98	1.98	2.00	1.98	1.97	1.96	1.96	1.95	S	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.95	2.00	1.97	
Jun 5	1.98	1.99	1.98	1.98	1.98	1.97	1.97	1.99	1.99	1.98	1.98	1.98	1.96	S	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.96	1.99	1.97
Jun 6	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.99	S	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	2.00	1.98
Jun 7	1.97	1.98	1.98	1.99	2.01	2.01	2.03	2.03	2.01	2.00	S	1.99	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.99	1.99	1.99	2.01	1.97	2.03	1.99	
Jun 8	2.05	2.04	2.03	2.04	2.04	2.03	2.03	2.04	2.01	S	1.99	1.97	1.96	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.96	1.94	2.05	1.99
Jun 9	1.97	1.98	1.99	1.99	1.99	1.99	1.99	1.96	S	1.95	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.94	1.98	2.00	1.92	2.00	1.96	
Jun 10	1.98	1.95	1.95	1.98	1.99	1.97	1.95	S	1.95	1.96	1.95	1.95	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.96	1.95	1.95	1.97	1.95	1.99	1.96	1.96	
Jun 11	2.00	2.01	1.97	1.98	2.02	1.99	S	1.96	1.97	1.98	1.98	1.97	1.93	1.93	1.94	1.93	1.93	1.93	1.94	1.93	1.94	1.94	1.95	1.95	1.93	2.02	1.96	
Jun 12	1.95	1.95	1.96	1.97	1.96	S	1.95	1.93	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.93	1.97	1.94
Jun 13	1.95	1.96	1.96	1.97	S	2.04	2.04	1.95	1.94	1.94	1.94	1.93	1.94	1.94	1.93	1.93	1.93	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.95	1.93	2.04	1.95
Jun 14	1.96	1.96	1.97	S	2.00	1.98	1.98	1.97	1.96	1.97	1.96	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	1.97	1.97	1.96	2.00	-
Jun 15	1.97	1.97	S	1.97	1.98	1.99	1.99	1.98	1.98	C	C	NRM	C	C	C	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.05	1.97	2.05	-
Jun 16	2.04	S	2.10	2.09	2.10	2.08	2.06	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.03	2.03	2.03	2.01	2.10	2.03
Jun 17	S	2.03	2.02	2.01	2.01	2.01	2.02	2.04	2.03	2.01	2.01	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.02	S	1.99	2.04	2.01
Jun 18	2.05	2.06	2.05	2.06	2.10	2.11	2.14	2.08	2.04	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	S	2.03	2.00	2.14	2.04	
Jun 19	2.02	2.03	2.05	2.07	2.07	2.04	2.05	2.04	2.03	2.02	2.01	2.02	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.01	2.02	2.07	2.02
Jun 20	2.03	2.04	2.04	2.04	2.04	2.03	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.01	S	2.03	2.04	2.05	2.01	2.05	2.03
Jun 21	2.06	2.04	2.04	2.07	2.09	2.09	2.07	2.04	2.01	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	S	1.99	1.99	2.01	2.01	1.98	2.09	2.02	
Jun 22	2.02	2.02	2.03	2.02	2.02	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	S	1.98	1.99	1.99	2.00	2.02	1.98	2.03	2.00	
Jun 23	2.03	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.01	2.00	2.00	2.03	2.04	2.04	2.04	2.04	2.04	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.00	2.04	2.03
Jun 24	2.04	2.05	2.06	2.07	2.07	2.07	2.06	2.04	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.04	2.02	2.07	2.04
Jun 25	2.05	2.09	2.10	2.08	2.10	2.10	2.08	2.07	2.05	2.04	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.02	2.03	2.03	2.03	2.05	2.09	2.08	2.02	2.10	2.06
Jun 26	2.06	2.09	2.11	2.11	2.07	2.08	2.09	2.06	2.04	2.03	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.05	2.07	2.02	2.11	2.05	
Jun 27	2.07	2.08	2.08	2.08	2.08	2.09	2.10	2.09	2.06	2.04	2.04	2.05	2.04	S	2.02	2.02	2.03	2.02	2.02	2.03	2.03	2.03	2.04	2.06	2.02	2.10	2.05	
Jun 28	2.06	2.11	2.12	2.13	2.12	2.10	2.10	2.11	2.04	2.03	2.03	2.03	S	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.04	2.07	2.10	2.02	2.13	2.06	
Jun 29	2.13	2.15	2.11	2.08	2.08	2.07	2.06	2.03	2.01	2.01	2.01	S	2.01	2.01	2.00	2.00	2.01	2.02	2.01	2.02	2.02	2.03	2.04	2.04	2.00	2.15	2.04	
Jun 30	2.06	2.05	2.06	2.08	2.09	2.12	2.13	2.15	2.07	2.04	S	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.00	2.01	2.00	2.00	2.01	2.04
Diurnal Maximum	2.13	2.15	2.12	2.13	2.12	2.12	2.14	2.15	2.07	2.04	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.05	2.09	2.10				
Diurnal Average	2.02	2.02	2.03	2.04	2.04	2.03	2.02	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.01				

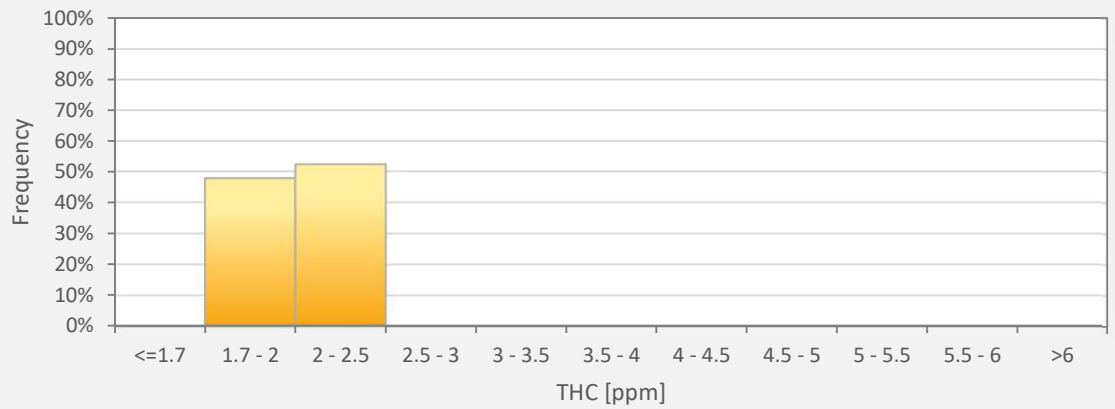
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for THC - Peace River Complex (PRC) Station



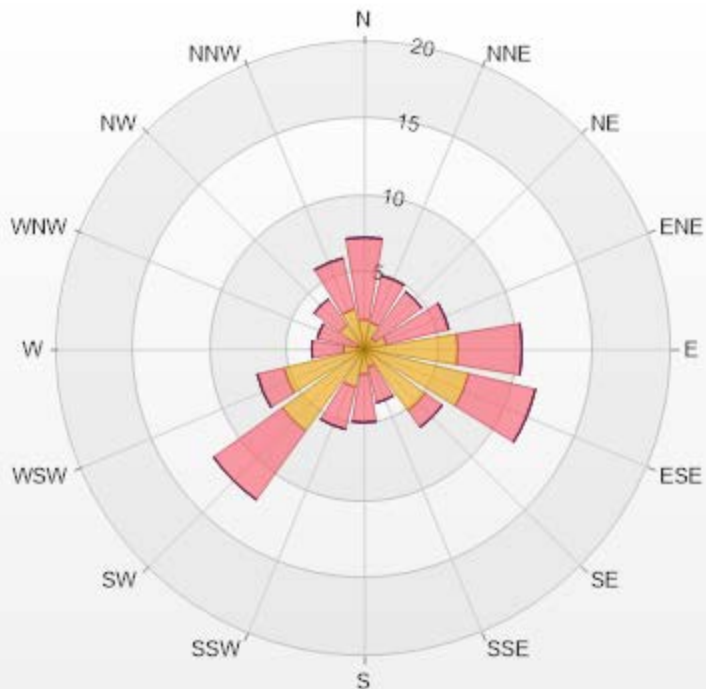
THC55[ppm] Histogram: Peace River Complex [PRC] Monthly: 06-2022 1 Hr.



Classes	THC55
<=1.7	0.00%
1.7 - 2	47.77%
2 - 2.5	52.23%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.33% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.93	5.36	0	0	0	7.29
NNE	1.79	3.13	0	0	0	4.92
NE	0.89	3.72	0	0	0	4.61
ENE	1.49	4.17	0	0	0	5.66
E	6.1	4.17	0	0	0	10.27
ESE	6.99	4.46	0	0	0	11.45
SE	4.91	1.34	0	0	0	6.25
SSE	1.19	2.38	0	0	0	3.57
S	1.64	3.13	0	0	0	4.77
SSW	2.53	2.83	0	0	0	5.36
SW	6.55	5.51	0	0	0	12.06
WSW	5.36	1.79	0	0	0	7.15
W	1.34	2.08	0	0	0	3.42
WNW	0.45	2.68	0	0	0	3.13
NW	1.93	2.08	0	0	0	4.01
NNW	2.68	3.42	0	0	0	6.1
Summary	47.77	52.25	0	0	0	100



PRAMP-202206

Page 181 of 276

% Icon Classes (ppm)

48 0-2

52 2-5

0 5-10

0 10-40

0 >40.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

Maximum Hourly Value:	2.15 ppm on June 29 at hour 1	Hours in Service:	720
Maximum Daily Value:	2.06 ppm on June 28	Hours of Data:	672
Minimum Hourly Value:	1.92 ppm on June 9 at hour 18	Hours of Missing Data:	12
Minimum Daily Value:	1.94 ppm on June 12	Hours of Calibration:	36
Monthly Average:	2.00 ppm	Operational Uptime:	98.3

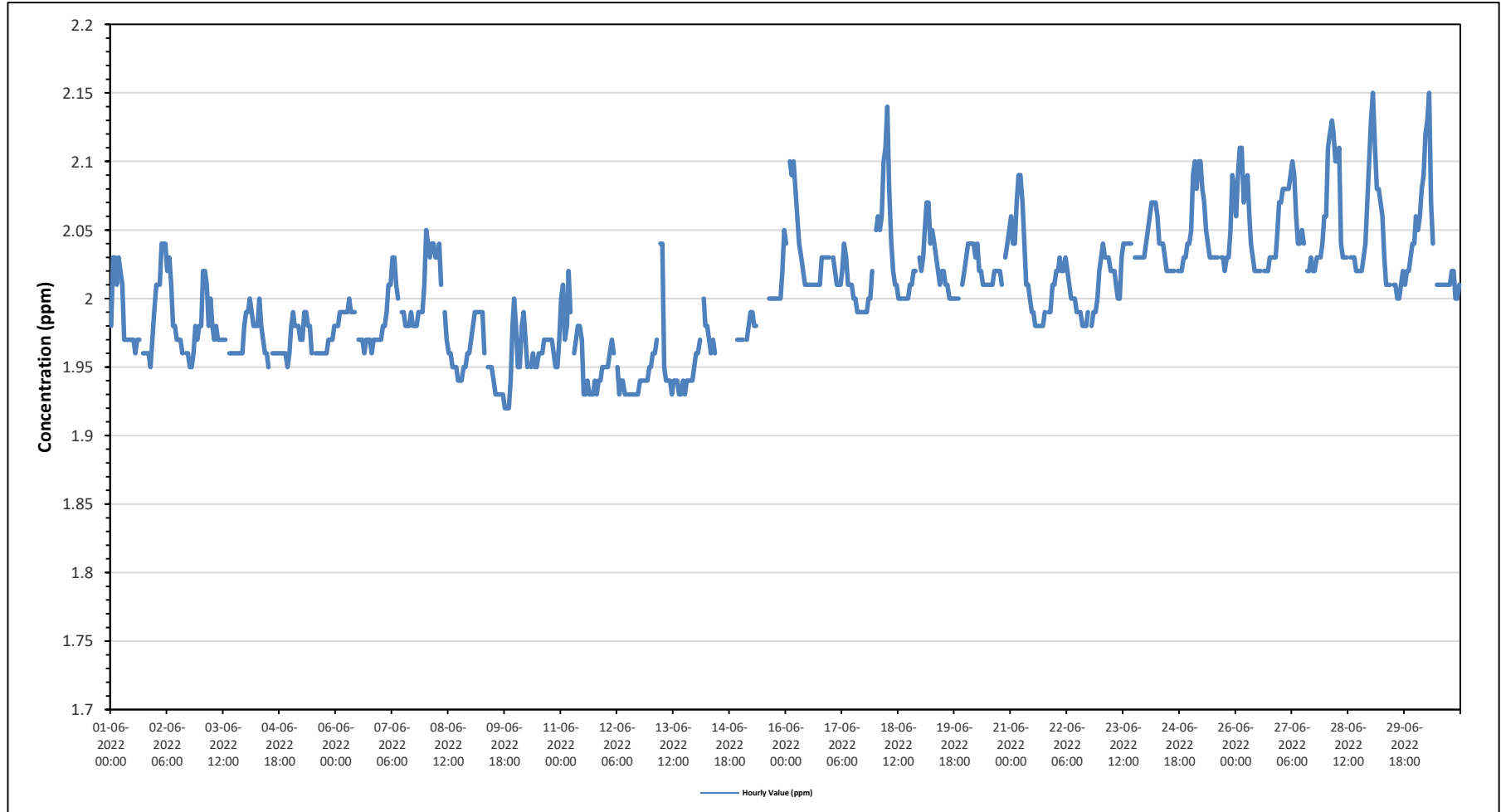
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Jun 1	1.98	2.03	2.03	2.01	2.03	2.02	2.01	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.97	1.97	S	1.96	1.96	1.96	1.96	1.95	1.97	1.99	1.95	2.03	1.98		
Jun 2	2.01	2.01	2.01	2.04	2.04	2.04	2.02	2.03	2.01	1.98	1.98	1.97	1.97	1.97	1.97	1.96	S	1.96	1.96	1.95	1.95	1.96	1.98	1.97	1.98	1.95	2.04	1.99	
Jun 3	1.98	2.02	2.02	2.01	1.98	2.00	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	S	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	2.02	1.98	
Jun 4	1.99	1.99	2.00	1.99	1.98	1.98	1.98	2.00	1.98	1.97	1.96	1.96	1.95	S	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.95	2.00	1.97		
Jun 5	1.98	1.99	1.98	1.98	1.98	1.97	1.97	1.99	1.99	1.98	1.98	1.96	S	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.98	1.96	1.99	1.97	
Jun 6	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.99	S	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.96	2.00	1.98	
Jun 7	1.97	1.98	1.98	1.99	2.01	2.01	2.03	2.03	2.01	2.00	S	1.99	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.99	1.99	1.99	2.01	1.97	2.03	1.99		
Jun 8	2.05	2.04	2.03	2.04	2.04	2.03	2.03	2.04	2.01	S	1.99	1.97	1.96	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.96	1.94	2.05	1.99	
Jun 9	1.97	1.98	1.99	1.99	1.99	1.99	1.99	1.96	S	1.95	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.94	1.98	2.00	1.92	2.00	1.96		
Jun 10	1.98	1.95	1.95	1.98	1.99	1.97	1.95	S	1.95	1.96	1.95	1.95	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.96	1.95	1.95	1.97	1.95	1.99	1.96		
Jun 11	2.00	2.01	1.97	1.98	2.02	1.99	S	1.96	1.97	1.98	1.98	1.97	1.93	1.93	1.94	1.93	1.93	1.93	1.94	1.93	1.94	1.94	1.94	1.95	1.95	1.93	2.02	1.96	
Jun 12	1.95	1.95	1.96	1.97	1.96	S	1.95	1.93	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.93	1.97	1.94
Jun 13	1.95	1.96	1.96	1.97	S	2.04	2.04	1.95	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.93	2.04	1.95
Jun 14	1.96	1.96	1.97	S	2.00	1.98	1.98	1.97	1.96	1.97	1.96	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	1.97	1.97	1.96	2.00	-	
Jun 15	1.97	1.97	S	1.97	1.98	1.99	1.99	1.98	1.98	C	C	NRM	C	C	C	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.05	1.97	2.05	-	
Jun 16	2.04	S	2.10	2.09	2.10	2.08	2.06	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.10	2.03	
Jun 17	S	2.03	2.02	2.01	2.01	2.01	2.02	2.04	2.03	2.01	2.01	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.02	S	1.99	2.04	2.01		
Jun 18	2.05	2.06	2.05	2.06	2.10	2.11	2.14	2.08	2.04	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	S	2.03	2.00	2.14	2.04		
Jun 19	2.02	2.03	2.05	2.07	2.07	2.04	2.05	2.04	2.03	2.02	2.01	2.02	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.01	2.02	2.07	2.02	
Jun 20	2.03	2.04	2.04	2.04	2.04	2.03	2.04	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.01	S	2.03	2.04	2.05	2.01	2.05	2.02	
Jun 21	2.06	2.04	2.04	2.07	2.09	2.09	2.07	2.04	2.01	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	S	1.99	1.99	2.01	2.01	1.98	2.09	2.02		
Jun 22	2.02	2.02	2.03	2.02	2.02	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	S	1.98	1.99	1.99	2.00	2.02	1.98	2.03	2.00		
Jun 23	2.03	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.01	2.00	2.00	2.03	2.04	2.04	2.04	2.04	2.04	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.00	2.04	2.03	
Jun 24	2.04	2.05	2.06	2.07	2.07	2.07	2.06	2.04	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.04	2.04	2.02	2.07	2.04
Jun 25	2.05	2.09	2.10	2.08	2.10	2.10	2.08	2.07	2.05	2.04	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.02	2.03	2.03	2.03	2.05	2.09	2.08	2.02	2.10	2.06	
Jun 26	2.06	2.09	2.11	2.11	2.07	2.08	2.09	2.06	2.04	2.03	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.05	2.07	2.02	2.11	2.05		
Jun 27	2.07	2.08	2.08	2.08	2.08	2.09	2.10	2.09	2.06	2.04	2.04	2.05	2.04	S	2.02	2.02	2.03	2.02	2.02	2.03	2.03	2.03	2.04	2.06	2.02	2.10	2.05		
Jun 28	2.06	2.11	2.12	2.13	2.12	2.10	2.10	2.11	2.04	2.03	2.03	2.03	S	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.04	2.07	2.10	2.02	2.13	2.06		
Jun 29	2.13	2.15	2.11	2.08	2.08	2.07	2.06	2.03	2.01	2.01	2.01	S	2.01	2.01	2.00	2.00	2.01	2.02	2.01	2.02	2.02	2.03	2.04	2.04	2.00	2.15	2.04		
Jun 30	2.06	2.05	2.06	2.08	2.09	2.12	2.13	2.15	2.07	2.04	S	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.00	2.01	2.00	2.00	2.01	2.04	
Diurnal Maximum	2.13	2.15	2.12	2.13	2.12	2.12	2.14	2.15	2.07	2.04	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.05	2.09	2.10					
Diurnal Average	2.02	2.02	2.03	2.03	2.04	2.04	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	2.00	2.01					

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

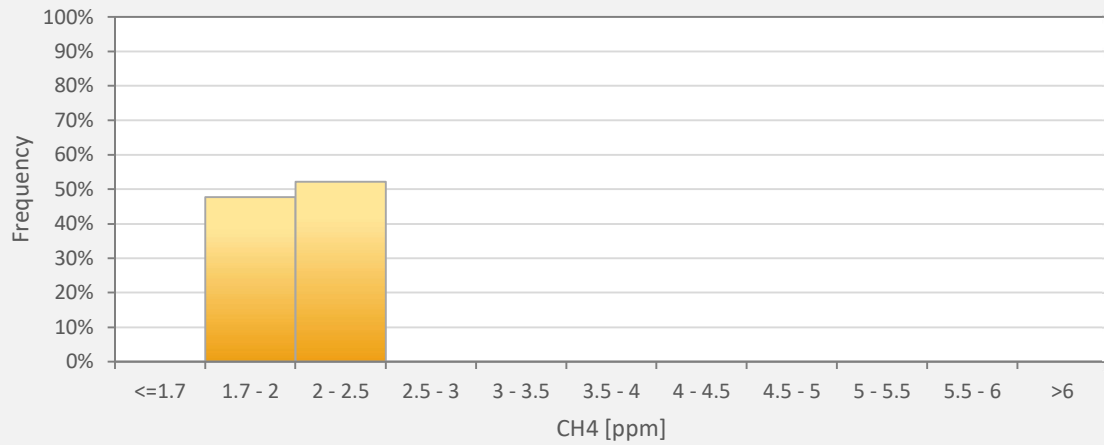
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for CH4 - Peace River Complex (PRC) Station



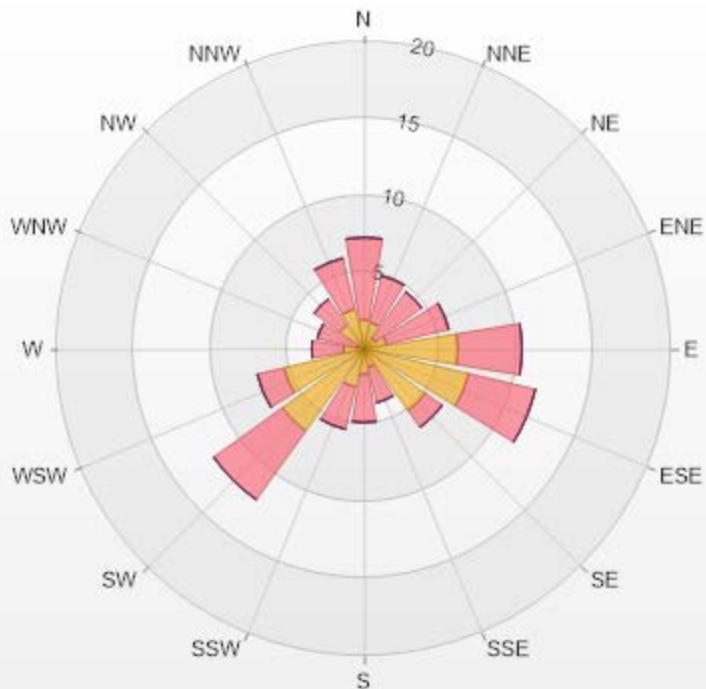
CH4[ppm] Histogram: Peace River Complex [PRC] Monthly: 06-2022 1 Hr.



Classes	CH4
<=1.7	0.00%
1.7 - 2	47.77%
2 - 2.5	52.23%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.33% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.93	5.36	0	0	0	7.29
NNE	1.79	3.13	0	0	0	4.92
NE	0.89	3.72	0	0	0	4.61
ENE	1.49	4.17	0	0	0	5.66
E	6.1	4.17	0	0	0	10.27
ESE	6.99	4.46	0	0	0	11.45
SE	4.91	1.34	0	0	0	6.25
SSE	1.19	2.38	0	0	0	3.57
S	1.64	3.13	0	0	0	4.77
SSW	2.53	2.83	0	0	0	5.36
SW	6.55	5.51	0	0	0	12.06
WSW	5.36	1.79	0	0	0	7.15
W	1.34	2.08	0	0	0	3.42
WNW	0.45	2.68	0	0	0	3.13
NW	1.93	2.08	0	0	0	4.01
NNW	2.68	3.42	0	0	0	6.1
Summary	47.77	52.25	0	0	0	100

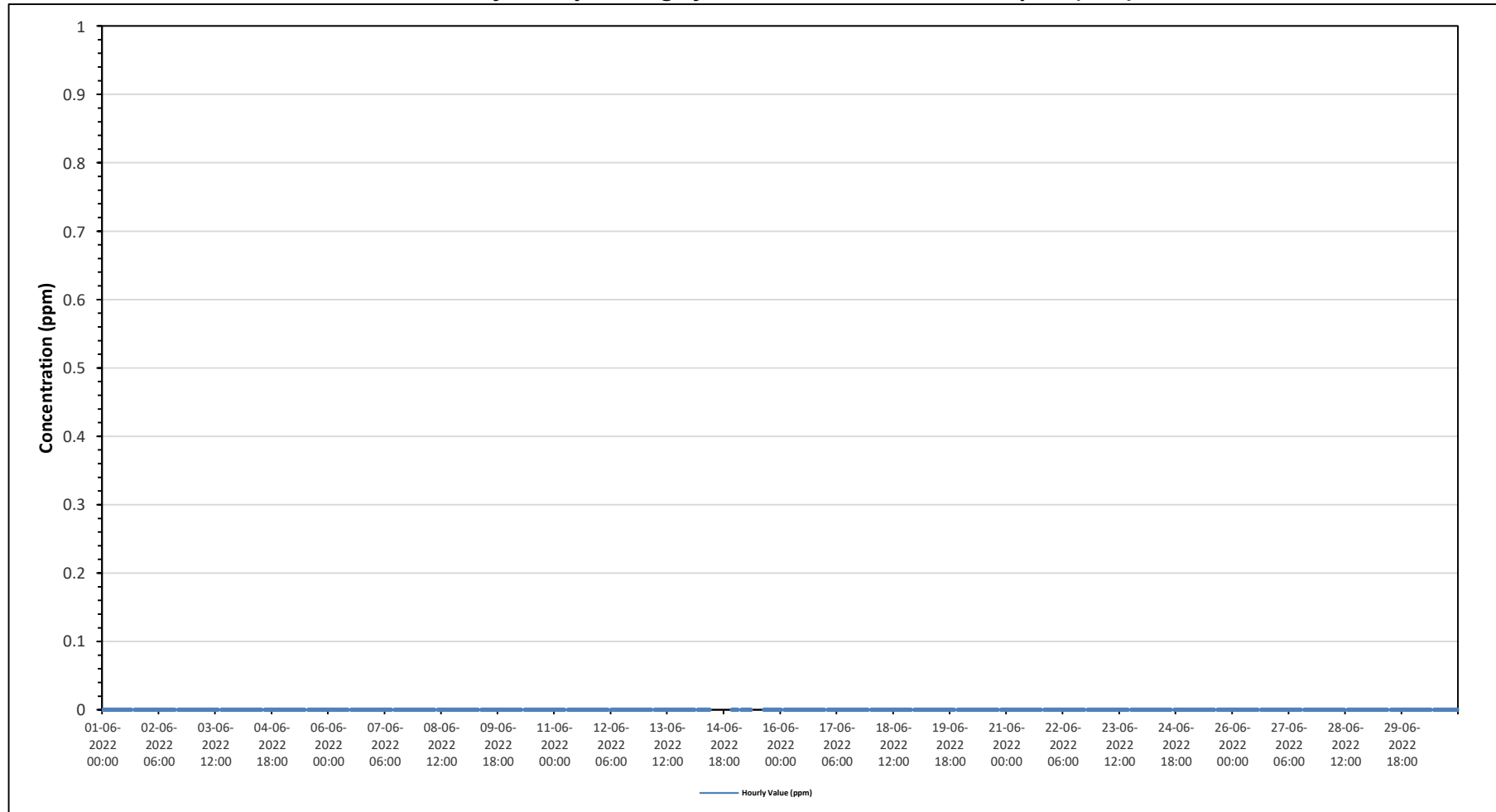


PRAMP-202206

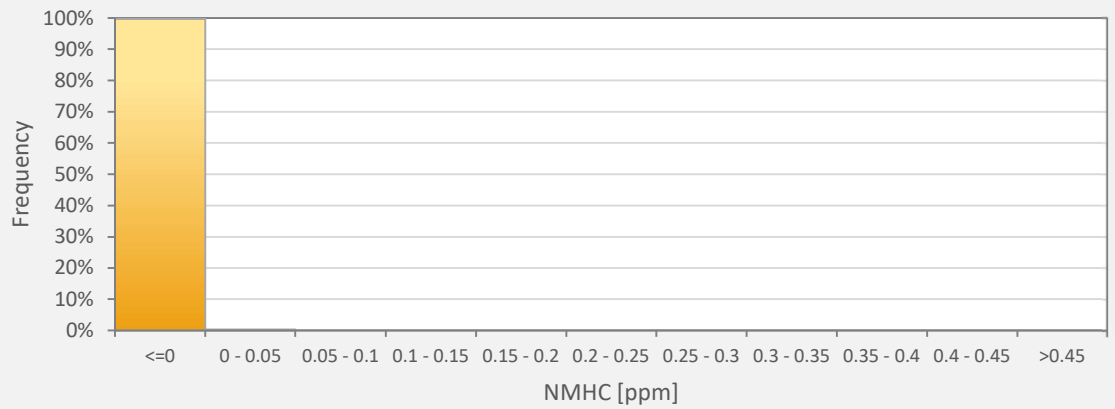
Page 186 of 276

% Icon Classes (ppm)	48	0-2	52	2-5	0	5-10	0	10-20	0	>20.0
----------------------	----	-----	----	-----	---	------	---	-------	---	-------

Timeseries Chart of Hourly Average for NMHC - Peace River Complex (PRC) Station



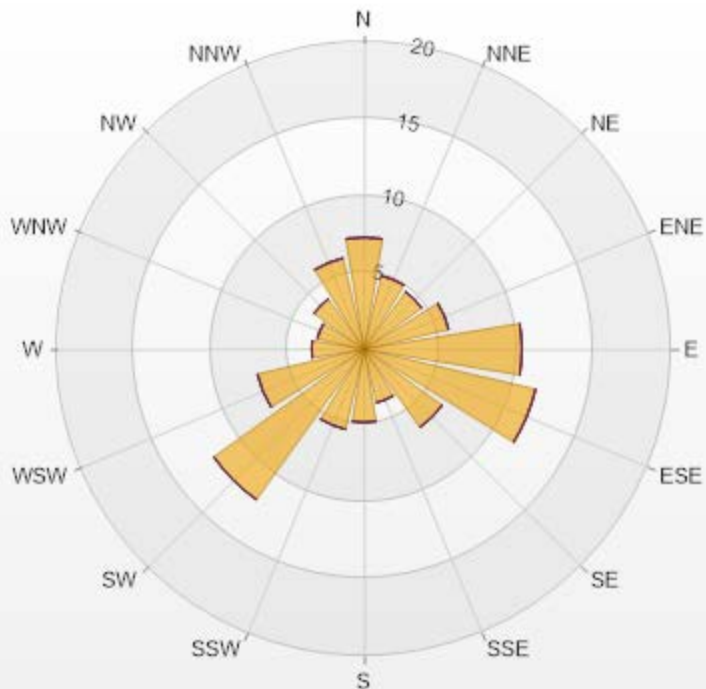
NMHC[ppm] Histogram: Peace River Complex [PRC] Monthly: 06-2022 1 Hr.



Classes	NMHC
<=0	99.70%
0 - 0.05	0.30%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.33% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	7.29	0	0	0	0	7.29
NNE	4.91	0	0	0	0	4.91
NE	4.61	0	0	0	0	4.61
ENE	5.65	0	0	0	0	5.65
E	10.27	0	0	0	0	10.27
ESE	11.46	0	0	0	0	11.46
SE	6.25	0	0	0	0	6.25
SSE	3.57	0	0	0	0	3.57
S	4.76	0	0	0	0	4.76
SSW	5.36	0	0	0	0	5.36
SW	12.05	0	0	0	0	12.05
WSW	7.14	0	0	0	0	7.14
W	3.42	0	0	0	0	3.42
WNW	3.13	0	0	0	0	3.13
NW	4.02	0	0	0	0	4.02
NNW	6.1	0	0	0	0	6.1
Summary	100	0	0	0	0	100



PRAMP-202206

Page 191 of 276

% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-1

0 1-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

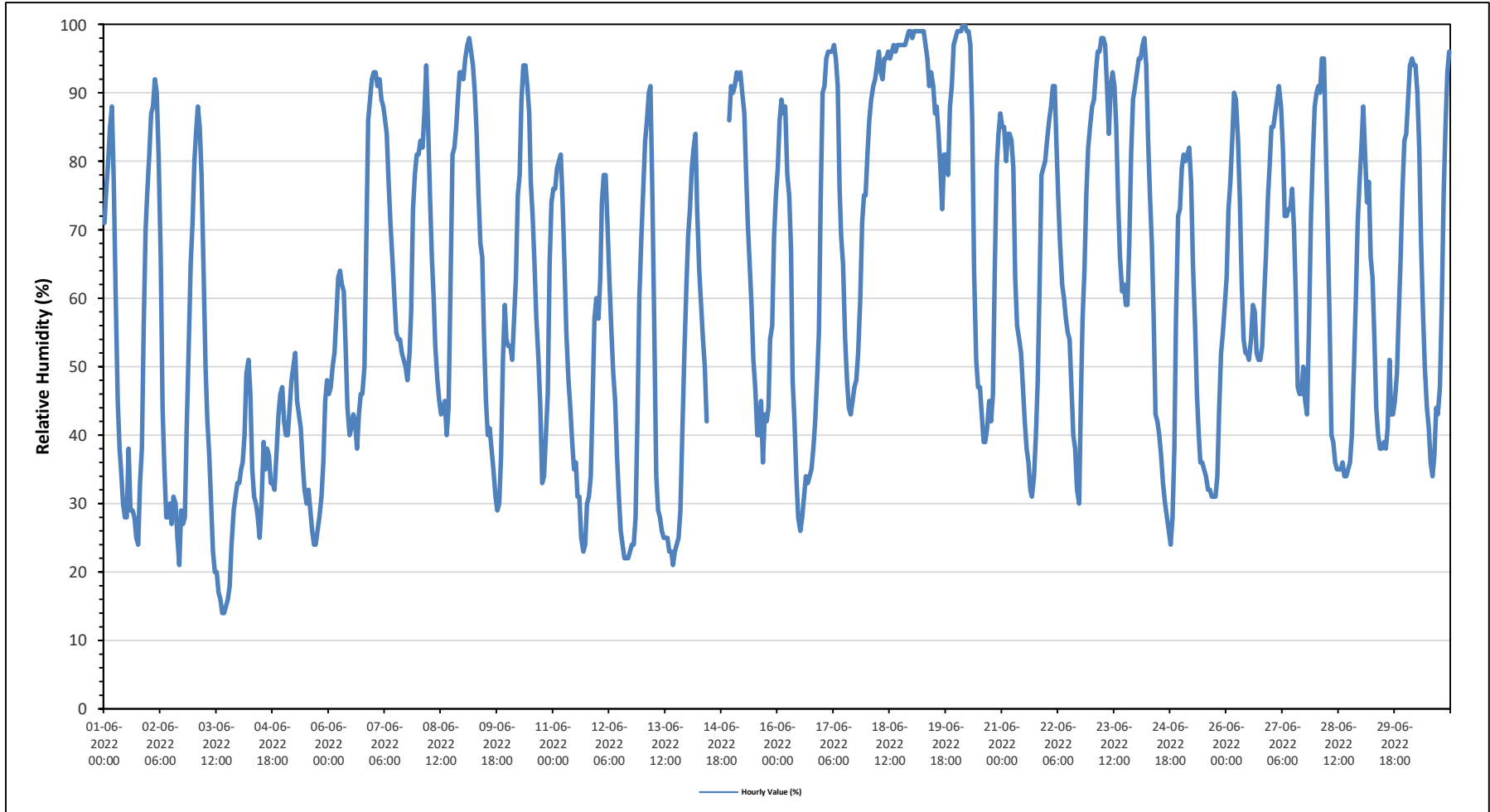
Maximum Hourly Value:	100 %	on June 20 at hour 3	Hours in Service:	720
Maximum Daily Value:	94.4 %	on June 18	Hours of Data:	709
Minimum Hourly Value:	14 %	on June 3 at hour 15	Hours of Missing Data:	11
Minimum Daily Value:	37.0 %	on June 4	Hours of Calibration:	0
Monthly Average:	60.7 %		Operational Uptime:	98.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	71	76	80	85	88	77	61	45	38	34	30	28	28	38	29	29	28	25	24	33	38	56	70	76	24	88	49.5	
Jun 2	81	87	88	92	90	81	66	44	35	28	28	30	27	31	30	25	21	29	27	28	41	52	65	71	21	92	49.9	
Jun 3	80	84	88	85	78	65	50	42	37	30	23	20	20	17	16	14	14	15	16	18	24	29	31	33	14	88	38.7	
Jun 4	33	35	36	40	49	51	46	35	31	30	28	25	30	39	35	38	37	33	33	32	37	43	46	47	25	51	37.0	
Jun 5	42	40	40	44	48	50	52	45	43	41	36	32	30	32	29	26	24	24	26	28	31	36	45	48	24	52	37.2	
Jun 6	46	47	50	52	58	63	64	62	61	53	44	40	41	43	42	38	43	46	46	50	68	86	89	92	38	92	55.2	
Jun 7	93	93	91	92	89	88	86	84	77	71	66	60	55	54	54	52	51	50	48	52	58	73	78	81	48	93	70.7	
Jun 8	81	83	82	87	94	85	75	66	60	53	48	45	43	44	45	40	44	61	81	82	85	89	93	93	40	94	69.1	
Jun 9	92	95	97	98	96	94	90	84	75	68	66	54	45	40	41	38	35	31	29	30	37	51	59	54	29	98	62.5	
Jun 10	53	53	51	57	63	75	78	89	94	94	91	87	77	72	65	57	51	44	33	34	40	46	65	74	33	94	64.3	
Jun 11	76	76	79	80	81	74	65	55	48	44	39	35	36	31	31	25	23	24	30	31	34	45	57	60	23	81	49.1	
Jun 12	57	63	74	78	78	71	63	55	49	45	37	31	26	24	22	22	22	23	24	24	28	42	60	69	22	78	45.3	
Jun 13	76	83	86	90	91	76	57	34	29	28	26	25	25	25	23	23	21	23	24	25	29	40	52	61	21	91	44.7	
Jun 14	69	73	79	82	84	73	64	59	54	50	42	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	86	91	42	91	-
Jun 15	90	91	93	92	93	90	87	79	71	65	59	51	47	40	40	45	36	43	42	44	54	56	69	75	36	93	64.7	
Jun 16	79	86	89	87	88	78	75	67	48	42	34	28	26	28	31	34	33	34	35	38	42	48	55	75	26	89	53.3	
Jun 17	90	91	95	96	96	96	97	95	91	76	69	65	54	48	44	43	45	47	48	52	60	71	75	75	43	97	71.6	
Jun 18	81	86	89	91	92	94	96	93	92	95	95	96	95	96	97	96	97	97	97	97	97	98	99	99	81	99	94.4	
Jun 19	98	99	99	99	99	99	99	97	95	91	93	91	87	88	84	79	73	81	81	78	88	91	97	98	73	99	91.0	
Jun 20	99	99	99	100	100	99	99	97	86	64	51	47	47	43	39	39	41	45	42	46	64	79	84	87	39	100	70.7	
Jun 21	85	85	80	84	84	83	79	63	56	54	52	47	42	38	36	32	31	34	40	48	62	78	79	80	31	85	60.5	
Jun 22	83	86	88	91	91	83	75	68	62	60	57	55	54	47	40	38	32	30	44	57	64	75	82	85	30	91	64.5	
Jun 23	88	89	93	96	96	98	98	97	91	84	91	93	91	85	74	66	61	62	59	59	68	81	89	91	59	98	83.3	
Jun 24	93	95	95	97	98	94	83	75	68	57	43	42	40	37	33	30	28	26	24	28	38	57	72	73	24	98	59.4	
Jun 25	79	81	80	81	82	77	65	56	46	40	36	36	35	34	32	32	31	31	31	34	44	52	55	59	31	82	51.2	
Jun 26	63	73	77	83	90	89	83	74	62	54	52	52	51	54	59	58	52	51	51	53	60	66	75	80	51	90	65.1	
Jun 27	85	85	87	89	91	88	82	72	72	73	73	76	70	60	47	46	46	50	45	43	55	72	81	88	43	91	69.8	
Jun 28	90	91	90	95	95	82	70	57	40	39	36	35	35	35	36	34	34	35	36	40	50	60	71	77	34	95	56.8	
Jun 29	82	88	81	74	77	66	63	54	44	40	38	38	39	38	41	51	43	43	45	49	58	66	76	83	38	88	57.4	
Jun 30	84	89	94	95	94	94	90	82	68	58	50	44	41	36	34	37	44	43	47	59	75	85	93	96	34	96	68.0	
Diurnal Maximum	99	99	99	100	100	99	99	97	95	95	95	96	95	96	97	96	97	97	97	97	97	98	99	99				
Diurnal Average	77.3	80.1	81.7	83.7	85.1	81.1	75.3	67.5	60.8	55.4	51.1	48.6	46.1	44.7	42.4	40.9	39.3	40.7	41.7	44.6	52.7	62.9	71.6	75.7				

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for RH - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

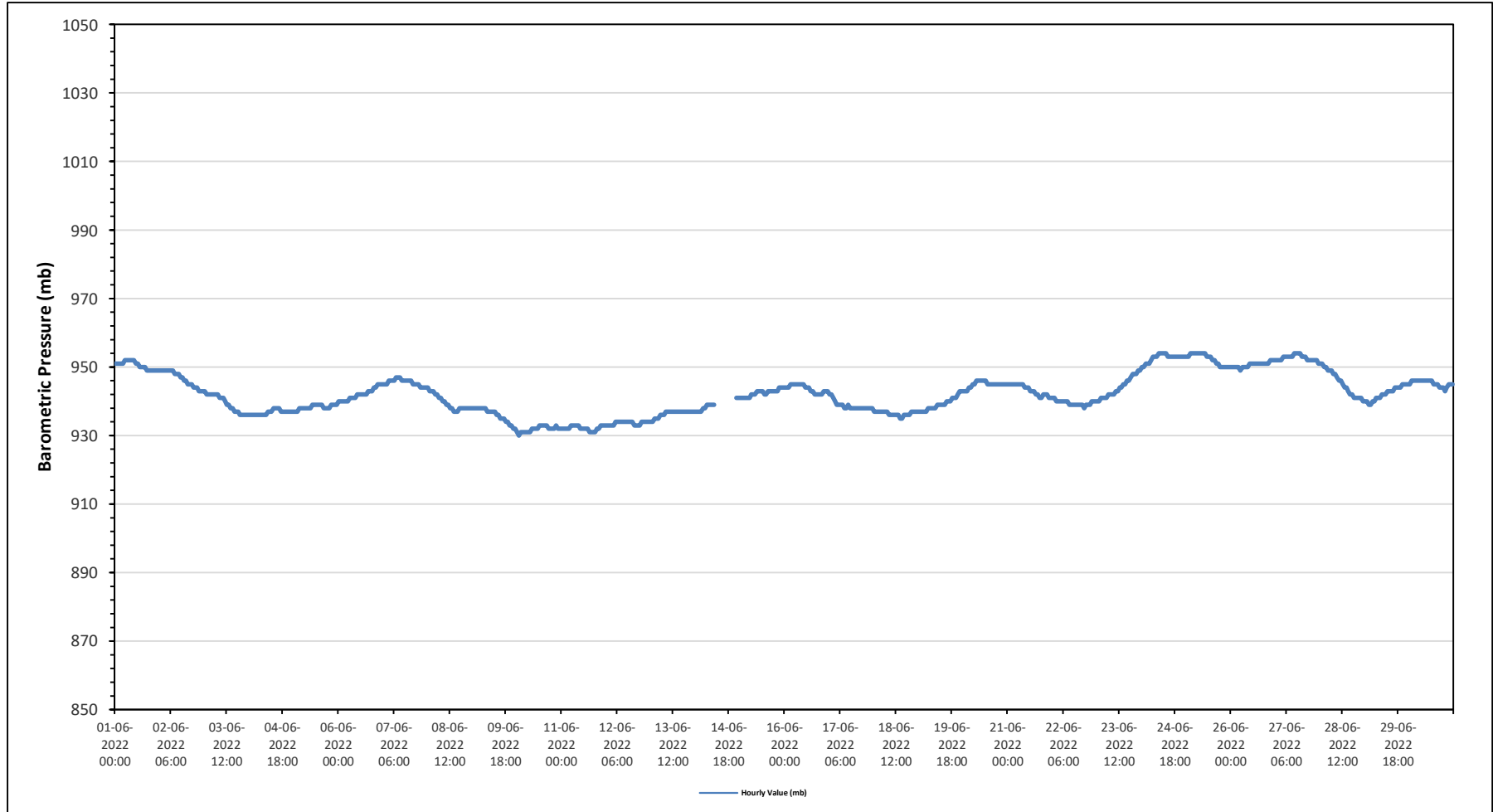
Maximum Hourly Value:	954	mb	on June 24 at hour 9	Hours in Service:	720
Maximum Daily Value:	953	mb	on June 24	Hours of Data:	709
Minimum Hourly Value:	930	mb	on June 10 at hour 1	Hours of Missing Data:	11
Minimum Daily Value:	932	mb	on June 10	Hours of Calibration:	0
Monthly Average:	942	mb		Operational Uptime:	98.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23			
Jun 1	951	951	951	951	951	952	952	952	952	952	952	951	951	950	950	950	950	949	949	949	949	949	949	949	949	949	952	951	951	
Jun 2	949	949	949	949	949	949	949	949	948	948	948	947	947	946	946	945	945	945	944	944	944	943	943	943	943	943	943	943	947	
Jun 3	943	942	942	942	942	942	942	942	941	941	941	940	939	939	938	938	937	937	937	936	936	936	936	936	936	936	936	939	939	
Jun 4	936	936	936	936	936	936	936	936	936	936	937	937	937	938	938	938	938	937	937	937	937	937	937	937	937	937	937	937	937	
Jun 5	937	937	937	938	938	938	938	938	938	938	939	939	939	939	939	939	938	938	938	938	939	939	939	939	939	939	939	939	938	
Jun 6	940	940	940	940	940	940	941	941	941	941	942	942	942	942	942	942	943	943	943	944	944	945	945	945	945	945	945	945	942	
Jun 7	945	945	945	946	946	946	946	947	947	947	946	946	946	946	946	945	945	945	945	944	944	944	944	944	944	944	944	947	946	
Jun 8	944	943	943	943	942	942	941	941	940	940	939	939	938	938	937	937	937	938	938	938	938	938	938	938	938	938	938	938	940	940
Jun 9	938	938	938	938	938	938	938	938	937	937	937	937	937	936	936	935	935	935	934	934	933	933	932	932	932	932	932	932	936	936
Jun 10	931	930	931	931	931	931	931	931	932	932	932	932	933	933	933	933	932	932	932	932	932	933	932	932	932	932	932	932	932	932
Jun 11	932	932	932	932	932	933	933	933	933	933	932	932	932	932	932	931	931	931	931	932	932	933	933	933	933	933	933	933	933	932
Jun 12	933	933	933	933	933	934	934	934	934	934	934	934	934	934	934	933	933	933	933	934	934	934	934	934	934	934	934	934	934	934
Jun 13	934	934	935	935	935	935	936	936	936	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	936
Jun 14	937	937	937	937	938	938	939	939	939	939	939	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	937
Jun 15	941	941	941	941	941	941	942	942	942	943	943	943	943	942	942	943	943	942	942	942	942	943	944	944	944	944	944	944	944	942
Jun 16	944	944	944	945	945	945	945	945	945	945	945	945	944	944	944	943	943	942	942	942	942	943	943	943	943	943	943	943	943	943
Jun 17	942	942	941	940	939	939	939	939	938	938	939	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	939
Jun 18	937	937	937	937	937	937	937	937	936	936	936	936	936	936	935	935	936	936	936	936	936	937	937	937	937	937	937	937	937	936
Jun 19	937	937	937	937	937	938	938	938	938	938	939	939	939	939	939	940	940	940	941	941	941	942	943	943	943	943	943	943	943	943
Jun 20	943	943	943	944	944	945	945	946	946	946	946	946	946	945	945	945	945	945	945	945	945	945	945	945	945	945	945	945	945	945
Jun 21	945	945	945	945	945	945	945	945	945	944	944	944	943	943	943	942	942	941	941	942	942	942	941	941	941	941	941	941	941	943
Jun 22	941	941	940	940	940	940	940	940	939	939	939	939	939	939	939	939	939	938	939	939	939	940	940	940	940	940	940	940	940	940
Jun 23	940	940	941	941	941	941	942	942	942	942	943	943	944	944	945	945	946	946	947	948	948	948	948	949	949	949	949	949	949	944
Jun 24	950	950	951	951	951	952	953	953	953	954	954	954	954	954	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Jun 25	953	953	954	954	954	954	954	954	954	954	954	954	954	953	953	953	952	952	951	951	950	950	950	950	950	950	950	950	950	950
Jun 26	950	950	950	950	950	949	950	950	950	950	950	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951	951
Jun 27	952	952	952	952	953	953	953	953	953	953	954	954	954	954	953	953	953	952	952	952	952	952	952	952	952	952	952	952	952	952
Jun 28	951	951	950	950	949	949	949	948	948	947	946	946	945	944	944	943	942	942	941	941	941	941	941	941	941	941	941	941	941	941
Jun 29	940	940	939	939	940	940	941	941	941	942	942	942	943	943	943	943	944	944	944	944	944	945	945	945	945	945	945	945	945	945
Jun 30	945	946	946	946	946	946	946	946	946	946	946	946	946	945	945	945	944	944	944	944	943	944	945	945	945	945	945	945	945	945
Diurnal Maximum	953	953	954	954	954	954	954	954	954	954	954	954	954	954	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	
Diurnal Average	942	942	942	942	942	942	943	943	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for BP - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

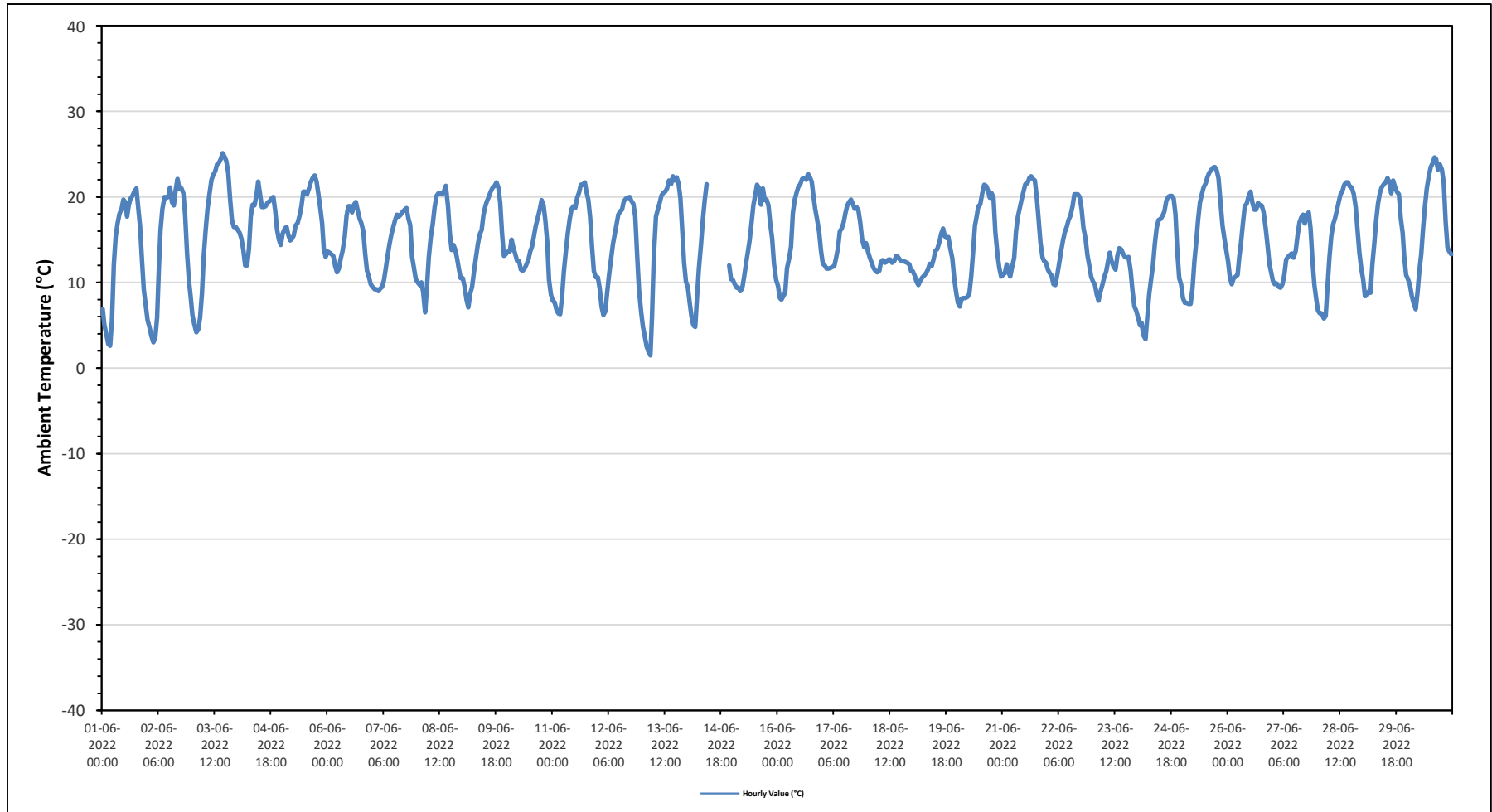
Maximum Hourly Value:	25.1 °C	on June 3 at hour 16	Hours in Service:	720
Maximum Daily Value:	18.1 °C	on June 5	Hours of Data:	709
Minimum Hourly Value:	1.5 °C	on June 13 at hour 4	Hours of Missing Data:	11
Minimum Daily Value:	11.1 °C	on June 23	Hours of Calibration:	0
Monthly Average:	14.9 °C		Operational Uptime:	98.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	6.9	5.1	3.9	2.8	2.6	5.6	12.1	15.4	16.9	18	18.6	19.7	19.4	17.7	19	19.8	20.1	20.6	21	18.7	16.5	12.6	9.1	7.4	2.6	21.0	13.7
Jun 2	5.6	4.8	3.7	3	3.5	5.9	11.9	16.2	18.6	20	19.9	20	21.1	19.4	19	20.8	22.1	20.9	21	20.4	17.7	13.4	10.2	8.2	3.0	22.1	14.5
Jun 3	6.2	5	4.2	4.5	5.9	8.7	13.2	16.1	18.6	20.5	22	22.6	23	23.8	24	24.4	25.1	24.7	24.2	22.8	19.8	17.3	16.5	16.5	4.2	25.1	17.1
Jun 4	16.2	15.8	15.1	13.8	12	12	13.9	17.7	19.1	19	20.3	21.8	20.3	18.8	18.8	18.9	19.3	19.5	19.8	20	18.4	16.2	15	14.4	12.0	21.8	17.3
Jun 5	15.7	16.3	16.5	15.5	14.9	15.1	15.5	16.7	16.9	17.8	18.9	20.6	20.6	20.3	20.9	21.7	22.2	22.5	21.8	20.3	18.7	16.9	14	13	13.0	22.5	18.1
Jun 6	13.6	13.5	13.3	13.1	11.9	11.2	11.6	12.8	13.7	15.3	17.8	18.9	18.9	18.2	19.1	19.4	18.4	17.5	16.9	16	13.4	11.4	10.7	9.8	9.8	19.4	14.9
Jun 7	9.5	9.2	9.2	9	9.3	9.5	10.3	11.7	13.2	14.5	15.6	16.5	17.3	17.9	17.7	17.9	18.3	18.5	18.7	17.5	16.7	13	11.7	10.4	9.0	18.7	13.9
Jun 8	10	9.7	10	8.8	6.5	9.5	13	15.2	16.9	18.8	20.1	20.4	20.5	20.3	20.7	21.3	19	15.8	13.8	14.4	13.9	12.9	11.6	10.5	6.5	21.3	14.7
Jun 9	10.5	9.5	8	7.1	8.7	9.5	11.2	12.8	14.5	15.6	16.1	17.9	18.9	19.5	20	20.6	21.1	21.3	21.7	21.1	19.3	15.7	13.1	13.3	7.1	21.7	15.3
Jun 10	13.6	13.6	15	14	13.3	12.5	12.5	11.5	11.4	11.6	12.1	12.6	13.6	14.2	15.4	16.6	17.6	18.5	19.6	19.1	17.3	14.8	10.3	8.6	8.6	19.6	14.1
Jun 11	7.9	7.7	6.8	6.4	6.3	8.3	11.3	13.8	15.8	17.4	18.6	18.9	18.7	19.9	20.5	21.4	21.4	21.7	20.6	19.7	17.6	14.2	11.3	10.6	6.3	21.7	14.9
Jun 12	10.6	9.3	7.2	6.2	6.6	8.8	10.8	12.8	14.5	15.7	16.9	17.9	18.3	18.5	19.5	19.8	19.9	20	19.5	19.2	17.7	13.3	9.2	6.6	6.2	20.0	14.1
Jun 13	4.8	3.7	2.5	1.9	1.5	5.9	13.1	17.7	18.5	19.3	20.2	20.5	20.6	21	21.9	21.5	22.4	21.9	22.3	21.6	19.9	16.2	12.3	10.1	1.5	22.4	15.1
Jun 14	9.5	7.7	6	5	4.8	8.4	11.7	14.5	17.4	19.7	21.5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	12	10.4	4.8	21.5	-
Jun 15	10.3	9.8	9.4	9.4	9	9.3	10.6	12.3	13.7	14.9	16.9	19	20.2	21.4	21	19.1	21	19.6	19.7	19	16.8	15.1	12.1	10.3	9.0	21.4	15.0
Jun 16	9.6	8.2	8	8.4	8.8	11.7	12.8	14.2	18.1	19.7	20.5	21.2	21.5	22.1	22.2	22	22.7	22.3	21.8	20	18.6	17.4	15.9	13.7	8.0	22.7	16.7
Jun 17	12.2	12	11.6	11.6	11.7	11.8	11.9	12.9	14	16	16.3	17	18.1	19	19.4	19.7	19.2	18.6	18.8	18.4	17	15	14.1	14.6	11.6	19.7	15.5
Jun 18	13.6	12.9	12.3	11.7	11.4	11.2	11.4	12.4	12.6	12.3	12.4	12.7	12.7	12.3	12.5	13.1	13	12.7	12.5	12.4	12.3	12.1	11.3	11.2	13.6	12.3	12.3
Jun 19	11.3	10.8	10.1	9.7	10.2	10.6	10.8	11.1	11.5	12.2	11.9	12.7	13.7	13.9	14.7	15.7	16.3	15.4	15.2	15.3	14	12.8	10.5	8.9	8.9	16.3	12.5
Jun 20	7.6	7.2	8.1	8.2	8.2	8.3	8.7	10.7	13.5	16.6	17.8	18.9	19.1	20.5	21.4	21.3	20.8	19.9	20.4	19.9	15.9	13.3	11.7	10.7	7.2	21.4	14.5
Jun 21	10.9	11.1	12.1	11.2	10.7	11.9	12.9	16	17.7	18.7	19.7	20.6	21.5	21.6	22.2	22.4	22.1	21.9	20	17.4	14.7	12.9	12.5	12.3	10.7	22.4	16.5
Jun 22	11.5	11.1	10.8	9.8	9.7	11	12.3	13.7	14.9	15.9	16.5	17.3	17.8	18.9	20.3	20.3	20	18.6	16.4	15.1	13.2	12	10.7	9.7	20.3	14.9	
Jun 23	10.1	9.8	8.6	7.9	8.9	9.8	10.7	11.3	12.5	13.5	12.5	11.9	11.5	13.1	14	13.9	13.4	13	12.9	13	11.3	9	7.2	6.7	6.7	14.0	11.1
Jun 24	5.9	5	5.3	3.8	3.4	6.1	8.7	10.4	12	14.5	16.4	17.3	17.4	17.8	18.3	19.5	20	20.1	20.1	19.8	17.9	13.5	10.5	9.8	3.4	20.1	13.1
Jun 25	8.2	7.6	7.6	7.5	7.5	9.3	12.4	14.7	17.3	19.3	20.3	21.1	21.6	22.3	22.8	23.1	23.4	23.5	23.1	22.2	19.2	16.7	15.2	13.8	7.5	23.5	16.7
Jun 26	12.5	10.6	9.8	10.5	10.7	10.9	12.9	14.7	16.9	18.9	19.2	20.1	20.6	19.3	18.5	18.5	19.3	19	19	18.2	16.3	14.3	12.1	11.1	9.8	20.6	15.6
Jun 27	10.2	9.8	9.9	9.5	9.4	9.8	10.9	12.7	13	13.2	13.4	12.9	13.7	15.5	17	17.6	17.9	16.9	17.9	18.2	16.3	12.6	9.8	8.1	8.1	18.2	13.2
Jun 28	6.7	6.4	6.4	5.8	6.1	9.6	12.9	15.4	16.8	17.5	18.4	19.4	20.3	20.7	21.4	21.7	21.7	21.2	21.1	20.3	18.8	16.1	13.5	11.6	5.8	21.7	15.4
Jun 29	10.4	8.4	8.5	9	8.8	12.2	14.5	17.2	19.2	20.4	21.1	21.5	21.7	22.2	21.7	20.4	21.9	21.2	20.6	20.3	17.5	15.8	13	10.9	8.4	22.2	16.6
Jun 30	10.4	9.8	8.5	7.5	6.9	8.8	11.4	13.3	16.3	18.9	21	22.5	23.5	23.9	24.6	24.4	23.2	23.8	23.2	21.6	17.1	14.1	13.6	13.3	6.9	24.6	16.7
Diurnal Maximum	16.2	16.3	16.5	15.5	14.9	15.1	15.5	17.7	19.2	20.5	22.0	22.6	23.5	23.9	24.6	24.4	25.1	24.7	24.2	22.8	19.9	17.4	16.5	16.5			
Diurnal Average	10.1	9.4	8.9	8.4	8.3	9.8	11.9	13.9	15.5	16.9	17.8	18.4	18.8	19.1	19.6	19.9	20.1	19.7	19.5	18.7	16.8	14.2	12.1	10.9			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for AT - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

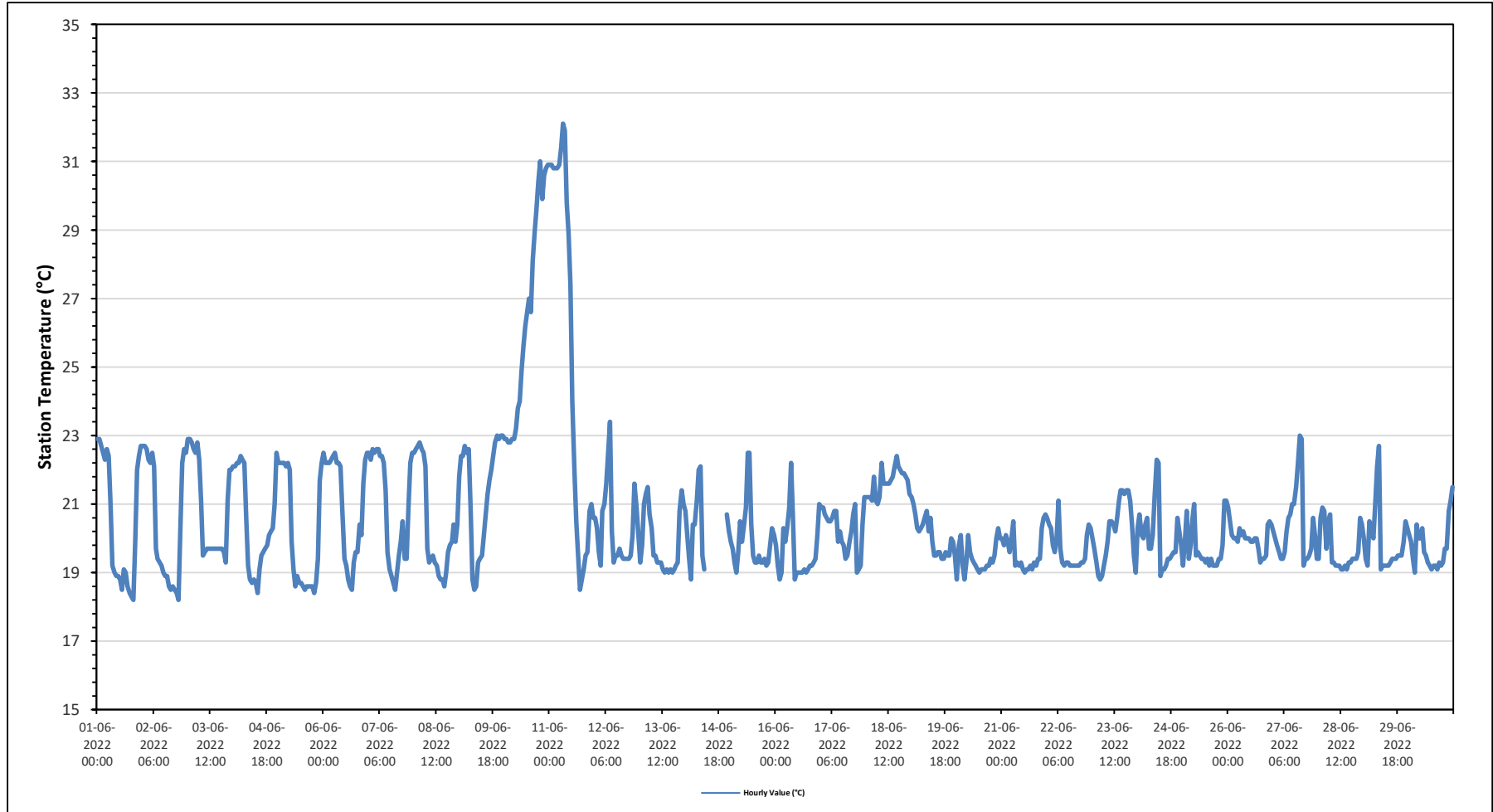
Maximum Hourly Value:	32.1 °C	on June 11 at hour 7	Hours in Service:	720
Maximum Daily Value:	26.5 °C	on June 10	Hours of Data:	709
Minimum Hourly Value:	18.2 °C	on June 1 at hour 19	Hours of Missing Data:	11
Minimum Daily Value:	19.4 °C	on June 20	Hours of Calibration:	0
Monthly Average:	20.6 °C		Operational Uptime:	98.5

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	22.9	22.9	22.7	22.5	22.3	22.6	22.4	21.0	19.2	19.0	18.9	18.9	18.8	18.5	19.1	19.0	18.6	18.4	18.3	18.2	19.9	22.0	22.4	22.7	18.2	22.9	20.5	
Jun 2	22.7	22.7	22.6	22.3	22.2	22.5	22.1	19.7	19.4	19.3	19.2	19.0	18.9	18.9	18.6	18.5	18.6	18.5	18.4	18.2	20.3	22.2	22.6	22.5	18.2	22.7	20.4	
Jun 3	22.9	22.9	22.8	22.6	22.5	22.8	22.3	21.1	19.5	19.6	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.6	19.3	21.1	22.0	22.0	19.3	22.9	20.8
Jun 4	22.1	22.1	22.2	22.2	22.4	22.3	22.2	20.6	19.2	18.8	18.7	18.8	18.7	18.4	19.1	19.5	19.6	19.7	19.8	20.1	20.2	20.3	21.0	22.5	18.4	22.5	20.4	
Jun 5	22.2	22.2	22.2	22.2	22.1	22.2	22.0	19.9	19.1	18.6	18.9	18.7	18.7	18.6	18.5	18.6	18.6	18.6	18.6	18.6	18.4	18.7	19.4	21.7	22.2	18.4	22.2	20.0
Jun 6	22.5	22.2	22.2	22.2	22.3	22.4	22.5	22.2	22.2	22.1	20.8	19.4	19.2	18.8	18.6	18.5	19.3	19.6	19.6	20.4	20.1	21.6	22.3	22.5	18.5	22.5	21.0	
Jun 7	22.5	22.3	22.6	22.5	22.6	22.6	22.4	22.4	22.2	21.4	19.6	19.1	18.9	18.7	18.5	19.0	19.5	19.9	20.5	19.4	19.4	20.9	22.2	22.5	18.5	22.6	20.9	
Jun 8	22.5	22.6	22.7	22.8	22.6	22.5	22.1	19.7	19.3	19.4	19.5	19.3	19.2	18.9	18.8	18.8	18.6	19.0	19.6	19.8	19.9	20.4	19.9	20.4	18.6	22.8	20.3	
Jun 9	21.8	22.4	22.4	22.7	22.5	22.6	20.9	18.8	18.5	18.6	19.3	19.4	19.5	20.1	20.7	21.3	21.7	22.0	22.4	22.8	23.0	22.9	23.0	23.0	18.5	23.0	21.3	
Jun 10	22.9	22.9	22.8	22.8	22.9	22.9	23.2	23.8	24.0	24.9	25.6	26.2	26.6	27.0	26.6	28.1	28.9	29.6	30.4	31.0	29.9	30.6	30.8	30.9	22.8	31.0	26.5	
Jun 11	30.9	30.9	30.8	30.8	30.8	30.9	31.4	32.1	31.9	29.8	28.9	27.4	24.0	22.0	20.5	19.5	18.5	18.8	19.1	19.5	19.6	20.8	21.0	20.6	18.5	32.1	25.4	
Jun 12	20.6	20.3	19.6	19.2	20.8	21.0	21.6	22.5	23.4	20.2	19.3	19.5	19.5	19.7	19.5	19.4	19.4	19.4	19.4	19.5	20.1	21.6	20.9	20.1	19.2	23.4	20.3	
Jun 13	19.3	19.8	21.0	21.3	21.5	20.7	20.3	19.5	19.5	19.3	19.3	19.3	19.1	19.0	19.1	19.0	19.1	19.0	19.1	19.1	19.2	19.3	20.8	21.4	21.0	19.0	21.5	19.8
Jun 14	20.8	20.1	19.4	18.8	20.4	20.4	21.1	22.0	22.1	19.5	19.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	20.7	20.2	18.8	22.1	-
Jun 15	19.9	19.7	19.3	19.0	19.6	20.5	19.9	20.4	20.9	22.5	22.5	20.4	19.5	19.3	19.3	19.5	19.3	19.3	19.4	19.2	19.3	19.8	20.3	20.1	19.0	22.5	20.0	
Jun 16	19.8	19.2	18.8	19.0	20.3	19.9	20.3	20.9	22.2	20.6	18.8	18.8	19.0	19.0	19.0	19.1	19.0	19.1	19.1	19.2	19.2	19.3	19.4	20.1	21.0	18.8	22.2	19.6
Jun 17	20.9	20.9	20.7	20.6	20.5	20.5	20.6	20.8	20.8	19.9	20.2	19.9	19.8	19.4	19.5	19.9	20.2	20.7	21.0	19.0	19.1	19.2	20.4	21.2	19.0	21.2	20.2	
Jun 18	21.2	21.2	21.2	21.1	21.8	21.1	21.0	21.2	22.2	21.6	21.6	21.6	21.6	21.7	21.8	22.1	22.4	22.1	22.0	21.9	21.9	21.8	21.7	21.3	21.0	22.4	21.6	
Jun 19	21.2	21.0	20.7	20.3	20.2	20.3	20.4	20.6	20.8	20.2	20.6	19.9	19.5	19.5	19.6	19.6	19.4	19.4	19.6	19.5	19.5	20.0	19.9	19.5	19.4	21.2	20.1	
Jun 20	18.8	19.8	20.1	19.2	18.8	19.3	20.1	19.6	19.4	19.3	19.2	19.1	19.0	19.1	19.1	19.1	19.2	19.2	19.4	19.3	19.5	20.0	20.3	20.0	18.8	20.3	19.4	
Jun 21	20.0	19.8	20.1	19.9	19.6	20.0	20.5	19.2	19.3	19.2	19.3	19.1	19.0	19.1	19.1	19.2	19.1	19.3	19.2	19.4	19.4	20.3	20.6	20.7	19.0	20.7	19.6	
Jun 22	20.6	20.4	20.3	19.8	19.6	20.0	21.1	19.7	19.3	19.2	19.3	19.3	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.3	19.4	20.1	20.4	20.3	19.2	21.1	19.7	
Jun 23	20.0	19.7	19.3	18.9	18.8	18.9	19.2	19.5	19.9	20.5	20.5	20.4	20.2	20.6	21.1	21.4	21.4	21.3	21.4	21.4	21.1	20.4	19.5	19.0	18.8	21.4	20.2	
Jun 24	20.3	20.7	20.1	20.0	20.4	20.6	19.7	19.7	20.1	21.2	22.3	22.2	18.9	19.1	19.1	19.2	19.4	19.4	19.5	19.6	19.6	20.6	20.2	19.8	18.9	22.3	20.1	
Jun 25	19.2	19.9	20.8	19.4	19.8	20.6	21.0	19.5	19.6	19.5	19.4	19.4	19.3	19.4	19.2	19.4	19.2	19.2	19.2	19.4	19.4	19.8	21.1	21.1	19.2	21.1	19.7	
Jun 26	20.9	20.5	20.1	20.0	20.0	19.9	20.3	20.1	20.2	20.0	20.0	20.0	19.9	19.9	20.0	20.0	19.7	19.3	19.4	19.4	19.5	20.4	20.5	20.4	19.3	20.9	20.0	
Jun 27	20.2	20.0	19.8	19.6	19.4	19.4	19.6	20.2	20.6	20.7	21.0	21.0	21.5	22.2	23.0	22.9	19.2	19.4	19.4	19.5	19.7	20.6	20.1	19.4	19.2	23.0	20.4	
Jun 28	19.4	20.6	20.9	20.8	19.7	20.5	20.7	19.3	19.3	19.2	19.2	19.2	19.1	19.1	19.2	19.1	19.3	19.4	19.4	19.4	19.6	20.6	20.4	19.1	20.9	19.7		
Jun 29	20.0	19.4	19.2	20.5	20.3	20.0	21.0	22.1	22.7	19.1	19.2	19.2	19.2	19.2	19.3	19.4	19.4	19.4	19.5	19.5	19.5	20.5	20.3	19.1	22.7	19.9		
Jun 30	20.1	19.9	19.4	19.0	20.4	20.0	20.0	20.3	19.6	19.5	19.3	19.2	19.1	19.2	19.2	19.1	19.3	19.2	19.3	19.2	19.7	20.8	21.1	21.5	19.0	21.5	19.7	
Diurnal Maximum	30.9	30.9	30.8	30.8	30.8	30.9	31.4	32.1	31.9	29.8	28.9	27.4	26.6	27.0	26.6	28.1	28.9	29.6	30.4	31.0	29.9	30.6	30.8	30.9				
Diurnal Average	21.3	21.3	21.2	21.1	21.2	21.3	21.4	20.9	20.9	20.4	20.3	20.1	19.8	19.8	19.8	19.9	19.8	19.9	20.0	20.2	20.9	21.3	21.3					

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for ST - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	24.5 kph	on June 10 at hour 18	Hours in Service:	720
Maximum Daily Value:	13.6 kph	on June 11	Hours of Data:	709
Minimum Hourly Value:	0.5 kph	on June 6 at hour 22	Hours of Missing Data:	11
Minimum Daily Value:	0.3 kph	on June 20	Hours of Calibration:	0
Monthly Average:	1.4 kph		Operational Uptime:	98.5

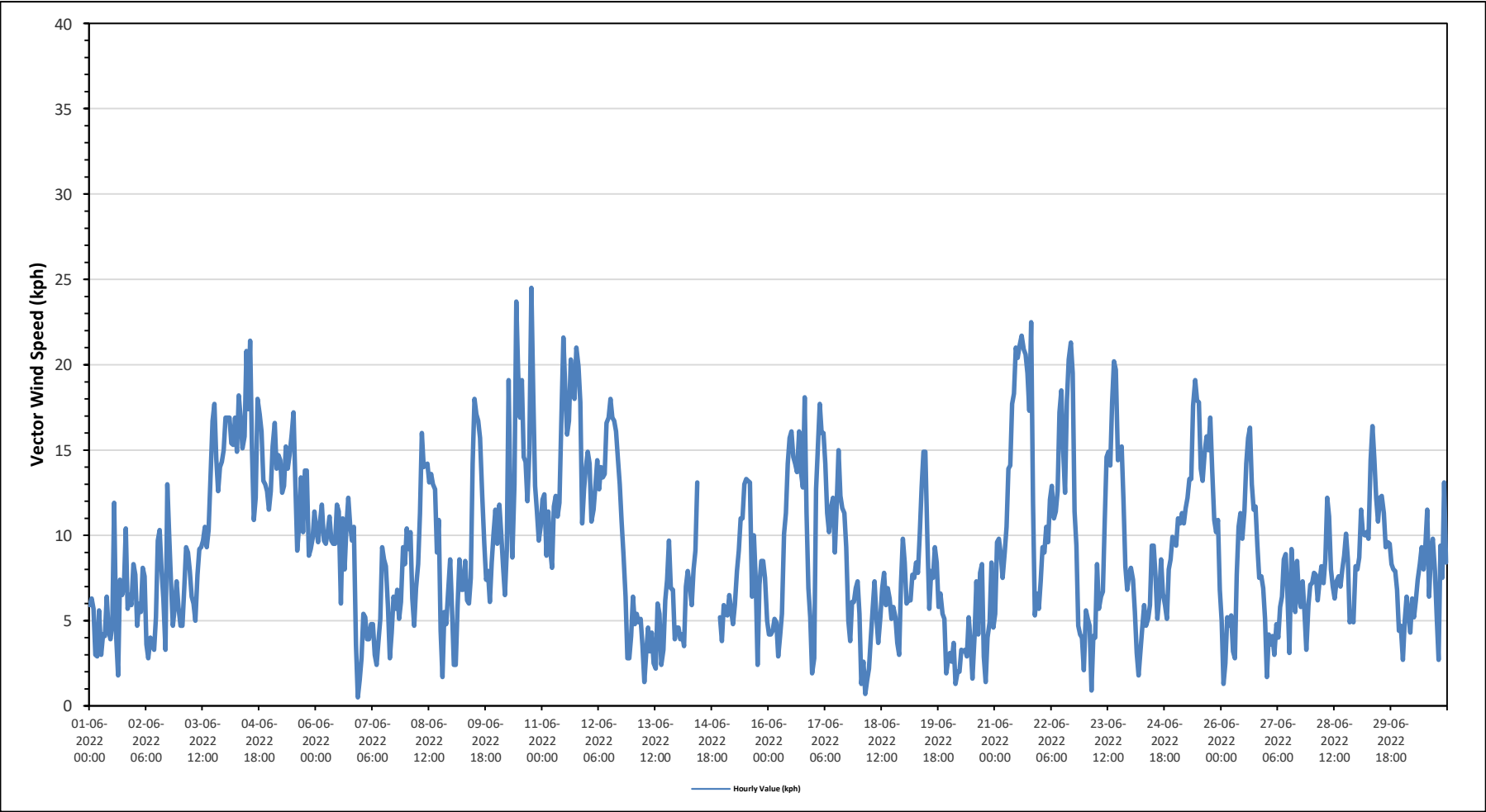
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	5.9	6.3	5.7	3.0	2.9	5.6	3.0	4.2	4.1	6.4	4.4	3.9	4.7	11.9	4.0	1.8	7.4	6.5	7.0	10.4	5.7	6.5	5.9	8.3	1.8	11.9	4.3
Jun 2	7.7	4.7	6.0	5.5	8.1	7.6	3.6	2.8	4.0	3.6	3.3	5.2	9.7	10.3	8.0	6.3	3.3	13.0	10.0	7.2	4.7	5.8	7.3	5.8	2.8	13.0	2.0
Jun 3	4.7	4.7	6.9	9.3	9.0	7.9	6.4	6.0	5.0	7.7	9.2	9.3	9.7	10.5	9.3	10.3	13.3	16.7	17.7	14.5	12.6	14.0	14.3	15.0	4.7	17.7	9.8
Jun 4	16.9	16.9	16.9	15.4	15.3	16.9	14.9	18.2	16.9	15.1	15.8	20.8	17.4	21.4	15.0	10.9	12.2	18.0	17.1	16.1	13.2	13.0	12.6	11.5	10.9	21.4	13.5
Jun 5	12.6	15.2	16.6	13.9	14.7	14.4	12.5	12.9	15.2	13.9	14.7	15.9	17.2	13.0	9.1	10.6	13.4	10.2	13.8	13.8	8.8	9.2	9.8	11.4	8.8	17.2	12.6
Jun 6	10.3	9.6	10.8	11.8	9.7	9.5	10.2	11.1	9.7	9.5	9.5	11.8	11.4	6.0	11.0	8.0	10.5	12.2	10.6	9.7	10.5	3.6	0.5	1.5	0.5	12.2	4.3
Jun 7	2.8	5.4	5.2	3.9	3.9	4.8	4.8	3.0	2.4	3.8	5.1	9.3	8.6	8.2	5.8	2.8	4.3	6.4	5.7	6.8	5.1	6.1	9.3	8.3	2.4	9.3	5.1
Jun 8	10.4	9.2	10.2	6.3	4.7	6.9	8.3	11.3	16.0	14.0	14.1	14.2	13.1	13.6	13.0	12.7	9.0	10.9	4.4	1.7	5.5	4.8	6.6	8.6	1.7	16.0	7.5
Jun 9	5.7	2.4	2.4	5.8	8.6	6.8	6.8	8.5	6.2	6.0	7.5	14.2	18.0	17.1	16.7	15.7	12.4	9.5	7.4	7.9	6.1	8.4	10.1	11.5	2.4	18.0	6.3
Jun 10	9.5	11.8	10.1	8.2	6.5	9.1	19.1	11.8	8.7	13.0	23.7	19.5	16.9	19.1	14.6	14.3	12.0	14.8	24.5	18.3	12.9	11.4	9.7	10.5	6.5	24.5	10.1
Jun 11	12.1	12.4	8.8	11.4	9.2	8.1	11.7	12.3	11.1	11.9	17.2	21.6	18.6	15.9	16.7	20.3	18.5	18.0	21.0	19.9	17.8	10.7	12.7	14.0	8.1	21.6	13.6
Jun 12	14.9	14.2	10.8	11.5	12.9	14.4	12.7	14.0	13.4	13.6	16.6	16.9	18.0	16.9	16.7	16.1	14.5	13.0	10.8	8.9	6.4	2.8	2.8	4.1	2.8	18.0	11.6
Jun 13	6.4	4.8	5.4	4.9	5.1	3.5	1.4	3.1	4.6	3.2	4.3	2.5	2.2	6.0	5.4	2.4	3.3	6.2	7.4	9.7	6.9	6.8	3.9	4.6	1.4	9.7	1.7
Jun 14	4.6	3.9	4.2	3.5	7.0	7.9	7.0	5.9	8.0	9.1	13.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	5.2	3.8	3.5	13.1	-
Jun 15	5.9	5.4	5.3	6.5	5.6	4.8	5.9	7.9	9.1	11.0	11.0	13.0	13.3	13.2	13.1	6.4	10.0	7.4	2.4	7.1	8.5	8.5	7.5	5.0	2.4	13.3	7.3
Jun 16	4.2	4.2	4.4	5.1	4.9	2.9	4.1	5.4	10.1	11.3	14.2	15.7	16.1	14.6	14.2	13.7	16.1	13.7	12.8	18.1	11.3	6.9	5.2	1.9	1.9	18.1	8.6
Jun 17	2.8	12.7	15.2	17.7	16.0	16.0	14.2	11.3	10.2	11.7	12.2	9.0	11.8	15.0	12.3	11.6	11.3	9.3	5.0	3.8	6.1	6.1	6.9	7.3	2.8	17.7	5.6
Jun 18	5.4	1.3	2.6	0.7	1.5	2.2	4.0	5.7	7.3	5.2	3.7	5.2	6.9	7.8	5.9	6.9	6.3	5.1	5.8	5.2	3.7	3.0	7.2	9.8	0.7	9.8	2.4
Jun 19	8.4	6.0	6.2	6.2	7.7	7.5	8.4	7.8	10.1	12.8	14.9	14.9	9.6	5.7	7.9	7.5	9.3	8.4	5.8	6.6	5.4	5.1	1.9	2.7	1.9	14.9	6.2
Jun 20	3.1	2.6	3.7	1.3	2.0	2.0	3.3	3.2	3.3	2.9	5.2	3.7	1.6	4.1	7.3	4.2	7.8	8.3	2.9	1.4	4.0	4.9	8.4	4.6	1.3	8.4	0.3
Jun 21	5.4	9.6	9.8	8.9	7.5	9.0	10.5	13.9	14.1	17.7	18.3	21.0	20.4	21.1	21.7	20.9	20.6	19.5	17.3	22.5	11.9	5.3	6.6	5.7	5.3	22.5	11.0
Jun 22	7.3	9.3	9.0	10.5	9.6	12.1	12.9	11.0	11.4	12.6	17.2	18.5	15.0	12.5	17.9	20.3	21.3	19.5	11.4	9.4	4.7	4.2	4.0	2.1	2.1	21.3	9.5
Jun 23	5.6	5.1	4.7	0.9	4.1	4.0	8.3	5.7	6.4	6.7	10.8	14.6	14.9	14.1	17.8	20.2	19.7	14.4	15.0	15.2	12.0	8.2	6.8	7.7	0.9	20.2	9.8
Jun 24	8.1	7.4	5.5	3.1	1.8	3.2	4.6	5.9	4.7	5.1	5.9	9.4	9.4	7.6	5.1	6.4	8.6	6.6	5.9	5.1	8.0	8.6	9.9	9.7	1.8	9.9	4.3
Jun 25	9.4	11.0	10.7	11.3	10.7	11.6	12.2	13.3	13.3	17.6	19.1	17.9	17.8	13.9	13.2	14.9	15.8	15.0	16.9	13.9	10.9	10.2	10.9	6.8	6.8	19.1	12.6
Jun 26	5.0	1.3	2.5	5.2	4.7	5.3	3.2	2.8	7.7	10.5	11.3	9.8	11.4	14.2	15.7	16.3	13.0	11.5	11.7	9.4	7.5	7.6	6.9	5.1	1.3	16.3	6.6
Jun 27	1.7	4.2	3.6	4.1	3.0	4.8	4.0	5.8	6.4	8.6	8.9	6.4	3.1	9.2	7.3	5.5	8.5	6.4	5.8	7.3	5.5	3.3	5.9	7.1	1.7	9.2	4.1
Jun 28	7.2	7.8	7.7	6.2	7.3	8.2	7.2	8.6	12.2	11.1	8.0	7.0	6.3	7.3	7.6	7.0	8.0	8.8	10.1	8.6	4.9	5.5	4.9	8.2	4.9	12.2	6.6
Jun 29	8.0	8.7	11.5	10.1	10.0	10.2	9.8	14.4	16.4	14.5	12.2	10.8	12.2	12.3	11.3	9.3	9.6	9.5	8.3	8.0	7.9	6.8	4.4	4.7	4.4	16.4	7.4
Jun 30	2.7	5.0	6.4	5.3	4.3	6.3	5.2	6.2	7.4	8.3	9.3	8.0	9.4	11.5	6.4	9.0	9.8	7.9	5.2	2.7	9.4	7.5	13.1	8.4	2.7	13.1	4.0
Diurnal Maximum	17	17	17	18	16	17	19	18	17	18	24	22	20	21	22	21	21	20	25	23	18	14	14	15			
Diurnal Average	7.2	7.4	7.6	7.3	7.3	7.8	8.0	8.5	9.2	9.9	11.4	12.1	11.9	12.2	11.4	10.8	11.4	11.3	10.3	10.0	8.2	7.1	7.4	7.2			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

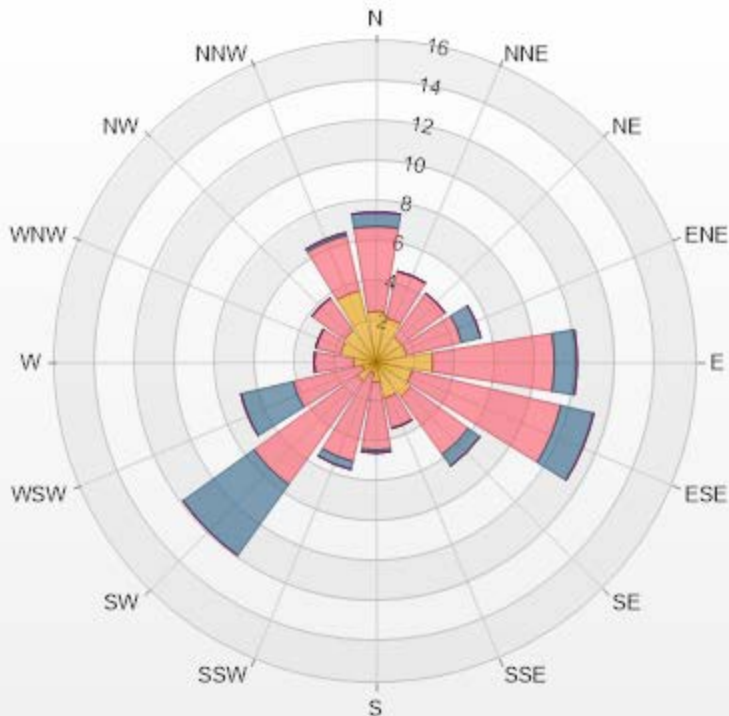
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for VWS - Peace River Complex (PRC) Station



Wind: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 06-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 1.83% Valid Data: 98.47%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.54	4.23	0.71	0	0	7.48
NNE	2.26	2.4	0	0	0	4.66
NE	1.55	2.68	0	0	0	4.23
ENE	1.55	2.82	0.99	0	0	5.36
E	2.82	6.06	1.13	0	0	10.01
ESE	1.83	7.62	1.69	0	0	11.14
SE	2.12	3.53	0.71	0	0	6.36
SSE	1.83	1.55	0	0	0	3.38
S	0.99	3.39	0.14	0	0	4.52
SSW	0.56	4.51	0.42	0	0	5.49
SW	1.13	6.35	4.37	0	0	11.85
WSW	0.71	3.53	2.68	0	0	6.92
W	1.13	1.97	0	0	0	3.1
WNW	1.83	1.27	0	0	0	3.1
NW	1.97	1.97	0	0	0	3.94
NNW	3.67	2.82	0.14	0	0	6.63
Summary	28.49	56.7	12.98	0	0	98.17



PRAMP-202206

Page 203 of 276

% Icon Classes (KPH)	28	57	13	0	0
1.8-6.0	28				
6.0-15.0		57			
15.0-29.0			13		
29.0-39.0				0	
>39.0					0



PEACE RIVER AREA MONITORING PROGRAM

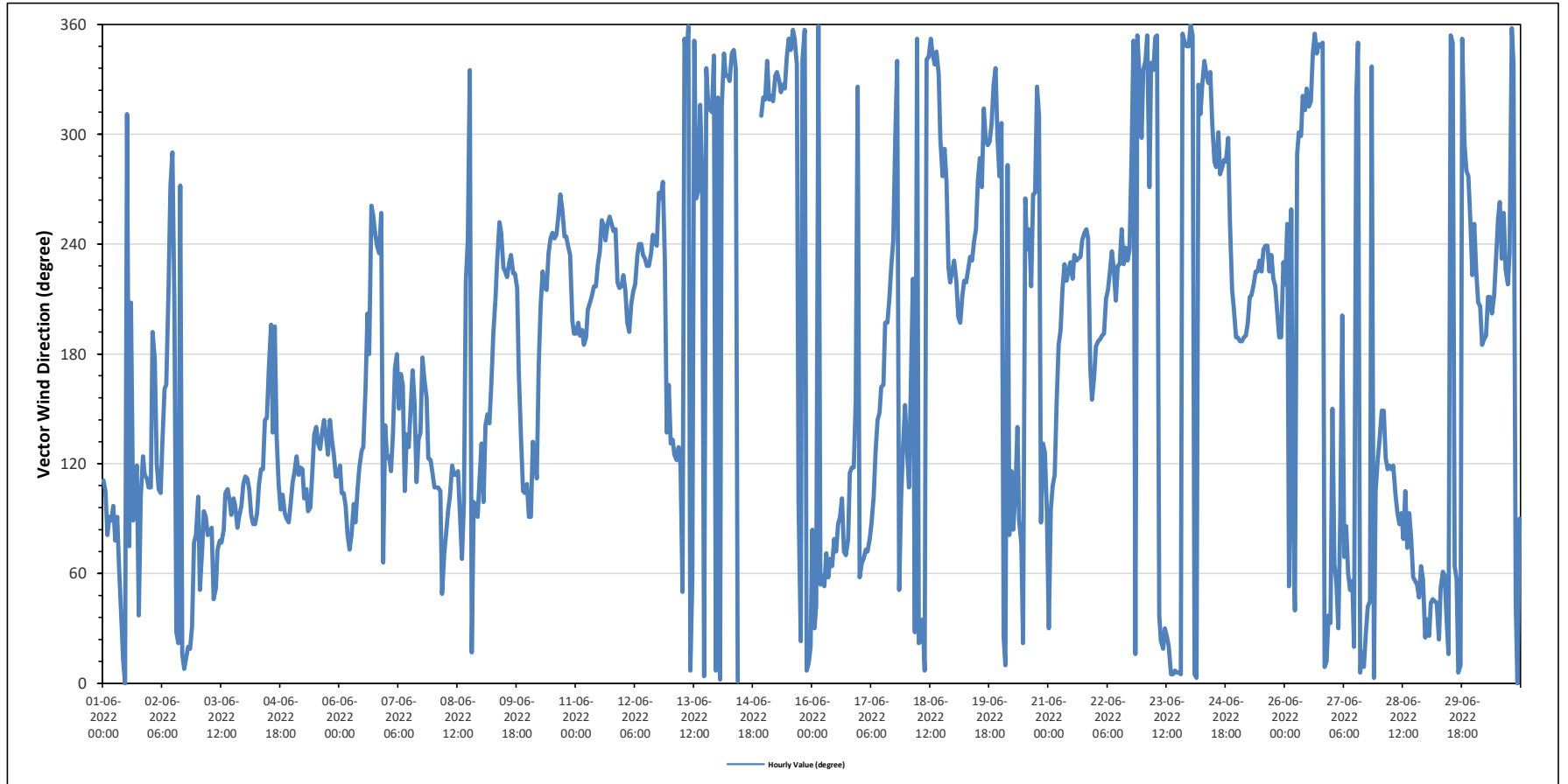
Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		167 (SSE) degree														Hours in Service:		720									
																Hours of Data:		709									
																Hours of Missing Data:		11									
																Hours of Calibration:		0									
																Operational Uptime:		98.5									
Day	Hourly Period Starting at (MST)																							Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant	
Jun 1	ESE	ESE	E	E	E	E	ENE	E	ENE	NE	NNE	N	NW	ENE	SSW	E	ESE	ESE	NE	E	ESE	ESE	ESE	ESE	89	E	
Jun 2	ESE	S	S	ESE	ESE	ESE	SE	SSE	SSE	SSW	W	WNW	SSW	NNE	NNE	W	NNE	N	NNE	NNE	NNE	NNE	ENE	E	62	ENE	
Jun 3	E	NE	ENE	E	E	E	E	E	NE	NE	ENE	ENE	ENE	E	ESE	ESE	E	E	E	E	E	E	E	E	89	E	
Jun 4	ESE	ESE	ESE	E	E	E	E	ESE	ESE	ESE	SE	SE	S	SSW	SE	SSW	SE	ESE	E	ESE	E	E	E	E	117	ESE	
Jun 5	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	E	E	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	121	ESE	
Jun 6	ESE	ESE	ESE	E	E	ENE	E	E	ESE	ESE	SE	SE	SSE	SSW	S	W	WSW	WSW	WSW	SW	WSW	ENE	SE	135	SE		
Jun 7	ESE	ESE	ESE	SE	S	S	SSE	SSE	SSE	ESE	SE	SE	SSE	S	SSE	ESE	SE	SE	S	SSE	SSE	ESE	ESE	142	SE		
Jun 8	ESE	ESE	ESE	ESE	NE	ENE	E	E	ESE	ESE	ESE	ESE	E	ENE	E	SW	WSW	NNW	NNE	E	E	E	ESE	103	ESE		
Jun 9	SE	E	SE	SE	SE	SSE	S	SSW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SSE	SE	ESE	ESE	ESE	ESE	199	SSW		
Jun 10	E	E	SE	SE	ESE	S	SSW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	SW	SW	SSW	S	226	SW	
Jun 11	S	SSW	S	S	S	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	227	SW
Jun 12	SW	SSW	SSW	S	SSW	SSW	SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	W	W	SW	SE	SSE	229	SW	
Jun 13	SE	SE	SE	ESE	SE	ESE	NE	N	NNW	N	N	ENE	N	W	W	NW	W	N	NNW	NW	NW	NNW	N	345	NNW		
Jun 14	NW	N	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NW	NW	-	NNW
Jun 15	NW	NNW	NW	NW	NW	NNW	NNW	NNW	NW	NW	NW	NNW	N	NNW	N	N	NNW	E	NNE	NNW	N	N	NNE	NNE	344	NNW	
Jun 16	E	NNE	NE	N	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	ESE	ESE	ESE	SSE	NW	80	E		
Jun 17	ENE	ENE	ENE	ENE	ENE	ENE	E	SE	SE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WNW	NNW	NNW	NE	E	SE	SSE	123	ESE
Jun 18	SE	ESE	SSE	SW	NNE	N	NNE	NNE	NE	N	NNW	NNW	N	NNW	NNW	NNW	NNW	WNW	W	WNW	W	SW	SW	SW	328	NNW	
Jun 19	SW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	W	WNW	W	NW	WNW	WNW	NW	NW	NNW	WNW	W	254	WSW		
Jun 20	NW	NNE	N	W	E	ESE	E	ESE	SE	E	ENE	NNE	W	SW	WSW	SW	W	NW	NW	E	SE	SE	E	131	SE		
Jun 21	NNE	E	ESE	ESE	SSE	S	S	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	S	SSE	SSE	220	SW	
Jun 22	S	S	S	S	S	SSW	SSW	SW	SW	SSW	SW	SW	SSW	SW	SW	WSW	SW	SW	NW	N	NNE	N	NNW	WNW	228	SW	
Jun 23	NNW	NNW	N	W	NNW	NNW	N	N	NE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	NNW	NNW	N	6	N	
Jun 24	N	N	N	N	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	WNW	W	WNW	W	W	WNW	WNW	WNW	WSW	SSW	SSW	S	295	WNW	
Jun 25	S	S	S	S	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SSW	S	SW	216	SW	
Jun 26	SW	WSW	NE	WSW	E	NE	WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	N	NNW	NNW	NNW	N	N	NNE	NE	NNE	339	NNW	
Jun 27	SSE	ENE	NE	NNE	E	SSW	ENE	E	ENE	NE	NE	NNE	NW	N	N	NNE	N	NNE	NE	NE	NNW	N	ESE	ESE	41	NE	
Jun 28	SE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ENE	ESE	E	ENE	ESE	E	ENE	ENE	NE	NE	ENE	ENE	NNE	92	E	
Jun 29	NE	NNE	NE	NE	NE	NE	NNE	NE	ENE	ENE	NNE	NNE	N	N	ENE	ENE	ENE	N	N	N	WNW	W	W	WSW	SW	26	NNE
Jun 30	WSW	SW	SSW	SSW	S	S	S	SSW	SSW	SSW	SSW	SW	WSW	W	SW	WSW	SW	SW	SW	N	NNW	NE	N	E	232	SW	
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance												
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure					
X	Invalid Data (Machine Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for VWD - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																											
Maximum Hourly Value: 24.5 kph on June 10 at hour 18													Hours in Service: 720														
Maximum Daily Value: 13.6 kph on June 11													Hours of Data: 709														
Minimum Hourly Value: 0.5 kph on June 6 at hour 22													Hours of Missing Data: 11														
Minimum Daily Value: 0.3 kph on June 20													Hours of Calibration: 0														
Monthly Average: 1.4 kph													Operational Uptime: 98.5														
WIND DIRECTION																											
Monthly Average: 167 (SSE) degree																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	5.9	6.3	5.7	3.0	2.9	5.6	3.0	4.2	4.1	6.4	4.4	3.9	4.7	11.9	4.0	1.8	7.4	6.5	7.0	10.4	5.7	6.5	5.9	8.3	1.8	11.9	4.3
Jun 2	7.7	4.7	6.0	5.5	8.1	7.6	3.6	2.8	4.0	3.6	3.3	5.2	9.7	10.3	8.0	6.3	3.3	13.0	10.0	7.2	4.7	5.8	7.3	5.8	2.8	13.0	2.0
Jun 3	4.7	4.7	6.9	9.3	9.0	7.9	6.4	6.0	5.0	7.7	9.2	9.3	9.7	10.5	9.3	10.3	13.3	16.7	17.7	14.5	12.6	14.0	14.3	15.0	4.7	17.7	9.8
Jun 4	16.9	16.9	16.9	15.4	15.3	16.9	14.9	18.2	16.9	15.1	15.8	20.8	17.4	21.4	15.0	10.9	12.2	18.0	17.1	16.1	13.2	13.0	12.6	11.5	10.9	21.4	13.5
Jun 5	12.6	15.2	16.6	13.9	14.7	14.4	12.5	12.9	15.2	13.9	14.7	15.9	17.2	13.0	9.1	10.6	13.4	10.2	13.8	13.8	8.8	9.2	9.8	11.4	8.8	17.2	12.6
Jun 6	10.3	9.6	10.8	11.8	9.7	9.5	10.2	11.1	9.7	9.5	9.5	11.8	11.4	6.0	11.0	8.0	10.5	12.2	10.6	9.7	10.5	3.6	0.5	1.5	0.5	12.2	4.3
Jun 7	2.8	5.4	5.2	3.9	4.8	4.8	3.0	2.4	3.8	5.1	9.3	8.6	8.2	5.8	2.8	4.3	6.4	5.7	6.8	5.1	6.1	9.3	8.3	2.4	9.3	5.1	
Jun 8	10.4	9.2	10.2	6.3	4.7	6.9	8.3	11.3	16.0	14.0	14.1	14.2	13.1	13.6	13.0	12.7	9.0	10.9	4.4	1.7	5.5	4.8	6.6	8.6	1.7	16.0	7.5
Jun 9	5.7	2.4	2.4	5.8	8.6	6.8	6.8	8.5	6.2	6.0	7.5	14.2	18.0	17.1	16.7	15.7	12.4	9.5	7.4	7.9	6.1	8.4	10.1	11.5	2.4	18.0	6.3
Jun 10	9.5	11.8	10.1	8.2	6.5	9.1	19.1	11.8	8.7	13.0	23.7	19.5	16.9	19.1	14.6	14.3	12.0	14.8	24.5	18.3	12.9	11.4	9.7	10.5	6.5	24.5	10.1
Jun 11	12.1	12.4	8.8	11.4	9.2	8.1	11.7	12.3	11.1	11.9	17.2	21.6	18.6	15.9	16.7	20.3	18.5	18.0	21.0	19.9	17.8	10.7	12.7	14.0	8.1	21.6	13.6
Jun 12	14.9	14.2	10.8	11.5	12.9	14.4	12.7	14.0	13.4	13.6	16.6	16.9	18.0	16.9	16.7	16.1	14.5	13.0	10.8	8.9	6.4	2.8	2.8	4.1	2.8	18.0	11.6
Jun 13	6.4	4.8	5.4	4.9	5.1	3.5	1.4	3.1	4.6	3.2	4.3	2.5	2.2	6.0	5.4	2.4	3.3	6.2	7.4	9.7	6.9	6.8	3.9	4.6	1.4	9.7	1.7
Jun 14	4.6	3.9	4.2	3.5	7.0	7.9	7.0	5.9	8.0	9.1	13.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	3.5	13.1	-
Jun 15	5.9	5.4	5.3	6.5	5.6	4.8	5.9	7.9	9.1	11.0	11.0	13.0	13.3	13.2	13.1	6.4	10.0	7.4	2.4	7.1	8.5	8.5	7.5	5.0	2.4	13.3	7.3
Jun 16	4.2	4.2	4.4	5.1	4.9	2.9	4.1	5.4	10.1	11.3	14.2	15.7	16.1	14.6	14.2	13.7	16.1	13.7	12.8	18.1	11.3	6.9	5.2	1.9	1.9	18.1	8.6
Jun 17	2.8	12.7	15.2	17.7	16.0	16.0	14.2	11.3	10.2	11.7	12.2	9.0	11.8	15.0	12.3	11.6	11.3	9.3	5.0	3.8	6.1	6.1	6.9	7.3	2.8	17.7	5.6
Jun 18	5.4	1.3	2.6	0.7	1.5	2.2	4.0	5.7	7.3	5.2	3.7	5.2	6.9	7.8	5.9	6.9	6.3	5.1	5.8	5.2	3.7	3.0	7.2	9.8	0.7	9.8	2.4
Jun 19	8.4	6.0	6.2	6.2	7.7	7.5	8.4	7.8	10.1	12.8	14.9	14.9	9.6	5.7	7.9	7.5	9.3	8.4	5.8	6.6	5.4	5.1	1.9	2.7	1.9	14.9	6.2
Jun 20	3.1	2.6	3.7	1.3	2.0	2.0	3.3	3.2	3.3	2.9	5.2	3.7	1.6	4.1	7.3	4.2	7.8	8.3	2.9	1.4	4.0	4.9	8.4	4.6	1.3	8.4	0.3



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - June 2022

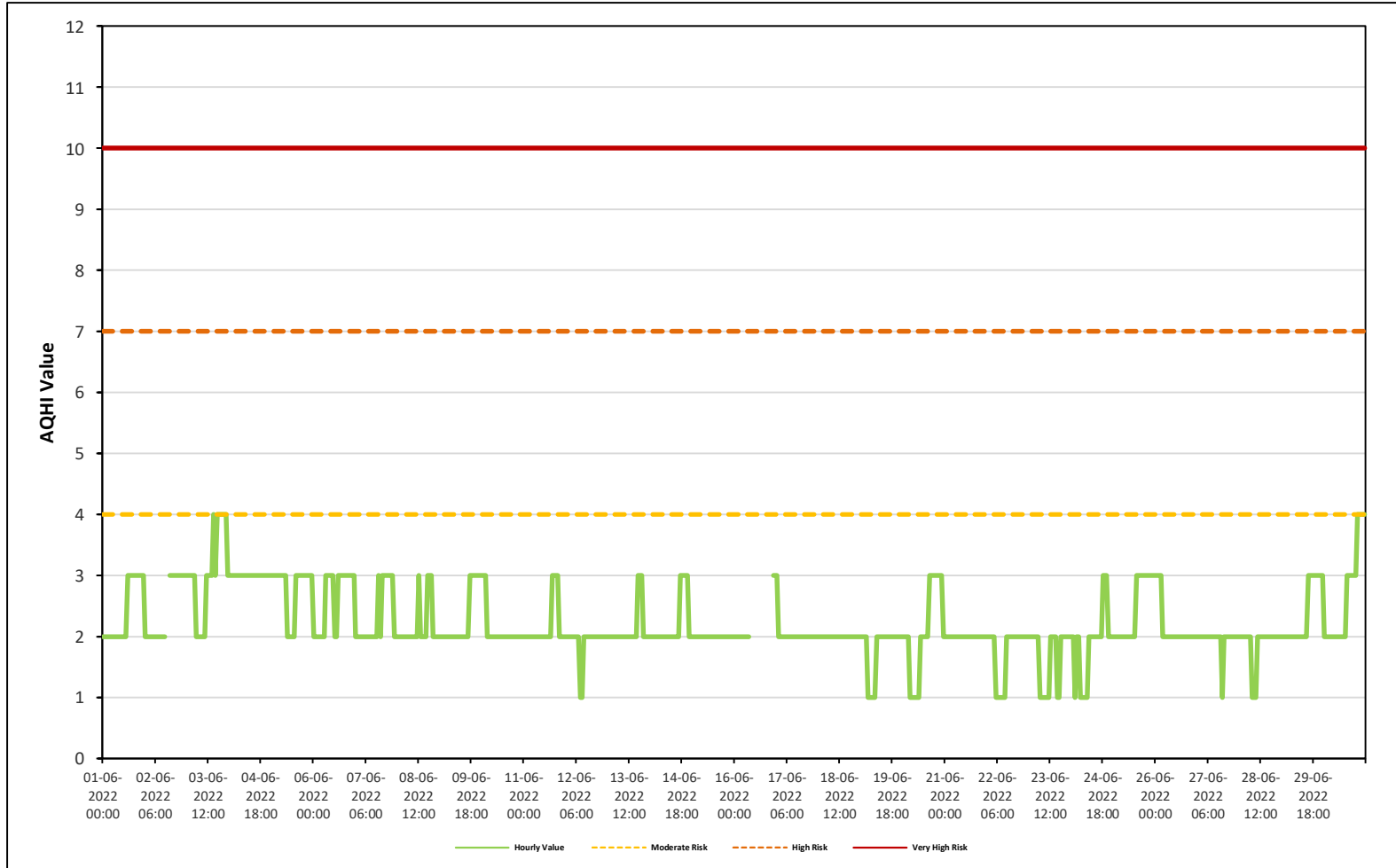
Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																																																																																															
Maximum Hourly Value:	24.5 kph on June 10 at hour 18																																																																																														
Maximum Daily Value:	13.6 kph on June 11																																																																																														
Minimum Hourly Value:	0.5 kph on June 6 at hour 22																																																																																														
Minimum Daily Value:	0.3 kph on June 20																																																																																														
Monthly Average:	1.4 kph																																																																																														
Hours in Service:	720																																																																																														
Hours of Data:	709																																																																																														
Hours of Missing Data:	11																																																																																														
Hours of Calibration:	0																																																																																														
Operational Uptime:	98.5																																																																																														
WIND DIRECTION																																																																																															
Monthly Average:	167 (SSE) degree																																																																																														
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average																																																																					
Jun 21	5.4	9.6	9.8	8.9	7.5	9.0	10.5	13.9	14.1	17.7	18.3	21.0	20.4	21.1	21.7	20.9	20.6	19.5	17.3	22.5	11.9	5.3	6.6	5.7	5.3	22.5	11.0																																																																				
Jun 22	7.3	9.3	9.0	10.5	9.6	12.1	12.9	11.0	11.4	12.6	17.2	18.5	15.0	12.5	17.9	20.3	21.3	19.5	11.4	9.4	4.7	4.2	4.0	2.1	2.1	21.3	9.5																																																																				
Jun 23	5.6	5.1	4.7	0.9	4.1	4.0	8.3	5.7	6.4	6.7	10.8	14.6	14.9	14.1	17.8	20.2	19.7	14.4	15.0	15.2	12.0	8.2	6.8	7.7	0.9	20.2	9.8																																																																				
Jun 24	8.1	7.4	5.5	3.1	1.8	3.2	4.6	5.9	4.7	5.1	5.9	9.4	9.4	7.6	5.1	6.4	8.6	6.6	5.9	5.1	8.0	8.6	9.9	9.7	1.8	9.9	4.3																																																																				
Jun 25	9.4	11.0	10.7	11.3	10.7	11.6	12.2	13.3	13.3	17.6	19.1	17.9	17.8	13.9	13.2	14.9	15.8	15.0	16.9	13.9	10.9	10.2	10.9	6.8	6.8	19.1	12.6																																																																				
Jun 26	5.0	1.3	2.5	5.2	4.7	5.3	3.2	2.8	7.7	10.5	11.3	9.8	11.4	14.2	15.7	16.3	13.0	11.5	11.7	9.4	7.5	7.6	6.9	5.1	1.3	16.3	6.6																																																																				
Jun 27	1.7	4.2	3.6	4.1	3.0	4.8	4.0	5.8	6.4	8.6	8.9	6.4	3.1	9.2	7.3	5.5	8.5	6.4	5.8	7.3	5.5	3.3	5.9	7.1	1.7	9.2	4.1																																																																				
Jun 28	7.2	7.8	7.7	6.2	7.3	8.2	7.2	8.6	12.2	11.1	8.0	7.0	6.3	7.3	7.6	7.0	8.0	8.8	10.1	8.6	4.9	5.5	4.9	8.2	4.9	12.2	6.6																																																																				
Jun 29	8.0	8.7	11.5	10.1	10.0	10.2	9.8	14.4	16.4	14.5	12.2	10.8	12.2	12.3	11.3	9.3	9.6	9.5	8.3	8.0	7.9	6.8	4.4	4.7	4.4	16.4	7.4																																																																				
Jun 30	2.7	5.0	6.4	5.3	4.3	6.3	5.2	6.2	7.4	8.3	9.3	8.0	9.4	11.5	6.4	9.0	9.8	7.9	5.2	2.7	9.4	7.5	13.1	8.4	2.7	13.1	4.0																																																																				
C	Monthly Calibration																							S	Daily Zero-Span Check																							Q	Quality Assurance																																														
K	Collection Error																							N	No Data (Machine Not in Service)																							Y	Routine Maintenance																							P	Power Failure																						
X	Invalid Data (Equipment Malfunction/Recovery)																							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																																																						
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																																																																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																																																																															

AQHI GRIMSHAW STATION

Timeseries Chart of Hourly Average for AQHI - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

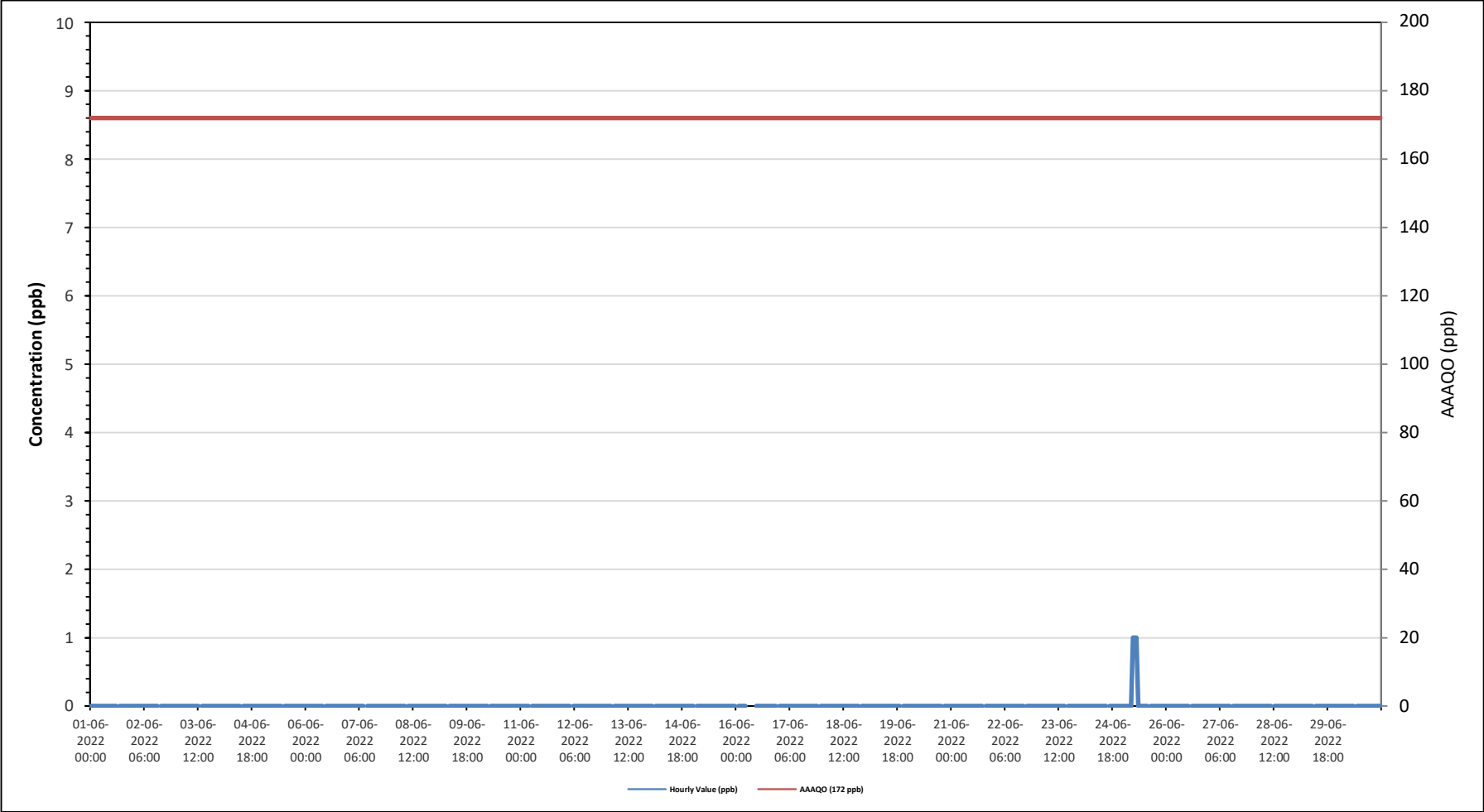
AQHI - Grimshaw Station - June 2022

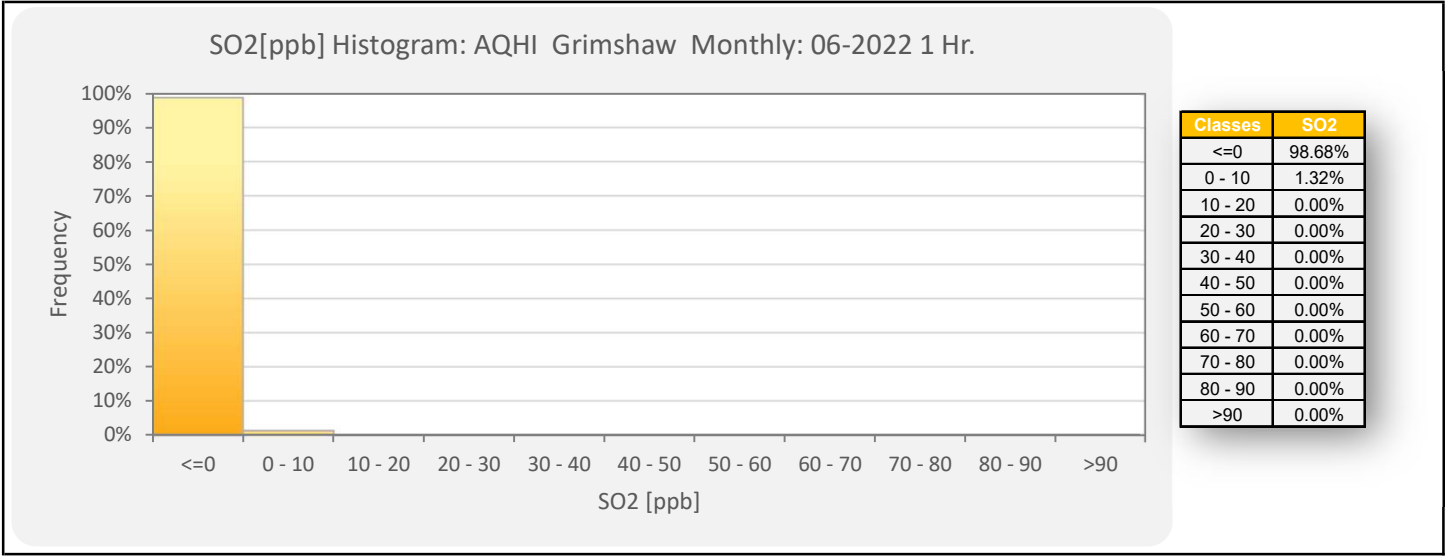
Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb																																								
Number of 1-Hour Exceedances:						0						Number of 24-Hour Exceedances:						0						30-Day Exceedance:						0										
Maximum Hourly Value:						1 ppb on June 25 at hour 5						Hours in Service:						720																						
Maximum Daily Value:						0.1 ppb on June 25						Hours of Data:						684																						
Minimum Hourly Value:						0 ppb on June 1 at hour 0						Hours of Missing Data:						0																						
Minimum Daily Value:						0.0 ppb on June 1						Hours of Calibration:						36																						
Monthly Average:						0.0 ppb						Operational Uptime:						100.0																						
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																
Jun 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 4	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 5	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 6	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 7	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 8	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 9	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 10	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 11	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 12	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 13	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 14	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 15	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 16	S	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 25	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 29	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun 30	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Maximum	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance																									
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure																		
X	Invalid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																								
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																								

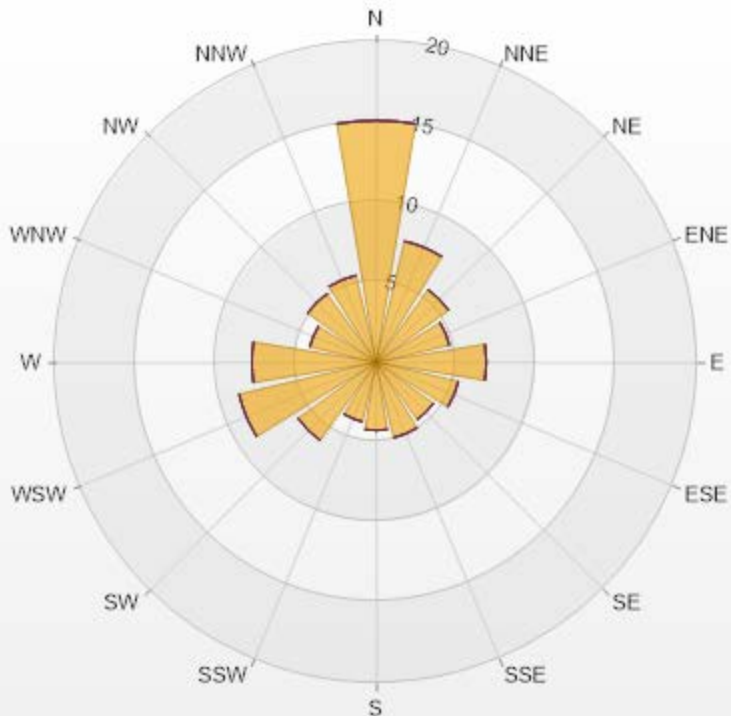
Timeseries Chart of Hourly Average for SO2 - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	15.06	0	0	0	0	15.06
NNE	7.75	0	0	0	0	7.75
NE	5.56	0	0	0	0	5.56
ENE	4.68	0	0	0	0	4.68
E	6.87	0	0	0	0	6.87
ESE	5.26	0	0	0	0	5.26
SE	4.39	0	0	0	0	4.39
SSE	4.82	0	0	0	0	4.82
S	4.24	0	0	0	0	4.24
SSW	3.8	0	0	0	0	3.8
SW	5.99	0	0	0	0	5.99
WSW	8.77	0	0	0	0	8.77
W	7.75	0	0	0	0	7.75
WNW	4.24	0	0	0	0	4.24
NW	5.26	0	0	0	0	5.26
NNW	5.56	0	0	0	0	5.56
Summary	100	0	0	0	0	100



PRAMP-202206

Page 214 of 276

% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Maximum Hourly Value:	1.29 ppb on June 13 at hour 6	Hours in Service:	720
Maximum Daily Value:	0.53 ppb on June 1	Hours of Data:	675
Minimum Hourly Value:	0.00 ppb on June 16 at hour 13	Hours of Missing Data:	9
Minimum Daily Value:	0.29 ppb on June 17	Hours of Calibration:	36
Monthly Average:	0.40 ppb	Operational Uptime:	98.8

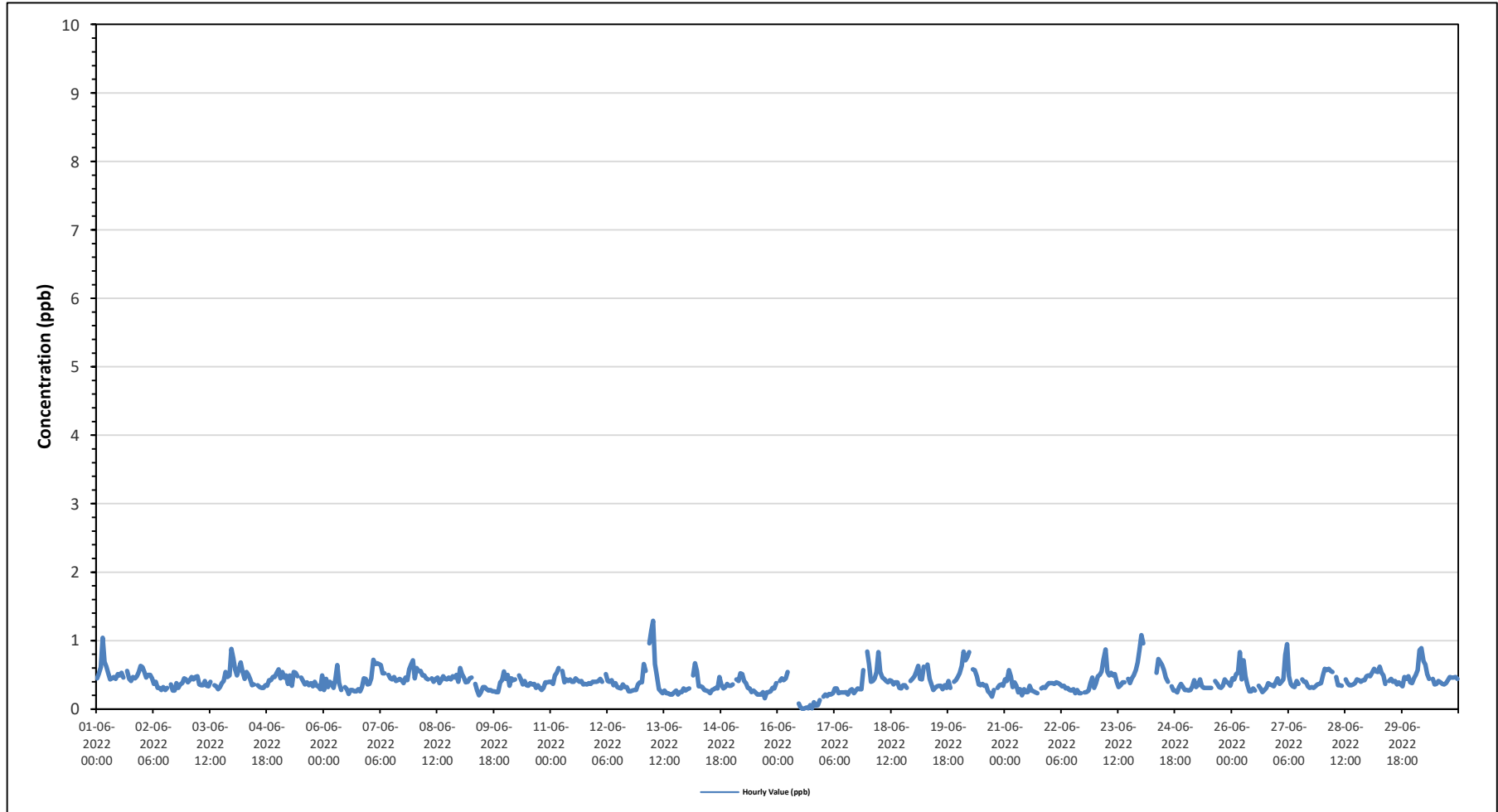
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	0.45	0.51	0.61	1.04	0.69	0.62	0.52	0.43	0.45	0.47	0.44	0.51	0.49	0.53	0.46	S	0.56	0.44	0.41	0.47	0.45	0.48	0.54	0.63	0.41	1.04	0.53
Jun 2	0.61	0.54	0.46	0.5	0.5	0.45	0.37	0.4	0.31	0.31	0.28	0.32	0.28	0.31	S	0.36	0.27	0.27	0.38	0.31	0.36	0.38	0.45	0.43	0.27	0.61	0.38
Jun 3	0.39	0.42	0.47	0.43	0.47	0.48	0.36	0.35	0.35	0.41	0.34	0.33	0.4	S	0.35	0.33	0.29	0.32	0.38	0.41	0.54	0.47	0.49	0.88	0.29	0.88	0.42
Jun 4	0.75	0.58	0.49	0.58	0.68	0.55	0.44	0.54	0.5	0.43	0.35	0.36	S	0.35	0.32	0.31	0.31	0.35	0.34	0.42	0.42	0.47	0.47	0.53	0.31	0.75	0.46
Jun 5	0.58	0.45	0.54	0.46	0.49	0.37	0.49	0.34	0.54	0.53	0.48	S	0.46	0.41	0.36	0.39	0.35	0.38	0.33	0.4	0.34	0.33	0.29	0.49	0.29	0.58	0.43
Jun 6	0.28	0.44	0.32	0.4	0.37	0.31	0.44	0.64	0.38	0.28	S	0.32	0.29	0.22	0.28	0.28	0.26	0.26	0.29	0.26	0.32	0.45	0.44	0.36	0.22	0.64	0.34
Jun 7	0.37	0.45	0.72	0.66	0.67	0.66	0.64	0.52	0.52	S	0.5	0.45	0.43	0.47	0.41	0.42	0.44	0.42	0.38	0.46	0.42	0.58	0.65	0.71	0.37	0.72	0.52
Jun 8	0.45	0.6	0.56	0.56	0.49	0.49	0.45	0.43	S	0.45	0.4	0.44	0.46	0.38	0.42	0.48	0.44	0.43	0.46	0.43	0.48	0.46	0.5	0.4	0.38	0.60	0.46
Jun 9	0.6	0.51	0.46	0.39	0.4	0.45	0.46	S	0.37	0.27	0.2	0.24	0.32	0.32	0.29	0.27	0.28	0.26	0.26	0.25	0.25	0.39	0.42	0.55	0.20	0.60	0.36
Jun 10	0.44	0.5	0.34	0.45	0.42	0.43	S	0.49	0.43	0.36	0.41	0.35	0.34	0.38	0.36	0.37	0.31	0.35	0.31	0.28	0.31	0.39	0.39	0.4	0.28	0.50	0.38
Jun 11	0.4	0.37	0.49	0.53	0.6	S	0.56	0.39	0.43	0.41	0.43	0.4	0.4	0.45	0.42	0.4	0.41	0.36	0.37	0.36	0.38	0.37	0.4	0.4	0.36	0.60	0.42
Jun 12	0.4	0.41	0.44	0.4	S	0.51	0.41	0.4	0.42	0.35	0.38	0.32	0.31	0.3	0.36	0.32	0.32	0.26	0.26	0.27	0.28	0.28	0.36	0.39	0.26	0.51	0.35
Jun 13	0.39	0.66	0.56	S	0.96	1.14	1.29	0.66	0.49	0.29	0.26	0.23	0.27	0.23	0.23	0.21	0.21	0.24	0.27	0.21	0.25	0.25	0.3	0.27	0.21	1.29	0.43
Jun 14	0.29	0.3	S	0.49	0.67	0.56	0.33	0.33	0.32	0.28	0.27	0.26	0.23	0.28	0.29	0.31	0.3	0.47	0.36	0.3	0.32	0.37	0.34	0.34	0.23	0.67	0.35
Jun 15	0.36	S	0.43	0.41	0.52	0.51	0.41	0.38	0.31	0.3	0.25	0.27	0.24	0.21	0.21	0.21	0.25	0.16	0.24	0.25	0.26	0.31	0.3	0.38	0.16	0.52	0.31
Jun 16	S	0.41	0.45	0.42	0.45	0.54	C	C	C	C	C	0.08	0.02	0	0.01	0.02	0.01	0.06	0.01	0.1	0.05	0.06	0.13	S	0.00	0.54	-
Jun 17	0.18	0.21	0.19	0.22	0.21	0.23	0.3	0.3	0.23	0.24	0.24	0.24	0.25	0.21	0.27	0.29	0.23	0.27	0.3	0.29	0.29	0.57	S	0.84	0.18	0.84	0.29
Jun 18	0.65	0.4	0.41	0.45	0.54	0.83	0.54	0.46	0.44	0.41	0.39	0.42	0.41	0.36	0.39	0.39	0.31	0.3	0.35	0.35	0.31	S	0.41	0.44	0.30	0.83	0.43
Jun 19	0.48	0.55	0.63	0.44	0.43	0.62	NRM	0.65	0.44	0.36	0.28	0.31	0.33	0.34	0.34	0.29	0.35	0.31	0.41	0.31	S	0.4	0.42	0.47	0.28	0.65	0.42
Jun 20	0.52	0.63	0.84	0.71	0.76	0.83	NRM	0.58	0.57	0.48	0.36	0.35	0.37	0.34	0.35	0.26	0.23	0.18	0.28	S	0.31	0.35	0.36	0.34	0.18	0.84	0.45
Jun 21	0.43	0.41	0.57	0.48	0.32	0.39	0.34	0.24	0.29	0.2	0.29	0.25	0.25	0.34	0.27	0.26	0.24	0.23	S	0.3	0.32	0.31	0.35	0.38	0.20	0.57	0.32
Jun 22	0.38	0.38	0.37	0.39	0.38	0.36	0.33	0.34	0.3	0.31	0.28	0.27	0.29	0.23	0.28	0.23	0.23	S	0.24	0.25	0.27	0.38	0.46	0.31	0.23	0.46	0.32
Jun 23	0.38	0.48	0.5	0.55	0.72	0.87	0.54	0.49	0.53	0.49	0.51	0.4	0.32	0.35	0.39	0.39	S	0.44	0.38	0.45	0.49	0.57	0.68	0.87	0.32	0.87	0.51
Jun 24	1.08	0.96	X	X	X	X	X	NRM	0.53	0.73	0.69	0.64	0.57	0.46	0.4	S	0.33	0.27	0.27	0.24	0.32	0.37	0.32	0.28	0.24	1.08	-
Jun 25	0.28	0.27	0.28	0.33	0.42	0.32	0.35	0.43	0.33	0.31	0.31	0.31	0.31	0.31	S	0.41	0.37	0.32	0.31	0.34	0.43	0.4	0.38	0.34	0.27	0.43	0.34
Jun 26	0.45	0.43	0.51	0.53	0.83	0.43	0.71	0.48	0.36	0.26	0.26	0.3	0.27	S	0.34	0.3	0.25	0.28	0.31	0.38	0.36	0.35	0.33	0.39	0.25	0.83	0.40
Jun 27	0.45	0.37	0.4	0.43	0.79	0.95	0.48	0.37	0.33	0.32	0.41	0.37	S	0.43	0.4	0.4	0.33	0.31	0.32	0.31	0.33	0.36	0.37	0.38	0.31	0.95	0.42
Jun 28	0.49	0.59	0.57	0.59	0.56	0.54	NRM	0.47	0.35	0.35	0.34	S	0.43	0.38	0.35	0.35	0.36	0.38	0.43	0.42	0.4	0.42	0.42	0.48	0.34	0.59	0.44
Jun 29	0.49	0.48	0.53	0.59	0.55	0.54	0.62	0.53	0.49	0.37	S	0.41	0.44	0.4	0.41	0.36	0.39	0.36	0.33	0.47	0.44	0.48	0.39	0.38	0.33	0.62	0.45
Jun 30	0.45	0.5	0.57	0.86	0.89	0.7	0.65	0.51	0.44	S	0.44	0.36	0.37	0.41	0.39	0.37	0.36	0.38	0.42	0.47	0.46	0.46	0.47	0.44	0.36	0.89	0.49
Diurnal Maximum	1.08	0.96	0.84	1.04	0.96	1.14	1.29	0.66	0.57	0.73	0.69	0.64	0.57	0.53	0.46	0.48	0.56	0.47	0.46	0.47	0.54	0.58	0.68	0.88			
Diurnal Average	0.46	0.48	0.49	0.51	0.56	0.50	0.45	0.41	0.37	0.36	0.34	0.34	0.34	0.34	0.33	0.32	0.31	0.31	0.32	0.34	0.35	0.40	0.41	0.47			

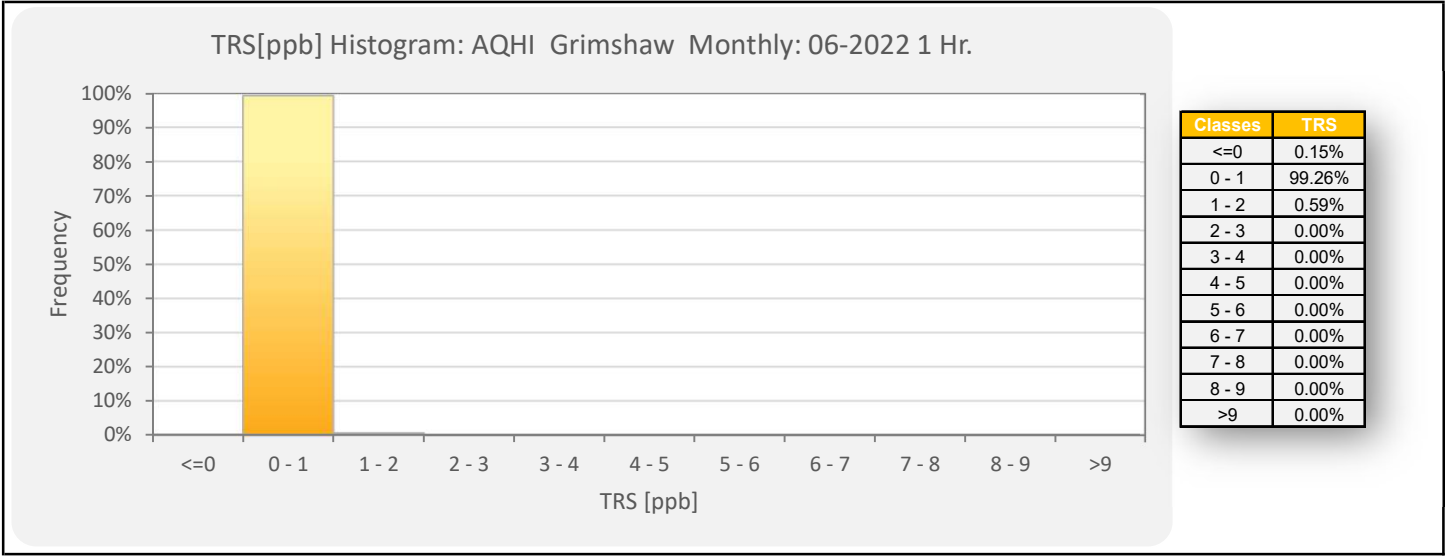
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

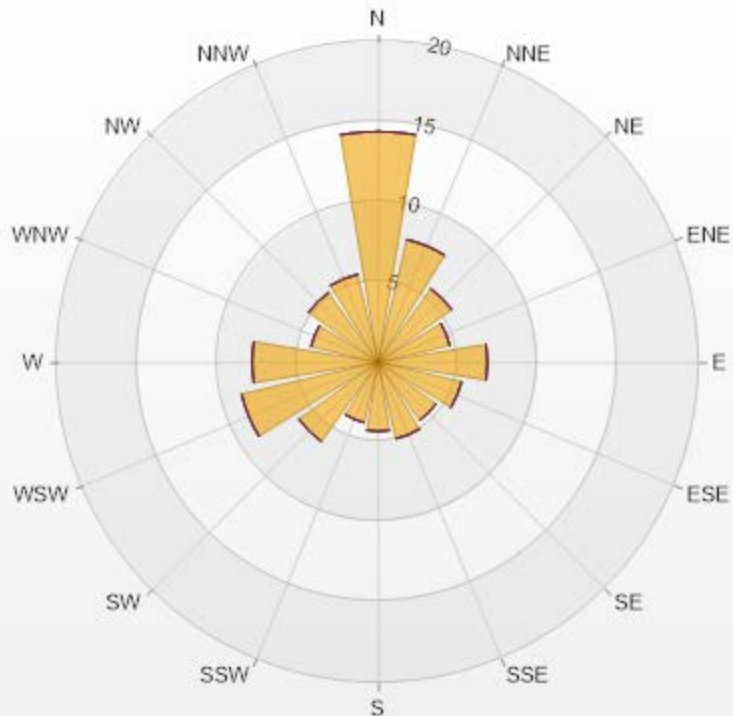
Timeseries Chart of Hourly Average for TRS - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 93.75% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	14.37	0	0	0	0	14.37
NNE	7.85	0	0	0	0	7.85
NE	5.63	0	0	0	0	5.63
ENE	4.59	0	0	0	0	4.59
E	6.81	0	0	0	0	6.81
ESE	5.33	0	0	0	0	5.33
SE	4.44	0	0	0	0	4.44
SSE	4.89	0	0	0	0	4.89
S	4.3	0	0	0	0	4.3
SSW	3.85	0	0	0	0	3.85
SW	6.07	0	0	0	0	6.07
WSW	8.74	0	0	0	0	8.74
W	7.85	0	0	0	0	7.85
WNW	4.3	0	0	0	0	4.3
NW	5.33	0	0	0	0	5.33
NNW	5.63	0	0	0	0	5.63
Summary	100	0	0	0	0	100



PRAMP-202206

Page 219 of 276

% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

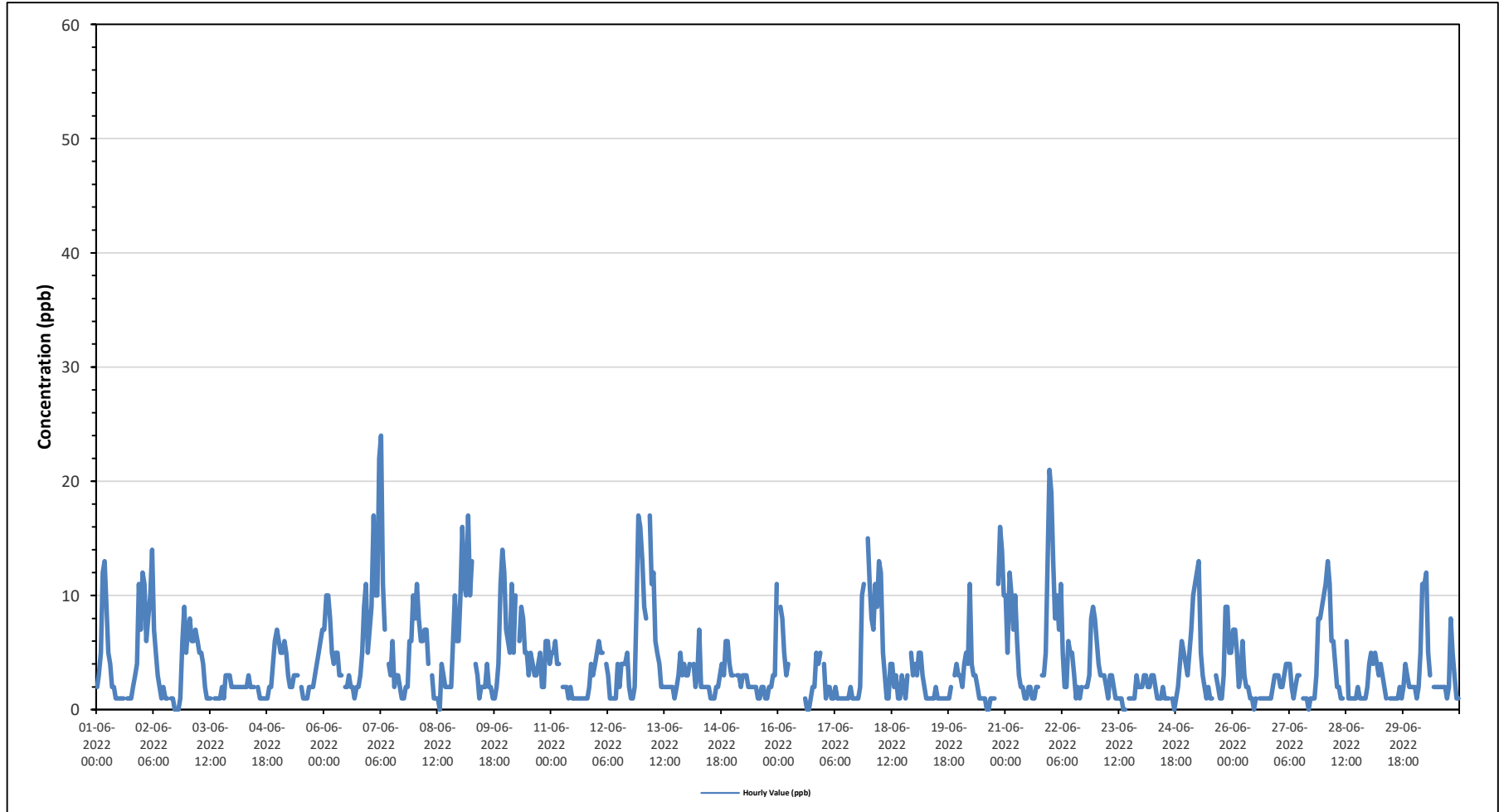
Maximum Hourly Value:	24 ppb on June 7 at hour 6	Hours in Service:	720
Maximum Daily Value:	7.3 ppb on June 7	Hours of Data:	681
Minimum Hourly Value:	0 ppb on June 2 at hour 17	Hours of Missing Data:	0
Minimum Daily Value:	2.0 ppb on June 23	Hours of Calibration:	39
Monthly Average:	3.9 ppb	Operational Uptime:	100.0

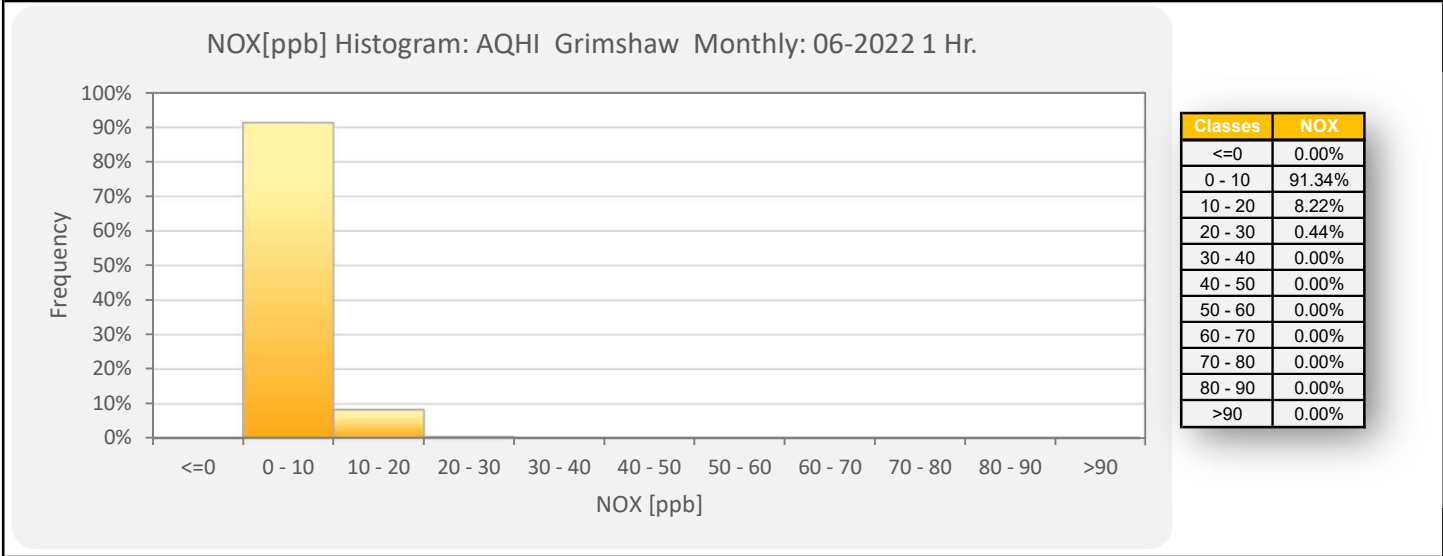
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2	3	5	12	13	9	5	4	2	2	1	1	1	1	1	S	1	1	1	2	3	4	11	7	1	13	4.0	
Jun 2	12	11	6	8	10	14	7	5	3	2	1	2	1	1	S	1	1	0	0	0	1	6	9	5	0	14	4.6	
Jun 3	7	8	6	6	7	6	5	5	4	2	1	1	1	S	1	1	1	2	1	3	3	3	2	1	8	3.3		
Jun 4	2	2	2	2	2	2	2	2	3	2	2	2	S	2	1	1	1	1	1	2	2	4	6	7	1	7	2.3	
Jun 5	6	5	5	6	5	3	2	2	3	3	3	S	2	1	1	1	2	2	2	3	4	5	6	7	1	7	3.4	
Jun 6	7	10	10	8	5	4	5	5	3	3	S	2	2	3	2	2	1	2	2	3	5	9	11	5	1	11	4.7	
Jun 7	7	9	17	10	10	22	24	11	7	S	4	3	6	2	3	3	2	1	1	2	2	6	6	10	1	24	7.3	
Jun 8	8	11	8	6	6	7	7	4	S	3	1	1	1	0	4	3	2	2	2	2	6	10	6	6	0	11	4.6	
Jun 9	10	16	11	10	17	10	13	S	4	3	1	2	2	4	2	2	1	1	2	4	11	14	12	1	17	6.7		
Jun 10	7	6	5	11	5	10	S	6	9	8	5	5	3	5	4	3	3	4	5	2	2	6	6	4	2	11	5.4	
Jun 11	5	5	6	4	4	S	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	4	3	4	1	6	2.4	
Jun 12	5	6	5	5	S	4	3	1	1	1	1	4	2	4	4	5	2	1	1	2	9	17	16	1	17	4.5		
Jun 13	13	9	8	S	17	11	12	6	5	4	2	2	2	2	2	2	1	2	3	5	3	4	3	1	17	5.2		
Jun 14	3	4	S	4	2	3	7	2	2	2	2	2	1	1	1	2	2	3	4	3	6	6	4	3	1	7	3.0	
Jun 15	3	S	3	3	2	3	3	2	2	2	2	2	1	1	2	2	1	1	2	2	3	3	11	1	11	2.6		
Jun 16	S	9	8	5	3	4	C	C	C	C	C	C	C	C	1	0	0	1	2	2	5	4	5	S	0	9	-	
Jun 17	4	1	2	2	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	2	10	11	S	15	1	15	2.8	
Jun 18	11	8	7	11	9	13	12	5	3	1	1	4	4	2	3	1	1	3	2	1	3	S	5	3	1	13	4.9	
Jun 19	4	3	5	5	3	2	1	1	1	1	2	1	1	1	1	1	1	1	1	2	S	3	4	3	1	5	2.1	
Jun 20	3	2	4	5	4	11	4	3	3	2	1	1	1	1	0	0	1	1	1	S	11	16	14	10	0	16	4.3	
Jun 21	10	5	12	10	7	10	6	3	2	2	1	1	2	2	1	1	2	2	S	3	3	5	13	21	1	21	5.4	
Jun 22	19	13	8	10	7	11	5	2	2	6	5	5	3	1	2	1	2	S	2	2	3	8	9	8	1	19	5.8	
Jun 23	6	4	3	3	3	2	1	3	3	2	1	1	1	1	0	0	S	1	1	1	1	3	2	2	0	6	2.0	
Jun 24	2	3	3	2	2	3	3	2	1	1	1	2	1	1	1	S	1	0	1	2	4	6	5	4	0	6	2.2	
Jun 25	3	5	7	10	11	12	13	5	3	2	1	2	1	1	S	3	2	1	1	3	9	9	5	5	1	13	5.0	
Jun 26	7	7	5	2	3	6	3	2	2	1	1	0	1	S	1	1	1	1	1	1	1	2	3	3	0	7	2.4	
Jun 27	3	2	2	3	4	4	4	2	1	2	3	3	S	1	1	1	0	1	1	1	3	8	8	9	0	9	2.9	
Jun 28	10	11	13	11	6	6	4	2	2	1	1	S	6	1	1	1	1	1	2	1	1	1	1	2	1	13	3.7	
Jun 29	4	5	4	5	4	3	4	3	2	1	S	1	1	1	1	2	1	2	4	3	2	2	2	2	1	5	2.5	
Jun 30	2	1	2	5	11	11	12	5	3	S	2	2	2	2	2	2	2	2	1	2	8	5	3	1	1	1	12	3.8
Diurnal Maximum	19	16	17	12	17	22	24	11	9	8	5	6	5	4	4	5	4	5	8	11	16	17	21					
Diurnal Average	6.4	6.3	6.3	6.3	6.3	7.1	6.1	3.5	2.8	2.3	1.8	2.0	1.9	1.6	1.7	1.5	1.6	1.3	1.6	2.1	3.8	5.9	6.4	6.6				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

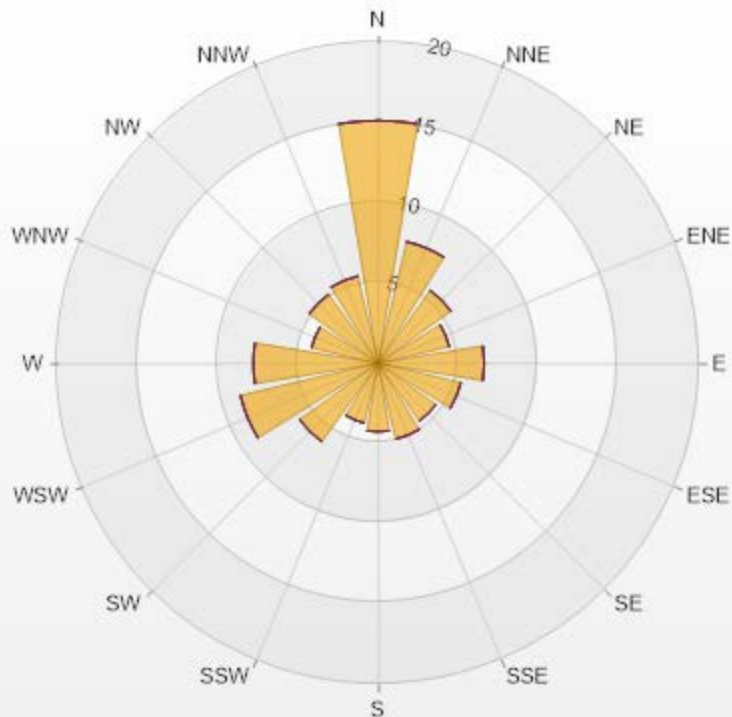
Timeseries Chart of Hourly Average for NOx - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	15.12	0	0	0	0	15.12
NNE	7.78	0	0	0	0	7.78
NE	5.58	0	0	0	0	5.58
ENE	4.55	0	0	0	0	4.55
E	6.61	0	0	0	0	6.61
ESE	5.29	0	0	0	0	5.29
SE	4.41	0	0	0	0	4.41
SSE	4.85	0	0	0	0	4.85
S	4.26	0	0	0	0	4.26
SSW	3.82	0	0	0	0	3.82
SW	6.02	0	0	0	0	6.02
WSW	8.81	0	0	0	0	8.81
W	7.78	0	0	0	0	7.78
WNW	4.26	0	0	0	0	4.26
NW	5.29	0	0	0	0	5.29
NNW	5.58	0	0	0	0	5.58
Summary	100	0	0	0	0	100



PRAMP-202206

Page 224 of 276

% Icon Classes (ppb)

100  0-30

0  30-50

0  50-76

0  76-159

0  >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

Maximum Hourly Value:	8 ppb on June 7 at hour 5	Hours in Service:	720
Maximum Daily Value:	1.7 ppb on June 10	Hours of Data:	681
Minimum Hourly Value:	0 ppb on June 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 ppb on June 26	Hours of Calibration:	39
Monthly Average:	0.5 ppb	Operational Uptime:	100.0

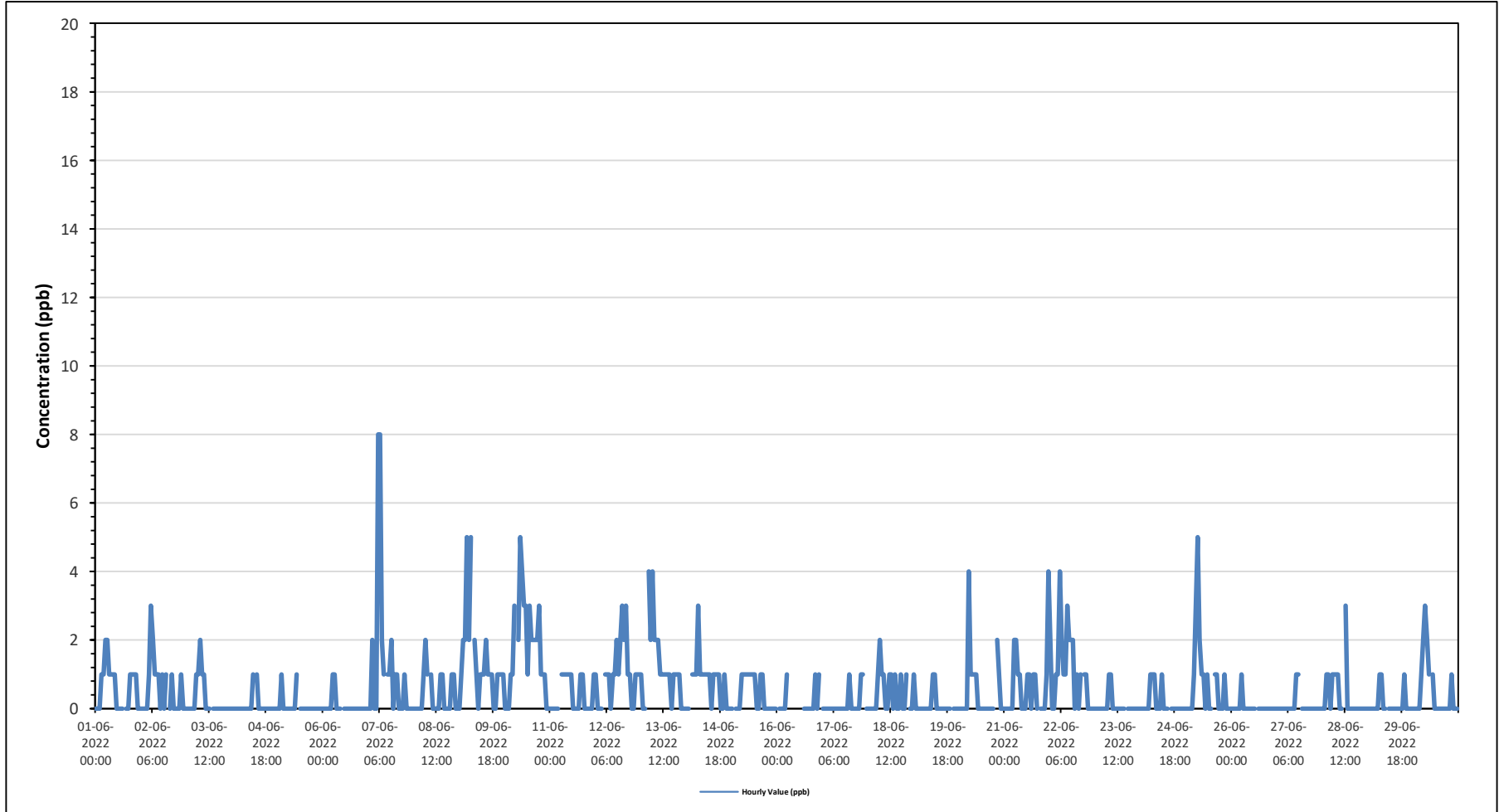
Day	Hourly Period Starting at (MST)																							Daily				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average	
Jun 1	0	0	0	1	1	2	2	1	1	1	1	0	0	0	S	0	0	1	1	1	1	0	0	0	0	0	2	0.6
Jun 2	0	0	0	0	1	3	2	1	1	1	0	1	0	1	S	0	1	0	0	0	0	1	0	0	0	0	3	0.6
Jun 3	0	0	0	0	0	1	1	2	1	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Jun 4	0	0	0	0	0	0	0	0	0	0	0	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jun 5	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jun 6	0	0	0	0	0	1	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jun 7	0	0	2	0	0	8	8	2	1	S	1	1	2	0	1	1	0	0	0	1	0	0	0	0	0	8	1.2	
Jun 8	0	0	0	0	0	1	2	1	S	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	2	0.4	
Jun 9	0	1	2	2	5	2	5	S	2	1	0	1	1	1	2	1	1	1	0	0	1	1	1	1	1	0	5	1.4
Jun 10	0	0	0	1	1	3	S	2	5	4	3	3	1	3	2	2	2	2	3	1	1	1	0	0	0	5	1.7	
Jun 11	0	0	0	0	0	S	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	1	0	1	0.4	
Jun 12	1	0	0	0	S	1	1	1	0	1	1	2	1	2	3	2	3	1	1	0	0	1	1	1	1	0	3	1.0
Jun 13	1	0	0	S	4	2	4	2	2	2	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	4	1.2	
Jun 14	0	0	S	1	1	1	3	1	1	1	1	1	1	0	1	1	1	1	0	0	1	0	0	0	0	3	0.7	
Jun 15	0	S	0	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0.4	
Jun 16	S	0	0	0	0	1	C	C	C	C	C	C	C	C	0	0	0	0	0	0	1	0	0	1	0	1	-	
Jun 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	S	0	0	1	0.1	
Jun 18	0	0	0	0	0	1	2	1	1	0	0	1	1	0	1	0	0	1	0	0	1	S	0	0	0	2	0.4	
Jun 19	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	S	S	0	0	0	1	0.1	
Jun 20	0	0	0	0	0	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	S	2	1	0	0	0	4	0.5
Jun 21	0	0	0	0	0	2	2	1	1	0	0	0	1	1	0	1	1	0	S	1	0	0	1	4	0	4	0.7	
Jun 22	2	0	0	1	1	4	2	1	1	3	2	2	2	0	1	0	1	S	1	1	0	0	0	0	0	0	4	1.1
Jun 23	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.1
Jun 24	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.2
Jun 25	0	0	0	0	1	3	5	2	1	1	0	1	0	0	S	1	1	0	0	0	1	0	0	0	0	0	5	0.7
Jun 26	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jun 27	0	0	0	0	0	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jun 28	0	0	1	1	0	1	1	1	1	0	0	S	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.4
Jun 29	0	0	0	0	0	1	1	1	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.1
Jun 30	0	0	0	0	1	2	3	2	1	S	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0.5
Diurnal Maximum	2	1	2	2	5	8	8	2	5	4	3	3	3	3	3	2	3	2	3	1	2	1	1	4				
Diurnal Average	0.2	0.0	0.2	0.2	0.6	1.6	1.8	1.0	0.9	0.7	0.6	0.7	0.6	0.4	0.5	0.4	0.4	0.3	0.2	0.2	0.4	0.3	0.1	0.2				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

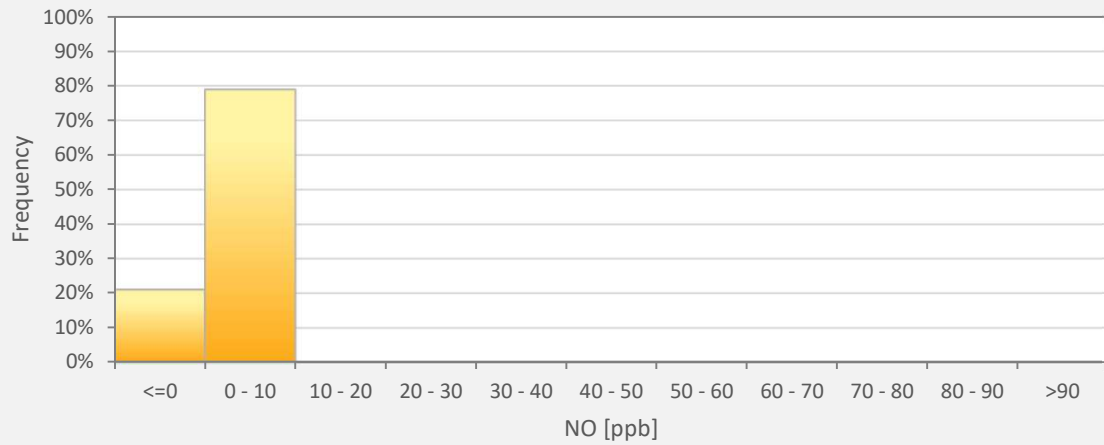
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for NO - AQHI - Grimshaw Station



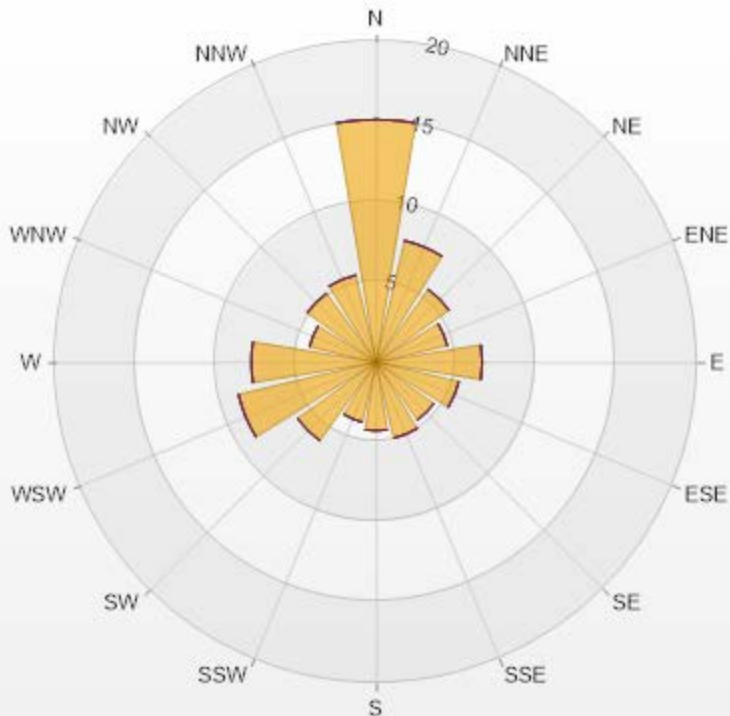
NO[ppb] Histogram: AQHI Grimshaw Monthly: 06-2022 1 Hr.



Classes	NO
<=0	21.00%
0 - 10	79.00%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	15.12	0	0	0	0	15.12
NNE	7.78	0	0	0	0	7.78
NE	5.58	0	0	0	0	5.58
ENE	4.55	0	0	0	0	4.55
E	6.61	0	0	0	0	6.61
ESE	5.29	0	0	0	0	5.29
SE	4.41	0	0	0	0	4.41
SSE	4.85	0	0	0	0	4.85
S	4.26	0	0	0	0	4.26
SSW	3.82	0	0	0	0	3.82
SW	6.02	0	0	0	0	6.02
WSW	8.81	0	0	0	0	8.81
W	7.78	0	0	0	0	7.78
WNW	4.26	0	0	0	0	4.26
NW	5.29	0	0	0	0	5.29
NNW	5.58	0	0	0	0	5.58
Summary	100	0	0	0	0	100



PRAMP-202206

Page 229 of 276

% Icon Classes (ppb)

100  0-30

0  30-50

0  50-76

0  76-159

0  >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

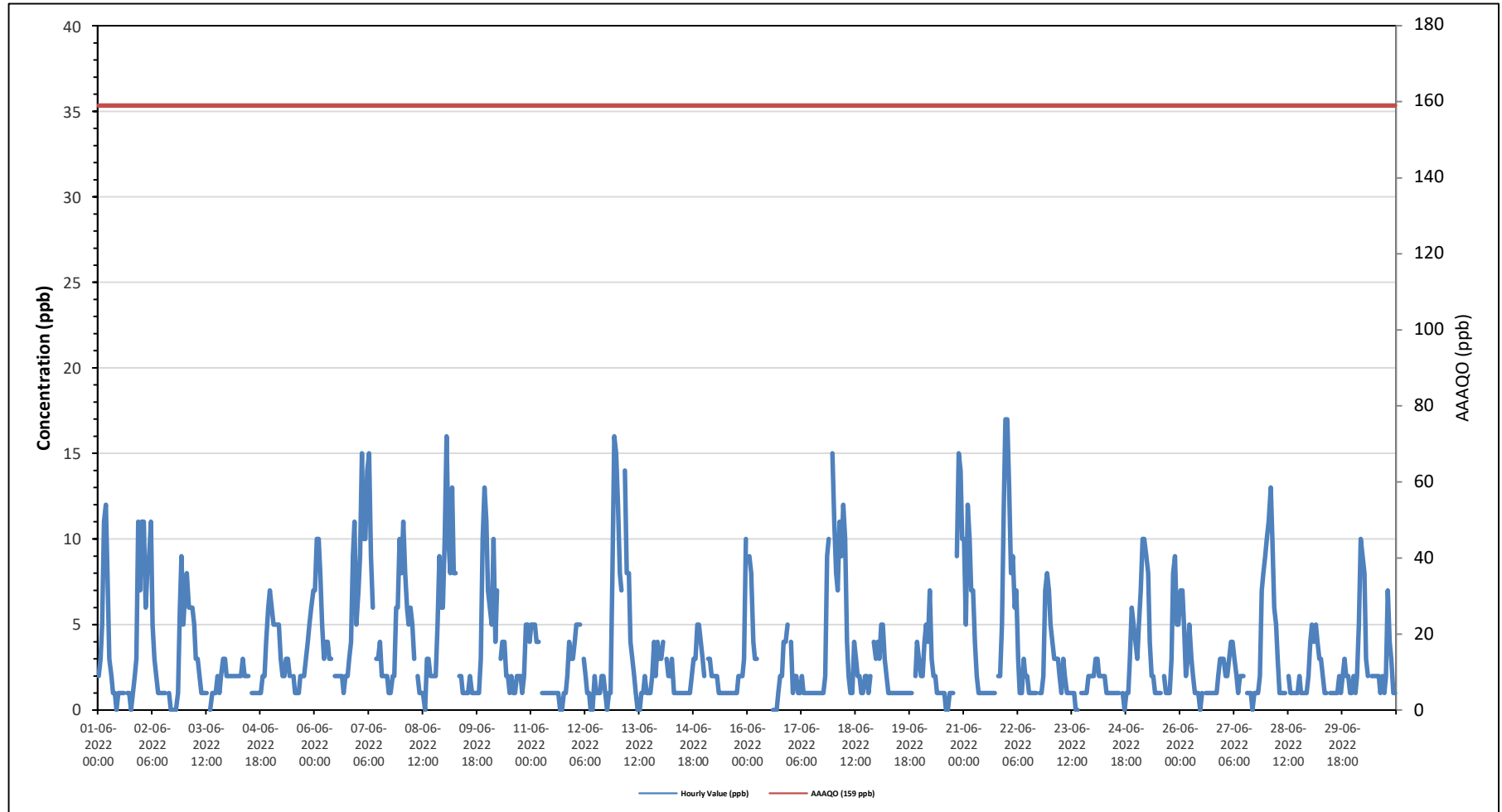
NITROGEN DIOXIDE (NO₂) in ppb

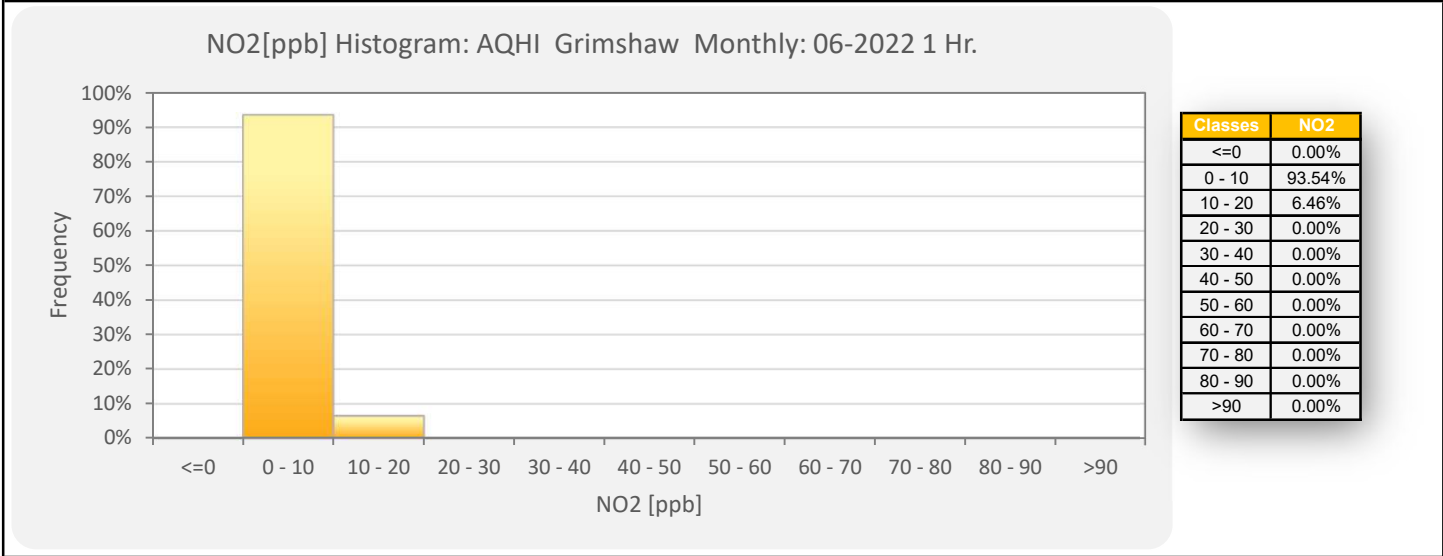
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 159 ppb																																															
Number of 1-Hour Exceedances: 0																																															
Maximum Hourly Value: 17 ppb on June 21 at hour 23												Hours in Service: 720																																			
Maximum Daily Value: 6.1 ppb on June 7												Hours of Data: 681																																			
Minimum Hourly Value: 0 ppb on June 1 at hour 10												Hours of Missing Data: 0																																			
Minimum Daily Value: 1.8 ppb on June 23												Hours of Calibration: 39																																			
Monthly Average: 3.3 ppb												Operational Uptime: 100.0																																			
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average																					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																							
Jun 1	2	3	5	11	12	8	3	2	1	1	0	1	1	1	1	S	1	1	0	1	2	3	11	7	0	12	3.4																				
Jun 2	11	11	6	8	9	11	5	3	2	1	1	1	1	1	S	1	0	0	0	0	1	6	9	5	0	11	4.0																				
Jun 3	7	8	6	6	6	5	3	3	2	1	1	1	1	S	0	1	1	1	2	1	2	3	3	2	0	8	2.9																				
Jun 4	2	2	2	2	2	2	2	2	3	2	2	2	S	1	1	1	1	1	2	2	4	6	7	1	7	2.3																					
Jun 5	6	5	5	5	5	3	2	2	3	3	2	S	2	1	1	1	2	2	2	3	4	5	6	7	1	7	3.3																				
Jun 6	7	10	10	8	5	3	4	4	3	3	S	2	2	2	2	2	1	2	2	3	4	9	11	5	1	11	4.5																				
Jun 7	7	9	15	10	10	14	15	9	6	S	3	3	4	2	2	2	2	1	2	2	2	6	6	10	1	15	6.1																				
Jun 8	8	11	8	6	5	6	5	3	S	2	1	1	1	0	3	3	2	2	2	2	5	9	6	6	0	11	4.2																				
Jun 9	10	16	10	8	13	8	8	S	2	2	1	1	1	1	2	1	1	1	1	1	3	10	13	11	1	16	5.4																				
Jun 10	7	6	5	10	4	7	S	3	4	4	2	2	1	2	1	1	2	2	2	1	2	5	5	4	1	10	3.6																				
Jun 11	5	5	5	4	4	S	1	1	1	1	1	1	1	1	1	1	0	0	1	1	2	4	3	3	0	5	2.0																				
Jun 12	4	5	5	5	S	3	2	1	1	0	0	2	1	1	1	2	2	1	0	1	1	8	16	15	0	16	3.3																				
Jun 13	12	8	7	S	14	8	8	4	3	2	1	0	0	1	1	2	1	1	1	2	4	2	4	3	0	14	3.9																				
Jun 14	3	4	S	3	2	2	3	1	1	1	1	1	1	1	1	1	1	2	3	3	5	5	4	3	1	5	2.3																				
Jun 15	2	S	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	10	1	10	2.0																				
Jun 16	S	9	8	4	3	3	C	C	C	C	C	C	C	C	0	0	0	1	2	2	4	4	5	S	0	9	-																				
Jun 17	4	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	9	10	S	15	1	15	2.7																				
Jun 18	11	8	7	11	9	12	10	4	2	1	1	4	3	2	2	1	1	2	2	1	2	S	4	3	1	12	4.5																				
Jun 19	4	3	5	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	2	4	3	1	5	2.0																				
Jun 20	2	2	4	5	4	7	3	2	2	1	1	1	1	1	0	0	1	1	1	S	9	15	14	10	0	15	3.8																				
Jun 21	10	5	12	10	7	7	4	2	1	1	1	1	1	1	1	1	1	1	S	2	2	5	12	17	1	17	4.6																				
Jun 22	17	13	8	9	6	7	3	1	1	3	2	2	1	1	1	1	1	S	1	1	2	7	8	7	1	17	4.5																				
Jun 23	5	4	3	3	3	2	1	3	2	1	1	1	1	1	0	0	S	1	1	1	1	2	2	2	0	5	1.8																				
Jun 24	2	3	3	2	2	2	2	1	1	1	1	1	1	1	1	S	1	0	1	1	3	6	5	4	0	6	2.0																				
Jun 25	3	5	7	10	10	9	8	4	2	2	1	1	1	1	S	2	1	1	1	3	8	9	5	5	1	10	4.3																				
Jun 26	7	7	5	2	3	5	3	2	1	1	0	1	S	1	1	1	1	1	1	1	1	2	3	3	0	7	2.3																				
Jun 27	3	2	2	3	4	4	3	2	1	2	2	2	S	1	1	1	0	1	1	1	2	7	8	9	0	9	2.7																				
Jun 28	10	11	13	10	6	5	3	1	1	1	1	S	2	1	1	1	1	1	2	1	1	1	1	2	1	13	3.3																				
Jun 29	4	5	4	5	4	3	3	2	1	1	S	1	1	1	1	1	2	1	2	3	2	1	1	1	1	5	2.2																				
Jun 30	2	1	2	5	10	9	8	3	2	S	2	2	2	2	2	1	2	1	2	7	4	3	1	1	1	10	3.2																				
Diurnal Maximum	17	16	15	11	14	14	15	9	6	4	3	4	4	2	3	3	2	2	3	7	9	15	16	17																							
Diurnal Average	6.1	6.3	6.1	6.0	5.8	5.5	4.2	2.5	1.9	1.5	1.2	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.3	1.8	3.1	5.4	6.2	6.2																							
C	Monthly Calibration											S	Daily Zero-Span Check											Q	Quality Assurance																						
K	Collection Error											N	No Data (Machine Not in Service)											Y	Routine Maintenance											P	Power Failure										
X	InValid Data (Equipment Malfunction/Recovery)											NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																		

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

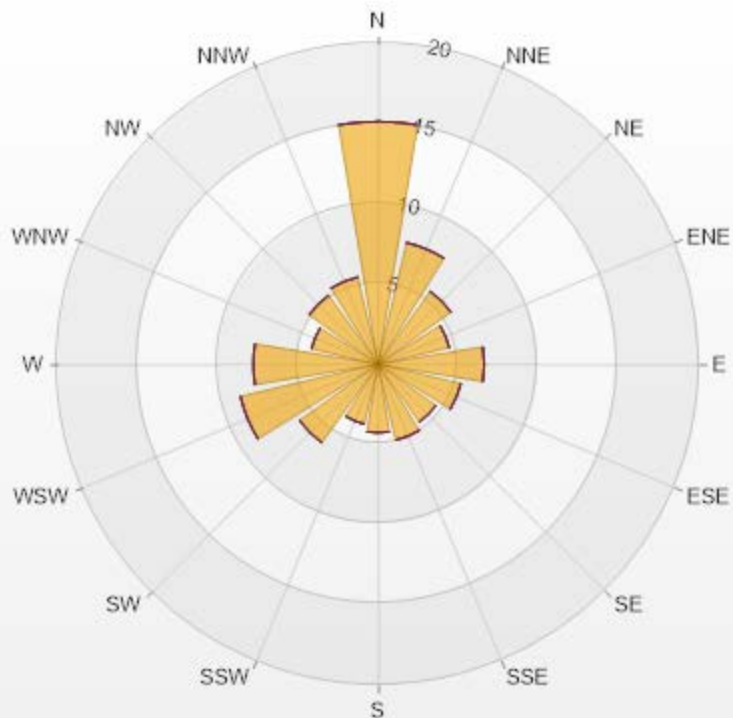
Timeseries Chart of Hourly Average for NO2 - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	15.12	0	0	0	0	15.12
NNE	7.78	0	0	0	0	7.78
NE	5.58	0	0	0	0	5.58
ENE	4.55	0	0	0	0	4.55
E	6.61	0	0	0	0	6.61
ESE	5.29	0	0	0	0	5.29
SE	4.41	0	0	0	0	4.41
SSE	4.85	0	0	0	0	4.85
S	4.26	0	0	0	0	4.26
SSW	3.82	0	0	0	0	3.82
SW	6.02	0	0	0	0	6.02
WSW	8.81	0	0	0	0	8.81
W	7.78	0	0	0	0	7.78
WNW	4.26	0	0	0	0	4.26
NW	5.29	0	0	0	0	5.29
NNW	5.58	0	0	0	0	5.58
Summary	100	0	0	0	0	100



PRAMP-202206

Page 234 of 276

% Icon Classes (ppb)

100  0-30

0  30-50

0  50-76

0  76-159

0  >159.0



PEACE RIVER AREA MONITORING PROGRAM

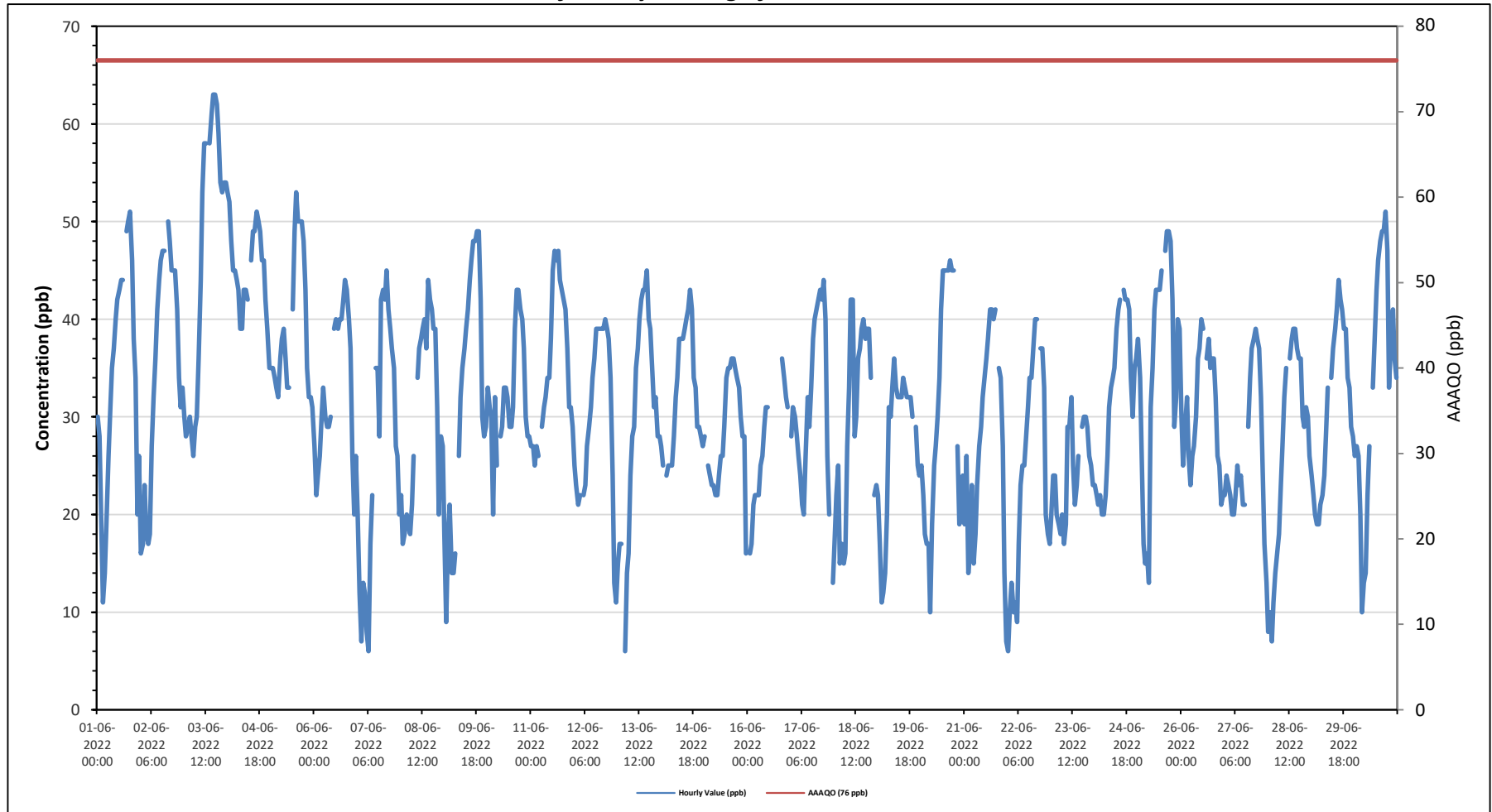
AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

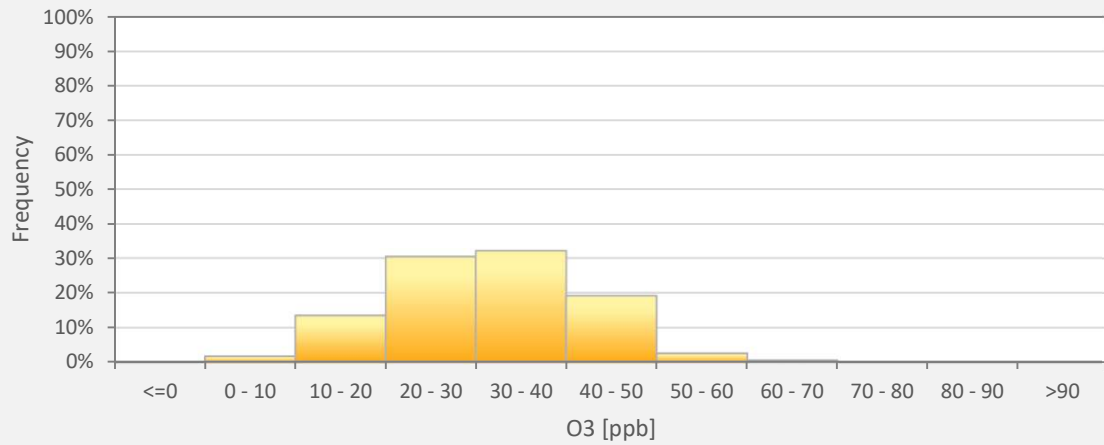
OZONE (O₃) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 76 ppb																																																															
Number of 1-Hour Exceedances: 0																																																															
Maximum Hourly Value: 63 ppb on June 3 at hour 16																Hours in Service: 720																																															
Maximum Daily Value: 46.1 ppb on June 3																Hours of Data: 682																																															
Minimum Hourly Value: 6 ppb on June 7 at hour 6																Hours of Missing Data: 0																																															
Minimum Daily Value: 24.1 ppb on June 22																Hours of Calibration: 38																																															
Monthly Average: 31.5 ppb																Operational Uptime: 100.0																																															
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average																																				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																																							
Jun 1	30	28	20	11	14	19	26	31	35	37	40	42	43	44	44	S	49	50	51	46	38	34	20	26	11	51	33.8																																				
Jun 2	16	17	23	18	17	18	27	32	36	41	44	46	47	47	S	50	48	45	45	45	41	34	31	33	16	50	34.8																																				
Jun 3	30	28	29	30	28	26	29	30	36	44	53	58	58	S	58	61	63	63	62	59	54	53	54	54	26	63	46.1																																				
Jun 4	53	52	48	45	45	44	43	39	39	43	43	42	S	46	49	49	51	50	49	46	46	42	39	35	35	53	45.1																																				
Jun 5	35	35	34	33	32	36	38	39	36	33	S	41	49	53	50	50	50	48	43	35	32	32	31	31	53	39.0																																					
Jun 6	27	22	24	26	30	33	30	29	29	30	S	39	40	39	40	40	42	44	43	40	37	26	20	26	20	44	32.9																																				
Jun 7	20	12	7	13	12	8	6	17	22	S	35	35	28	42	43	42	45	41	39	37	35	27	26	20	6	45	26.6																																				
Jun 8	22	17	18	20	19	18	21	26	S	34	37	38	39	40	37	44	42	41	39	39	31	20	28	27	17	44	30.3																																				
Jun 9	18	9	18	21	14	14	16	S	26	32	35	37	39	41	44	46	48	48	49	49	42	30	28	29	9	49	31.9																																				
Jun 10	33	31	30	20	32	25	S	28	29	33	33	32	29	29	31	39	43	43	41	40	37	30	28	28	20	43	32.3																																				
Jun 11	27	27	25	27	26	S	29	31	32	34	34	38	45	47	46	47	44	43	42	41	37	31	31	29	25	47	35.3																																				
Jun 12	25	23	21	22	S	22	23	27	29	31	34	36	39	39	39	39	39	40	39	38	34	24	13	11	11	40	29.9																																				
Jun 13	15	17	17	S	6	14	16	24	28	29	35	37	40	42	43	43	45	40	39	35	31	32	28	28	6	45	29.7																																				
Jun 14	27	25	S	24	25	25	25	28	32	34	38	38	38	39	40	41	43	41	34	33	29	29	28	27	24	43	32.3																																				
Jun 15	28	S	25	24	23	23	22	22	24	26	26	29	34	35	35	36	36	35	34	33	30	28	28	16	16	36	28.3																																				
Jun 16	S	16	17	21	22	22	22	25	26	29	31	31	C	C	C	C	C	C	C	36	34	32	31	S	16	36	-																																				
Jun 17	28	31	30	28	26	24	21	20	26	32	29	33	38	40	41	42	43	42	44	40	26	20	S	13	13	44	31.2																																				
Jun 18	17	22	25	15	17	15	16	27	33	42	42	28	30	36	37	39	40	38	39	39	34	S	22	23	15	42	29.4																																				
Jun 19	22	17	11	12	14	20	31	30	33	36	33	32	32	34	33	32	32	32	30	S	29	25	24	11	36	27.2																																					
Jun 20	25	22	18	17	17	10	19	25	27	30	34	41	45	45	45	45	46	45	45	S	27	19	20	24	10	46	30.0																																				
Jun 21	19	26	14	17	23	15	18	23	27	29	32	34	36	38	41	41	40	41	S	35	34	27	14	7	7	41	27.4																																				
Jun 22	6	10	13	10	11	9	17	23	25	25	28	31	34	34	37	40	40	S	37	37	33	20	18	17	6	40	24.1																																				
Jun 23	20	24	24	20	19	18	20	17	19	29	29	32	25	21	23	26	S	29	30	30	29	26	25	23	17	32	24.3																																				
Jun 24	23	22	21	22	20	20	22	26	31	33	34	35	39	41	42	S	43	42	42	41	34	30	35	36	20	43	31.9																																				
Jun 25	38	34	26	17	15	16	13	31	35	41	43	43	43	45	S	47	49	49	48	42	29	32	40	39	13	49	35.4																																				
Jun 26	30	25	29	32	26	23	26	27	30	36	37	40	39	S	36	38	35	36	36	32	26	25	21	22	21	40	30.7																																				
Jun 27	22	24	23	22	20	20	22	25	23	24	21	21	S	29	34	37	38	39	38	37	32	25	17	13	13	39	26.3																																				
Jun 28	8	10	7	11	14	16	18	23	27	32	35	S	36	38	39	39	37	36	36	30	29	31	30	26	7	39	26.4																																				
Jun 29	24	22	20	19	19	21	22	24	28	33	S	34	37	39	41	44	42	41	39	39	34	33	29	28	19	44	31.0																																				
Jun 30	26	27	26	20	10	13	14	22	27	S	33	38	43	46	48	49	49	51	47	33	38	41	36	34	10	51	33.5																																				
Diurnal Maximum	53	52	48	45	45	44	43	39	39	44	53	58	58	49	58	61	63	63	62	59	54	53	54	54																																							
Diurnal Average	24.6	23.3	22.2	21.3	20.6	20.2	22.5	26.6	29.3	33.3	35.0	36.4	38.4	39.4	40.7	42.5	43.6	42.7	41.7	38.8	34.3	29.7	27.5	25.8																																							
C	Monthly Calibration															S	Daily Zero-Span Check															Q	Quality Assurance																														
K	Collection Error															N	No Data (Machine Not in Service)															Y	Routine Maintenance															P	Power Failure														
X	Invalid Data (Equipment Malfunction /Recovery)															NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																														
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																																															

Timeseries Chart of Hourly Average for O3 - AQHI - Grimshaw Station



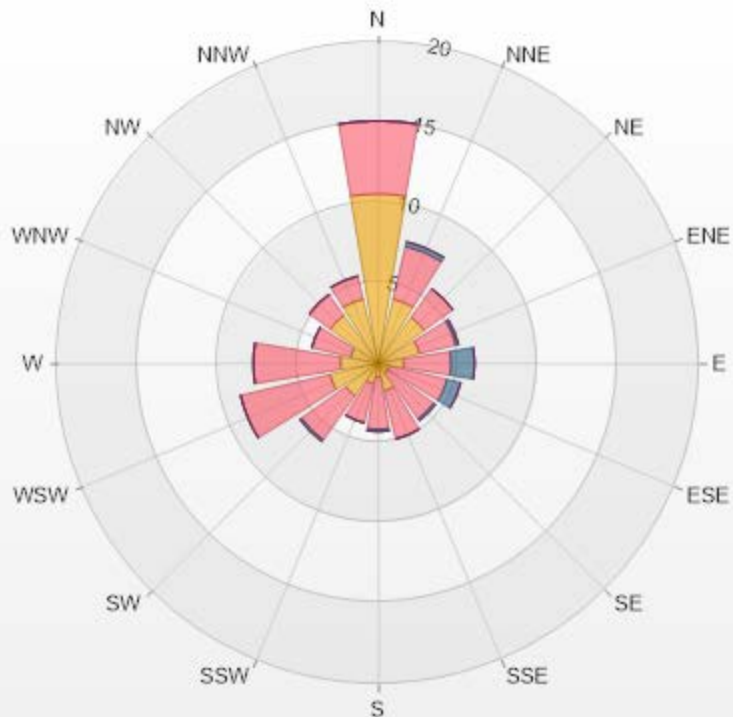
O3[ppb] Histogram: AQHI Grimshaw Monthly: 06-2022 1 Hr.



Classes	O3
<=0	0.00%
0 - 10	1.76%
10 - 20	13.49%
20 - 30	30.35%
30 - 40	32.11%
40 - 50	19.06%
50 - 60	2.64%
60 - 70	0.59%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	10.56	4.55	0	0	0	15.11
NNE	4.11	3.37	0.29	0	0	7.77
NE	3.52	2.2	0	0	0	5.72
ENE	2.64	2.35	0.15	0	0	5.14
E	1.61	2.93	1.47	0	0	6.01
ESE	0.73	3.67	0.88	0	0	5.28
SE	0.73	3.52	0.15	0	0	4.4
SSE	1.76	3.08	0	0	0	4.84
S	0.88	3.23	0.15	0	0	4.26
SSW	1.32	2.49	0	0	0	3.81
SW	2.49	3.37	0.15	0	0	6.01
WSW	3.08	5.72	0	0	0	8.8
W	2.35	5.43	0	0	0	7.78
WNW	1.76	2.49	0	0	0	4.25
NW	3.67	1.61	0	0	0	5.28
NNW	4.11	1.47	0	0	0	5.58
Summary	45.32	51.48	3.24	0	0	100



PRAMP-202206

Page 239 of 276

% Icon Classes (ppb)

45 0-30

51 30-50

3 50-76

0 76-159

0 >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.55 ppm on June 1 at hour 3	Hours in Service:	720
Maximum Daily Value:	2.08 ppm on June 7	Hours of Data:	685
Minimum Hourly Value:	1.94 ppm on June 21 at hour 10	Hours of Missing Data:	0
Minimum Daily Value:	1.97 ppm on June 22	Hours of Calibration:	35
Monthly Average:	2.01 ppm	Operational Uptime:	100.0

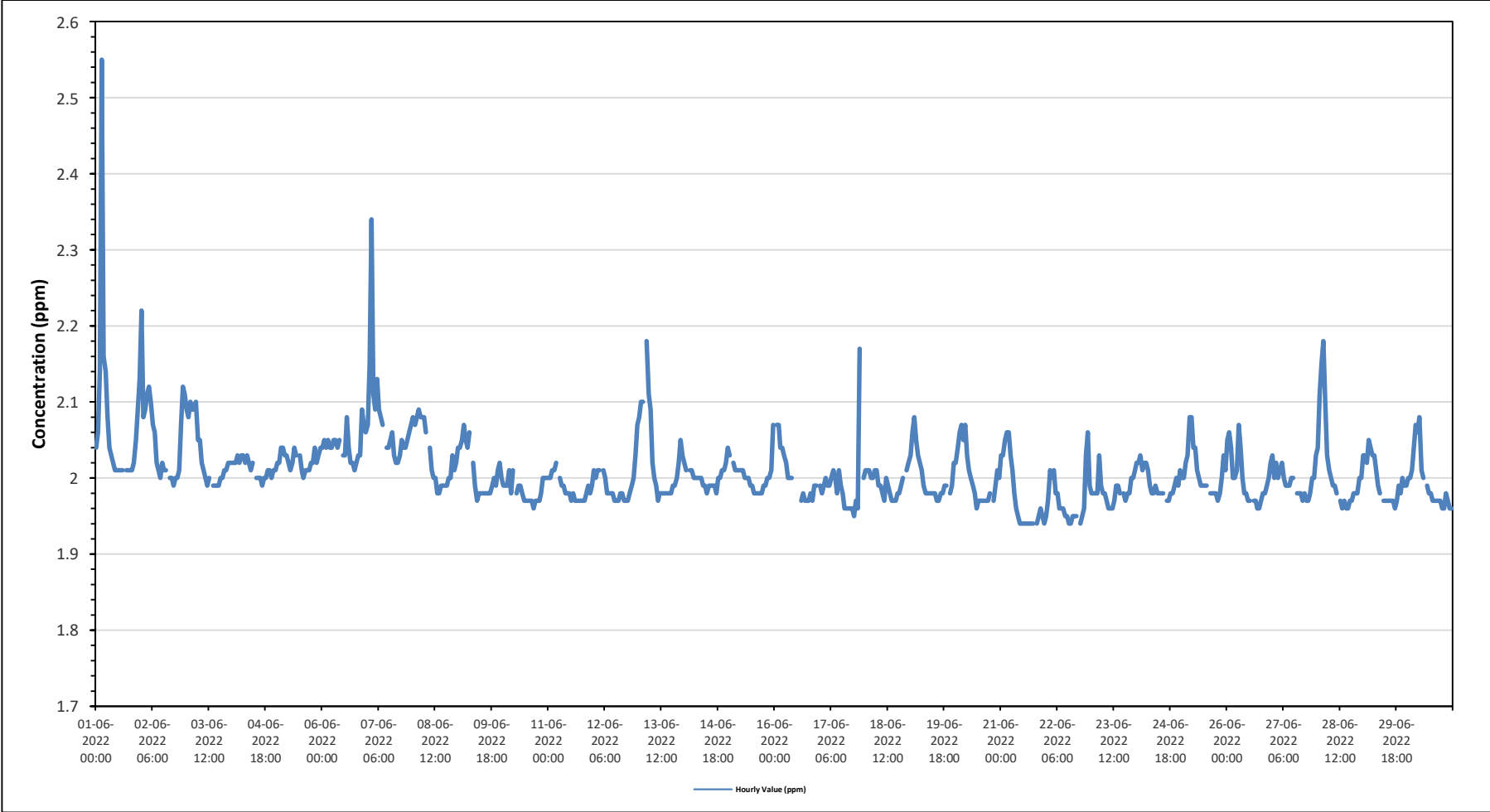
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	2.04	2.06	2.14	2.55	2.16	2.14	2.08	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.02	2.05	2.09	2.13	2.01	2.55	2.07	
Jun 2	2.22	2.08	2.09	2.11	2.12	2.10	2.07	2.06	2.02	2.01	2.00	2.02	2.01	2.01	S	2.00	2.00	1.99	2.00	2.00	2.01	2.07	2.12	2.11	1.99	2.22	2.05	
Jun 3	2.09	2.08	2.10	2.09	2.09	2.10	2.05	2.05	2.02	2.01	2.00	1.99	2.00	S	1.99	1.99	1.99	2.00	2.00	2.01	2.01	2.02	2.02	1.99	2.10	2.03		
Jun 4	2.02	2.02	2.02	2.03	2.02	2.03	2.03	2.02	2.03	2.02	2.01	2.02	S	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.01	2.00	2.01	2.01	1.99	2.03	2.01	
Jun 5	2.02	2.02	2.04	2.04	2.03	2.03	2.02	2.01	2.02	2.04	2.03	S	2.03	2.01	2.00	2.01	2.01	2.02	2.02	2.04	2.02	2.03	2.04	2.00	2.04	2.02		
Jun 6	2.04	2.05	2.04	2.05	2.04	2.04	2.05	2.05	2.02	2.04	2.05	S	2.03	2.08	2.04	2.02	2.02	2.01	2.02	2.03	2.03	2.09	2.07	2.06	2.01	2.09	2.04	
Jun 7	2.07	2.15	2.34	2.11	2.09	2.13	2.09	2.08	2.07	S	2.04	2.04	2.05	2.06	2.03	2.02	2.02	2.03	2.05	2.04	2.05	2.06	2.07	2.02	2.34	2.08		
Jun 8	2.08	2.07	2.08	2.09	2.08	2.08	2.08	2.06	S	2.04	2.01	2.00	2.00	1.98	1.98	1.99	1.99	1.99	1.99	2.00	2.00	2.03	2.01	2.02	1.98	2.09	2.03	
Jun 9	2.04	2.04	2.05	2.07	2.05	2.04	2.06	S	2.02	1.99	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	1.99	2.01	2.02	2.00	1.97	2.07	2.01	
Jun 10	1.99	1.99	1.99	2.01	1.98	2.01	S	1.98	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.98	2.00	2.00	1.96	2.01	1.98		
Jun 11	2.00	2.00	2.01	2.01	2.02	S	2.00	1.99	1.99	1.98	1.98	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.98	1.97	2.02	1.99		
Jun 12	2.01	2.00	2.01	2.01	S	2.01	2.00	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.98	1.99	2.00	2.03	2.07	1.97	2.07	1.99		
Jun 13	2.08	2.10	2.10	S	2.18	2.11	2.09	2.02	2.00	1.99	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.02	2.05	2.03	1.97	2.18	2.03	
Jun 14	2.02	2.01	S	2.01	2.01	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.98	2.00	2.00	2.01	2.01	2.02	2.04	1.98	2.04	2.00	
Jun 15	2.03	S	2.02	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	C	C	C	C	1.97	1.98	1.97	1.97	1.98	1.98	1.99	2.00	2.01	2.07	1.98	2.07	2.00
Jun 16	S	2.07	2.07	2.04	2.04	2.03	2.02	2.00	2.00	2.00	C	C	C	C	1.97	1.98	1.97	1.97	1.98	1.97	1.99	1.99	1.99	S	1.97	2.07	2.00	
Jun 17	1.99	1.98	1.99	2.00	1.99	1.99	2.00	2.01	2.00	1.98	2.01	1.99	1.98	1.96	1.96	1.96	1.96	1.95	1.97	1.96	2.17	S	2.00	1.95	2.17	1.99		
Jun 18	2.01	2.01	2.01	2.00	2.00	2.01	2.01	1.99	1.99	1.98	1.97	2.00	1.99	1.98	1.97	1.97	1.97	1.98	1.98	1.99	2.00	S	2.01	2.02	1.97	2.02	1.99	
Jun 19	2.03	2.06	2.08	2.05	2.03	2.02	2.01	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.99	1.99	S	1.98	1.99	2.02	1.97	2.08	2.00	
Jun 20	2.02	2.04	2.06	2.07	2.05	2.07	2.03	2.01	2.00	1.99	1.98	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	S	1.97	1.99	2.01	2.00	1.96	2.07	2.00	
Jun 21	2.03	2.03	2.05	2.06	2.06	2.03	2.01	1.98	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.94	1.95	1.96	1.95	1.94	1.94	2.06	1.97	
Jun 22	1.95	1.97	2.01	2.00	2.01	1.98	1.98	1.96	1.96	1.95	1.95	1.95	1.94	1.94	1.95	1.95	S	1.94	1.95	1.96	2.03	2.06	1.99	1.94	2.06	1.97		
Jun 23	1.98	1.98	1.98	1.98	2.03	1.99	1.98	1.98	1.97	1.96	1.96	1.96	1.97	1.99	1.99	1.98	S	1.98	1.97	1.98	1.98	2.00	2.00	2.01	1.96	2.03	1.98	
Jun 24	2.02	2.02	2.03	2.01	2.02	2.02	2.01	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.98	S	1.97	1.97	1.98	1.98	1.99	2.00	1.99	2.01	1.97	2.03	1.99	
Jun 25	2.00	2.00	2.02	2.03	2.08	2.08	2.04	2.04	2.01	2.00	1.99	1.99	1.99	1.99	S	1.98	1.98	1.98	1.98	1.97	1.98	2.00	2.03	2.01	1.97	2.08	2.01	
Jun 26	2.05	2.06	2.04	2.00	2.00	2.01	2.07	2.04	2.00	1.98	1.98	1.97	S	1.97	1.97	1.96	1.96	1.97	1.98	1.98	1.99	2.00	2.02	1.96	2.07	2.00		
Jun 27	2.03	2.00	2.02	2.00	2.01	2.02	2.00	1.99	1.99	1.99	2.00	2.00	S	1.98	1.98	1.98	1.97	1.98	1.97	1.97	1.98	2.00	2.00	2.03	1.97	2.03	2.00	
Jun 28	2.04	2.11	2.15	2.18	2.10	2.03	2.01	2.00	1.99	1.99	1.98	S	1.97	1.96	1.97	1.96	1.96	1.97	1.97	1.98	1.98	2.00	2.00	1.96	2.18	2.01		
Jun 29	2.03	2.03	2.02	2.05	2.04	2.03	2.03	2.01	1.99	1.98	S	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.97	1.99	1.98	2.00	1.99	1.99	1.96	2.05	2.00	
Jun 30	2.00	2.00	2.01	2.04	2.07	2.06	2.08	2.01	2.00	S	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.98	1.97	1.96	1.96	1.96	1.96	2.08	1.99	
Diurnal Maximum	2.22	2.15	2.34	2.55	2.18	2.14	2.09	2.08	2.07	2.05	2.04	2.04	2.05	2.08	2.04	2.02	2.02	2.03	2.05	2.04	2.04	2.17	2.12	2.13				
Diurnal Average	2.03	2.04	2.05	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.01	2.02	2.02				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

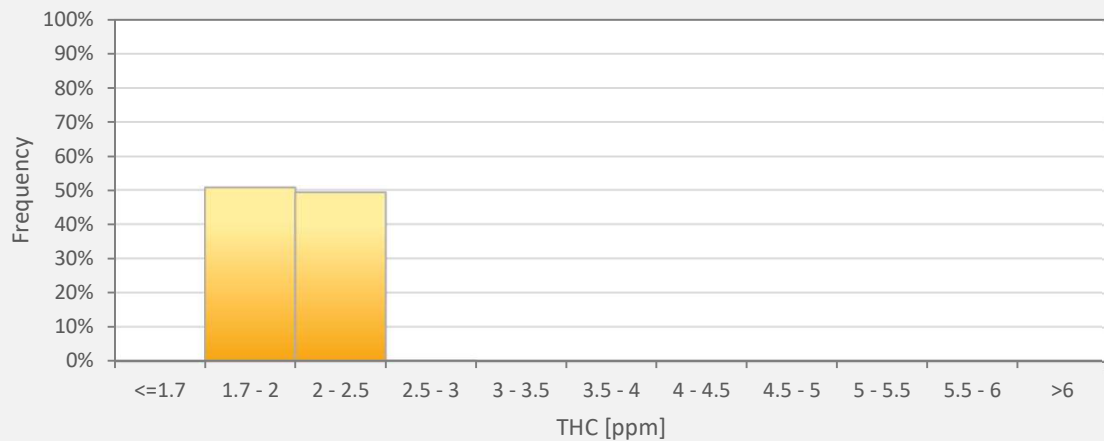
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for THC - AQHI - Grimshaw Station



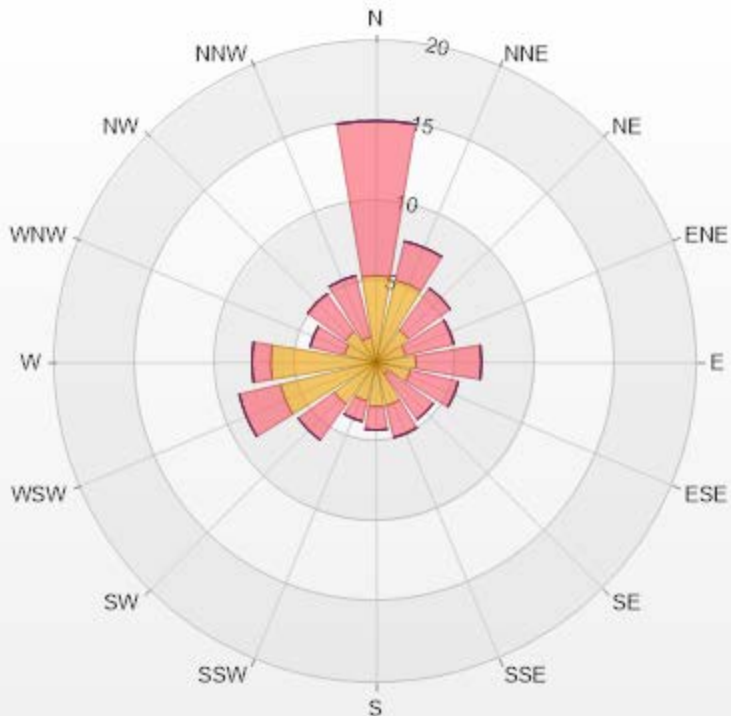
THC55[ppm] Histogram: AQHI Grimshaw Monthly: 06-2022 1 Hr.



Classes	THC55
<=1.7	0.00%
1.7 - 2	50.66%
2 - 2.5	49.20%
2.5 - 3	0.15%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	5.4	9.64	0	0	0	15.04
NNE	5.26	2.48	0	0	0	7.74
NE	2.48	3.21	0	0	0	5.69
ENE	1.9	3.07	0	0	0	4.97
E	2.48	4.09	0	0	0	6.57
ESE	2.19	3.07	0	0	0	5.26
SE	0.88	3.5	0	0	0	4.38
SSE	2.77	2.04	0	0	0	4.81
S	2.77	1.46	0	0	0	4.23
SSW	2.48	1.31	0	0	0	3.79
SW	3.21	2.77	0	0	0	5.98
WSW	6.13	2.63	0	0	0	8.76
W	6.57	1.17	0	0	0	7.74
WNW	2.04	2.19	0	0	0	4.23
NW	2.34	2.92	0	0	0	5.26
NNW	1.61	3.94	0	0	0	5.55
Summary	50.51	49.49	0	0	0	100



PRAMP-202206

Page 244 of 276

% Icon Classes (ppm)

51

0-2

49

2-5

0

5-10

0

10-40

0

>40.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

Maximum Hourly Value:	2.38 ppm on June 1 at hour 3	Hours in Service:	720
Maximum Daily Value:	2.07 ppm on June 7	Hours of Data:	685
Minimum Hourly Value:	1.94 ppm on June 21 at hour 10	Hours of Missing Data:	0
Minimum Daily Value:	1.97 ppm on June 22	Hours of Calibration:	35
Monthly Average:	2.01 ppm	Operational Uptime:	100.0

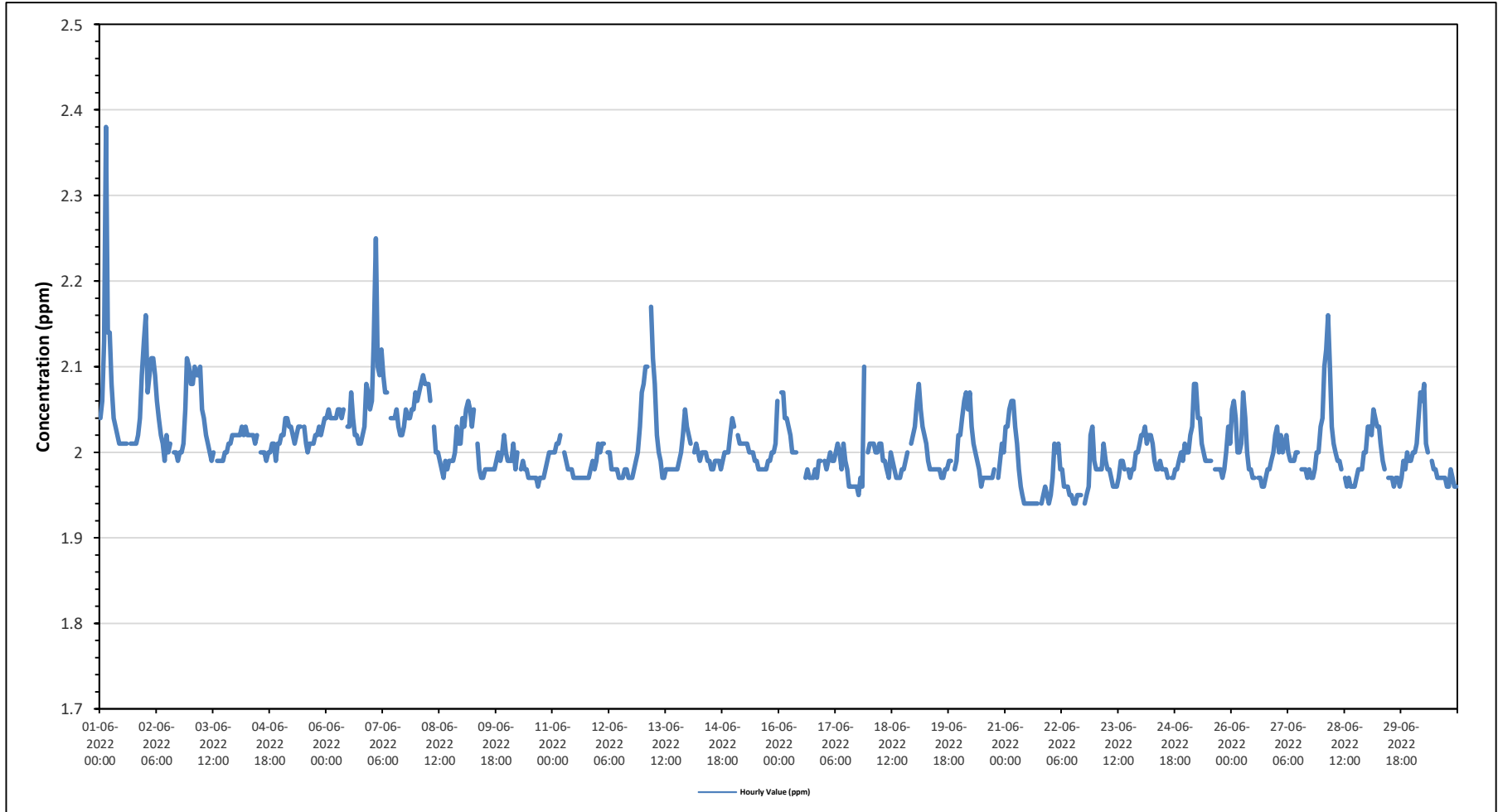
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	2.04	2.06	2.13	2.38	2.14	2.14	2.08	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.02	2.04	2.09	2.13	2.01	2.38	2.06
Jun 2	2.16	2.07	2.09	2.11	2.11	2.09	2.06	2.04	2.02	2.01	1.99	2.02	2.00	2.01	S	2.00	2.00	1.99	2.00	2.00	2.01	2.05	2.11	2.10	1.99	2.16	2.05
Jun 3	2.08	2.08	2.10	2.09	2.09	2.10	2.05	2.04	2.02	2.01	2.00	1.99	2.00	S	1.99	1.99	1.99	2.00	2.00	2.01	2.01	2.02	2.02	1.99	2.10	2.03	
Jun 4	2.02	2.02	2.02	2.03	2.02	2.03	2.02	2.02	2.02	2.02	2.01	2.02	S	2.00	2.00	2.00	1.99	2.00	2.00	2.01	1.99	2.01	2.01	1.99	2.03	2.01	
Jun 5	2.02	2.02	2.04	2.04	2.03	2.03	2.02	2.01	2.02	2.03	2.03	S	2.03	2.01	2.00	2.01	2.01	2.02	2.02	2.03	2.02	2.03	2.04	2.00	2.04	2.02	
Jun 6	2.04	2.05	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.05	S	2.03	2.03	2.07	2.04	2.02	2.02	2.01	2.01	2.02	2.03	2.08	2.07	2.05	2.01	2.08	2.04
Jun 7	2.06	2.13	2.25	2.10	2.09	2.12	2.09	2.07	2.07	S	2.04	2.04	2.05	2.03	2.02	2.02	2.03	2.05	2.04	2.04	2.05	2.05	2.07	2.02	2.25	2.07	
Jun 8	2.06	2.07	2.08	2.09	2.08	2.08	2.08	2.06	S	2.03	2.00	2.00	1.99	1.98	1.97	1.99	1.98	1.99	1.99	1.99	2.00	2.03	2.01	2.01	1.97	2.09	2.02
Jun 9	2.04	2.03	2.05	2.06	2.05	2.03	S	2.01	1.98	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	1.99	2.00	2.02	2.00	1.97	2.06	2.01
Jun 10	1.99	1.99	1.99	2.01	1.98	2.00	S	1.98	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.98	1.99	2.00	2.00	1.96	2.01	1.98
Jun 11	2.00	2.00	2.01	2.01	2.02	S	2.00	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.98	1.99	1.97	2.02	1.98
Jun 12	2.01	2.00	2.01	2.01	S	2.00	2.00	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.98	1.99	2.00	2.03	2.07	1.97	2.07	1.99
Jun 13	2.08	2.10	2.10	S	2.17	2.11	2.08	2.02	2.00	1.99	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	2.05	2.03	1.97	2.17	2.02
Jun 14	2.02	2.01	S	2.00	2.01	2.00	1.99	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.98	1.99	2.00	2.00	2.02	2.04	1.98	2.04	2.00	
Jun 15	2.03	S	2.02	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.01	2.01	2.06	1.98	2.06	2.00
Jun 16	S	2.07	2.07	2.04	2.04	2.03	2.02	2.00	2.00	C	C	C	C	1.97	1.98	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.99	S	1.97	2.07	2.00
Jun 17	1.99	1.98	1.99	2.00	1.99	1.99	2.00	2.01	2.00	1.98	2.01	1.99	1.98	1.96	1.96	1.96	1.96	1.95	1.97	1.96	2.10	S	2.00	1.95	2.10	1.99	
Jun 18	2.01	2.01	2.01	2.00	2.00	2.01	2.01	1.99	1.99	1.98	1.97	2.00	1.99	1.98	1.97	1.97	1.97	1.98	1.98	1.99	2.00	S	2.01	2.02	1.97	2.02	1.99
Jun 19	2.03	2.06	2.08	2.05	2.03	2.02	2.01	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.98	1.98	1.99	1.99	S	1.98	1.99	2.02	1.97	2.08	2.00	
Jun 20	2.02	2.04	2.06	2.07	2.05	2.07	2.03	2.01	2.00	1.99	1.98	1.96	1.97	1.97	1.97	1.97	1.97	1.98	S	1.97	1.99	2.01	2.00	1.96	2.07	2.00	
Jun 21	2.03	2.03	2.05	2.06	2.06	2.03	2.01	1.98	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.94	1.95	1.96	1.95	1.94	1.94	2.06	1.97
Jun 22	1.95	1.97	2.01	2.00	2.01	1.98	1.98	1.96	1.96	1.95	1.95	1.94	1.94	1.95	1.95	S	1.94	1.95	1.96	2.02	2.03	1.99	1.94	2.03	1.97	1.97	
Jun 23	1.98	1.98	1.98	1.98	2.01	1.99	1.98	1.98	1.97	1.96	1.96	1.96	1.97	1.99	1.99	1.98	S	1.98	1.97	1.98	1.98	2.00	2.00	1.96	2.01	1.98	
Jun 24	2.02	2.02	2.03	2.01	2.02	2.02	2.01	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.98	S	1.97	1.97	1.98	1.98	1.99	2.00	1.99	2.01	1.97	2.03	1.99
Jun 25	2.00	2.00	2.02	2.03	2.08	2.08	2.04	2.04	2.01	2.00	1.99	1.99	1.99	1.99	S	1.98	1.98	1.98	1.98	1.97	1.98	2.00	2.03	2.01	1.97	2.08	2.01
Jun 26	2.05	2.06	2.04	2.00	2.00	2.01	2.07	2.04	2.00	1.98	1.98	1.97	S	1.97	1.97	1.96	1.96	1.97	1.98	1.98	1.99	2.00	2.02	1.96	2.07	2.00	
Jun 27	2.03	2.00	2.02	2.00	2.01	2.02	2.00	1.99	1.99	1.99	2.00	2.00	S	1.98	1.98	1.98	1.97	1.98	1.97	1.97	1.98	2.00	2.00	2.03	1.97	2.03	2.00
Jun 28	2.04	2.10	2.12	2.16	2.10	2.03	2.01	2.00	1.99	1.99	1.98	S	1.97	1.96	1.97	1.96	1.96	1.96	1.97	1.98	1.98	2.00	2.00	1.96	2.16	2.01	
Jun 29	2.03	2.03	2.02	2.05	2.04	2.03	2.03	2.01	1.99	1.98	S	1.97	1.97	1.96	1.97	1.97	1.97	1.96	1.97	1.99	1.98	2.00	1.99	1.99	1.96	2.05	2.00
Jun 30	2.00	2.00	2.01	2.04	2.07	2.06	2.08	2.01	2.00	S	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.98	1.97	1.96	1.96	1.96	1.96	2.08	1.99
Diurnal Maximum	2.16	2.13	2.25	2.38	2.17	2.14	2.09	2.07	2.07	2.05	2.04	2.04	2.04	2.07	2.04	2.02	2.02	2.03	2.05	2.04	2.04	2.10	2.11	2.13			
Diurnal Average	2.03	2.03	2.05	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.01	2.02	2.02				

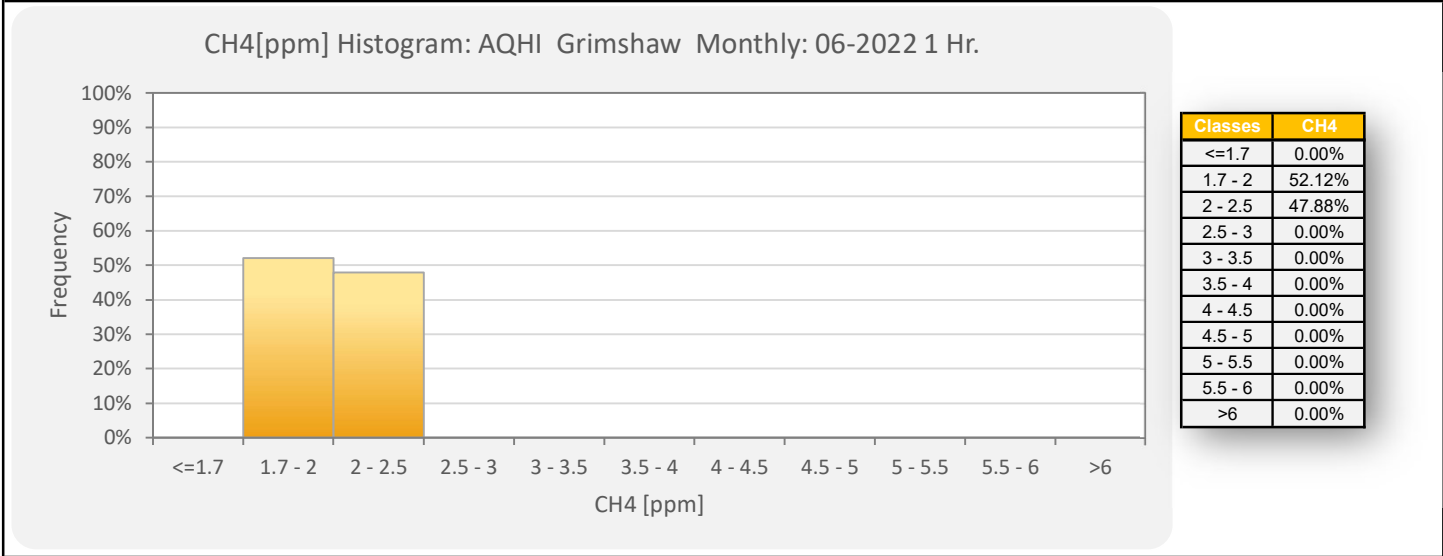
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

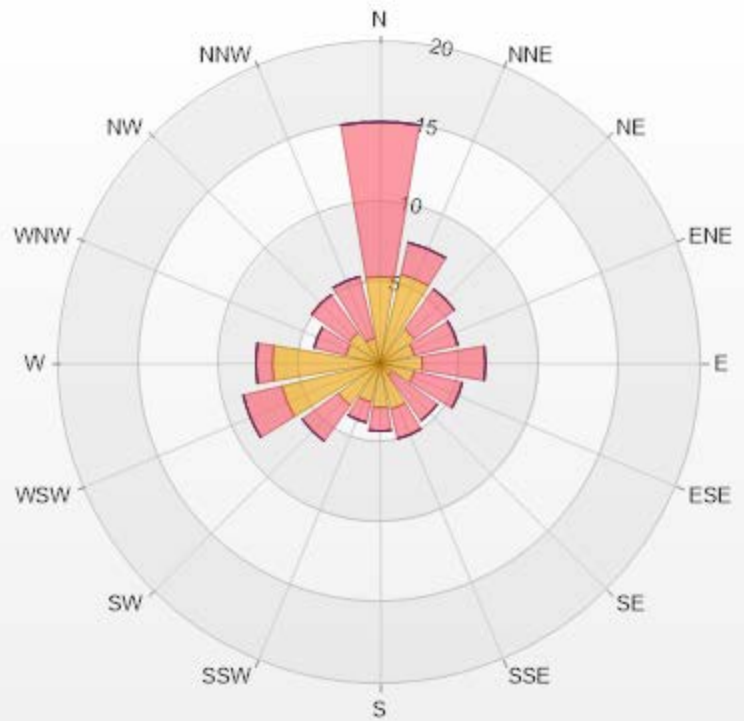
Timeseries Chart of Hourly Average for CH4 - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	5.4	9.64	0	0	0	15.04
NNE	5.69	2.04	0	0	0	7.73
NE	2.63	3.07	0	0	0	5.7
ENE	2.19	2.77	0	0	0	4.96
E	2.63	3.94	0	0	0	6.57
ESE	2.19	3.07	0	0	0	5.26
SE	0.88	3.5	0	0	0	4.38
SSE	2.92	1.9	0	0	0	4.82
S	2.77	1.46	0	0	0	4.23
SSW	2.48	1.31	0	0	0	3.79
SW	3.21	2.77	0	0	0	5.98
WSW	6.28	2.48	0	0	0	8.76
W	6.72	1.02	0	0	0	7.74
WNW	2.19	2.04	0	0	0	4.23
NW	2.34	2.92	0	0	0	5.26
NNW	1.61	3.94	0	0	0	5.55
Summary	52.13	47.87	0	0	0	100



PRAMP-202206

% Icon Classes (ppm)	52	0-2	48	2-5	0	5-10	0	10-20	0	>20.0
----------------------	----	-----	----	-----	---	------	---	-------	---	-------



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

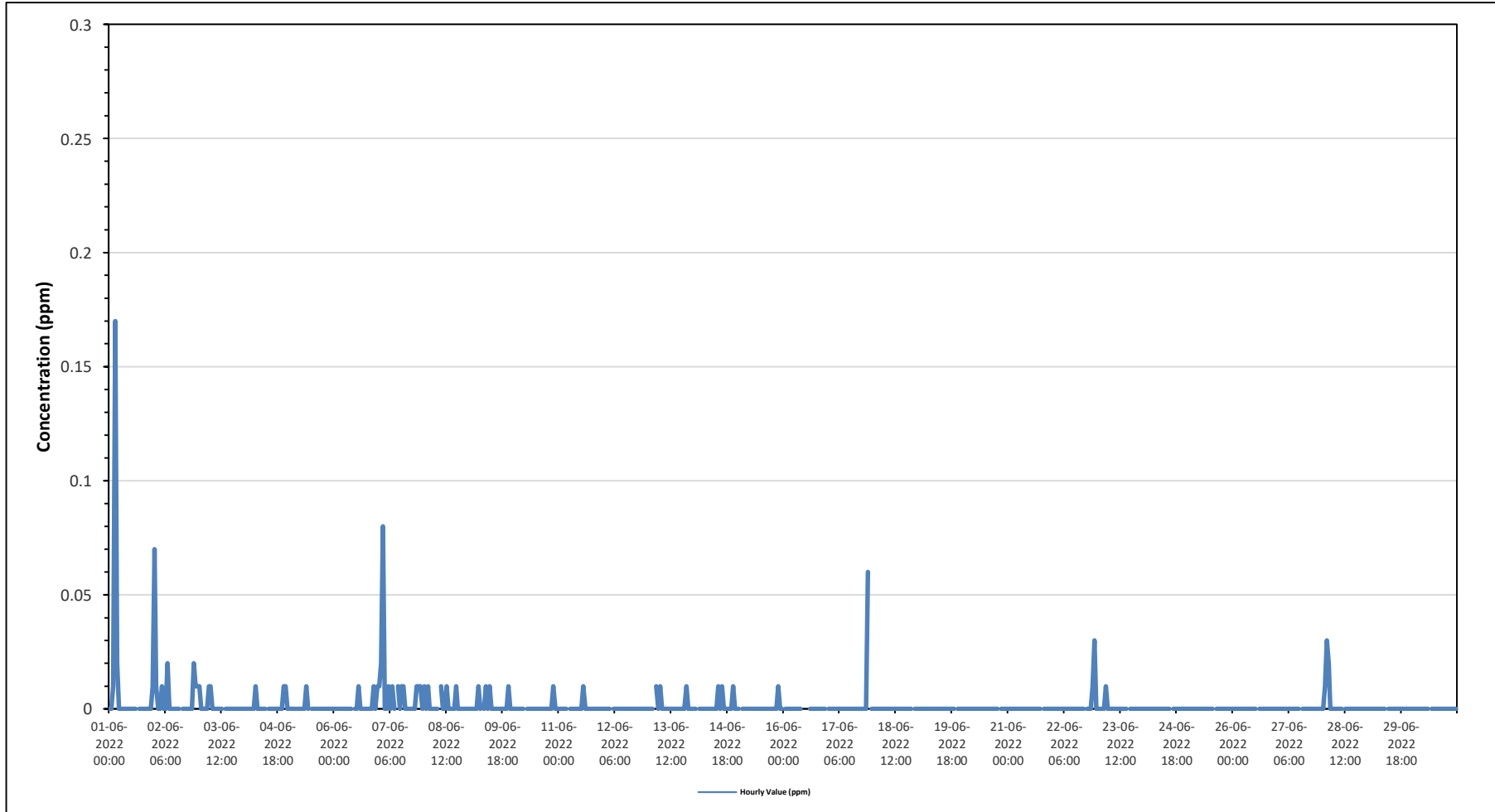
Maximum Hourly Value:	0.17 ppm on June 1 at hour 3	Hours in Service:	720
Maximum Daily Value:	0.01 ppm on June 1	Hours of Data:	685
Minimum Hourly Value:	0.00 ppm on June 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00 ppm on June 12	Hours of Calibration:	35
Monthly Average:	0.00 ppm	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Jun 1	0.00	0.00	0.01	0.17	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.17	0.01		
Jun 2	0.07	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.00	0.07	0.01	
Jun 3	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 4	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	
Jun 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	
Jun 7	0.01	0.02	0.08	0.00	0.00	0.01	0.00	0.01	0.00	S	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.08	0.01	
Jun 8	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	S	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 9	0.00	0.00	0.00	0.00	0.00	0.01	0.00	S	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	
Jun 10	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	
Jun 11	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 12	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 13	0.00	0.00	0.00	S	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	
Jun 14	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	
Jun 15	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	
Jun 16	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	S	0.00	0.00	0.06	0.00	
Jun 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	
Jun 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	S	0.00	0.00	0.03	0.00	
Jun 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.03	0.00
Jun 23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Jun 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 28	0.00	0.01	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	
Jun 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.07	0.02	0.08	0.17	0.02	0.01	0.01	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.06	0.03	0.01				
Diurnal Average	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00				

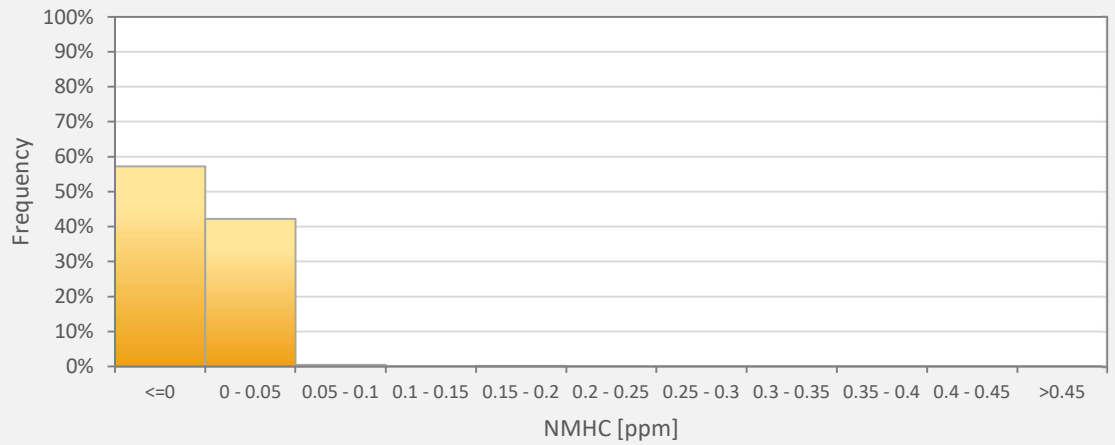
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for NMHC - AQHI - Grimshaw Station



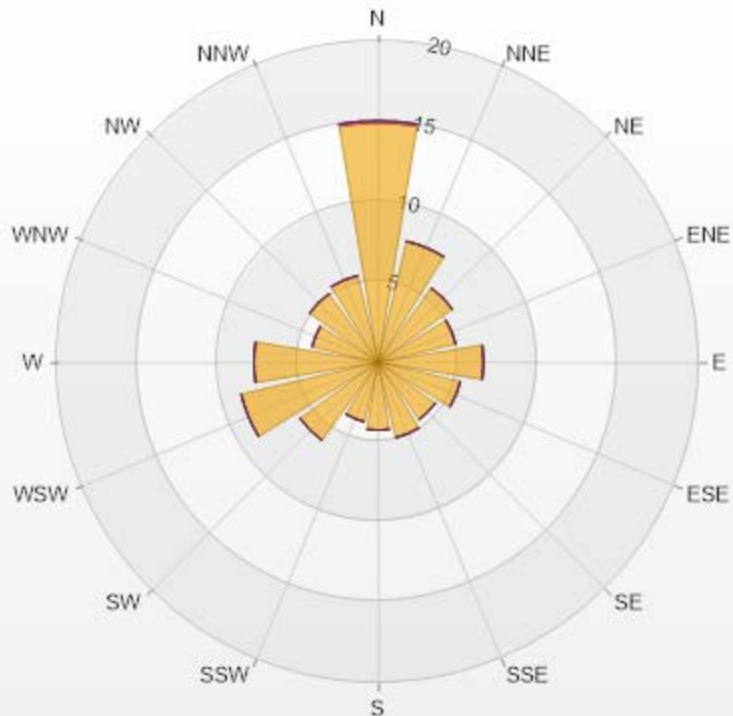
NMHC[ppm] Histogram: AQHI Grimshaw Monthly: 06-2022 1 Hr.



Classes	NMHC
<=0	57.23%
0 - 0.05	42.19%
0.05 - 0.1	0.44%
0.1 - 0.15	0.00%
0.15 - 0.2	0.15%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	14.89	0.15	0	0	0	15.04
NNE	7.74	0	0	0	0	7.74
NE	5.69	0	0	0	0	5.69
ENE	4.96	0	0	0	0	4.96
E	6.57	0	0	0	0	6.57
ESE	5.26	0	0	0	0	5.26
SE	4.38	0	0	0	0	4.38
SSE	4.82	0	0	0	0	4.82
S	4.23	0	0	0	0	4.23
SSW	3.8	0	0	0	0	3.8
SW	5.99	0	0	0	0	5.99
WSW	8.76	0	0	0	0	8.76
W	7.74	0	0	0	0	7.74
WNW	4.23	0	0	0	0	4.23
NW	5.26	0	0	0	0	5.26
NNW	5.55	0	0	0	0	5.55
Summary	100	0.15	0	0	0	100



PRAMP-202206

Page 254 of 276

% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-1

0 1-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

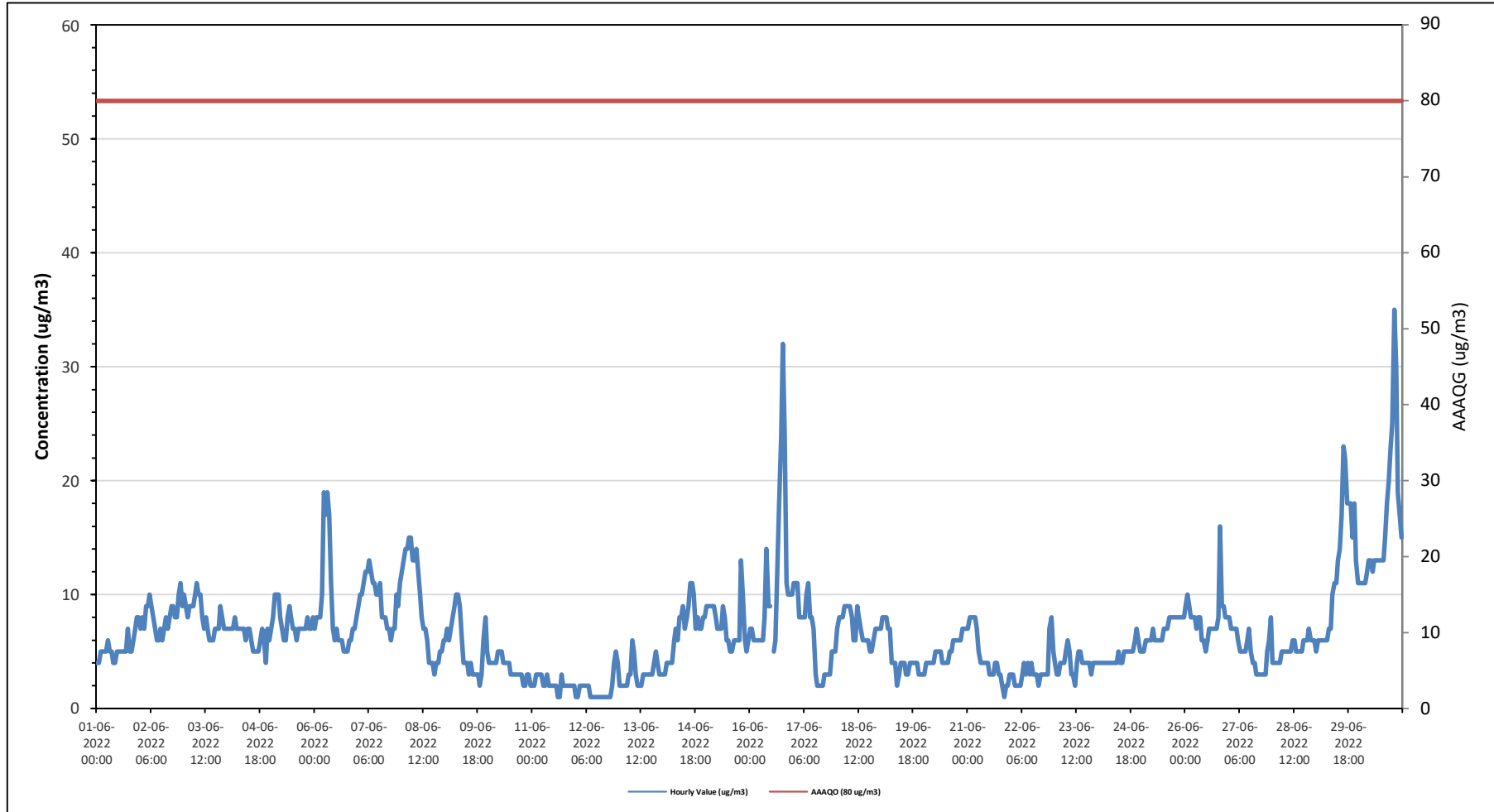
PARTICULATE MATTER 2.5 (PM_{2.5}) in µg/m³

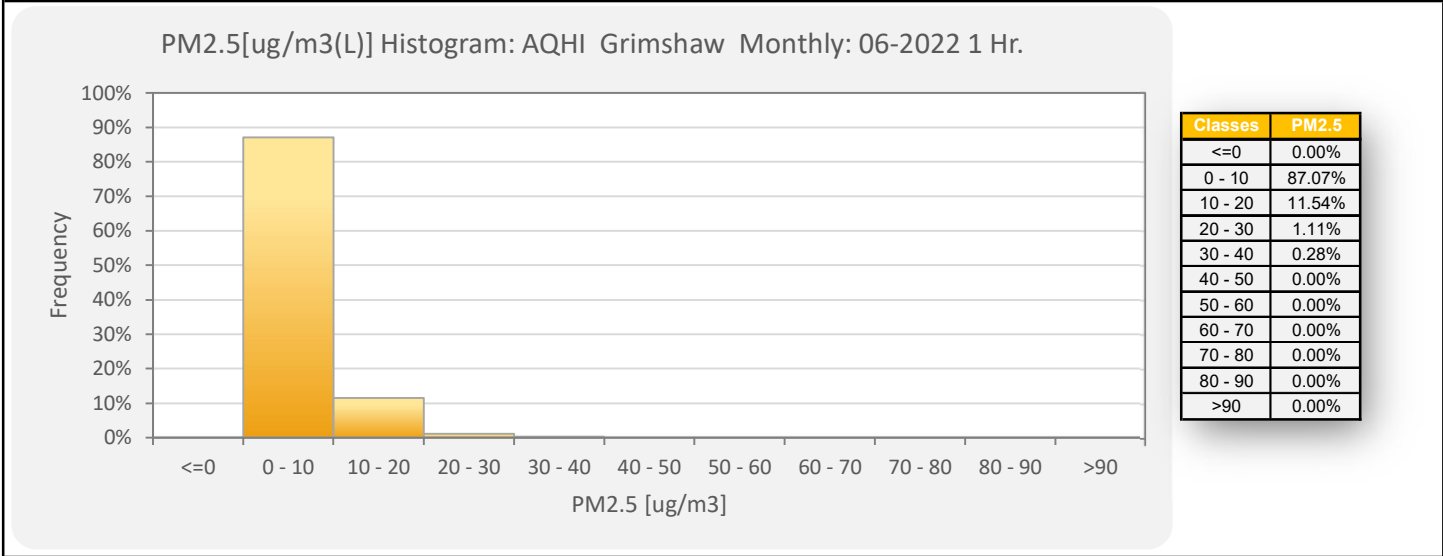
Alberta Ambient Air Quality Guideline (AAAQG): 1-Hour 80 µg/m ³ , Alberta Ambient Air Quality Objective (AAAO): 24-Hour 29 µg/m ³																																															
Number of 1-Hour Exceedances: 0													Number of 24-Hour Exceedances: 0																																		
Maximum Hourly Value: 35.0 µg/m ³ on June 30 at hour 19													Hours in Service: 720																																		
Maximum Daily Value: 16.2 µg/m ³ on June 30													Hours of Data: 719																																		
Minimum Hourly Value: 1.0 µg/m ³ on June 11 at hour 14													Hours of Missing Data: 0																																		
Minimum Daily Value: 1.7 µg/m ³ on June 12													Hours of Calibration: 1																																		
Monthly Average: 6.5 µg/m ³													Operational Uptime: 100.0																																		
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average																					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23																				
Jun 1	4	4	5	5	5	5	6	5	5	4	4	5	5	5	5	5	5	7	5	5	6	7	8	8	4.0	8.0	5.3																				
Jun 2	7	8	7	9	9	10	9	8	7	6	6	7	6	7	8	7	8	9	9	8	8	10	11	9	6.0	11.0	8.0																				
Jun 3	10	9	8	9	9	10	11	10	10	8	7	8	7	6	6	6	7	7	7	9	8	7	7	7	6.0	11.0	8.1																				
Jun 4	7	7	7	7	8	7	7	7	7	6	7	7	6	5	5	5	5	6	7	6	4	7	6	6	4.0	8.0	6.4																				
Jun 5	7	8	10	10	10	8	7	6	6	8	9	8	7	7	6	7	7	7	7	7	8	7	7	8	6.0	10.0	7.6																				
Jun 6	7	8	8	8	10	19	17	19	17	11	7	6	7	6	6	6	5	5	5	6	6	7	7	8	5.0	19.0	8.8																				
Jun 7	9	10	10	11	12	12	13	12	11	11	10	10	11	8	8	8	7	7	6	7	10	9	11	6	6.0	13.0	9.6																				
Jun 8	12	13	14	14	15	15	13	13	14	12	10	8	7	7	6	4	4	4	3	4	4	5	5	6	3.0	15.0	8.8																				
Jun 9	6	7	6	7	8	9	10	10	9	6	4	4	4	3	4	3	3	3	3	2	3	6	8	5	2.0	10.0	5.5																				
Jun 10	4	4	4	4	4	5	5	4	4	4	4	4	3	3	3	3	3	3	3	2	2	3	3	2	2.0	5.0	3.5																				
Jun 11	2	2	3	3	3	3	2	2	3	2	2	2	2	2	1	1	3	2	2	2	2	2	2	2	1.0	3.0	2.2																				
Jun 12	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	4	5	4	1.0	5.0	1.7																				
Jun 13	2	2	2	2	2	3	2	6	5	3	2	2	2	3	3	3	3	3	3	4	5	4	3	3	2.0	6.0	3.0																				
Jun 14	3	3	4	4	4	4	6	7	6	8	8	9	7	8	9	11	11	10	7	8	7	7	8	8	3.0	11.0	7.0																				
Jun 15	9	9	9	9	9	8	7	7	7	9	8	6	6	5	5	6	6	6	6	13	10	6	5	6	5.0	13.0	7.4																				
Jun 16	7	7	6	6	6	6	6	6	8	14	9	9	C	5	6	12	18	24	32	24	11	10	10	10	5.0	32.0	11.0																				
Jun 17	11	11	11	8	8	8	8	10	11	8	8	7	3	2	2	2	2	3	3	3	5	5	5	5	2.0	11.0	6.1																				
Jun 18	7	8	8	8	9	9	9	9	8	6	6	9	8	7	6	6	6	6	5	5	6	7	7	7	5.0	9.0	7.2																				
Jun 19	7	8	8	8	7	7	4	4	4	2	3	4	4	4	3	3	4	4	4	4	4	3	3	3	2.0	8.0	4.5																				
Jun 20	3	4	4	4	4	4	5	5	5	5	4	4	4	4	5	5	6	6	6	6	6	7	7	7	3.0	7.0	5.0																				
Jun 21	7	8	8	8	8	7	5	4	4	4	4	4	3	3	3	4	4	3	3	2	1	2	2	3	1.0	8.0	4.3																				
Jun 22	3	3	2	2	2	2	3	4	3	4	3	4	3	3	2	3	3	3	3	3	7	8	5	2.0	8.0	3.4																					
Jun 23	4	3	3	4	4	4	5	6	5	3	3	2	4	5	5	4	4	4	4	4	3	4	4	4	2.0	6.0	4.0																				
Jun 24	4	4	4	4	4	4	4	4	4	4	4	5	4	4	5	5	5	5	5	5	6	7	6	5	4.0	7.0	4.6																				
Jun 25	5	5	6	6	6	6	7	6	6	6	6	6	7	7	7	8	8	8	8	8	8	8	8	8	5.0	8.0	6.8																				
Jun 26	9	10	9	8	8	8	7	8	8	6	6	5	6	7	7	7	7	7	8	16	9	9	8	8	5.0	16.0	8.0																				
Jun 27	8	7	7	7	7	6	5	5	5	5	6	7	5	4	4	3	3	3	3	3	3	5	6	8	3.0	8.0	5.2																				
Jun 28	4	4	4	4	4	5	5	5	5	5	5	6	6	5	5	5	5	6	6	6	6	6	6	6	4.0	7.0	5.2																				
Jun 29	5	6	6	6	6	6	6	7	7	10	11	13	14	17	23	22	18	18	18	15	18	13	11	5.0	23.0	12.0																					
Jun 30	11	11	11	11	12	13	13	12	13	13	13	13	13	13	15	18	20	23	25	35	30	19	17	15	11.0	35.0	16.2																				
Diurnal Maximum	12	13	14	14	15	19	17	19	17	14	13	13	13	14	17	23	22	24	32	35	30	19	17	15																							
Diurnal Average	6.2	6.5	6.5	6.6	6.8	7.1	7.0	7.2	6.9	6.6	6.0	6.1	5.7	5.5	5.6	6.1	6.5	6.7	6.9	7.5	6.7	6.9	6.8	6.6																							
C	Monthly Calibration											S	Daily Zero-Span Check											Q	Quality Assurance																						
K	Collection Error											N	No Data (Machine Not in Service)											Y	Routine Maintenance											P	Power Failure										
X	Invalid Data (Equipment Malfunction/Recovery)											NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																		

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

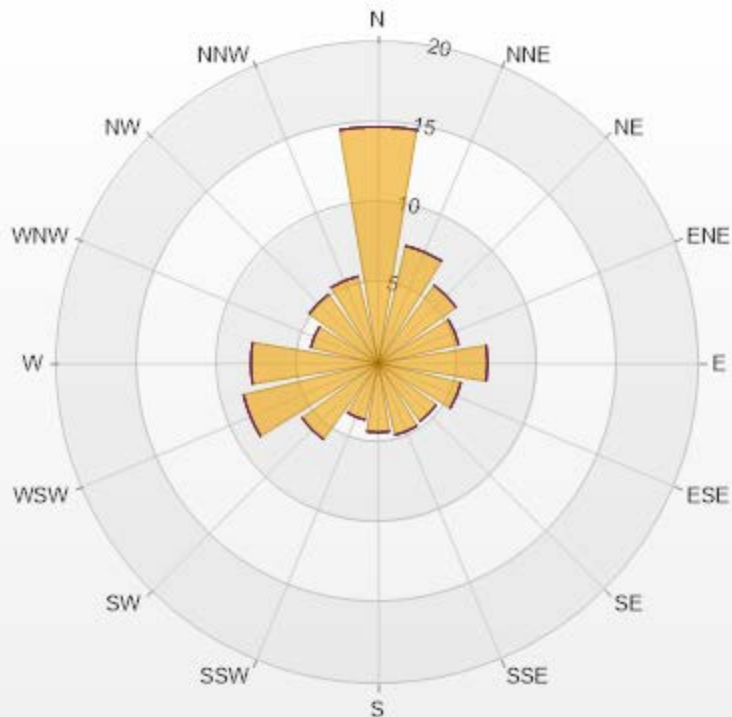
Timeseries Chart of Hourly Average for PM2.5 - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 06-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 99.86% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	14.74	0	0	0	0	14.74
NNE	7.51	0	0	0	0	7.51
NE	5.98	0	0	0	0	5.98
ENE	5.15	0	0	0	0	5.15
E	6.82	0	0	0	0	6.82
ESE	5.29	0	0	0	0	5.29
SE	4.45	0	0	0	0	4.45
SSE	4.59	0	0	0	0	4.59
S	4.31	0	0	0	0	4.31
SSW	3.62	0	0	0	0	3.62
SW	5.84	0	0	0	0	5.84
WSW	8.62	0	0	0	0	8.62
W	7.93	0	0	0	0	7.93
WNW	4.31	0	0	0	0	4.31
NW	5.29	0	0	0	0	5.29
NNW	5.56	0	0	0	0	5.56
Summary	100	0	0	0	0	100



PRAMP-202206

Page 259 of 276

% Icon Classes (ug/m3(L))

100 0-50

0 50-80

0 80-120

0 120-240

0 >240.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

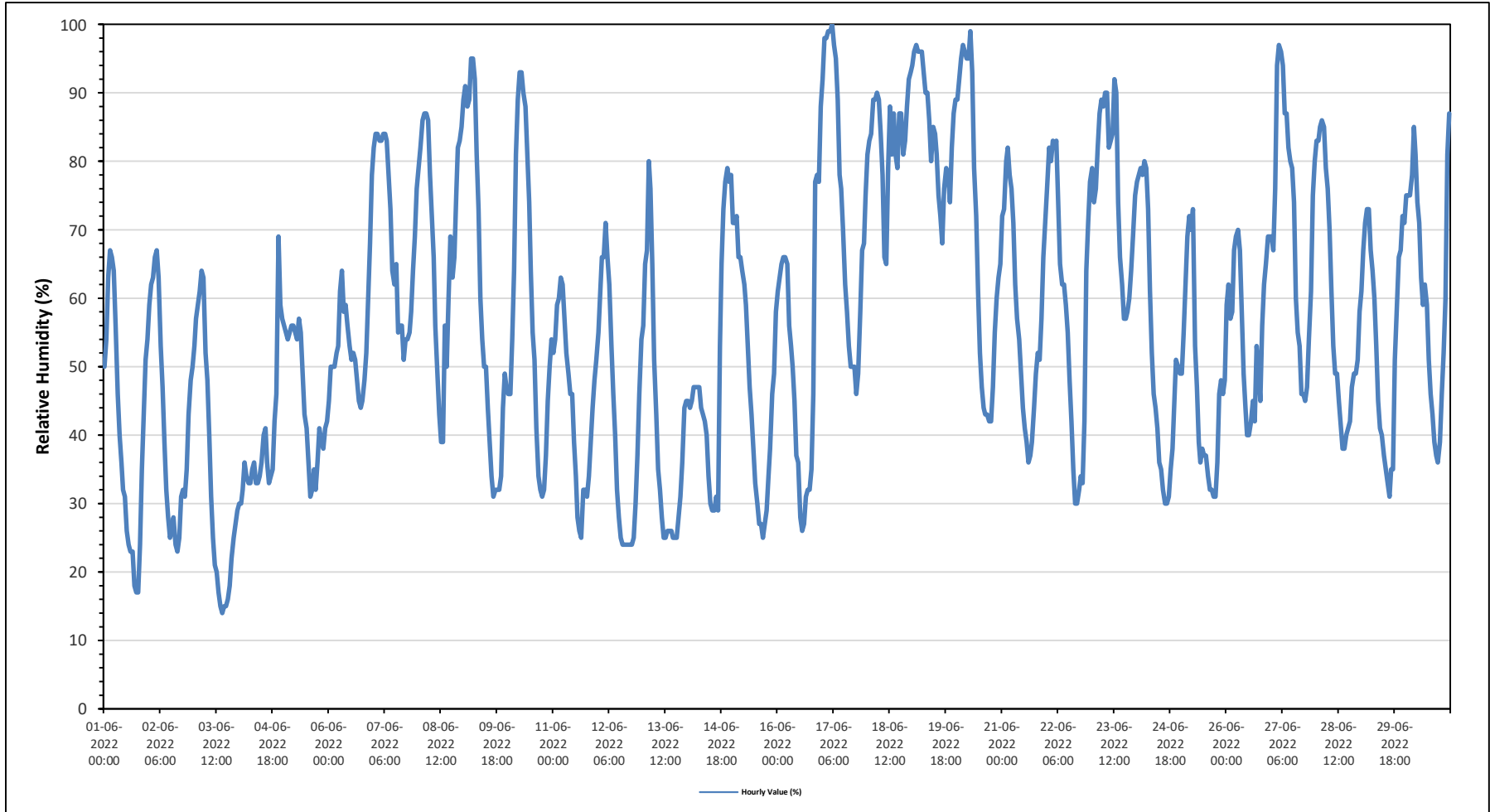
Maximum Hourly Value:	100 %	on June 17 at hour 5	Hours in Service:	720
Maximum Daily Value:	85.2 %	on June 19	Hours of Data:	720
Minimum Hourly Value:	14 %	on June 3 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	33.6 %	on June 3	Hours of Calibration:	0
Monthly Average:	56.3 %		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	50	54	63	67	66	64	56	46	40	36	32	31	26	24	23	23	18	17	17	24	35	43	51	54	17	67	40.0
Jun 2	59	62	63	66	67	63	53	47	39	32	28	25	26	28	24	23	25	31	32	31	35	43	48	50	23	67	41.7
Jun 3	53	57	59	61	64	63	52	48	40	31	25	21	20	17	15	14	15	15	16	18	22	25	27	29	14	64	33.6
Jun 4	30	30	32	36	34	33	33	35	36	33	33	34	36	40	41	36	33	34	35	42	46	69	59	57	30	69	38.6
Jun 5	56	55	54	55	56	56	55	54	57	55	49	43	41	36	31	32	35	32	36	41	39	38	41	42	31	57	45.4
Jun 6	45	50	50	50	52	53	61	64	58	59	56	53	51	52	51	48	45	44	45	48	52	60	68	78	44	78	53.9
Jun 7	82	84	84	83	83	84	84	83	78	73	64	62	65	55	56	56	51	54	54	55	58	64	69	76	51	84	69.0
Jun 8	79	82	86	87	87	86	78	72	66	56	49	43	39	39	56	50	60	69	63	66	75	82	83	85	39	87	68.3
Jun 9	89	91	88	89	95	95	92	81	73	60	54	50	50	44	39	34	31	32	32	32	34	44	49	47	31	95	59.4
Jun 10	46	46	54	64	81	89	93	93	90	88	81	74	64	55	51	41	34	32	31	32	37	45	50	54	31	93	59.4
Jun 11	52	54	59	60	63	62	57	52	49	46	46	39	34	28	26	25	32	32	31	34	39	44	48	51	25	63	44.3
Jun 12	55	61	66	66	71	66	62	53	46	40	32	28	25	24	24	24	24	24	24	25	30	37	46	54	24	71	42.0
Jun 13	56	65	67	80	76	65	51	43	35	32	28	25	25	26	26	26	25	25	25	28	31	36	44	45	25	80	41.0
Jun 14	45	44	45	47	47	47	47	44	43	42	40	34	30	29	29	31	29	53	65	73	77	79	77	78	29	79	49.0
Jun 15	71	71	72	66	66	64	62	59	53	47	43	38	33	30	27	27	25	27	29	34	38	46	49	58	25	72	47.3
Jun 16	61	63	65	66	66	65	56	53	50	45	37	36	28	26	27	31	32	32	35	46	77	78	77	88	26	88	51.7
Jun 17	92	98	98	99	99	100	97	95	89	78	76	70	62	58	53	50	50	50	46	49	58	67	68	75	46	100	74.0
Jun 18	81	83	84	89	89	90	89	84	78	66	65	79	88	81	87	81	79	87	87	81	83	88	92	93	65	93	83.5
Jun 19	94	96	97	96	96	96	93	90	90	86	80	85	84	81	75	72	68	76	79	78	74	82	87	89	68	97	85.2
Jun 20	89	92	95	97	96	95	95	99	93	79	72	61	52	47	44	43	43	42	42	47	55	60	63	65	42	99	69.4
Jun 21	72	73	80	82	78	76	71	62	57	54	49	44	41	39	36	37	39	44	49	52	51	57	66	71	36	82	57.5
Jun 22	76	82	80	83	82	83	74	65	62	62	59	55	48	42	35	30	30	32	34	33	42	64	71	77	30	83	58.4
Jun 23	79	74	76	82	87	89	88	90	90	82	83	84	92	90	74	66	62	57	57	58	60	64	69	75	57	92	76.2
Jun 24	77	78	79	78	80	79	73	61	52	46	44	41	36	35	32	30	30	31	35	38	45	51	50	49	30	80	52.1
Jun 25	49	55	62	69	72	70	73	53	47	39	36	38	37	34	32	32	31	31	36	46	48	46	48	31	73	46.7	
Jun 26	59	62	57	58	67	69	70	67	58	49	44	40	40	42	45	42	53	50	45	56	62	65	69	69	40	70	55.8
Jun 27	69	67	76	94	97	96	94	87	87	82	80	79	74	60	55	53	46	46	45	47	54	61	75	80	45	97	71.0
Jun 28	83	83	85	86	85	79	76	70	61	53	49	49	45	41	38	38	40	41	42	47	49	49	51	58	38	86	58.3
Jun 29	61	67	71	73	73	67	64	60	53	45	41	40	37	35	33	31	35	35	51	59	66	67	72	71	31	73	54.5
Jun 30	75	75	75	78	85	81	74	71	63	59	62	59	51	46	43	39	37	36	39	46	52	60	81	87	36	87	61.4
Diurnal Maximum	94	98	98	99	99	100	97	99	93	88	83	85	92	90	87	81	79	87	87	81	83	88	92	93			
Diurnal Average	66.2	68.5	70.7	73.6	75.3	74.2	70.8	66.0	61.1	55.2	51.2	48.7	46.0	42.9	41.0	38.8	38.6	40.4	41.7	45.2	50.7	57.2	61.5	65.1			

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for RH - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

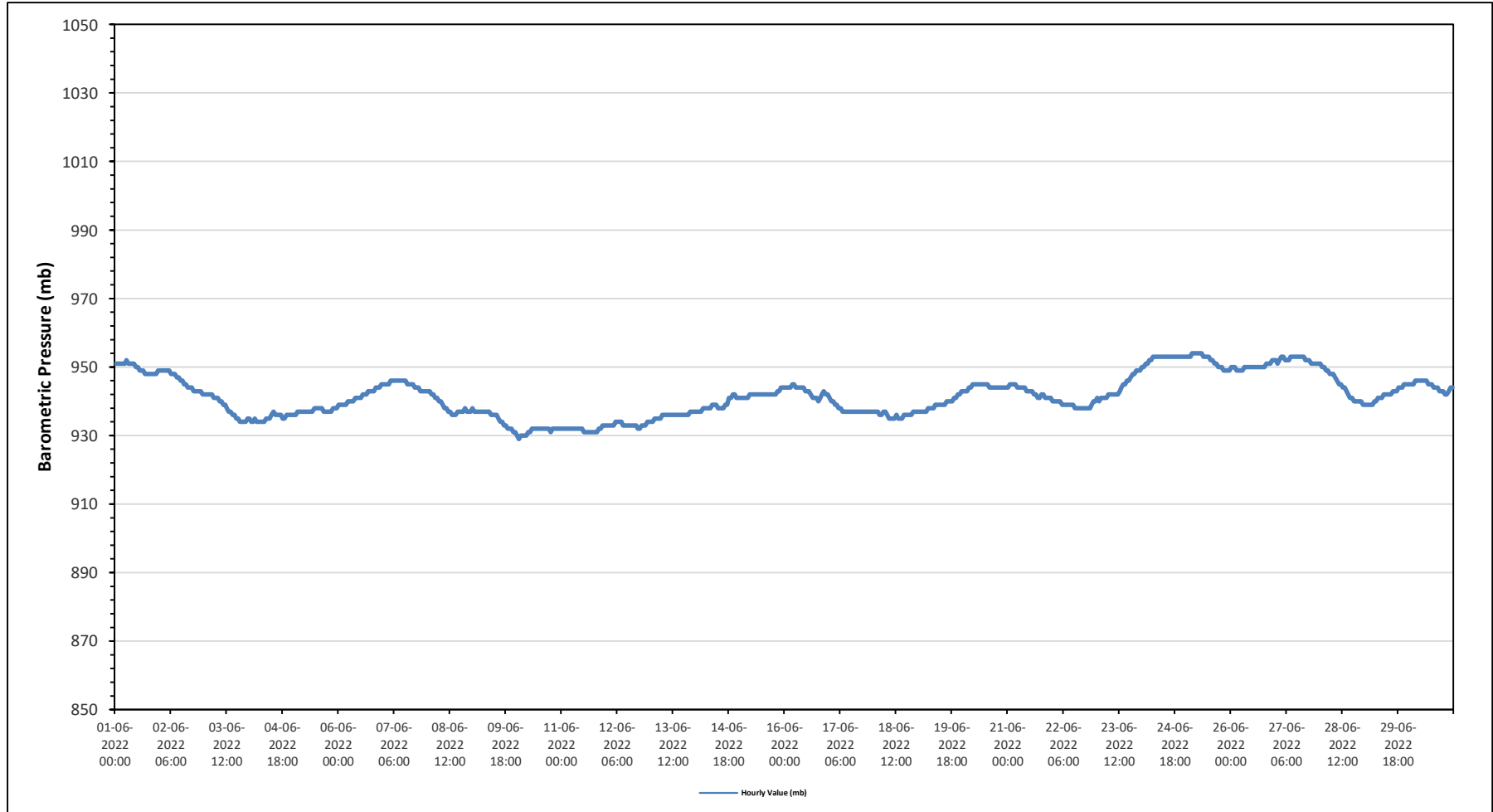
Maximum Hourly Value:	954	mb	on June 25 at hour 3	Hours in Service:	720
Maximum Daily Value:	953	mb	on June 24	Hours of Data:	720
Minimum Hourly Value:	929	mb	on June 10 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	931	mb	on June 10	Hours of Calibration:	0
Monthly Average:	941	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
Jun 1	951	951	951	951	951	951	952	951	951	951	951	950	950	949	949	949	948	948	948	948	948	948	949	948	952	950
Jun 2	949	949	949	949	949	949	948	948	948	947	947	946	946	945	945	944	944	944	943	943	943	943	942	942	942	946
Jun 3	942	942	942	942	942	941	941	941	940	940	939	939	938	937	937	936	936	935	935	934	934	934	935	934	942	938
Jun 4	935	934	934	935	934	934	934	934	934	935	935	935	936	937	936	936	936	936	935	935	936	936	936	936	934	935
Jun 5	936	936	937	937	937	937	937	937	937	937	937	938	938	938	938	938	937	937	937	937	937	938	938	938	936	937
Jun 6	939	939	939	939	939	940	940	940	940	941	941	941	942	942	942	943	943	943	943	944	944	944	944	945	939	941
Jun 7	945	945	945	945	946	946	946	946	946	946	946	946	945	945	945	944	944	944	943	943	943	943	943	943	943	945
Jun 8	943	943	942	942	941	941	940	940	939	938	938	937	937	936	936	936	937	937	937	937	937	938	937	937	936	939
Jun 9	938	937	937	937	937	937	937	937	937	937	936	936	936	936	935	934	934	933	933	932	932	932	931	931	938	935
Jun 10	930	929	930	930	930	930	931	931	932	932	932	932	932	932	932	932	932	931	932	932	932	932	932	932	929	931
Jun 11	932	932	932	932	932	932	932	932	932	932	932	933	933	931	931	931	931	931	931	931	932	932	933	933	933	932
Jun 12	933	933	933	933	933	934	934	934	934	933	933	933	933	933	933	933	932	932	933	933	933	933	934	934	932	934
Jun 13	934	934	935	935	935	935	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	937	937	937	934	936
Jun 14	937	937	937	937	938	938	938	938	938	939	939	939	938	938	938	938	939	939	941	941	942	942	941	941	937	939
Jun 15	941	941	941	941	941	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	943	943	944	944	941	942
Jun 16	944	944	944	944	945	945	944	944	944	944	944	943	943	943	942	941	941	940	941	942	943	942	942	942	940	943
Jun 17	941	940	940	939	939	938	938	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	938
Jun 18	937	937	937	936	936	937	937	936	935	935	935	935	936	935	935	935	936	936	936	936	936	937	937	937	935	936
Jun 19	937	937	937	937	937	938	938	938	938	939	939	939	939	939	940	940	940	940	941	941	942	942	943	937	943	939
Jun 20	943	943	943	944	944	945	945	945	945	945	945	945	945	944	944	944	944	944	944	944	944	944	944	944	943	944
Jun 21	944	945	945	945	945	944	944	944	944	944	943	943	943	943	942	942	941	941	942	942	941	941	941	941	941	943
Jun 22	940	940	940	940	940	939	939	939	939	939	939	938	938	938	938	938	938	938	938	938	938	939	940	940	938	940
Jun 23	941	940	941	941	941	942	942	942	942	942	942	943	944	945	945	946	946	947	948	948	949	949	949	949	940	944
Jun 24	950	950	951	951	952	952	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	950	953
Jun 25	953	953	953	954	954	954	954	954	954	953	953	953	953	952	952	951	951	950	950	950	949	949	949	949	949	952
Jun 26	950	950	950	949	949	949	949	950	950	950	950	950	950	950	950	950	950	950	951	951	951	952	952	949	950	
Jun 27	952	951	952	953	953	952	952	952	953	953	953	953	953	953	953	952	952	952	951	951	951	951	951	951	951	952
Jun 28	951	950	950	949	949	948	948	948	947	946	945	945	944	944	943	942	941	941	940	940	940	940	939	939	939	945
Jun 29	939	939	939	939	940	940	940	941	941	941	942	942	942	942	943	943	943	944	944	944	945	945	945	945	939	942
Jun 30	945	945	945	946	946	946	946	946	946	946	945	945	945	944	944	944	943	943	943	942	942	943	944	944	942	945
Diurnal Maximum	953	953	953	954	954	954	954	954	954	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Diurnal Average	942	942	942	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	941	941	941	941	941	941	941	941

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for BP - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	25.8 °C	on June 30 at hour 17	Hours in Service:	720
Maximum Daily Value:	19.2 °C	on June 30	Hours of Data:	720
Minimum Hourly Value:	7.7 °C	on June 1 at hour 3	Hours of Missing Data:	0
Minimum Daily Value:	12.8 °C	on June 23	Hours of Calibration:	0
Monthly Average:	16.3 °C		Operational Uptime:	100.0

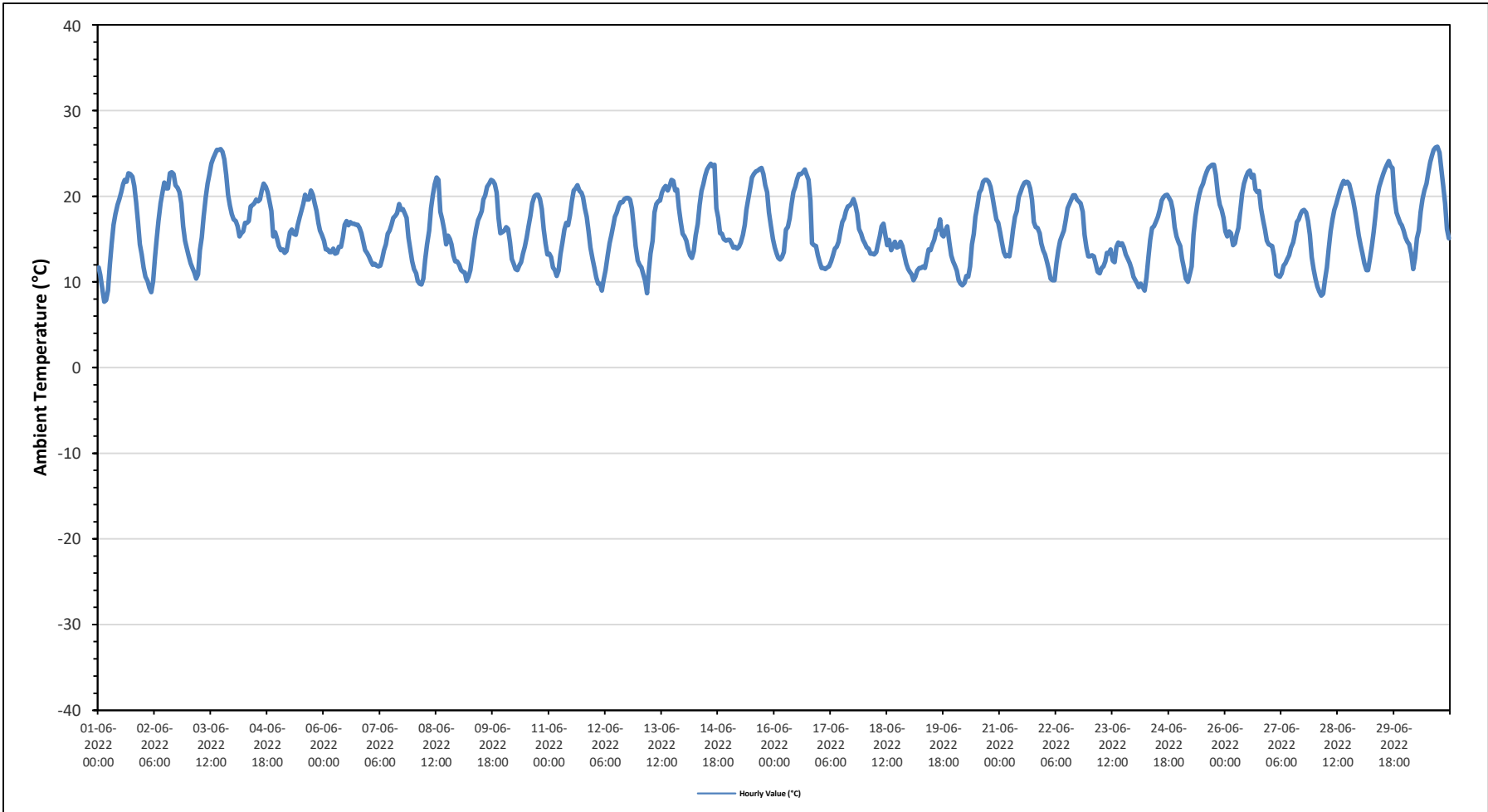
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	11.7	10.8	9.1	7.7	7.9	9	12	14.5	16.7	17.9	19	19.7	20.5	21.4	21.9	21.7	22.7	22.6	22.3	21.2	19.3	17	14.4	13.2	7.7	22.7	16.4
Jun 2	11.7	10.6	10.1	9.3	8.8	10.1	12.9	14.9	17.1	19.2	20.4	21.6	20.9	22.7	22.8	22.6	21.3	21	20.5	19.2	16.5	14.8	13.9	8.8	22.8	16.8	
Jun 3	13.1	12.2	11.6	11.1	10.4	10.9	13.7	15.2	17.6	19.9	21.5	22.6	23.8	24.4	24.9	25.4	25.4	25.5	25.2	24.3	22.5	20.2	18.9	17.9	10.4	25.5	19.1
Jun 4	17.3	17.1	16.5	15.3	15.7	15.9	16.9	16.9	17.1	18.8	19	19.2	19.6	19.4	19.6	20.7	21.5	21.1	20.5	19.4	18.3	15.3	15.8	15.1	15.1	21.5	18.0
Jun 5	14.2	13.7	13.8	13.4	13.6	14.6	15.8	16.1	15.6	15.5	16.6	17.5	18.3	19.1	20.2	19.6	19.6	20.7	20.2	19.2	18.3	16.9	16	15.5	13.4	20.7	16.8
Jun 6	14.8	13.8	13.8	13.5	13.5	13.9	13.3	13.4	14.1	14.1	15.2	16.7	17.1	16.6	17	16.8	16.8	16.7	16.7	16.3	15.7	14.7	13.7	13.4	13.3	17.1	15.1
Jun 7	13	12.4	12	12.1	11.9	11.8	11.9	12.7	13.7	14.4	15.6	16	16.7	17.5	17.7	18	19.1	18.4	18.5	18	17.5	15.2	13.8	12.4	11.8	19.1	15.0
Jun 8	11.5	11	10.1	9.8	9.7	10.4	12.6	14.4	16	18.6	20.2	21.4	22.2	21.9	18.2	17.3	16	14.4	15.4	15	14.4	13.1	12.4	12.4	9.7	22.2	14.9
Jun 9	12	11.4	11.2	11.1	10.1	10.6	11.4	13	14.9	16.2	17.2	17.7	18.3	19.6	20.1	21.1	21.5	21.9	21.8	21.4	20.4	17.5	15.7	15.8	10.1	21.9	16.3
Jun 10	16	16.4	16.2	14.7	12.7	12.1	11.5	11.4	11.9	12.3	13.3	14.1	15.2	16.5	17.7	19.2	20	20.2	20.2	19.7	18.5	16.2	14.5	13.2	11.4	20.2	15.6
Jun 11	13.3	12.9	11.7	11.4	10.7	11.3	13.2	14.7	16.1	16.9	16.6	17.8	19.4	20.7	20.9	21.3	20.6	20.4	19.9	18.6	17.6	15.9	14	12.7	10.7	21.3	16.2
Jun 12	11.6	10.5	9.8	9.8	9	10.3	11.4	13.1	14.5	15.5	16.6	17.6	18.1	18.8	19.3	19.3	19.7	19.8	19.8	19.6	18.6	16.5	14.2	12.5	9.0	19.8	15.2
Jun 13	12	11.7	10.9	10.1	8.7	11	13.3	14.8	18.1	19.1	19.4	19.5	20.4	20.9	21.2	20.7	21.2	21.9	21.8	20.7	20.8	18.6	17	15.6	8.7	21.9	17.1
Jun 14	15.3	14.8	13.8	13.1	12.8	13.6	15.4	16.8	19	20.6	21.4	22.4	23.1	23.5	23.8	23.5	23.7	18.6	17.5	15.7	15.6	15	14.8	14.9	12.8	23.8	17.9
Jun 15	14.9	14.5	14	14.1	13.9	14.1	14.6	15.5	16.7	18.4	19.7	20.9	22.2	22.6	22.9	23	23.2	23.3	22.6	21.3	20.5	18.1	16.6	15	13.9	23.3	18.4
Jun 16	14	13.3	12.8	12.6	12.9	13.5	16.1	16.4	17.4	19.1	20.5	21.1	22	22.6	22.6	22.8	23.1	22.5	21.9	19.5	14.5	14.3	14.2	13.1	12.6	23.1	17.6
Jun 17	12.3	11.6	11.6	11.5	11.7	11.8	12.4	13.1	13.9	14.1	14.7	15.9	17	17.4	18.3	18.8	18.9	19.2	19.7	19	18	16.2	15.6	14.9	11.5	19.7	15.3
Jun 18	14.5	14	13.9	13.3	13.3	13.2	13.5	14.4	15.3	16.5	16.8	15.5	14.3	14.9	13.7	14.2	14.7	14	14.1	14.7	14.2	13.2	12.1	11.5	11.5	16.8	14.2
Jun 19	11.2	10.9	10.2	10.6	11.3	11.6	11.6	11.8	11.6	12.7	13.8	13.7	14.4	14.9	16	16.1	17.3	15.5	15.3	16	16.5	14.6	13.1	12.4	10.2	17.3	13.5
Jun 20	11.9	11.3	10.2	9.8	9.6	9.9	10.7	10.6	11.8	14.4	15.6	17.6	18.8	20.4	20.8	21.7	21.9	21.9	21.7	21.1	20	18.5	17.3	16.9	9.6	21.9	16.0
Jun 21	15.8	14.6	13.5	13	13.1	13	14.4	16.2	17.6	18.3	19.9	20.5	21.1	21.6	21.7	21.6	20.9	19.6	17	16.4	16.3	15.7	14.5	13.7	13.0	21.7	17.1
Jun 22	13.2	12.4	11.5	10.4	10.2	10.2	12.2	13.7	14.8	15.4	16	17.2	18.6	19.2	19.7	20.1	20.1	19.6	19.4	19.2	18.2	15.5	14	13	10.2	20.1	15.6
Jun 23	13	13.1	13	12.1	11.2	11	11.6	11.8	12.4	13.4	13.3	13.8	12.5	12.3	14.1	14.6	14.3	14.5	14	13.2	12.7	12.2	11.5	10.6	10.6	14.6	12.8
Jun 24	10.2	9.8	9.4	9.8	9.4	9	10.5	12.8	14.9	16.3	16.5	17	17.6	18.4	19.5	19.9	20.1	20.2	19.8	19.4	18.4	16.4	15.3	14.7	9.0	20.2	15.2
Jun 25	14.2	12.7	11.6	10.4	10	10.9	11.8	15.5	17.6	19	20.1	20.9	21.5	22.2	22.8	23.3	23.5	23.7	23.7	22.5	20.2	19	18.4	17.5	10.0	23.7	18.0
Jun 26	15.9	15.3	15.9	15.7	14.3	14.5	15.5	16.3	18.3	20.3	21.5	22.3	22.8	23	22.2	22.5	20.8	20.5	20.6	18.6	17.2	16.1	14.8	14.4	14.3	23.0	18.3
Jun 27	14.3	14.2	13.1	10.9	10.7	10.6	11	11.9	12.2	12.7	13.1	14	14.6	15.6	17	17.3	17.9	18.3	18.4	18.1	17.1	15.5	12.9	11.5	10.6	18.4	14.3
Jun 28	10.4	9.5	8.9	8.4	8.6	10.3	11.7	13.9	15.9	17.3	18.4	19.1	19.9	20.7	21.3	21.8	21.5	21.7	21.4	20.4	19.5	18.3	16.9	15.4	8.4	21.8	16.3
Jun 29	14.3	13.3	12.2	11.4	11.4	12.7	14.1	15.8	17.8	20	21.1	21.9	22.6	23.2	23.7	24.1	23.5	23.3	20	18.1	17.5	16.9	16.6	16	11.4	24.1	18.0
Jun 30	15.2	14.7	14.4	13.2	11.5	12.8	15.1	16	18.2	19.7	20.7	21.5	22.8	24	24.8	25.4	25.5	25.8	25.1	23.1	21.2	19.2	16.2	15.1	11.5	25.8	19.2
Diurnal Maximum	17.3	17.1	16.5	15.7	15.7	15.9	16.9	16.9	19.0	20.6	21.5	22.6	23.8	24.4	24.9	25.4	25.7	25.8	25.2	24.3	22.5	20.2	18.9	17.9			
Diurnal Average	13.4	12.8	12.2	11.7	11.3	11.8	13.1	14.3	15.6	16.9	17.8	18.6	19.2	19.8	20.2	20.5	20.6	20.2	19.9	19.0	18.0	16.3	15.0	14.1			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for AT - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	23.4 °C	on June 1 at hour 5	Hours in Service:	720
Maximum Daily Value:	22.8 °C	on June 6	Hours of Data:	720
Minimum Hourly Value:	21.0 °C	on June 16 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	21.9 °C	on June 30	Hours of Calibration:	0
Monthly Average:	22.4 °C		Operational Uptime:	100.0

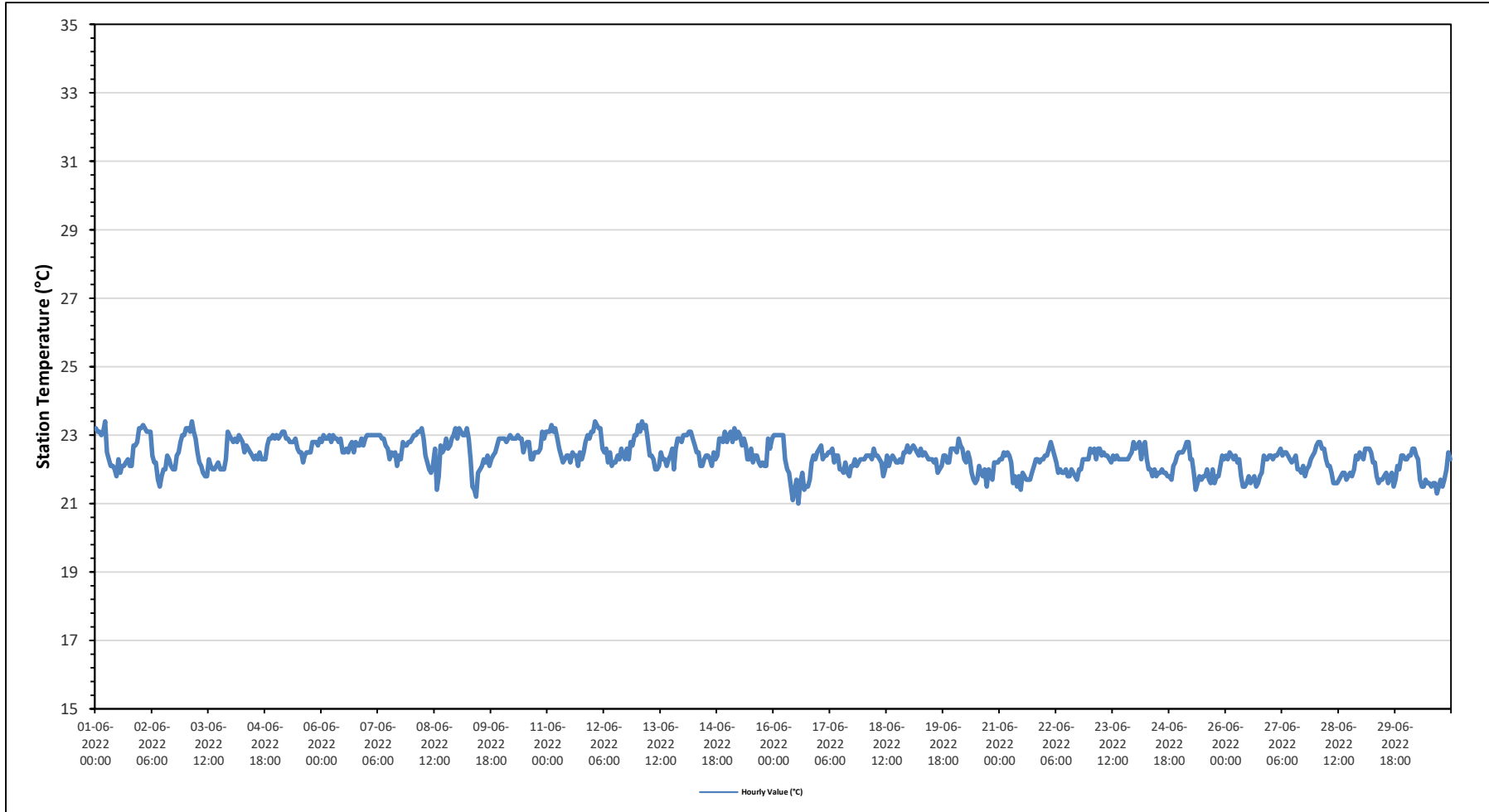
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	23.2	23.1	23.1	23.0	23.1	23.4	22.5	22.3	22.1	22.1	22.0	21.8	22.3	21.9	22.1	22.1	22.2	22.3	22.1	22.1	22.7	22.7	22.8	23.2	21.8	23.4	22.5
Jun 2	23.2	23.2	23.2	23.1	23.1	23.1	22.9	22.5	22.2	22.1	21.9	21.8	21.8	22.3	22.1	22.0	22.0	22.1	22.2	22.0	22.0	22.3	23.1	23.0	21.8	23.4	22.4
Jun 3	22.9	22.8	22.9	22.8	23.0	22.9	22.8	22.5	22.7	22.6	22.5	22.4	22.3	22.4	22.3	22.5	22.3	22.3	22.3	22.7	22.9	22.9	23.0	22.9	22.3	23.0	22.7
Jun 4	23.0	22.9	23.0	23.1	23.1	22.9	22.9	22.8	22.8	22.8	22.9	22.6	22.5	22.5	22.2	22.4	22.5	22.5	22.5	22.8	22.8	22.8	22.7	22.9	22.2	23.1	22.7
Jun 5	22.8	23.0	22.9	22.9	23.0	22.8	23.0	22.9	22.9	22.8	22.9	22.5	22.5	22.6	22.5	22.7	22.8	22.5	22.8	22.7	22.7	22.9	22.7	22.9	22.5	23.0	22.8
Jun 6	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.9	22.9	22.7	22.6	22.3	22.5	22.4	22.5	22.1	22.4	22.3	22.8	22.7	22.7	22.8	22.8	22.1	23.0	22.7
Jun 7	22.9	23.0	23.0	23.1	23.1	23.2	22.9	22.4	22.2	22.0	21.9	22.1	22.6	21.4	21.8	22.7	22.5	22.6	22.9	22.6	22.7	22.9	23.0	23.2	21.4	23.2	22.6
Jun 8	22.9	23.2	23.1	23.0	23.0	23.2	22.9	22.3	21.5	21.4	21.2	21.9	22.0	22.1	22.3	22.2	22.4	22.1	22.3	22.4	22.5	22.7	22.9	22.9	21.2	23.2	22.4
Jun 9	22.9	22.9	22.8	22.9	23.0	22.9	22.9	22.9	23.0	22.9	22.9	22.9	22.5	22.7	22.8	22.8	22.3	22.3	22.5	22.5	22.6	23.1	22.9	23.1	22.3	23.1	22.8
Jun 10	23.1	23.1	23.3	23.1	23.2	22.9	22.6	22.4	22.2	22.3	22.4	22.4	22.2	22.5	22.4	22.4	22.1	22.5	22.3	22.5	22.8	23.0	22.9	23.1	22.1	23.3	22.7
Jun 11	23.1	23.4	23.3	23.2	23.2	22.6	22.5	22.6	22.2	22.5	22.1	22.2	22.2	22.4	22.3	22.6	22.4	22.3	22.6	22.3	22.8	22.7	23.0	23.0	22.0	23.4	22.6
Jun 12	23.3	23.1	23.4	23.2	23.3	22.9	22.4	22.4	22.3	22.0	22.0	22.1	22.5	22.3	22.3	22.1	22.3	22.4	22.6	22.0	22.6	22.9	22.9	22.8	22.1	23.4	22.6
Jun 13	23.0	23.0	23.0	23.1	23.1	22.9	22.7	22.5	22.5	22.1	22.1	22.3	22.4	22.4	22.3	22.1	22.5	22.3	22.4	22.9	22.9	22.8	23.1	22.8	22.1	23.1	22.6
Jun 14	23.0	23.1	22.8	23.2	22.9	23.1	23.0	22.7	22.9	22.7	22.3	22.3	22.6	22.2	22.4	22.4	22.2	22.1	22.2	22.1	22.9	22.6	22.9	22.1	23.2	23.2	22.6
Jun 15	23.0	23.0	23.0	23.0	23.0	23.0	23.2	22.0	21.9	21.5	21.1	21.4	21.7	21.0	21.6	21.9	21.4	21.5	21.5	21.7	22.2	22.4	22.3	22.5	21.0	23.0	22.1
Jun 16	22.6	22.7	22.3	22.4	22.4	22.5	22.5	22.6	22.2	22.4	22.4	22.0	21.9	22.2	21.9	21.8	22.1	22.1	22.3	22.1	22.2	22.3	22.3	21.8	22.7	22.3	22.3
Jun 17	22.3	22.4	22.4	22.4	22.3	22.6	22.4	22.3	22.2	21.8	22.0	22.4	22.1	22.3	22.4	22.3	22.2	22.2	22.2	22.3	22.2	22.5	22.5	21.8	22.7	22.3	22.3
Jun 18	22.5	22.6	22.7	22.6	22.5	22.4	22.6	22.4	22.5	22.4	22.3	22.3	22.2	22.3	22.3	21.9	22.0	22.1	22.4	22.4	22.2	22.2	22.6	22.6	21.9	22.7	22.4
Jun 19	22.6	22.5	22.9	22.7	22.6	22.3	22.2	22.5	22.3	21.9	21.7	21.6	21.7	22.1	21.9	21.8	22.0	21.5	22.0	21.8	21.7	22.2	22.2	22.2	21.5	22.9	22.1
Jun 20	22.3	22.3	22.5	22.4	22.5	22.4	22.2	21.6	21.8	21.5	21.8	21.4	21.9	21.8	21.7	21.7	21.9	22.1	22.3	22.3	22.2	22.3	22.3	21.4	22.5	22.0	
Jun 21	22.4	22.4	22.6	22.8	22.6	22.4	22.2	21.9	22.0	21.9	21.9	22.0	21.8	21.8	22.0	21.9	21.8	21.7	22.0	22.0	22.3	22.3	22.3	21.7	22.8	22.1	
Jun 22	22.6	22.5	22.6	22.3	22.6	22.6	22.4	22.5	22.4	22.4	22.3	22.2	22.4	22.3	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.4	22.5	22.2	22.2	22.4	22.4
Jun 23	22.6	22.7	22.8	22.3	22.7	22.8	22.3	22.0	22.0	21.8	22.0	21.8	21.9	21.9	22.0	21.9	21.9	21.8	21.8	21.7	22.1	22.2	22.4	22.5	21.7	22.8	22.2
Jun 24	22.5	22.5	22.6	22.8	22.8	22.3	22.3	21.9	21.4	21.6	21.8	21.7	21.8	21.8	22.0	21.7	21.6	22.0	21.6	21.8	22.1	22.4	22.3	21.4	22.8	22.0	22.0
Jun 25	22.4	22.3	22.5	22.4	22.3	22.4	22.2	22.3	21.8	21.5	21.5	21.6	21.8	21.6	21.7	21.8	21.5	21.6	21.8	21.9	22.4	22.3	22.3	21.5	22.5	22.5	22.0
Jun 26	22.4	22.3	22.4	22.4	22.5	22.6	22.4	22.5	22.5	22.4	22.3	22.2	22.3	22.4	22.0	22.0	21.9	22.1	21.8	22.0	22.1	22.3	22.4	21.8	22.6	22.3	22.3
Jun 27	22.7	22.8	22.8	22.6	22.6	22.3	22.1	22.1	21.9	21.6	21.6	21.6	21.7	21.8	21.9	21.9	21.7	21.8	21.9	21.8	22.0	22.4	22.3	21.6	22.8	22.1	22.1
Jun 28	22.4	22.3	22.6	22.6	22.6	22.5	22.2	22.2	21.8	21.6	21.7	21.7	21.8	21.9	21.6	21.8	21.9	21.5	21.7	22.1	22.0	22.4	22.4	21.5	22.6	22.1	22.1
Jun 29	22.3	22.4	22.4	22.6	22.6	22.4	22.3	21.7	21.5	21.5	21.7	21.6	21.6	21.5	21.6	21.6	21.3	21.5	21.7	21.5	21.7	22.0	22.5	21.3	22.6	21.9	21.9
Jun 30	23.3	23.4	23.4	23.4	23.3	23.4	23.0	23.0	22.9	22.9	22.6	22.7	22.8	22.8	22.7	22.8	22.2	22.1	22.1	22.2	22.2	22.4	22.5	22.6	22.7	22.7	22.7
Diurnal Maximum	23.3	23.4	23.4	23.4	23.3	23.4	23.0	23.0	22.9	22.9	22.6	22.7	22.8	22.8	22.7	22.8	22.2	22.1	22.1	22.2	22.2	22.4	22.5	22.6	22.7	22.7	22.7
Diurnal Average	22.8	22.8	22.8	22.8	22.7	22.5	22.4	22.2	22.1	22.0	22.0	22.2	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.2	22.2	22.4	22.5	22.6	22.7	22.7	22.7

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for ST - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	29.0 kph	on June 4 at hour 10	Hours in Service:	720
Maximum Daily Value:	12.8 kph	on June 11	Hours of Data:	720
Minimum Hourly Value:	0.2 kph	on June 30 at hour 4	Hours of Missing Data:	0
Minimum Daily Value:	4.2 kph	on June 18	Hours of Calibration:	0
Monthly Average:	8.5 kph		Operational Uptime:	100.0

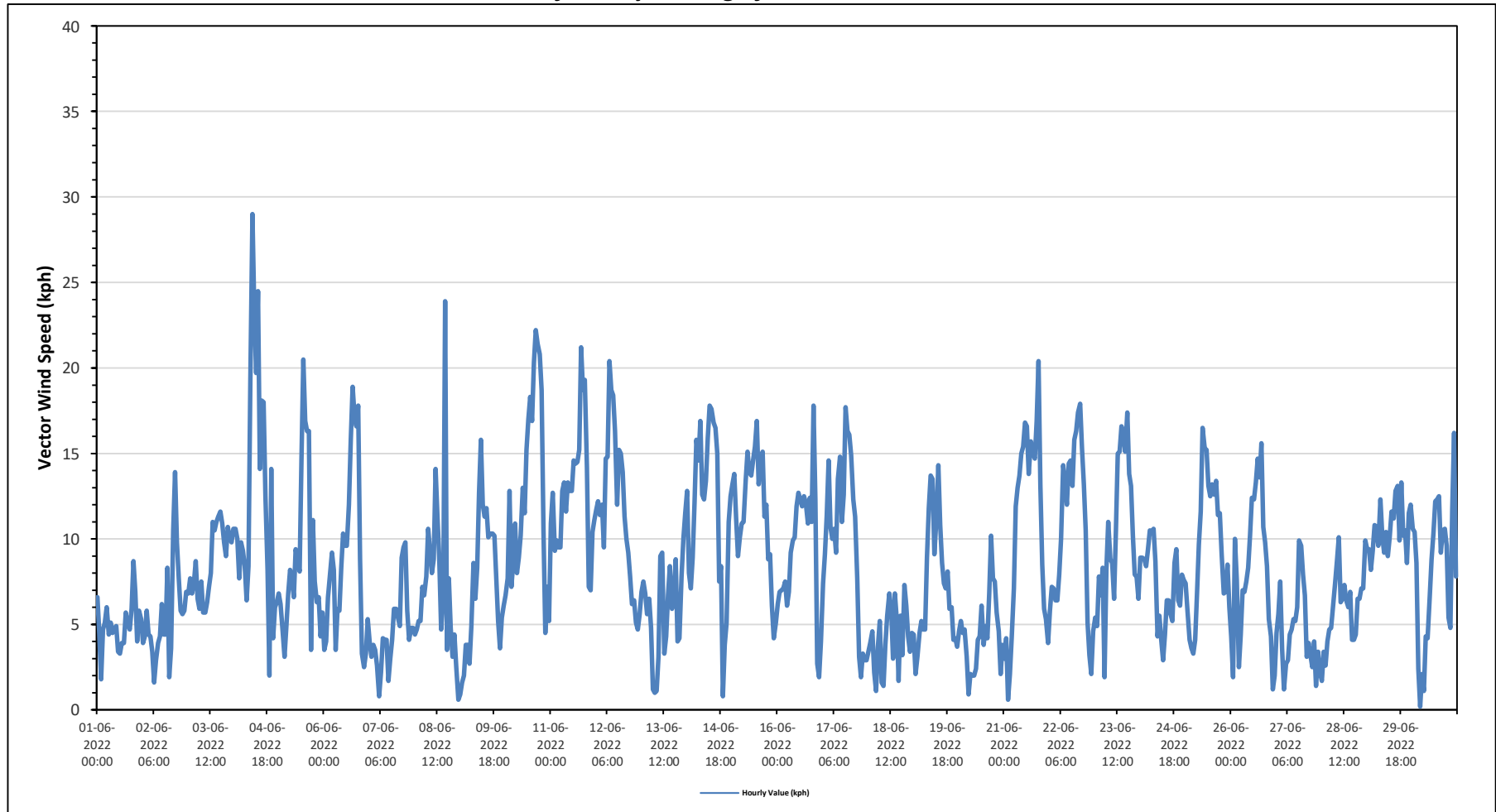
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	6.6	4.5	1.8	4.7	5.1	6.0	4.4	5.1	4.5	4.8	4.9	3.4	3.3	3.9	3.9	5.7	5.1	4.7	5.9	8.7	6.9	4.0	5.8	5.3	1.8	8.7	5.0
Jun 2	3.9	4.3	5.8	4.4	4.3	3.4	1.6	2.9	3.9	4.3	6.2	4.4	4.4	8.3	1.9	3.6	10.5	13.9	9.8	7.7	5.8	5.6	5.8	6.9	1.6	13.9	5.6
Jun 3	6.8	7.7	6.8	7.4	8.7	6.5	5.9	7.5	5.7	5.7	6.3	7.2	8.0	11.0	10.5	11.0	11.3	11.6	10.9	9.8	9.0	10.7	10.1	9.8	5.7	11.6	8.6
Jun 4	10.6	10.6	10.0	7.7	9.8	9.3	8.4	6.4	8.4	19.2	29.0	23.2	19.7	24.5	14.1	18.1	18.0	12.5	8.2	2.0	14.1	4.2	6.0	6.3	2.0	29.0	12.5
Jun 5	6.8	6.2	4.6	3.1	4.9	6.8	8.2	7.7	6.6	9.4	8.7	8.1	14.7	20.5	16.9	16.3	16.3	3.5	11.1	7.5	6.3	6.6	4.3	5.7	3.1	20.5	8.8
Jun 6	3.5	4.0	6.6	7.8	9.2	8.2	3.5	5.9	5.8	8.3	10.3	9.6	9.6	12.0	15.8	18.9	17.2	16.6	17.8	8.8	3.3	2.5	3.3	5.3	2.5	18.9	8.9
Jun 7	4.0	3.1	3.8	3.5	2.6	0.8	2.2	4.2	4.1	4.1	1.7	3.0	4.1	5.9	5.9	5.4	4.9	8.9	9.5	9.8	5.8	4.1	4.8	4.8	0.8	9.8	4.6
Jun 8	4.4	4.7	5.2	5.2	7.2	6.7	7.8	10.6	9.3	8.0	8.8	14.1	11.3	8.8	4.7	6.5	23.9	3.5	7.7	4.8	3.1	4.4	2.5	0.6	0.6	23.9	7.2
Jun 9	0.9	1.6	2.0	3.8	3.8	2.7	4.9	8.6	6.5	8.3	12.7	15.8	12.0	11.3	11.8	10.1	10.3	10.3	10.2	7.7	5.2	3.6	5.4	6.1	0.9	15.8	7.3
Jun 10	6.7	7.7	12.8	7.2	8.6	10.9	8.0	8.9	10.2	13.0	11.5	15.2	17.0	18.3	16.9	20.3	22.2	21.4	20.8	18.7	10.6	4.5	7.2	5.2	4.5	22.2	12.7
Jun 11	10.9	12.7	9.3	9.9	9.5	12.8	13.3	11.6	13.3	12.8	12.8	14.6	14.4	14.5	15.2	21.2	18.7	19.3	14.2	7.2	7.0	10.4	11.1	7.0	21.2	12.8	
Jun 12	11.7	12.2	11.4	12.0	9.5	14.7	14.8	20.4	18.7	18.4	16.3	12.0	15.2	15.0	13.9	11.3	10.0	9.2	7.8	6.2	6.4	5.1	4.7	5.6	4.7	20.4	11.8
Jun 13	6.9	7.5	6.8	5.6	6.5	4.8	1.2	1.0	1.1	3.1	9.0	9.2	3.3	4.3	6.7	8.4	5.9	6.5	8.8	4.0	4.2	7.8	10.0	11.5	1.0	11.5	6.0
Jun 14	12.8	8.0	7.1	8.9	12.1	15.8	14.6	16.9	12.6	12.3	13.4	15.9	17.8	17.6	16.8	16.5	15.0	7.5	8.4	0.8	3.8	5.1	11.0	12.5	0.8	17.8	11.8
Jun 15	13.2	13.8	11.2	9.0	10.1	10.9	11.0	13.4	15.1	13.9	13.7	14.6	15.4	16.9	13.2	14.7	15.1	11.3	12.0	8.8	9.1	6.1	4.2	5.1	4.2	16.9	11.7
Jun 16	6.2	6.9	7.0	7.1	7.5	6.1	6.9	9.2	9.9	10.1	11.9	12.7	12.3	11.9	12.5	12.1	10.9	12.4	11.0	17.8	12.3	2.7	1.9	4.0	1.9	17.8	9.3
Jun 17	7.4	9.1	11.4	14.6	10.7	10.0	10.6	9.2	13.5	14.8	11.0	12.6	17.7	16.3	16.1	14.9	12.3	11.3	7.7	3.1	1.9	3.3	2.9	2.9	1.9	17.7	10.2
Jun 18	3.4	3.9	4.6	2.2	1.1	3.7	5.2	1.6	1.4	3.8	5.5	6.8	5.9	3.0	6.8	5.3	1.7	5.5	3.2	7.3	6.1	4.3	3.4	4.5	1.1	7.3	4.2
Jun 19	4.4	2.1	3.1	4.5	5.2	4.7	4.7	8.9	11.8	13.7	13.5	9.1	11.3	14.3	10.8	8.6	7.4	7.1	8.1	5.9	6.0	4.1	4.2	3.7	2.1	14.3	7.4
Jun 20	4.6	5.2	4.5	4.7	3.1	0.9	2.1	2.0	2.0	2.4	4.1	4.3	6.1	3.8	4.9	4.2	6.8	10.2	7.7	7.5	5.7	4.6	2.1	3.8	0.9	10.2	4.5
Jun 21	3.0	4.2	0.6	2.1	4.3	7.1	11.9	13.0	13.7	15.0	15.4	16.8	16.6	13.8	15.7	15.0	14.7	16.9	20.4	13.1	8.5	5.9	5.3	3.9	0.6	20.4	10.7
Jun 22	5.8	7.2	7.1	6.4	6.4	7.9	10.0	14.3	13.4	12.0	14.4	14.6	13.1	15.8	16.3	17.4	17.9	15.3	13.2	10.5	5.1	3.2	2.1	4.6	2.1	17.9	10.6
Jun 23	5.4	4.9	7.8	6.7	8.3	1.9	8.2	11.0	8.8	8.6	6.5	10.5	15.0	15.1	16.6	16.1	15.1	17.4	13.8	13.1	10.2	7.9	7.8	6.5	1.9	17.4	10.1
Jun 24	8.9	8.9	8.8	8.4	9.4	10.5	10.4	10.6	8.7	4.3	5.5	4.1	2.9	4.4	6.4	6.4	5.6	5.2	8.6	9.4	6.4	6.1	7.9	7.6	2.9	10.6	7.3
Jun 25	7.4	5.8	4.1	3.6	3.3	4.1	6.8	9.7	11.6	16.5	15.3	15.2	13.1	12.5	13.2	12.6	13.4	11.4	11.5	9.1	6.8	6.9	8.5	6.0	3.3	16.5	9.5
Jun 26	4.3	1.9	10.0	7.6	2.5	4.4	7.0	6.9	7.5	8.3	10.2	12.4	12.3	13.3	14.7	13.6	15.6	10.7	9.8	8.4	5.3	4.3	1.2	2.0	1.2	15.6	8.1
Jun 27	4.5	5.6	7.5	3.6	1.2	2.7	2.9	4.4	4.7	5.3	5.2	6.0	9.9	9.6	7.9	6.7	3.1	3.9	3.2	2.5	4.0	1.4	3.4	2.2	1.2	9.9	4.6
Jun 28	1.7	3.4	2.6	4.0	4.7	4.8	6.2	7.4	8.7	10.1	6.3	6.5	7.3	6.4	6.0	6.9	4.1	4.1	4.4	6.5	6.5	7.1	7.1	9.9	1.7	10.1	5.9
Jun 29	9.4	9.4	8.2	9.3	10.8	10.7	9.6	12.3	10.2	9.2	10.4	9.0	10.1	11.6	11.2	12.8	13.1	9.9	13.3	10.2	10.5	8.6	11.5	12.0	8.2	13.3	10.6
Jun 30	10.6	10.4	8.6	2.4	0.2	2.1	1.1	4.3	4.2	6.6	8.8	10.3	12.2	12.3	12.5	9.2	10.5	10.6	9.6	5.4	4.8	11.7	16.2	7.8	0.2	16.2	8.0
Diurnal Maximum	13	14	13	15	12	16	15	20	19	19	29	23	20	25	17	20	24	21	21	19	14	12	16	13			
Diurnal Average	6.6	6.6	6.7	6.2	6.4	6.6	7.1	8.6	8.5	9.6	10.3	10.6	11.2	11.9	11.3	11.5	12.0	10.4	10.5	8.3	6.7	5.4	6.0	6.1			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	Invalid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

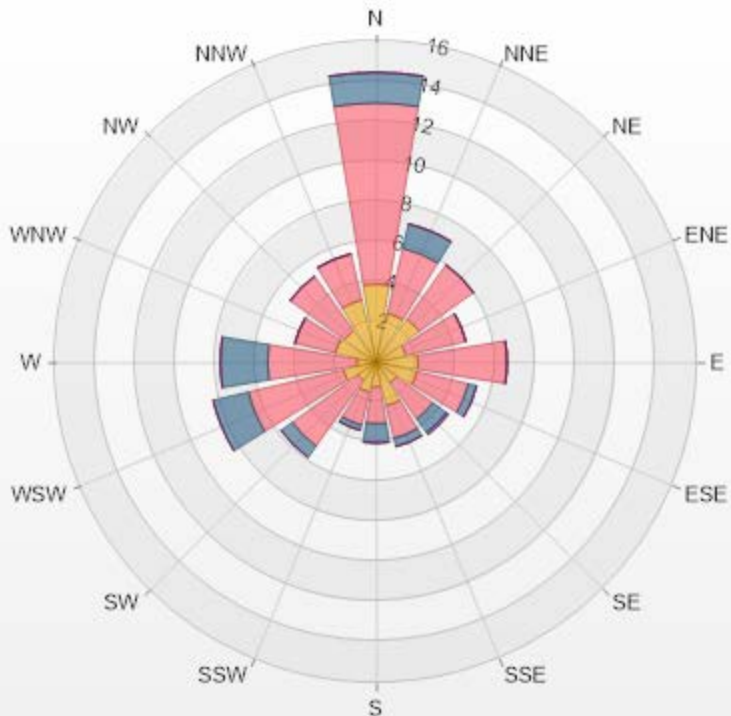
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for VWS - AQHI - Grimshaw Station



Wind: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 06-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 3.06% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	3.89	9.03	1.53	0	0	14.45
NNE	2.5	3.33	1.25	0	0	7.08
NE	2.64	3.33	0	0	0	5.97
ENE	1.53	3.06	0	0	0	4.59
E	2.08	4.44	0	0	0	6.52
ESE	2.08	2.64	0.42	0	0	5.14
SE	1.25	2.22	0.83	0.14	0	4.44
SSE	2.22	1.67	0.42	0	0	4.31
S	1.25	1.81	0.97	0	0	4.03
SSW	1.53	1.67	0.28	0	0	3.48
SW	1.11	4.03	0.69	0	0	5.83
WSW	1.67	4.86	1.81	0	0	8.34
W	0.97	4.44	2.36	0	0	7.77
WNW	2.08	2.08	0	0	0	4.16
NW	1.94	3.33	0	0	0	5.27
NNW	3.19	2.36	0	0	0	5.55
Summary	31.93	54.3	10.56	0.14	0	96.93



PRAMP-202206

Page 271 of 276

% Icon Classes (KPH)	32	1.8-6.0	54	6.0-15.0	11	15.0-29.0	0	29.0-39.0	0	>39.0
										



PEACE RIVER AREA MONITORING PROGRAM

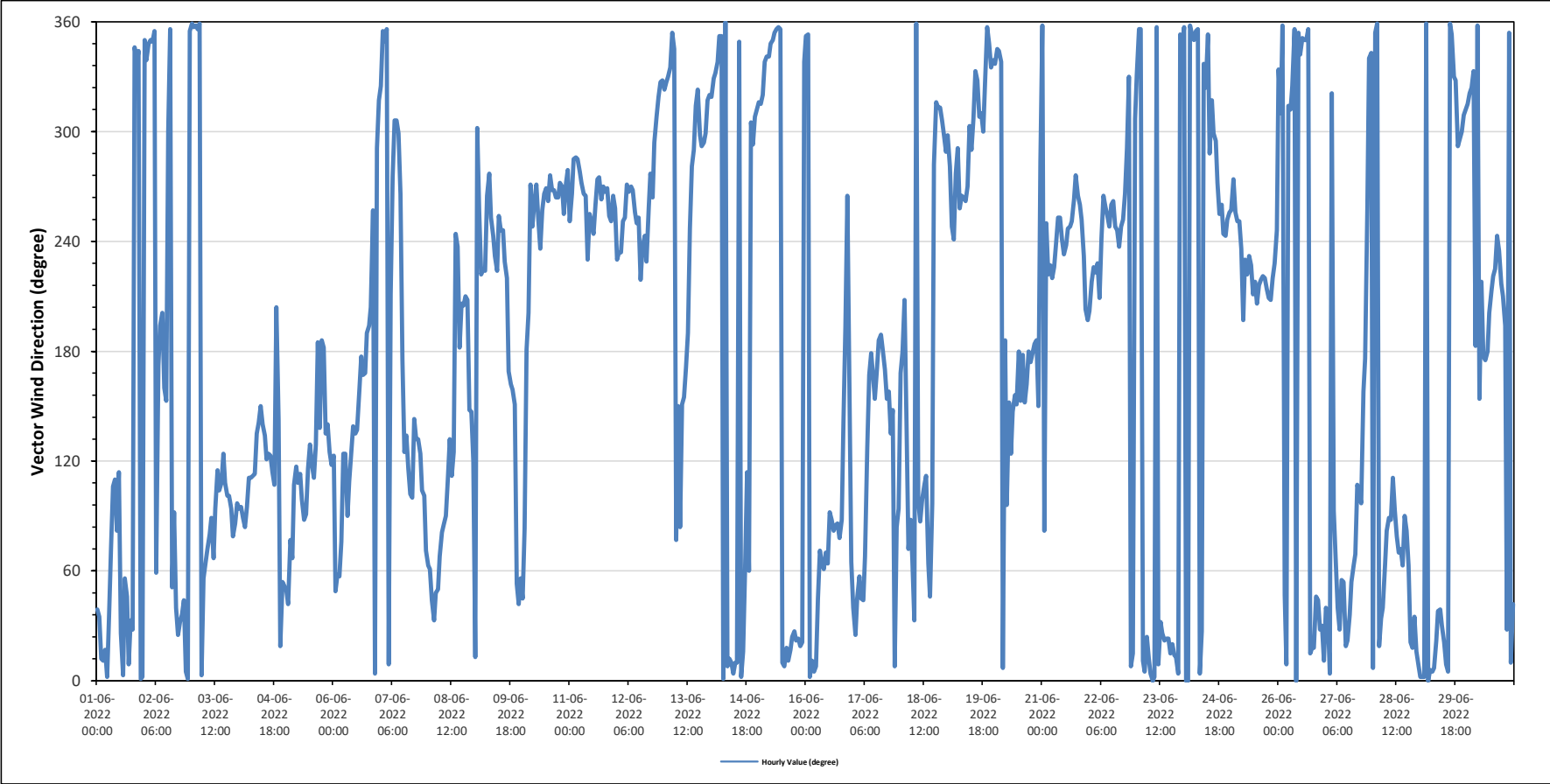
AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		349 (NNW) degree														Hours in Service:		720															
																Hours of Data:		720															
																Hours of Missing Data:		0															
																Hours of Calibration:		0															
																Operational Uptime:		100.0															
Day	Hourly Period Starting at (MST)																							Daily Average									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant							
Jun 1	NE	NE	NNE	NNE	NNE	N	NE	ENE	ESE	ESE	E	ESE	NNE	N	NE	NE	N	NNE	NNE	NNW	NNW	NNW	N	N	30	NNE							
Jun 2	N	NNW	NNW	N	NNW	N	ENE	S	SSW	SSW	SSE	SSE	WNNW	N	NE	E	NE	NNE	NNE	NE	NE	N	N	N	19	NNE							
Jun 3	N	N	N	N	N	N	NE	ENE	ENE	E	E	ENE	E	ESE	ESE	ESE	ESE	ESE	E	E	E	ENE	E	E	72	ENE							
Jun 4	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SE	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE	SSW	SE	NNE	NE	NE	112	ESE							
Jun 5	NE	NE	ENE	ENE	ESE	ESE	ESE	ESE	E	E	E	ESE	SE	ESE	ESE	SE	S	SE	S	S	SE	SE	SE	ESE	115	ESE							
Jun 6	ESE	NE	ENE	ENE	ENE	ESE	ESE	E	ESE	SE	SE	SE	SE	SSE	S	SSE	SSE	S	SSW	SSW	WSW	N	WNNW	NW	133	SE							
Jun 7	NW	N	NNW	N	N	SSW	W	NW	NW	WNNW	W	S	SE	SE	ESE	E	E	SE	SE	SE	ESE	ESE	E	ENE	94	E							
Jun 8	ENE	ENE	NE	NNE	NE	NE	ENE	E	E	ESE	SE	ESE	SE	WSW	SW	S	SSW	SSW	SSW	SSW	SE	SE	ESE	ESE	117	ESE							
Jun 9	NNE	WNNW	WSW	SW	SW	SW	W	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	SW	SSE	SSE	SSE	SSE	SE	SE	NE	NE	233	SW							
Jun 10	NE	E	S	SSW	W	WSW	W	W	WSW	SW	WSW	W	W	W	W	W	W	W	W	W	W	WSW	W	W	260	WSW							
Jun 11	WSW	W	WNNW	WNNW	WNNW	W	W	W	W	SW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	WSW	WSW	W	WSW	264	W						
Jun 12	SW	SW	SW	WSW	WSW	W	W	W	WSW	WSW	WSW	SW	SW	WSW	WSW	SW	WSW	W	W	WNNW	NW	NW	NNW	NNW	263	W							
Jun 13	NW	NW	NNW	NNW	N	NNW	ENE	SSE	E	SSE	SSE	S	S	WSW	W	WNNW	NW	NW	WNNW	WNNW	WNNW	NW	NW	NW	306	NW							
Jun 14	NW	NNW	NNW	NNW	N	N	N	N	NNE	N	N	N	N	N	NNW	N	NNE	ENE	ENE	WNNW	WNNW	NW	NW	NW	355	N							
Jun 15	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNW	358	N							
Jun 16	N	N	N	NNE	N	N	NE	ENE	ENE	ENE	ENE	E	E	E	E	E	ENE	E	SE	S	W	SSE	ENE	ENE	62	ENE							
Jun 17	NE	NNE	NE	ENE	NE	NE	ENE	SE	SSE	S	SSE	SSE	S	S	S	SSE	SSE	SSE	SE	SE	N	E	E	E	123	ESE							
Jun 18	SSE	S	SSW	SE	ENE	E	ENE	NNE	N	E	E	E	ESE	ESE	ENE	NE	E	W	NW	NW	NW	NW	WNNW	WNNW	63	ENE							
Jun 19	WNNW	W	WSW	WSW	W	WNNW	WSW	W	W	W	W	WNNW	WNNW	NW	NNW	NNW	NW	WNNW	WNNW	NNW	N	NNW	NNW	NNW	297	WNNW							
Jun 20	NNW	NNW	NNW	NNW	N	S	E	SSE	ESE	SE	SSE	SSE	S	SSE	SSE	SSE	S	S	S	S	S	SSE	W	W	163	SSE							
Jun 21	N	E	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	W	W	W	WSW	WSW	SW	SSW	SSW	242	WSW							
Jun 22	SSW	SW	SW	SW	SW	SSW	WSW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	WSW	WSW	W	WNNW	NNW	N	NNE	NW	255	WSW							
Jun 23	NNW	N	N	NNE	N	NNE	NNE	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNW	8	N							
Jun 24	N	N	N	N	N	N	N	N	N	NNE	NNW	NW	N	WNNW	NW	WNNW	WNNW	W	WSW	WSW	WSW	WSW	WSW	WSW	319	NW							
Jun 25	WSW	W	WSW	WSW	WSW	SW	SSW	SW	SW	SW	SW	SSW	SW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	WSW	228	SW							
Jun 26	NNW	NW	N	NE	N	NW	NW	N	N	N	NNW	N	N	N	NNE	NNE	NNE	NNE	NE	NE	NE	NNE	NNE	NNE	0	N							
Jun 27	NE	NE	N	NW	E	ENE	NE	NNE	NE	NE	NNE	NNE	NE	NE	ENE	ENE	ESE	ESE	E	SSE	S	WSW	NNW	NNW	48	NE							
Jun 28	N	N	N	NNE	NE	NE	ENE	E	E	ESE	E	ENE	ENE	ENE	ENE	E	E	ENE	NNE	NNE	NE	NNE	N	N	52	NE							
Jun 29	N	N	N	N	N	N	N	N	NNE	NE	NE	NNE	NNE	N	N	N	N	NNW	NNW	WNNW	WNNW	WNNW	NW	NW	354	N							
Jun 30	NW	NW	NW	NNW	S	N	SSE	SW	S	S	S	SSW	SSW	SW	SW	WSW	SW	SSW	SSW	SSW	NNE	N	N	NE	234	SW							
C	Monthly Calibration														S	Daily Zero-Span Check							Q	Quality Assurance									
K	Collection Error														N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure	
X	Invalid Data (Machine Malfunction /Recovery)														NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																	
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																	
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																	

Timeseries Chart of Hourly Average for VWD - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																											
Maximum Hourly Value:	29.0	kph	on June 4 at hour 10	Hours in Service:	720																						
Maximum Daily Value:	12.8	kph	on June 11	Hours of Data:	720																						
Minimum Hourly Value:	0.2	kph	on June 30 at hour 4	Hours of Missing Data:	0																						
Minimum Daily Value:	4.2	kph	on June 18	Hours of Calibration:	0																						
Monthly Average:	8.5	kph		Operational Uptime:	100																						
WIND DIRECTION																											
Monthly Average:	349 (NNW) degree																										
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Jun 1	6.6	4.5	1.8	4.7	5.1	6.0	4.4	5.1	4.5	4.8	4.9	3.4	3.3	3.9	3.9	5.7	5.1	4.7	5.9	8.7	6.9	4.0	5.8	5.3	1.8	8.7	5.0
Jun 2	3.9	4.3	5.8	4.4	4.3	3.4	1.6	2.9	3.9	4.3	6.2	4.4	4.4	8.3	1.9	3.6	10.5	13.9	9.8	7.7	5.8	5.6	5.8	6.9	1.6	13.9	5.6
Jun 3	6.8	7.7	6.8	7.4	8.7	6.5	5.9	7.5	5.7	5.7	6.3	7.2	8.0	11.0	10.5	11.0	11.3	11.6	10.9	9.8	9.0	10.7	10.1	9.8	5.7	11.6	8.6
Jun 4	10.6	10.6	10.0	7.7	9.8	9.3	8.4	6.4	8.4	19.2	29.0	23.2	19.7	24.5	14.1	18.1	18.0	12.5	8.2	2.0	14.1	4.2	6.0	6.3	2.0	29.0	12.5
Jun 5	6.8	6.2	4.6	3.1	4.9	6.8	8.2	7.7	6.6	9.4	8.7	8.1	14.7	20.5	16.9	16.3	16.3	3.5	11.1	7.5	6.3	6.6	4.3	5.7	3.1	20.5	8.8
Jun 6	3.5	4.0	6.6	7.8	9.2	8.2	3.5	5.9	5.8	8.3	10.3	9.6	12.0	15.8	18.9	17.2	16.6	17.8	8.8	3.3	2.5	3.3	5.3	2.5	18.9	8.9	
Jun 7	4.0	3.1	3.8	3.5	2.6	0.8	2.2	4.2	4.1	4.1	1.7	3.0	4.1	5.9	5.9	5.4	4.9	8.9	9.5	9.8	5.8	4.1	4.8	4.8	0.8	9.8	4.6
Jun 8	4.4	4.7	5.2	5.2	7.2	6.7	7.8	10.6	9.3	8.0	8.8	14.1	11.3	8.8	4.7	6.5	23.9	3.5	7.7	4.8	3.1	4.4	2.5	0.6	0.6	23.9	7.2
Jun 9	0.9	1.6	2.0	3.8	3.8	2.7	4.9	8.6	6.5	8.3	12.7	15.8	12.0	11.3	11.8	10.1	10.3	10.3	10.2	7.7	5.2	3.6	5.4	6.1	0.9	15.8	7.3
Jun 10	6.7	7.7	12.8	7.2	8.6	10.9	8.0	8.9	10.2	13.0	11.5	15.2	17.0	18.3	16.9	20.3	22.2	21.4	20.8	18.7	10.6	4.5	7.2	5.2	4.5	22.2	12.7
Jun 11	10.9	12.7	9.3	9.9	9.5	9.5	12.8	13.3	11.6	13.3	12.8	14.6	14.4	14.5	15.2	21.2	18.7	19.3	14.2	7.2	7.0	10.4	11.1	7.0	21.2	12.8	
Jun 12	11.7	12.2	11.4	12.0	9.5	14.7	14.8	20.4	18.7	18.4	16.3	12.0	15.2	15.0	13.9	11.3	10.0	9.2	7.8	6.2	6.4	5.1	4.7	5.6	4.7	20.4	11.8
Jun 13	6.9	7.5	6.8	5.6	6.5	4.8	1.2	1.0	1.1	3.1	9.0	9.2	3.3	4.3	6.7	8.4	5.9	6.5	8.8	4.0	4.2	7.8	10.0	11.5	1.0	11.5	6.0
Jun 14	12.8	8.0	7.1	8.9	12.1	15.8	14.6	16.9	12.6	12.3	13.4	15.9	17.8	17.6	16.8	16.5	15.0	7.5	8.4	0.8	3.8	5.1	11.0	12.5	0.8	17.8	11.8
Jun 15	13.2	13.8	11.2	9.0	10.1	10.9	11.0	13.4	15.1	13.9	13.7	14.6	15.4	16.9	13.2	14.7	15.1	11.3	12.0	8.8	9.1	6.1	4.2	5.1	4.2	16.9	11.7
Jun 16	6.2	6.9	7.0	7.1	7.5	6.1	6.9	9.2	9.9	10.1	11.9	12.7	12.3	11.9	12.5	12.1	10.9	12.4	11.0	17.8	12.3	2.7	1.9	4.0	1.9	17.8	9.3
Jun 17	7.4	9.1	11.4	14.6	10.7	10.0	10.6	9.2	13.5	14.8	11.0	12.6	17.7	16.3	16.1	14.9	12.3	11.3	7.7	3.1	1.9	3.3	2.9	2.9	1.9	17.7	10.2
Jun 18	3.4	3.9	4.6	2.2	1.1	3.7	5.2	1.6	1.4	3.8	5.5	6.8	5.9	3.0	6.8	5.3	1.7	5.5	3.2	7.3	6.1	4.3	3.4	4.5	1.1	7.3	4.2
Jun 19	4.4	2.1	3.1	4.5	5.2	4.7	4.7	8.9	11.8	13.7	13.5	9.1	11.3	14.3	10.8	8.6	7.4	7.1	8.1	5.9	6.0	4.1	4.2	3.7	2.1	14.3	7.4
Jun 20	4.6	5.2	4.5	4.7	3.1	0.9	2.1	2.0	2.0	2.4	4.1	4.3	6.1	3.8	4.9	4.2	6.8	10.2	7.7	7.5	5.7	4.6	2.1	3.8	0.9	10.2	4.5



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - June 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																																				
Maximum Hourly Value:	29.0	kph	on June 4 at hour 10	Hours in Service:	720																															
Maximum Daily Value:	12.8	kph	on June 11	Hours of Data:	720																															
Minimum Hourly Value:	0.2	kph	on June 30 at hour 4	Hours of Missing Data:	0																															
Minimum Daily Value:	4.2	kph	on June 18	Hours of Calibration:	0																															
Monthly Average:	8.5	kph		Operational Uptime:	100																															
WIND DIRECTION																																				
Monthly Average:	349 (NNW) degree																																			
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23												
Jun 21	3.0	4.2	0.6	2.1	4.3	7.1	11.9	13.0	13.7	15.0	15.4	16.8	16.6	13.8	15.7	15.0	14.7	16.9	20.4	13.1	8.5	5.9	5.3	3.9	0.6	20.4	10.7									
	N	E	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	W	W	W	WSW	WSW	SW	SSW	SSW													
Jun 22	5.8	7.2	7.1	6.4	6.4	7.9	10.0	14.3	13.4	12.0	14.4	14.6	13.1	15.8	16.3	17.4	17.9	15.3	13.2	10.5	5.1	3.2	2.1	4.6	2.1	17.9	10.6									
	SSW	SW	SW	SW	SW	SSW	WSW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	WSW	WSW	W	WNW	NNW	N	NNE	NW												
Jun 23	5.4	4.9	7.8	6.7	8.3	1.9	8.2	11.0	8.8	8.6	6.5	10.5	15.0	15.1	16.6	16.1	15.1	17.4	13.8	13.1	10.2	7.9	7.8	6.5	1.9	17.4	10.1									
	NNW	N	N	NNE	N	NNE	NNE	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNW												
Jun 24	8.9	8.9	8.8	8.4	9.4	10.5	10.4	10.6	8.7	4.3	5.5	4.1	2.9	4.4	6.4	6.4	5.6	5.2	8.6	9.4	6.4	6.1	7.9	7.6	2.9	10.6	7.3									
	N	N	N	N	N	N	N	N	N	NNE	NNW	NW	N	WNW	NW	WNW	WNW	W	WSW	WSW	WSW	WSW	WSW	WSW												
Jun 25	7.4	5.8	4.1	3.6	3.3	4.1	6.8	9.7	11.6	16.5	15.3	15.2	13.1	12.5	13.2	12.6	13.4	11.4	11.5	9.1	6.8	6.9	8.5	6.0	3.3	16.5	9.5									
	WSW	W	WSW	WSW	WSW	SW	SSW	SW	SW	SW	SW	SSW	SW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	WSW												
Jun 26	4.3	1.9	10.0	7.6	2.5	4.4	7.0	6.9	7.5	8.3	10.2	12.4	12.3	13.3	14.7	13.6	15.6	10.7	9.8	8.4	5.3	4.3	1.2	2.0	1.2	15.6	8.1									
	NNW	NW	N	NE	N	NW	NW	NW	N	N	NNW	N	N	N	N	N	NNE	NNE	NNE	NE	NE	NNE	NNE	NNE												
Jun 27	4.5	5.6	7.5	3.6	1.2	2.7	2.9	4.4	4.7	5.3	5.2	6.0	9.9	9.6	7.9	6.7	3.1	3.9	3.2	2.5	4.0	1.4	3.4	2.2	1.2	9.9	4.6									
	NE	NE	N	NW	E	ENE	NE	NNE	NE	NE	NNE	NNE	NE	NE	ENE	ENE	ESE	ESE	E	SSE	S	WSW	NNW	NNW												
Jun 28	1.7	3.4	2.6	4.0	4.7	4.8	6.2	7.4	8.7	10.1	6.3	6.5	7.3	6.4	6.0	6.9	4.1	4.1	4.4	6.5	6.5	7.1	7.1	9.9	1.7	10.1	5.9									
	N	N	N	NNE	NE	NE	ENE	E	E	E	ESE	E	ENE	ENE	ENE	ENE	E	E	ENE	NNE	NNE	NE	NNE	N												
Jun 29	9.4	9.4	8.2	9.3	10.8	10.7	9.6	12.3	10.2	9.2	10.4	9.0	10.1	11.6	11.2	12.8	13.1	9.9	13.3	10.2	10.5	8.6	11.5	12.0	8.2	13.3	10.6									
	N	N	N	N	N	N	N	N	NNE	NE	NE	NNE	NNE	N	N	N	N	NNW	NNW	WNW	WNW	WNW	NW	NW												
Jun 30	10.6	10.4	8.6	2.4	0.2	2.1	1.1	4.3	4.2	6.6	8.8	10.3	12.2	12.3	12.5	9.2	10.5	10.6	9.6	5.4	4.8	11.7	16.2	7.8	0.2	16.2	8.0									
	NW	NW	NW	NNW	S	N	SSE	SW	S	S	S	SSW	SSW	SW	SW	WSW	SW	SSW	SSW	NNE	N	N	NE													
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance													
K	Collection Error										N	No Data (Machine Not in Service)										Y	Routine Maintenance					P	Power Failure							
X	Invalid Data (Equipment Malfunction/Recovery)										NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																				
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																				

END OF REPORT

This page, 276 of 276, ends the June 2022 Monthly Ambient Air Quality Monitoring Report.



Peace River Area Monitoring Program

JUNE 2022

Ambient Air Monitoring Calibration Report

- 842b STATION-

CAL-PRAMP-202206-01561

Operation and Maintenance:

Bureau Veritas Canada

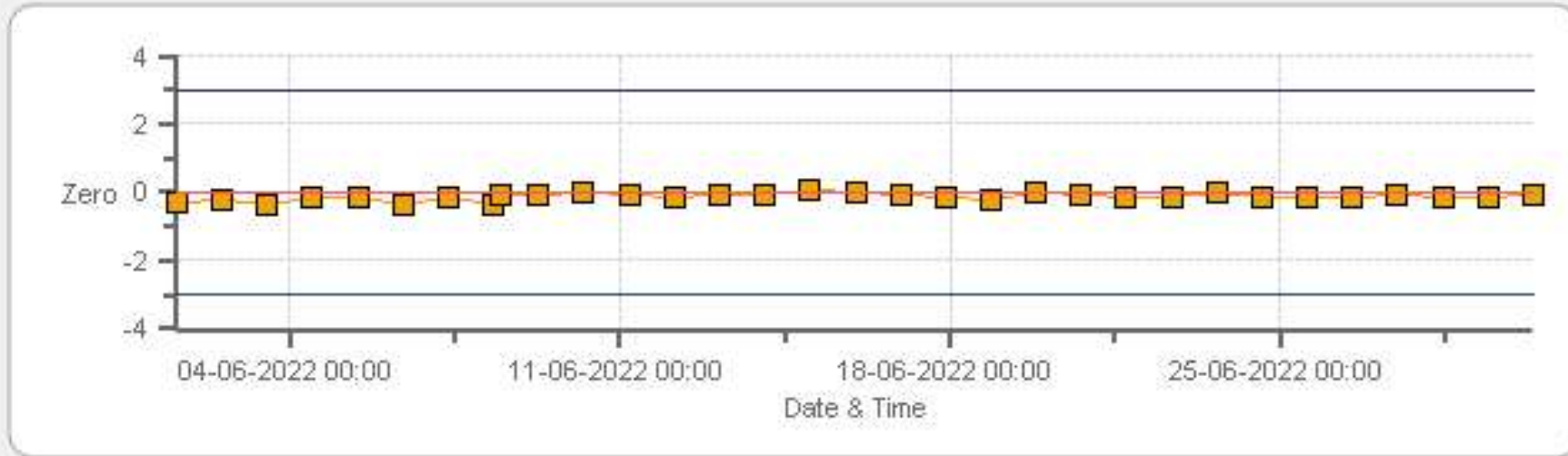
Data Validation and Report:

Bureau Veritas Canada

July 25, 2022

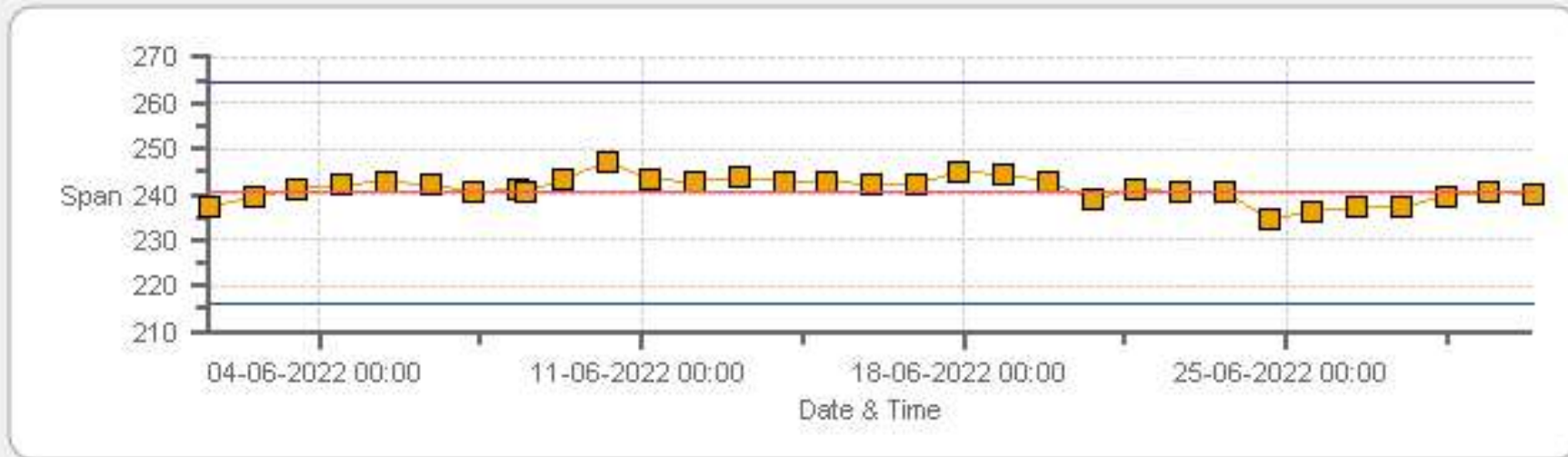
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Zero



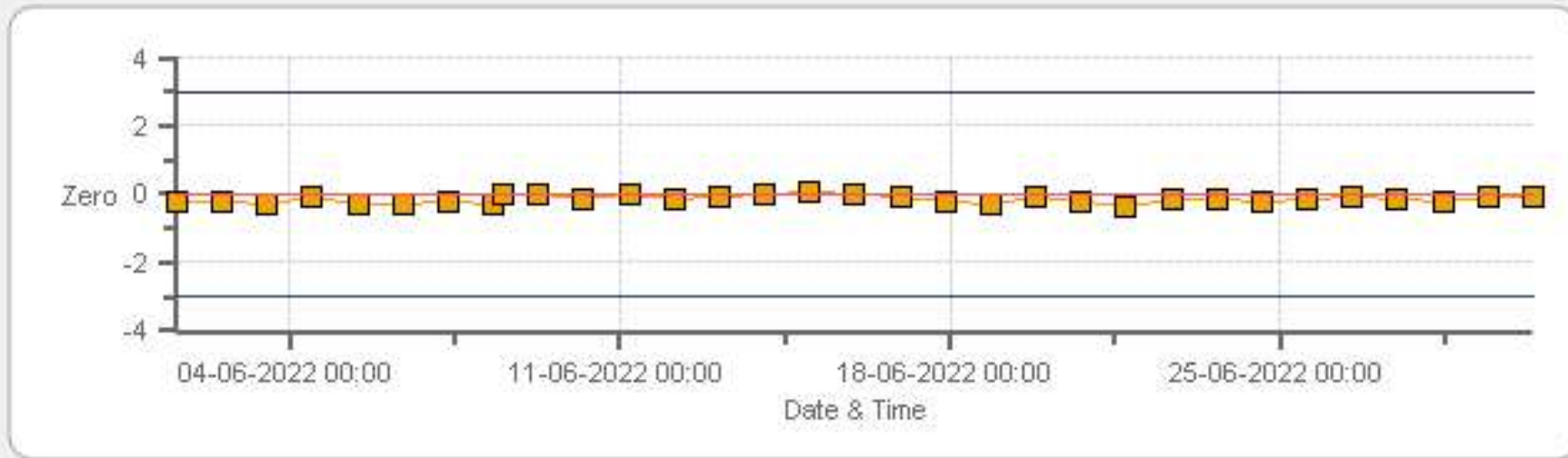
■ Zero
 — Zero Ref
 — Zero Low
 — Zero High

SO2[ppb] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Span



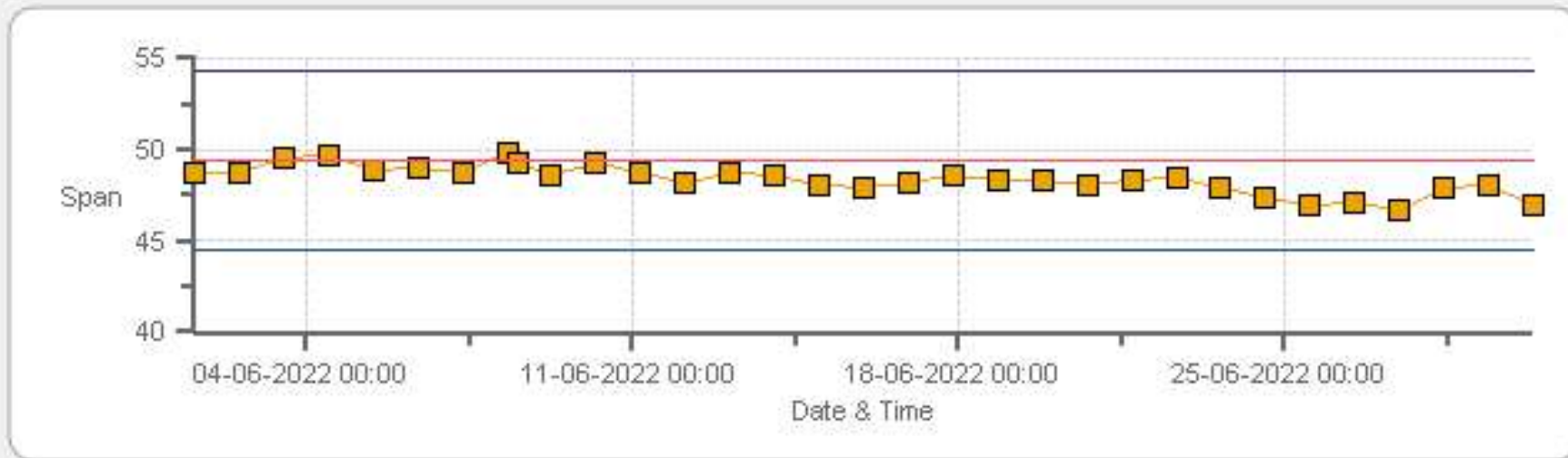
■ Span
 — SpanRef
 — Span Low
 — Span High

TRS[ppb] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Zero



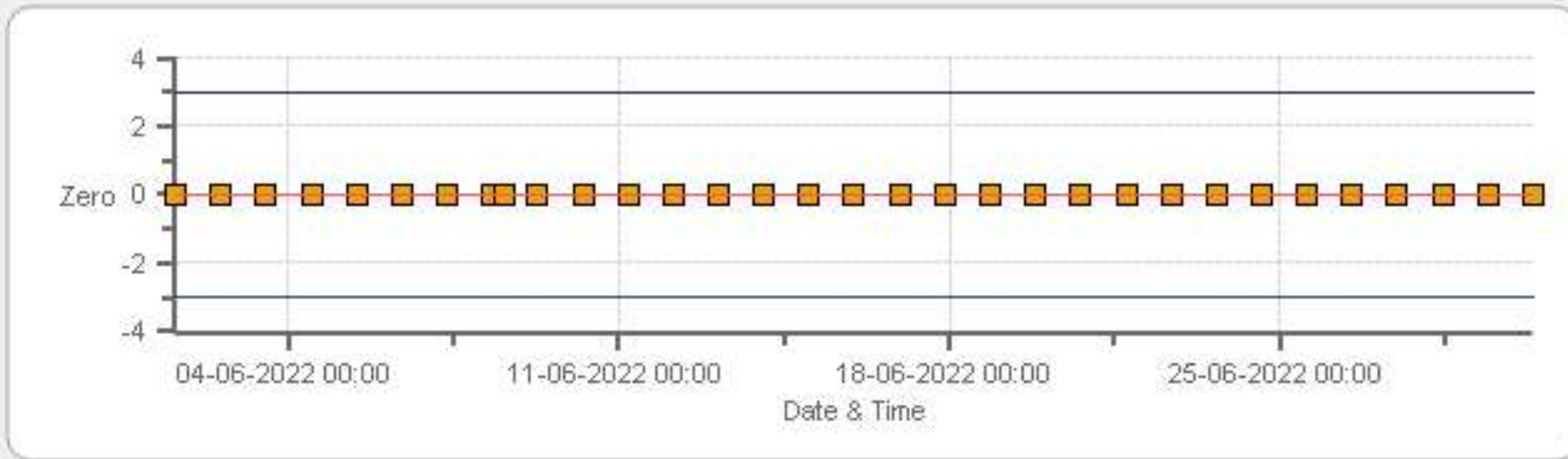
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Span



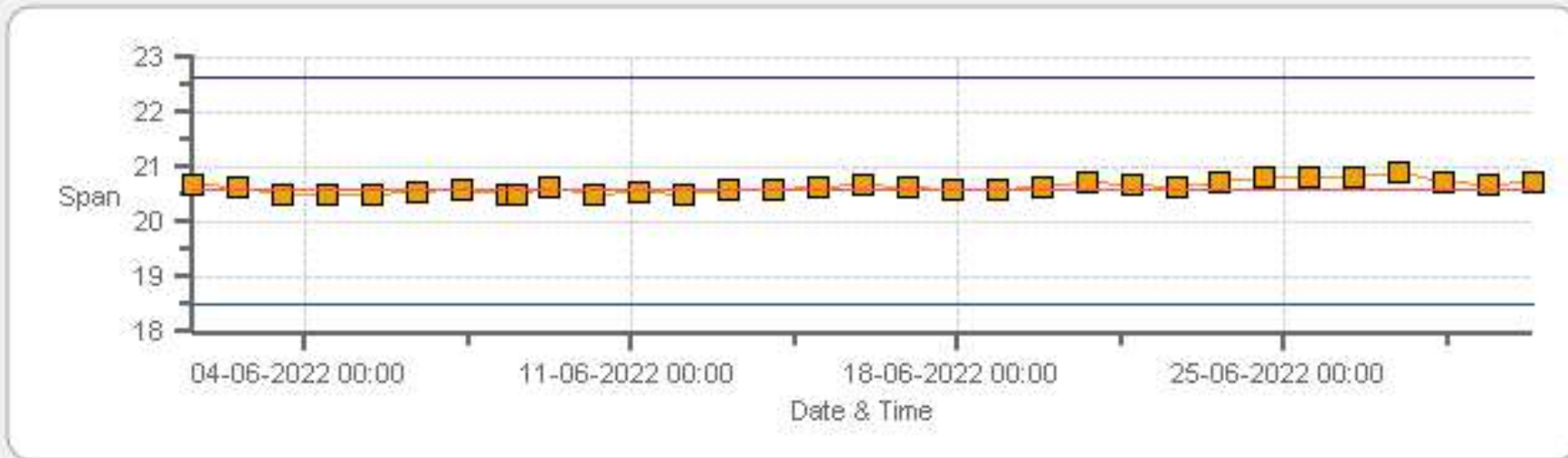
Span Span Ref Span Low Span High

THC55[ppm] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Zero



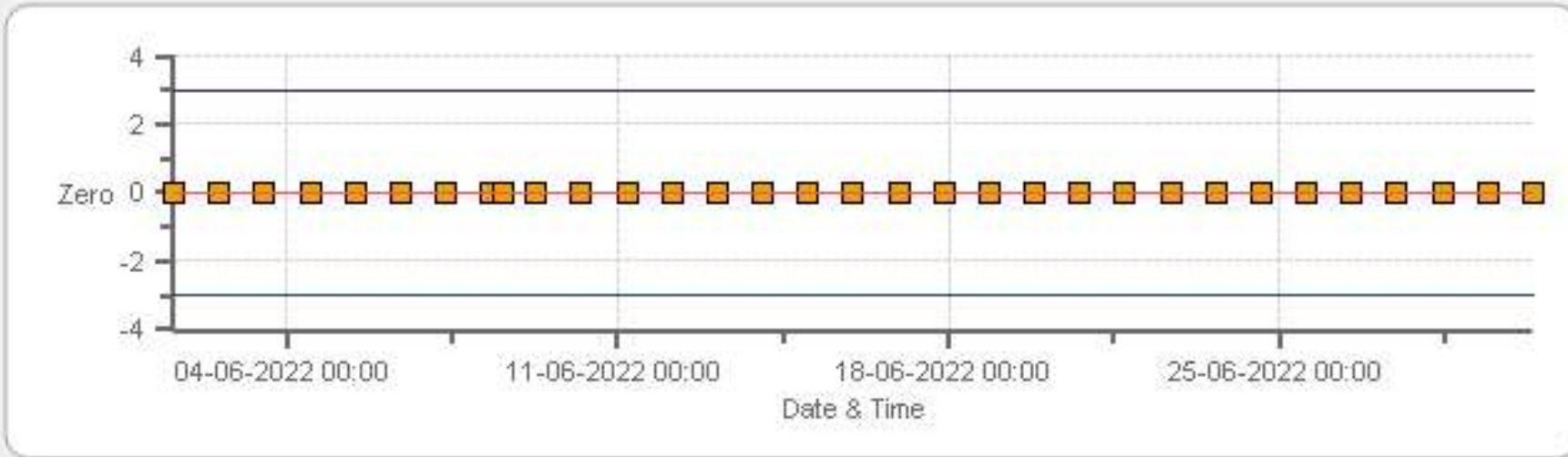
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Span



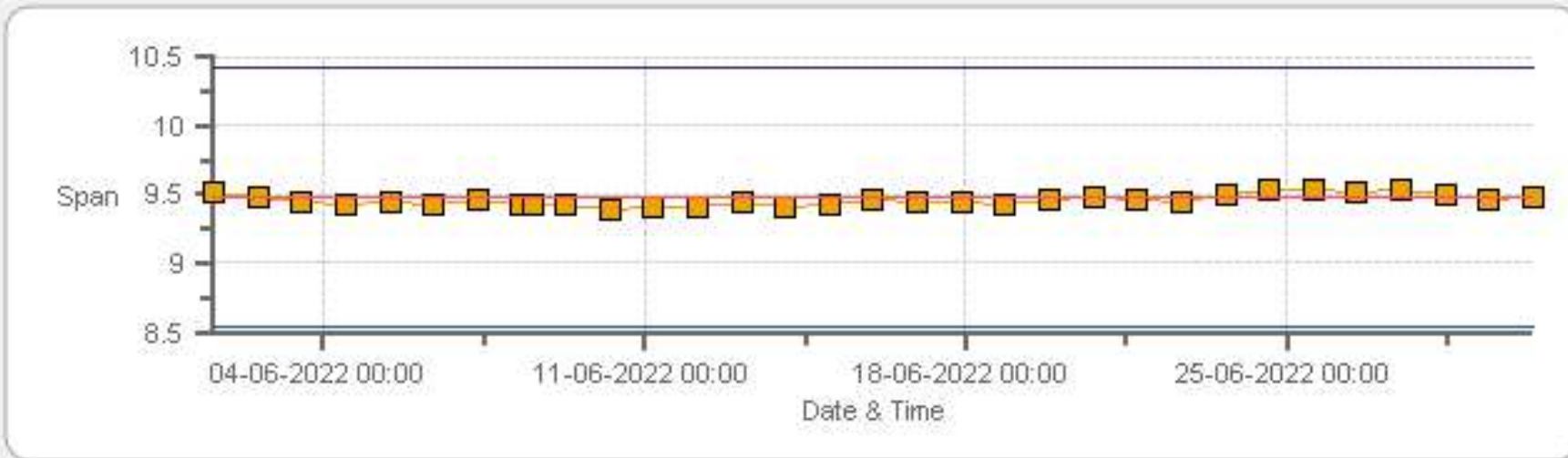
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Zero



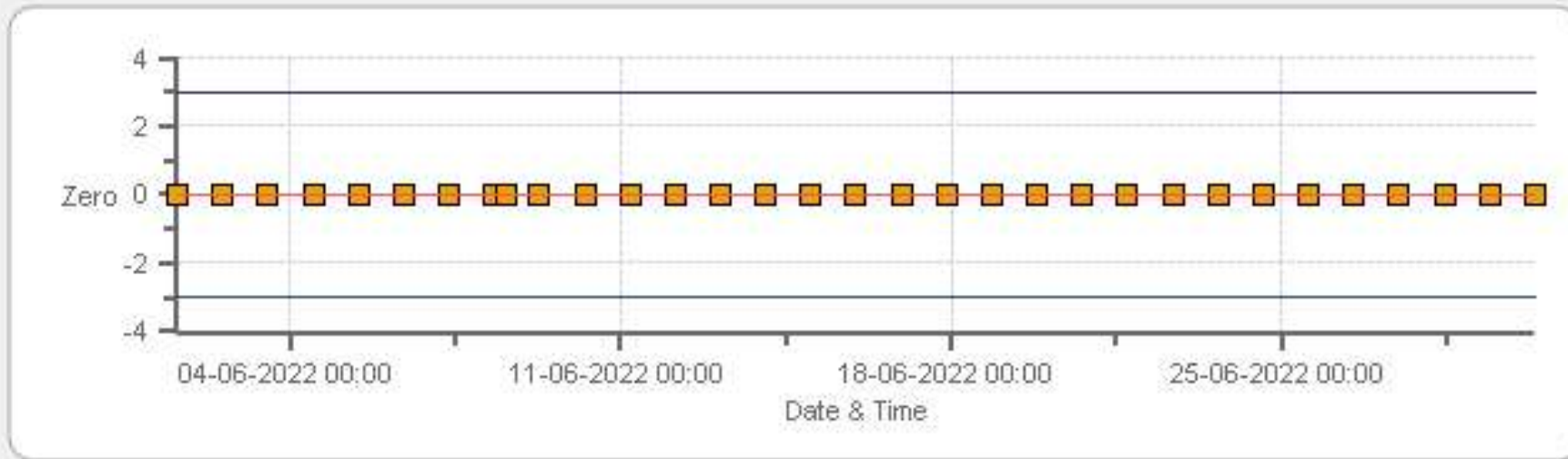
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Span



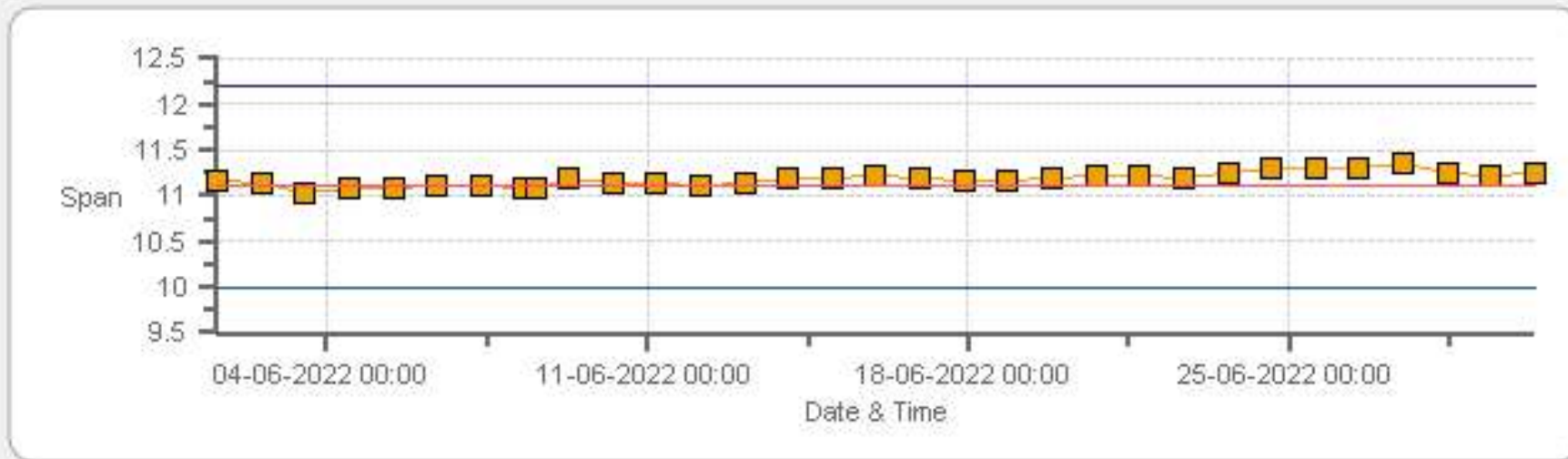
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 06-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	08-Jun-2022	PREVIOUS CALIBRATION DATE:	11-May-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	23.2
LOCATION:	842b	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	07:46
PERFORMED BY:	Limin Li	END TIME (MST):	11:13

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	423
INITIAL		FINAL	
BKG/OFFSET	8.3	BKG/OFFSET	8
COEF/SLOPE	1.095	COEF/SLOPE	1.09
Expected (reference) Value	240.3	Expected (reference) Value	240.3

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	600	LOW ID	n/a
EXPIRY DATE	24-Feb-2028	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

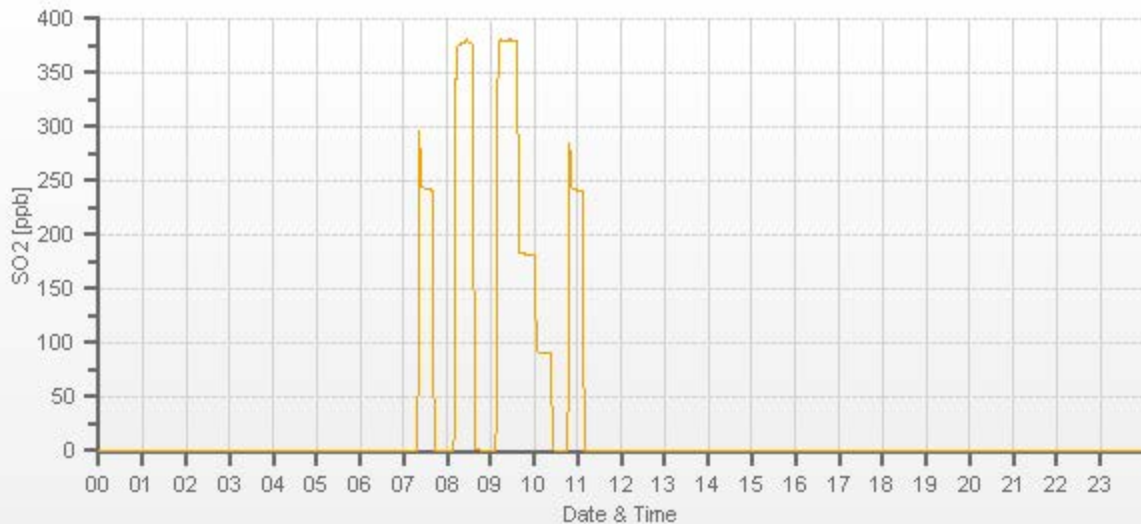
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
6000	 	6000	0.00	-0.1	0	 	
5956	44.20	6000	380.12	377.9	379.9	1.006	1.001
5979	20.90	6000	179.74	n/a	181.6	n/a	0.990
5990	10.50	6000	90.30	n/a	90.9	n/a	0.993

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed.



TRS Analyzer Calibration by Dilution



DATE:	08-Jun-2022	PREVIOUS CALIBRATION DATE:	11-May-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.2
LOCATION:	842b	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	07:46
PERFORMED BY:	Limin Li	END TIME (MST):	12:57

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	372
INITIAL		FINAL	
BKG/OFFSET	13.5	BKG/OFFSET	13.1
COEF/SLOPE	0.937	COEF/SLOPE	0.921
Expected (reference) Value	49.37	Expected (reference) Value	49.37

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1550	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	08:10	SO2 Conc (ppb)	380
END TIME:	08:31	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	0.1	0	0.977	1.000
7443	57.35	7500	78.00	79.94	77.99	0.977	1.000
7472	27.94	7500	38.00	n/a	37.96	n/a	1.001
7486	13.97	7500	19.00	n/a	19.03	n/a	0.998

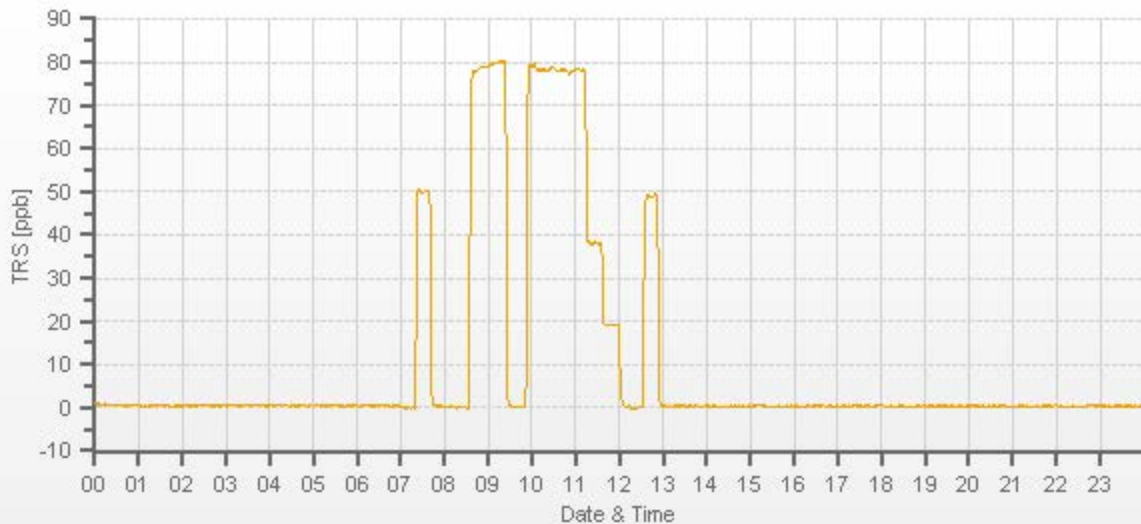
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

TRS Converter CDNOVA CDN #576. Change sample filter.

TRS[ppb] Station: PRAMP 842b Daily: 08-06-2022 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202206-01561

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	08-Jun-2022	PREVIOUS CALIBRATION DATE:	11-May-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3		Thermo 55i	1501663728	1030
LOCATION:	842b	BAROMETRIC (mBar):	939	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	10:25	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	14:02	PREVIOUS CF:	0.997	1.001	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	111	EXPIRY DATE	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	8.85	11.12	19.97		8.85	11.12	19.97

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	X	3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3416	84.00	3500	14.59	13.40	27.99	14.55	13.29	27.84	14.61	13.41	28.02	1.003	1.008	1.005	0.999	0.999	0.999
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.10	6.62	13.72	n/a	n/a	n/a	1.028	1.012	1.020
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.48	3.31	6.79	n/a	n/a	n/a	1.048	1.012	1.031

LINEAR REGRESSION ANALYSIS:

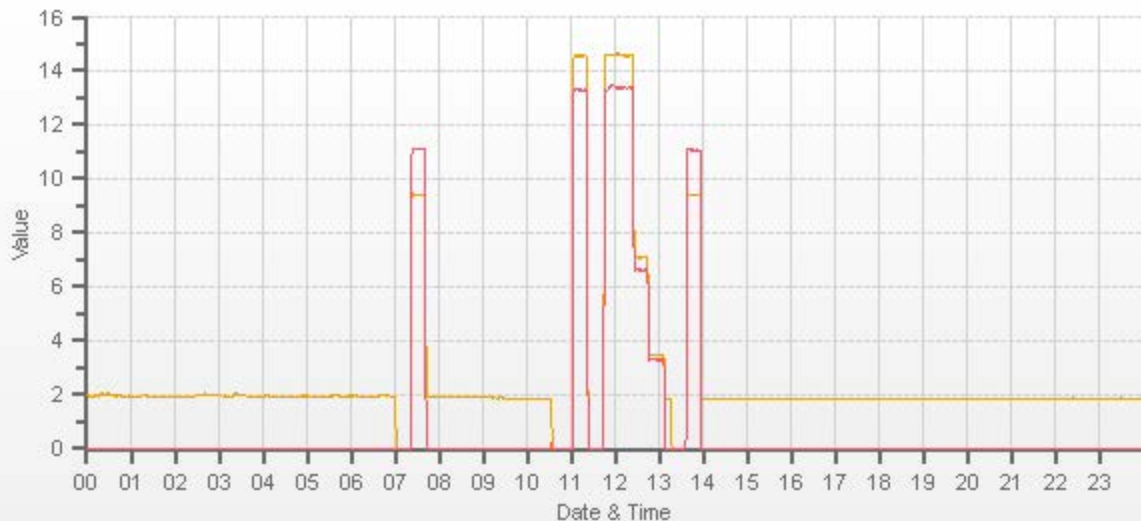
	CORRELATION	SLOPE	INTERCEPT
CH ₄	1.000	1.004	-0.5%
NMHC	1.000	1.001	-0.2%
THC	1.000	1.003	-0.4%

Comments:

Sample filter changed. Deionizer:1810 hours.

Use Zero Chrom?

Yes



CAL-PRAMP-202206-01561

Meteorological System Checklist



Date:	June 8, 2022
Technician:	Limin Li
Station:	PRAMP 842b

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 15878
Temperature Sensor:	Rotronic	HC2A-S3	20370767
Barometric Pressure Sensor:	MetOne	92	Y23362
Relative Humidity Sensor:	Rotronic	HC2A-S3	20370767
Anemometer:	RM Young	05305AQ	174802

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	May 11, 2022	Channel offline =08:26-08:56am, Audit 10 tip:08:54-08:55am.
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September)	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

TIP TEST - Slowly pour water until 10 tips are heard. (10 tips = 1 ml)

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.0	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	May 11, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (°C):	17.2
Station - Ambient Temperature (°C):	17.0
Temperature Difference (°C):	0.2

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	May 11, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	939.6
Station Pressure - Units/Reading:	millibar	937.8
Pressure Tolerance +/- 15% of error:	799 - 1081	0.19%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	May 11, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	62.90	
Station Hygrometer % RH- Reading:	67.60	
RH Tolerance +/- 15% of difference:	53.47 - 72.34	-7.5%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	May 11, 2022	Previous check date:	May 11, 2022
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	13.2	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass

Comments



Meteorological Sensor Audit/Calibration

Location Information

Company: PRAMP
 Audit Location: 842b
 Audit Date: July 4, 2021
 Calibration Purpose: routine annual

Performed By: Limin Li
 Reviewed By: Chris Wesson
 Start/End Time (mst): 12:16/13:43
 Weather Conditions: Mainly cloudy with sunny breaks

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-200
Serial #:	174802	Direction Voltage Output Range:	0-1
Previous Cal/Audit Date:	December 16, 2020	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 07, 2023

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.3	1.001
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
The audit meets AMD requirements.			Average Correction Factor=	1.002

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	355	0.0	0.0	0.0
30	330	29	331	1.0	-1.0	1.0
60	300	58	301	2.0	-1.0	1.5
90	270	88	272	2.0	-2.0	2.0
120	240	118	241	2.0	-1.0	1.5
150	210	149	211	1.0	-1.0	1.0
180	180	179	180	1.0	0.0	0.5
210	150	210	149	0.0	1.0	0.5
240	120	241	119	-1.0	1.0	1.0
270	90	272	88	-2.0	2.0	2.0
300	60	301	58	-1.0	2.0	1.5
330	30	331	29	-1.0	1.0	1.0
355	0	355	0	0.0	0.0	0.0
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.0

Comments:

Change 2 speed bearing.



Peace River Area Monitoring Program

JUNE 2022

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202206-01562

Operation and Maintenance:

Bureau Veritas Canada

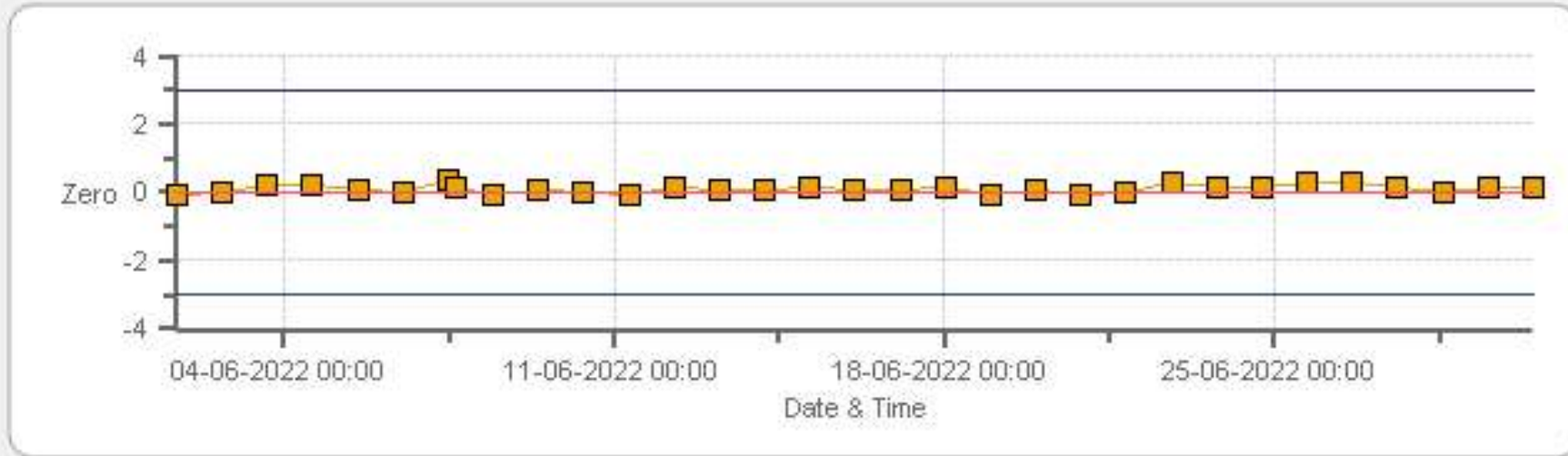
Data Validation and Report:

Bureau Veritas Canada

July 25, 2022

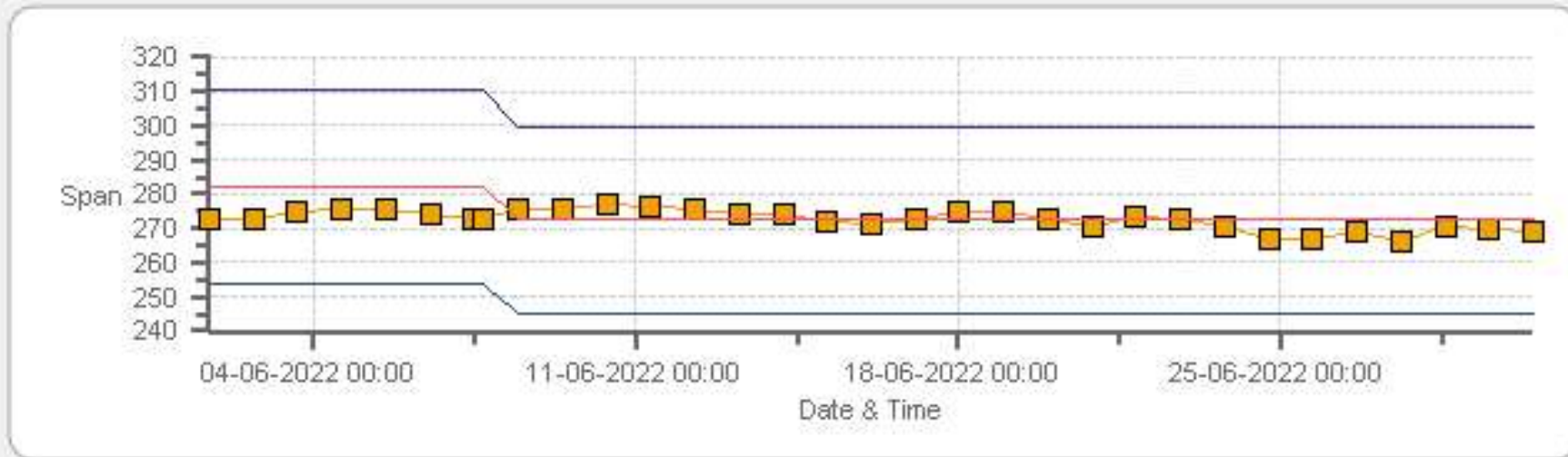
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Zero



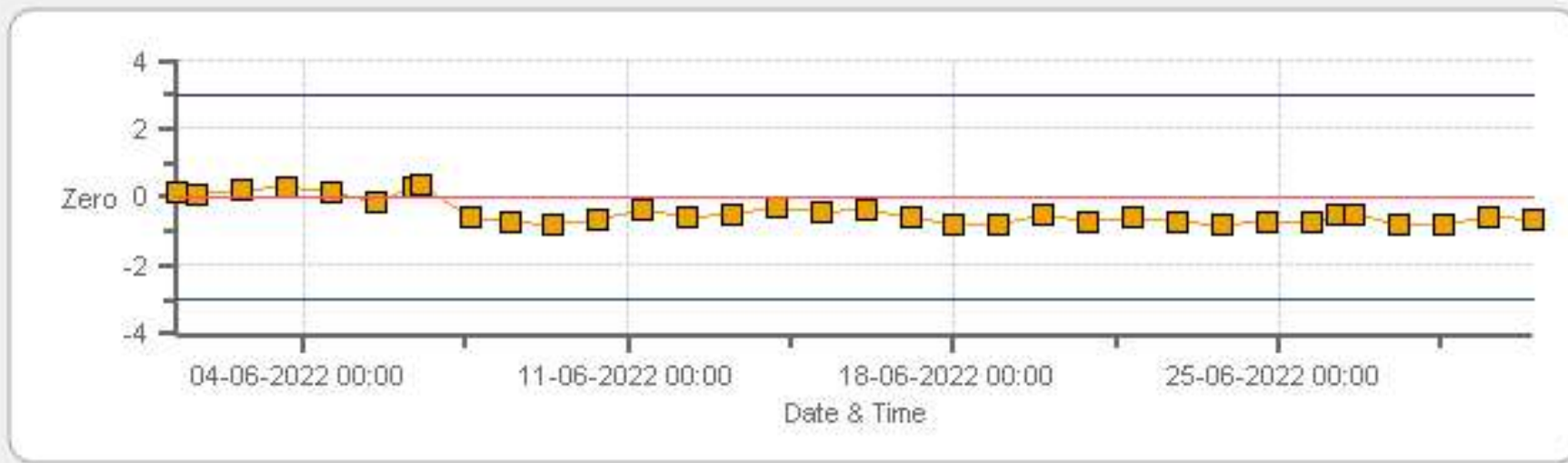
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Span



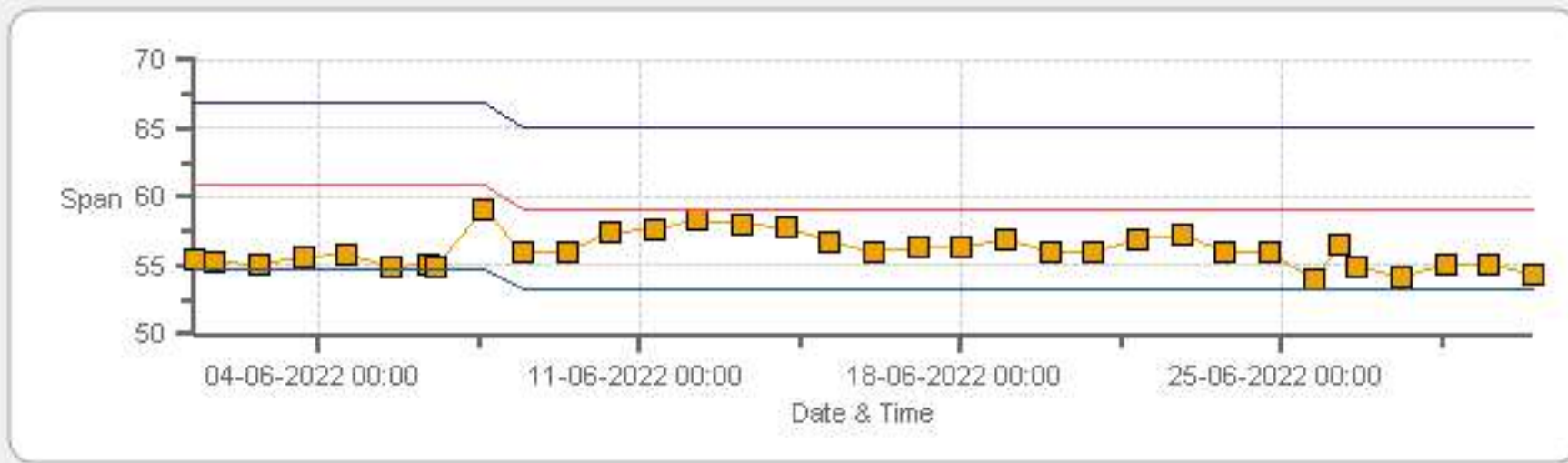
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Zero

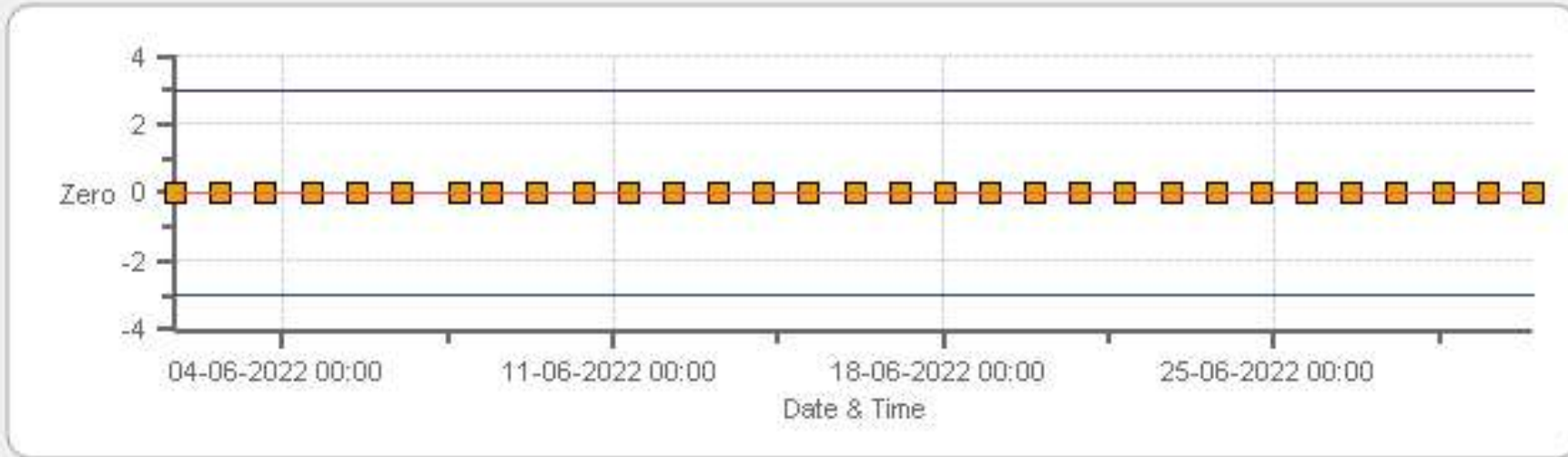


Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Span

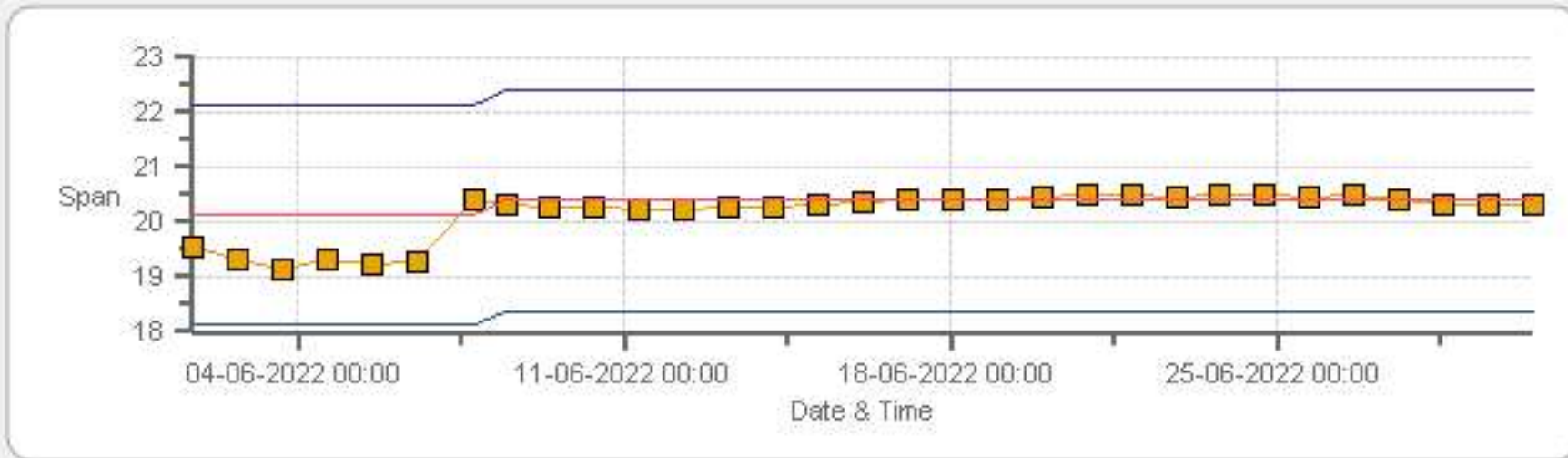


THC55[ppm] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Zero



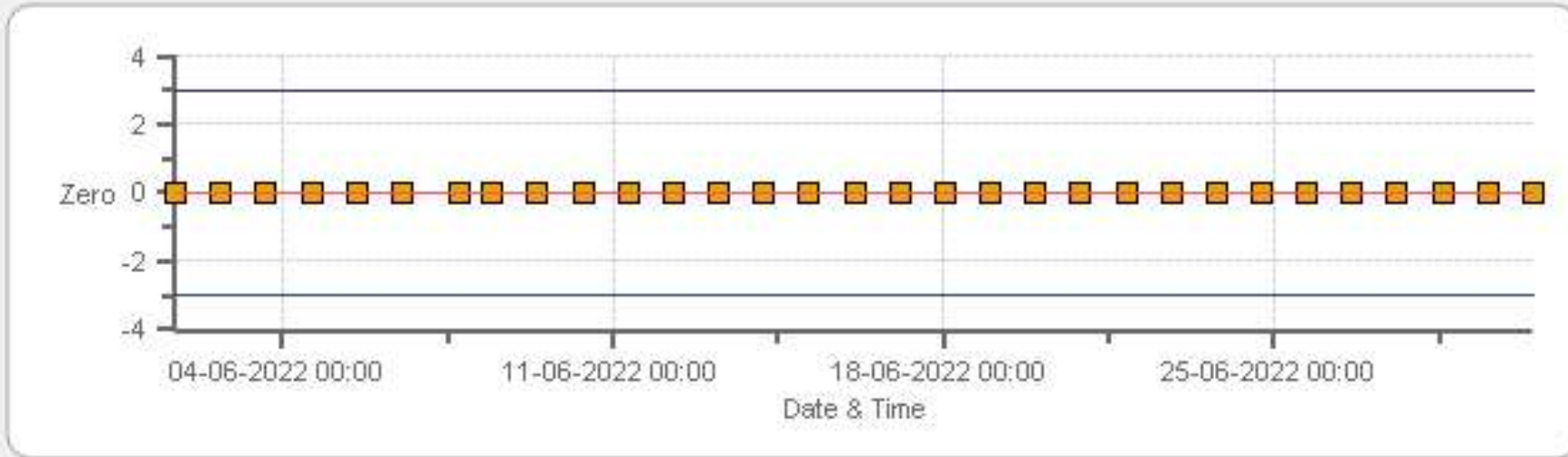
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Span



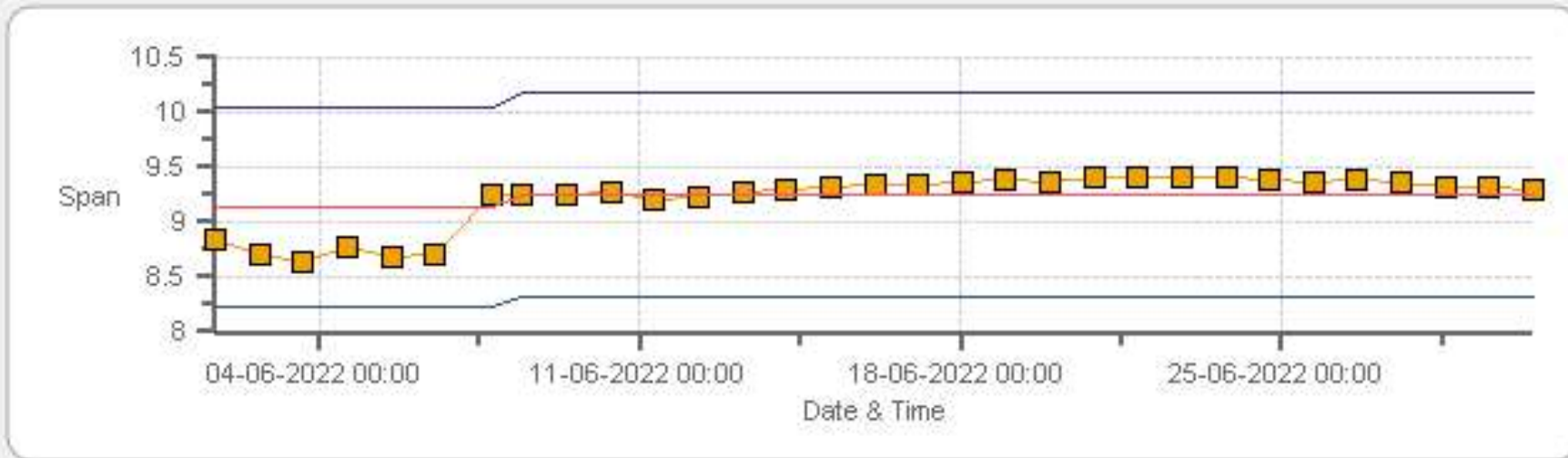
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Zero



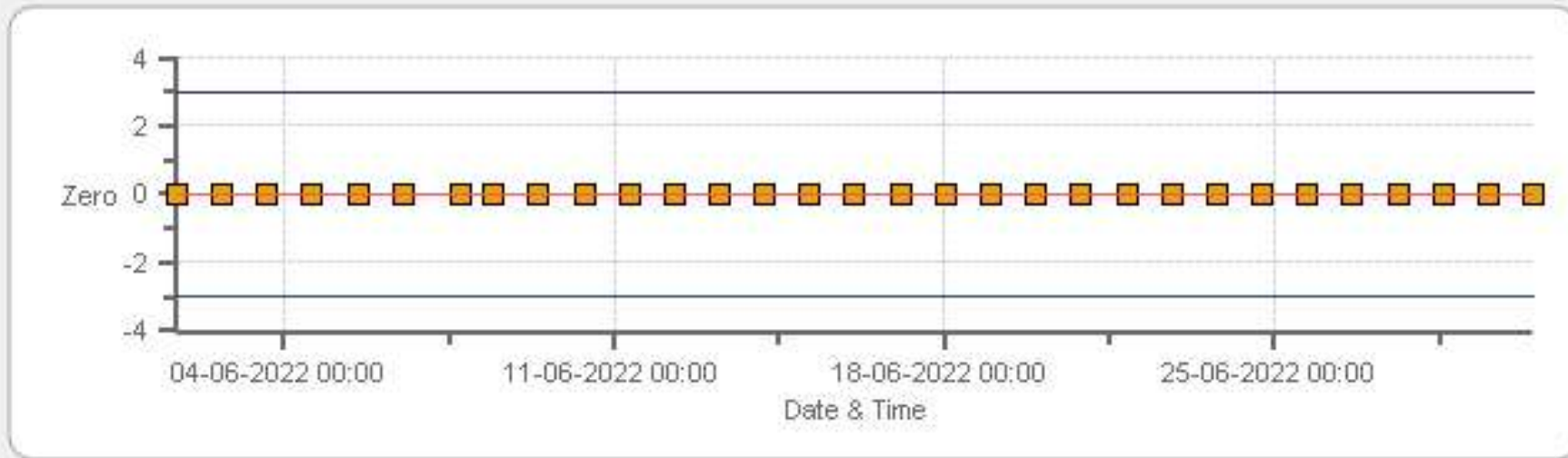
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Span



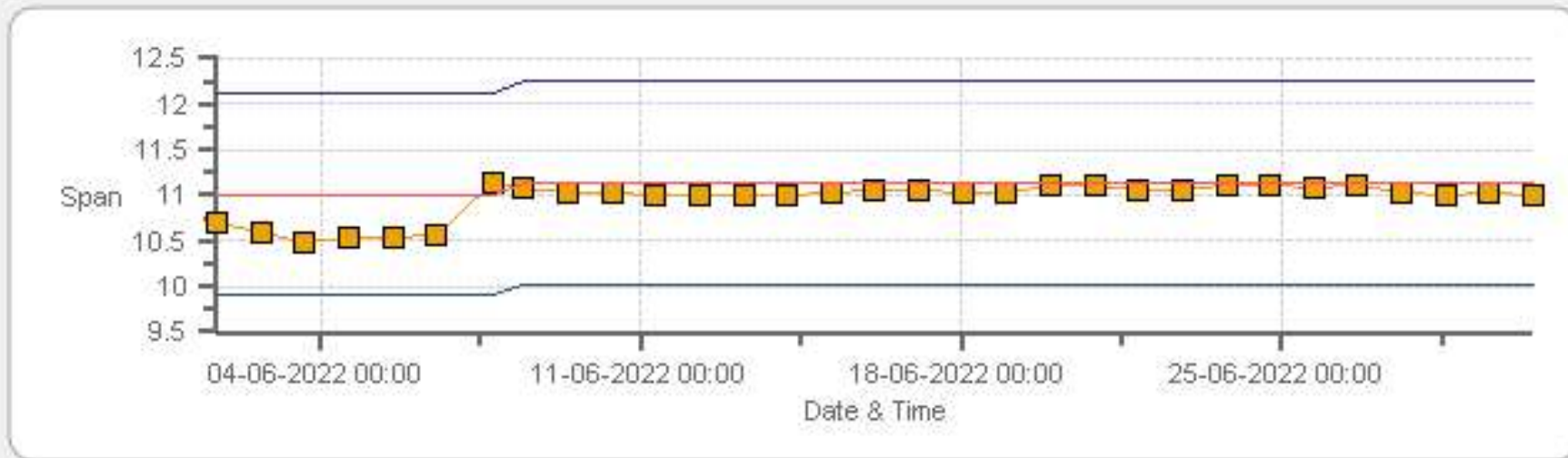
Span Span Ref Span Low Span High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 06-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	07-Jun-2022	PREVIOUS CALIBRATION DATE:	12-May-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE:	Routine	START TIME (MST):	12:02
PERFORMED BY:	Limin Li	END TIME (MST):	16:03

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	432
INITIAL		FINAL	
BKG/OFFSET	14	BKG/OFFSET	13.8
COEF/SLOPE	1.013	COEF/SLOPE	1.006
Expected (reference) Value	282.1	Expected (reference) Value	272.5

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	650	LOW ID	n/a
EXPIRY DATE	24-Feb-2028	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

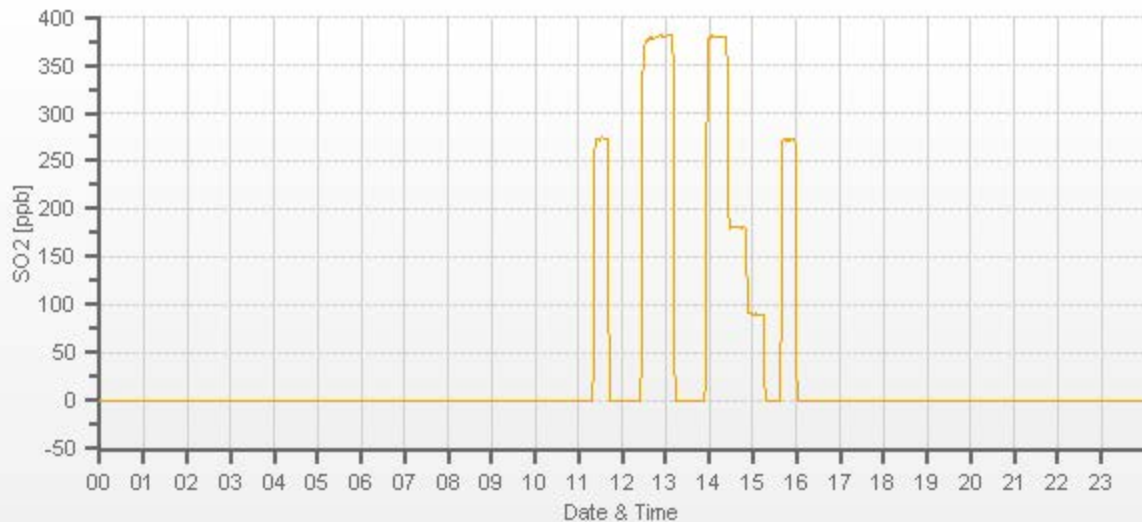
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
6000	44.20	6000	0.00	-0.1	0	0.996	1.000
5956	44.20	6000	380.12	381.4	380.2	0.996	1.000
5979	20.90	6000	179.74	n/a	181.3	n/a	0.991
5990	10.50	6000	90.30	n/a	90.3	n/a	1.000

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.1%

COMMENTS:

Sample filter changed.



TRS Analyzer Calibration by Dilution



DATE:	07-Jun-2022	PREVIOUS CALIBRATION DATE:	12-May-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE:	Routine	START TIME (MST):	09:38
PERFORMED BY:	Limin Li	END TIME (MST):	14:26

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	422
INITIAL		FINAL	
BKG/OFFSET	14.6	BKG/OFFSET	16
COEF/SLOPE	1.006	COEF/SLOPE	1.055
Expected (reference) Value	60.84	Expected (reference) Value	59.12

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	10:01	SO2 Conc (ppb)	380
END TIME:	10:21	Analyzer Response (ppb)	0.3

CALIBRATION:

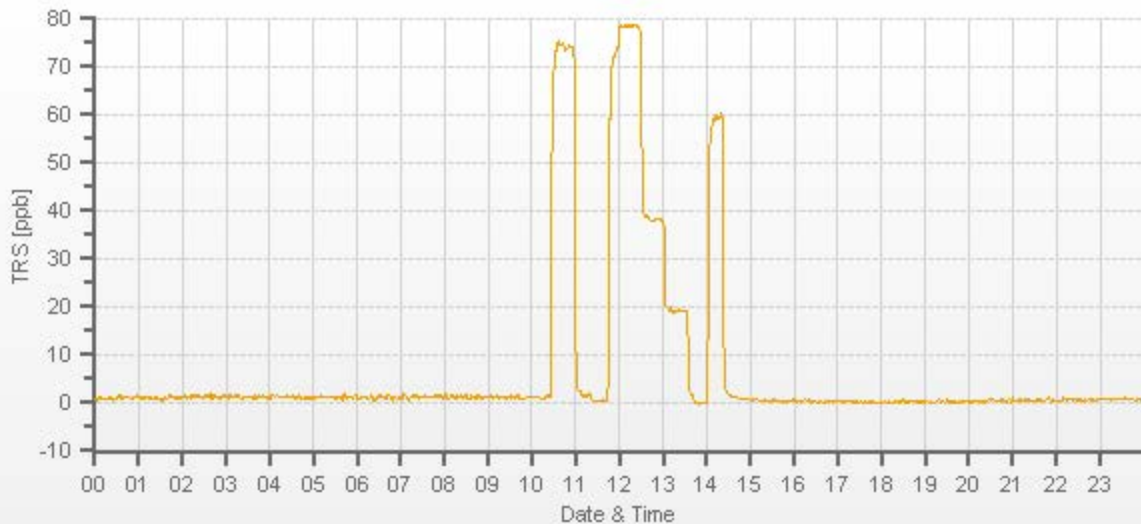
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	0.77	0	1.000	1.000
7443	57.35	7500	78.00	73.52	78.06	1.072	0.999
7472	27.94	7500	38.00	n/a	37.51	n/a	1.013
7486	13.97	7500	19.00	n/a	18.65	n/a	1.019

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	-0.3%

COMMENTS:

n/a



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	07-Jun-2022	PREVIOUS CALIBRATION DATE:	12-May-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6		Thermo 55i	1193585652	1200
LOCATION:	986C	BAROMETRIC (mBar):	947	PARAMETER:	CH4	NMHC	THC
PURPOSE	Removal/Shut-down	START TIME (MST):	09:38	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	11:55	PREVIOUS CF:	1.000	0.997	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1500	LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	111	EXPIRY DATE	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.13	11.01	20.14		n/a	n/a	n/a

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	84.00	3500	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a	1.070	1.062	1.066	n/a	n/a	n/a
3416	84.00	3500	14.59	13.40	27.99	13.64	12.61	26.25	n/a	n/a	n/a	1.070	1.062	1.066	n/a	n/a	n/a
3458	42.00	3500	7.30	6.70	14.00	6.83	6.36	13.19	n/a	n/a	n/a	1.068	1.053	1.061	n/a	n/a	n/a
3479	21.00	3500	3.65	3.35	7.00	3.37	3.18	6.55	n/a	n/a	n/a	1.082	1.053	1.068	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	0.936	-0.1%	removal for maintenance (high CH ₄ readings)
NMHC	1.000	0.941	0.1%	
THC	1.000	0.938	0.0%	
				Use Zero Chrom? No

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	07-Jun-2022	PREVIOUS CALIBRATION DATE:	12-May-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	23.6		Thermo 55i	1433563261	1168
LOCATION:	986C	BAROMETRIC (mBar):	946	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Install/Post-Repair	START TIME (MST):	16:00	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	18:33	PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1500	LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	111	EXPIRY DATE:	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	n/a	n/a	n/a		n/a	9.25	11.14

CALIBRATION:

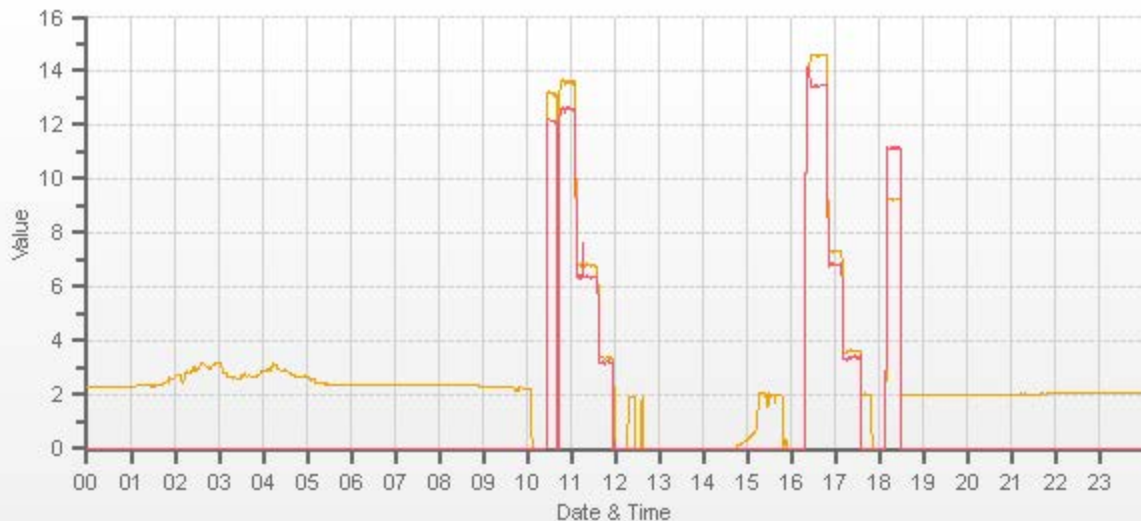
FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	X	3500	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00	X	X	X	X	X	X
3416	84.00	3500	14.59	13.40	27.99	n/a	n/a	n/a	14.59	13.47	28.06	n/a	n/a	n/a	1.000	0.995	0.998
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.30	6.82	14.12	n/a	n/a	n/a	0.999	0.982	0.991
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.64	3.40	7.04	n/a	n/a	n/a	1.002	0.985	0.994

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH ₄	1.000	1.000	0.0%
NMHC	1.000	1.005	0.1%
THC	1.000	1.003	0.1%

Comments:

n/a
Use Zero Chrom? No



CAL-PRAMP-202206-01562

Page 17 of 17
CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	June 7, 2022
Technician:	Limin Li
Station:	PRAMP 986c

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 16325
Temperature Sensor:	Rotronic	HC2A-S3	20357528
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2A-S3	20357528
Anemometer:	RM Young	05305AQ	180340

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	May 12, 2022	Tip test: 14:26-14:29pm
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	no	
Is the screen on the housing? (screen should be on between July and September)	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

TIP TEST - Slowly pour water until 10 tips are heard. (10 tips = 1 ml)

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.0	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	May 12, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (°C):	19.9
Station - Ambient Temperature (°C):	19.2
Temperature Difference (°C):	0.7

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	May 12, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	946.9
Station Pressure - Units/Reading:	millibar	945.2
Pressure Tolerance +/- 15% of error:	805 - 1089	0.18%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	May 12, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	49.90	
Station Hygrometer % RH- Reading:	51.90	
RH Tolerance +/- 15% of difference:	42.42 - 57.39	-4.0%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	May 12, 2022	Previous check date:	May 12, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	6.8	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass

Comments



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	986C	Reviewed By:	Ferdinand Roy
Audit Date:	April 12, 2022	Start/End Time (mst):	10:29/11:20
Calibration Purpose:	installation	Weather Conditions:	Light snow

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-180
Serial #:	180340	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	n/a	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802A sn/id# R9133 expires Aug06, 2022

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.5	1.000
4000	73.7	73.9	73.6	1.000
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.7	1.000
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
The audit meets AMD requirements.			Average Correction Factor=	1.001

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	31	330	-1.0	0.0	0.5
60	300	62	300	-2.0	0.0	1.0
90	270	91	271	-1.0	-1.0	1.0
120	240	120	239	0.0	1.0	0.5
150	210	150	209	0.0	1.0	0.5
180	180	179	178	1.0	2.0	1.5
210	150	209	150	1.0	0.0	0.5
240	120	240	120	0.0	0.0	0.0
270	90	269	90	1.0	0.0	0.5
300	60	300	61	0.0	-1.0	0.5
330	30	330	31	0.0	-1.0	0.5
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		0.7

Comments:

No issues



Peace River Area Monitoring Program

JUNE 2022

Ambient Air Monitoring Calibration Report

- RENO STATION-

CAL-PRAMP-202206-01563

Operation and Maintenance:

Bureau Veritas Canada

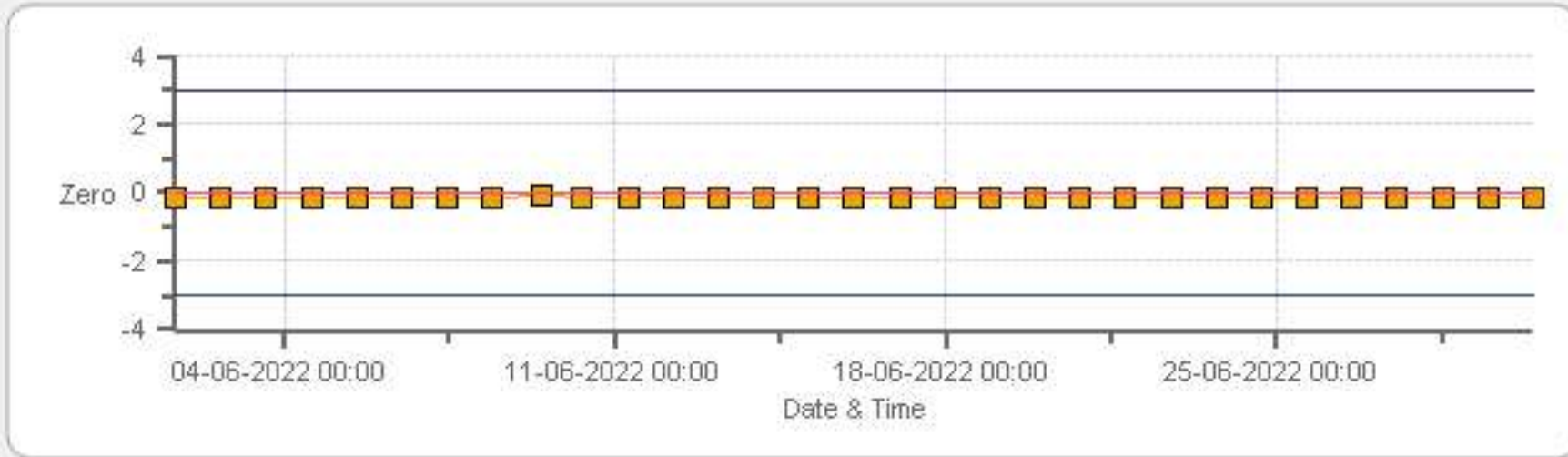
Data Validation and Report:

Bureau Veritas Canada

July 25, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Zero



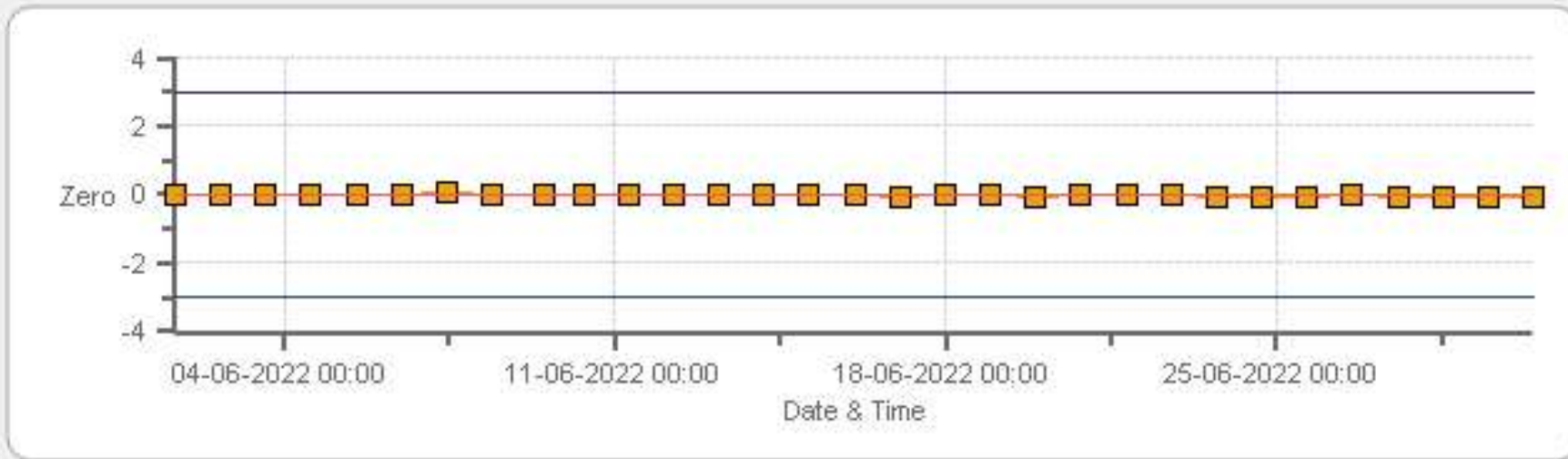
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Span



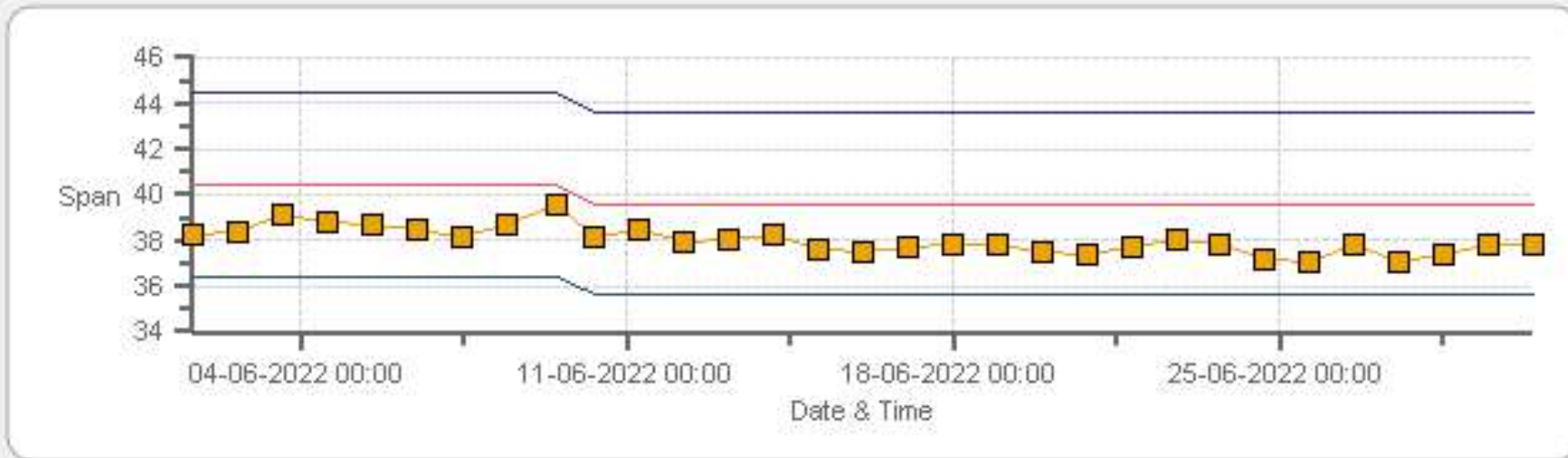
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Zero



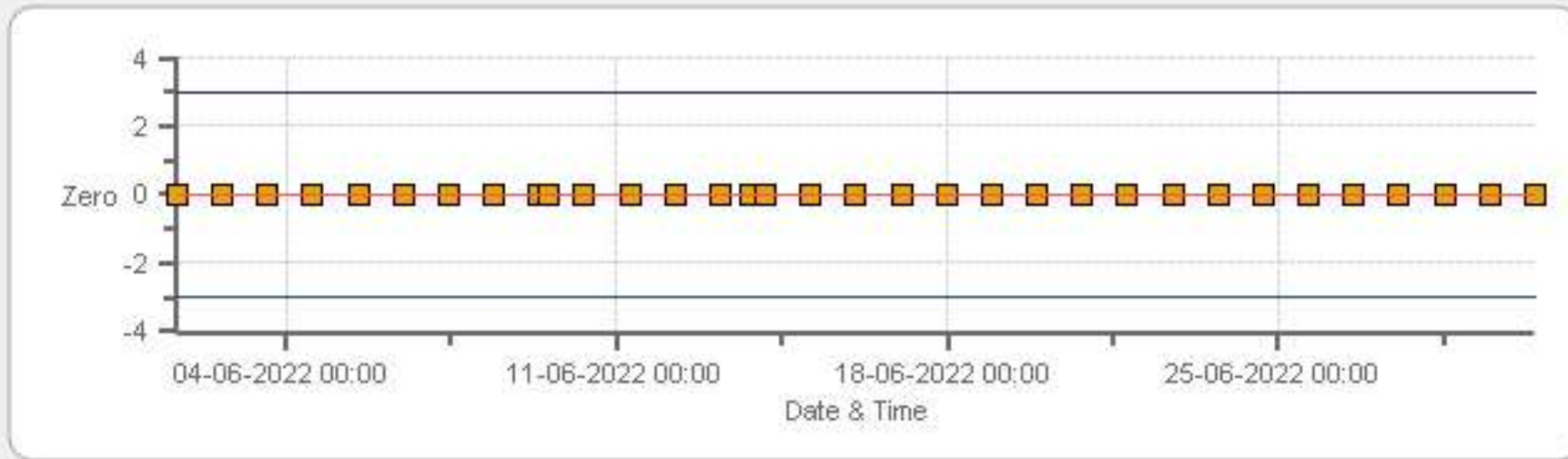
■ Zero
 — Zero Ref
 — Zero Low
 — Zero High

TRS[ppb] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Span



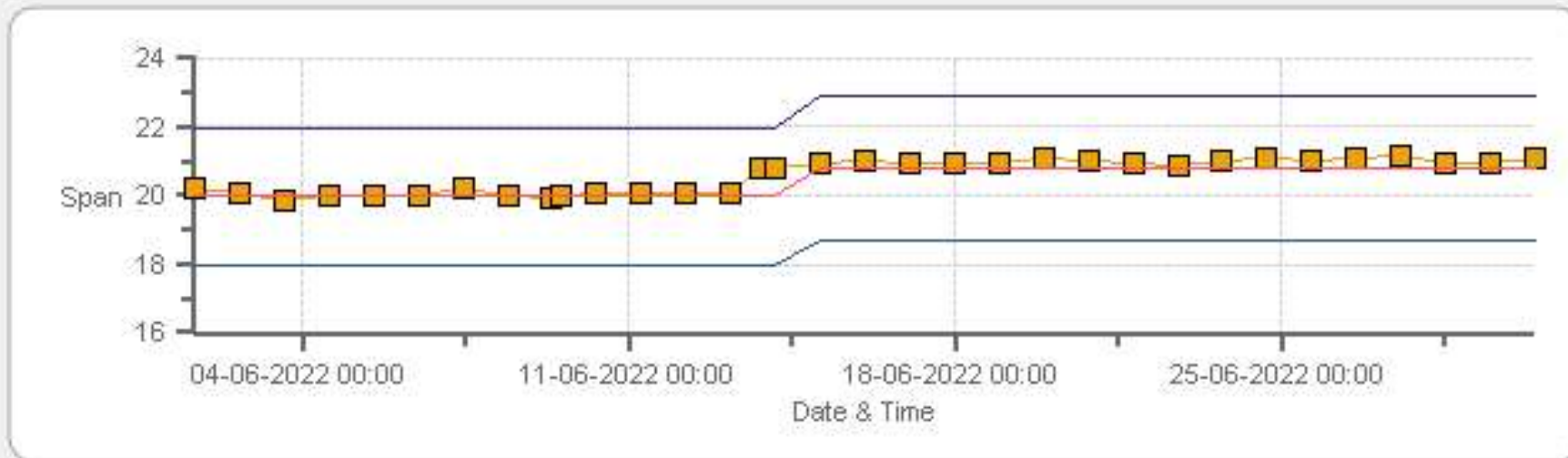
■ Span
 — SpanRef
 — Span Low
 — Span High

THC55[ppm] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero -Zero



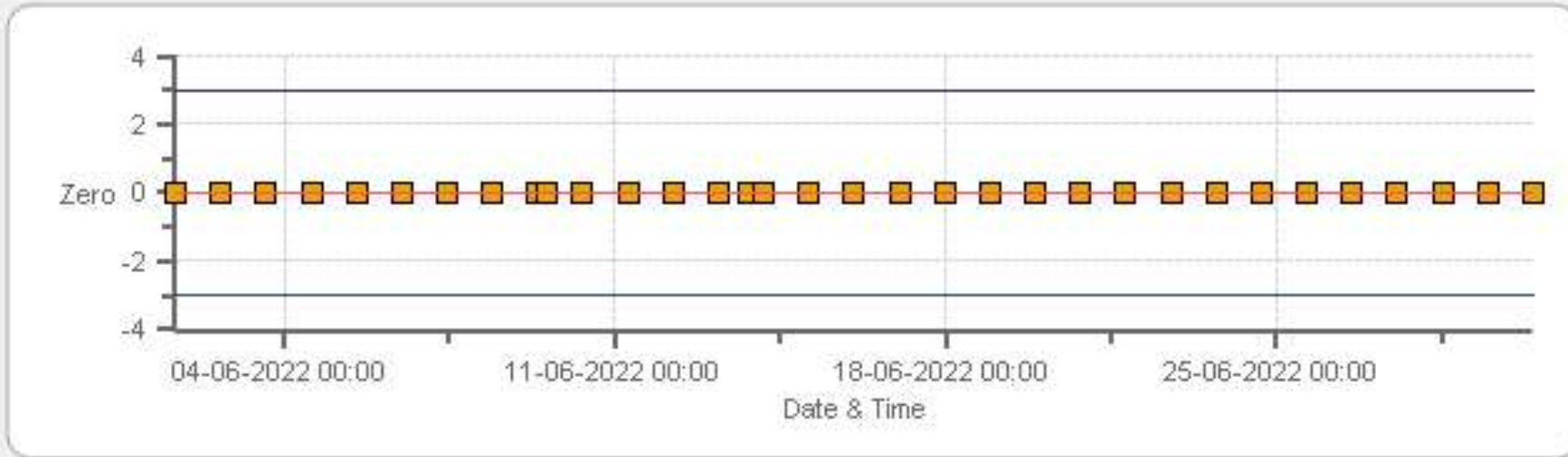
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero -Span



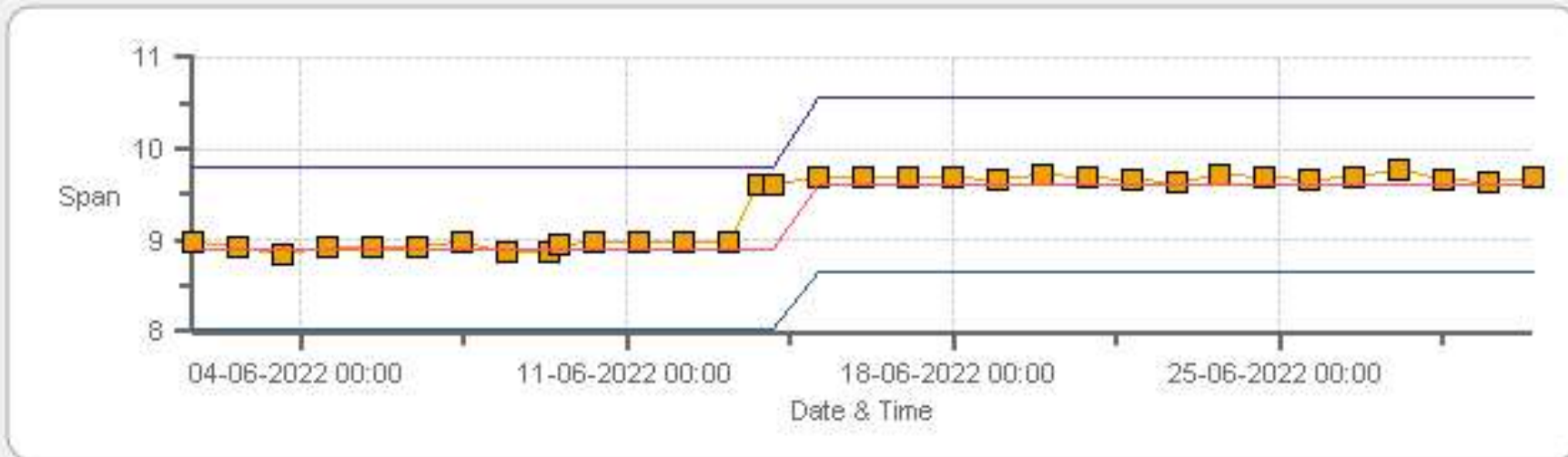
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Zero



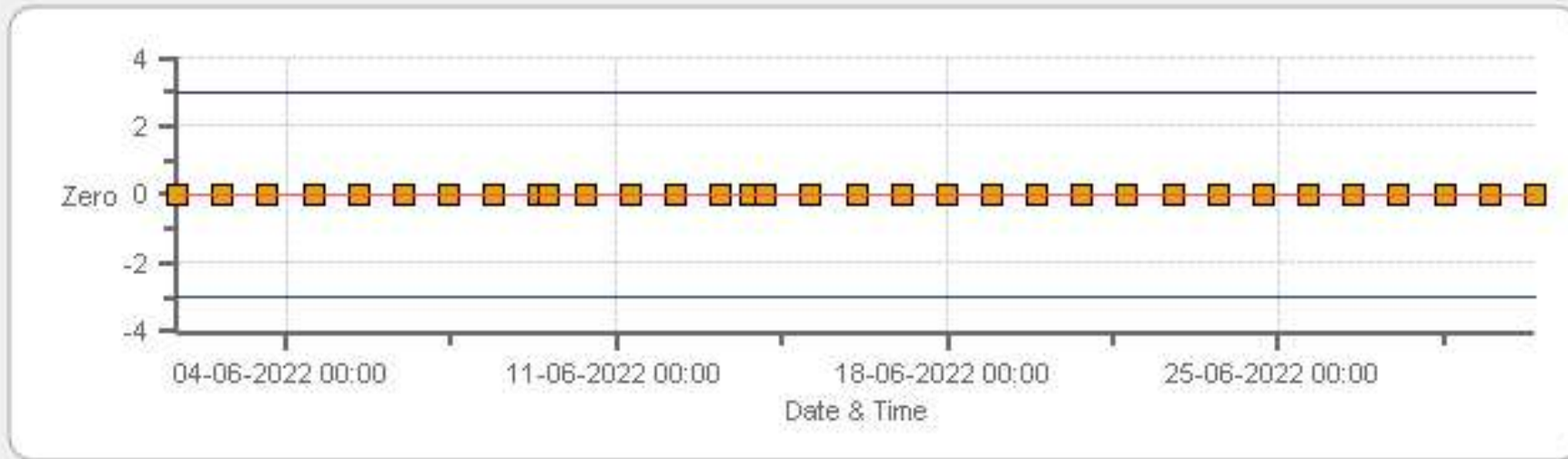
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Span



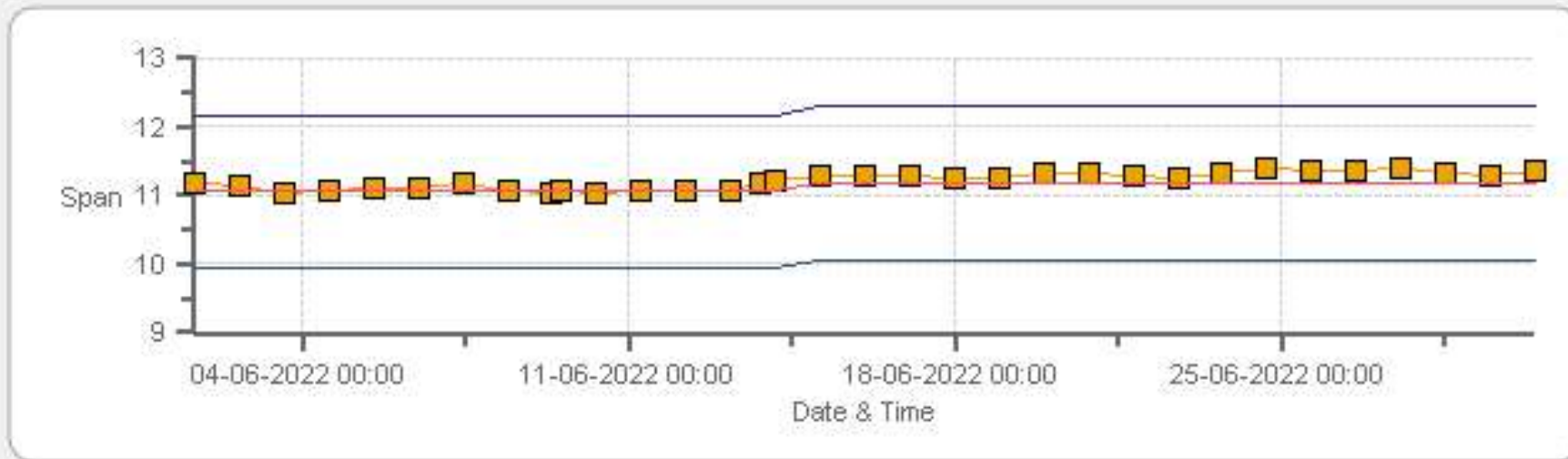
Span Span Ref Span Low Span High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 06-2022 Type: SpanAndZero - Span



Span SpanRef Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	09-Jun-2022	PREVIOUS CALIBRATION DATE:	10-May-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	24.0
LOCATION:	Reno	BAROMETRIC (mBar):	935
PURPOSE:	Routine	START TIME (MST):	07:23
PERFORMED BY:	Limin Li	END TIME (MST):	11:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	442
INITIAL		FINAL	
BKG/OFFSET	1.05	BKG/OFFSET	1.04
COEF/SLOPE	0.932	COEF/SLOPE	0.924
Expected (reference) Value	220.9	Expected (reference) Value	220.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	650	LOW ID	n/a
EXPIRY DATE	24-Feb-2028	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

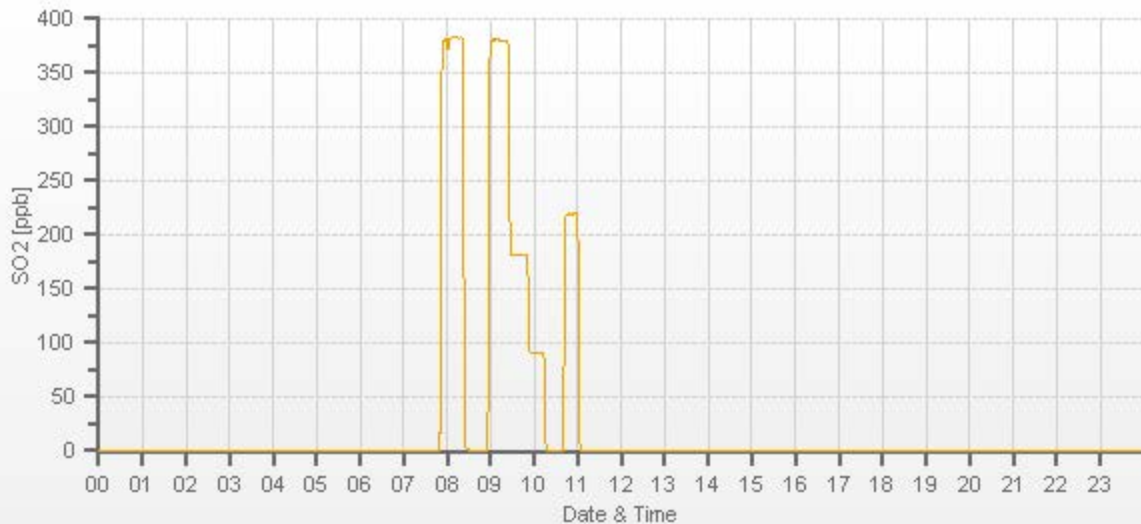
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
6000	44.20	6000	0.00	-0.1	0	0.994	1.000
5956	44.20	6000	380.12	382.4	380.1	0.994	1.000
5979	20.90	6000	179.74	n/a	181.2	n/a	0.992
5990	10.50	6000	90.30	n/a	90.8	n/a	0.994

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Change sample filter.



TRS Analyzer Calibration by Dilution



DATE:	09-Jun-2022	PREVIOUS CALIBRATION DATE:	10-May-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.0
LOCATION:	Reno	BAROMETRIC (mBar):	935
PURPOSE:	Routine	START TIME (MST):	07:24
PERFORMED BY:	Limin Li	END TIME (MST):	11:57

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	399
INITIAL		FINAL	
BKG/OFFSET	0.87	BKG/OFFSET	0.9
COEF/SLOPE	0.919	COEF/SLOPE	0.9
Expected (reference) Value	40.43	Expected (reference) Value	39.61

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1550	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	07:48	SO2 Conc (ppb)	380
END TIME:	08:13	Analyzer Response (ppb)	0.1

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	0.01	0	0.973	1.000
7443	57.35	7500	78.00	80.18	78	0.973	1.000
7472	27.94	7500	38.00	n/a	38.05	n/a	0.999
7486	13.97	7500	19.00	n/a	18.99	n/a	1.000

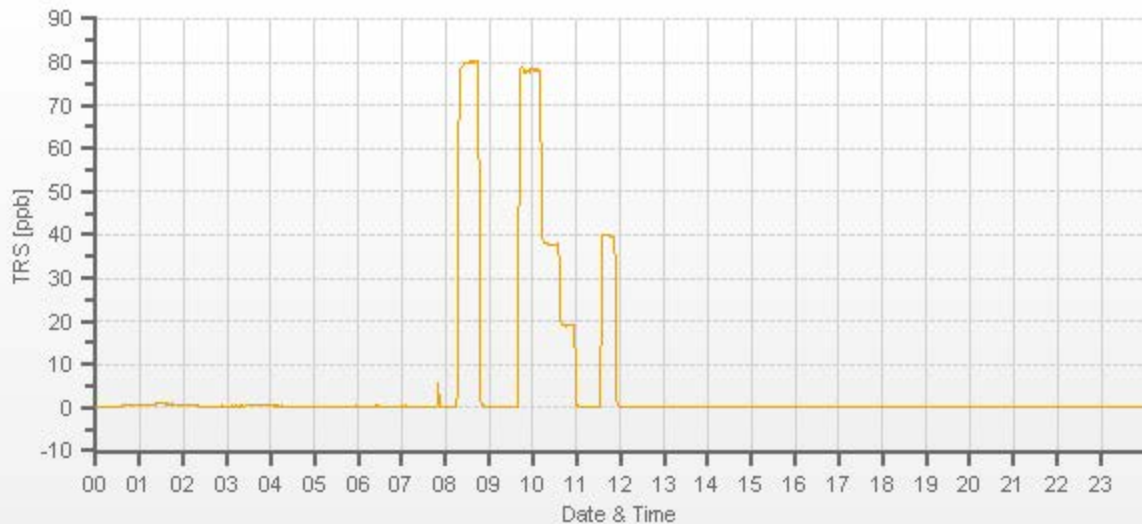
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Converter: CDNova CDN-101 #590.

TRS[ppb] Station: PRAMP RENO Daily: 09-06-2022 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202206-01563

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	09-Jun-2022	PREVIOUS CALIBRATION DATE:	10-May-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.2		Thermo 55i	12101910497	1151
LOCATION:	Reno	BAROMETRIC (mBar):	934	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	10:16	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	13:50	PREVIOUS CF:	0.996	0.998	0.997

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2022	OXIDIZER ID:	111	EXPIRY DATE:	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

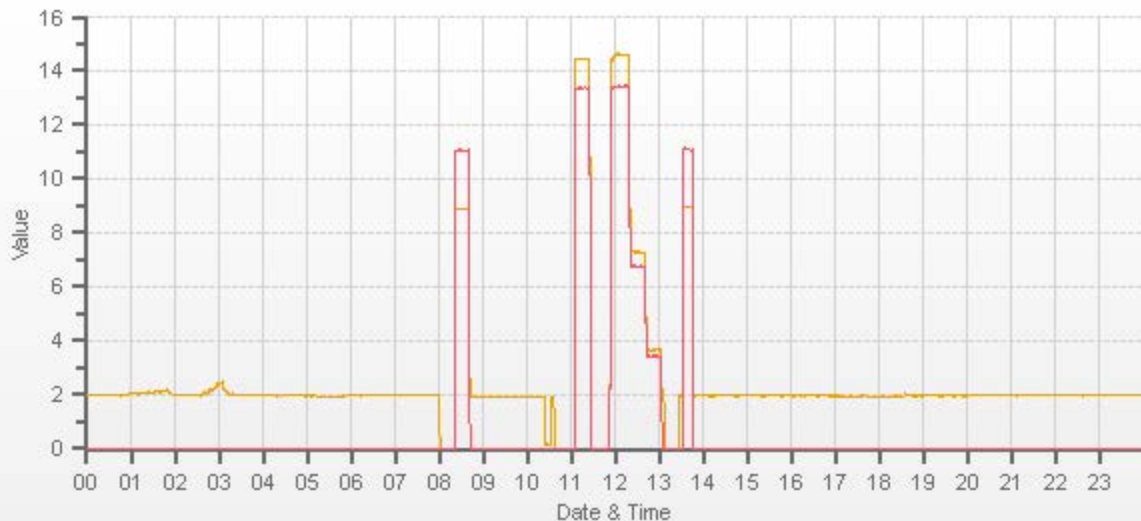
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	8.91	11.06	19.97		8.91	11.06	19.97

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	X	3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3416	84.00	3500	14.59	13.40	27.99	14.44	13.37	27.81	14.59	13.41	28.00	1.011	1.002	1.006	1.000	0.999	1.000
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.27	6.73	14.00	n/a	n/a	n/a	1.004	0.995	1.000
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.67	3.44	7.11	n/a	n/a	n/a	0.994	0.974	0.984

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	0.999	0.0%	Sample filter changed. Deionizer:3276 hours.
NMHC	1.000	0.999	0.2%	
THC	1.000	0.999	0.1%	
Use Zero Chrom?				No



CAL-PRAMP-202206-01563

Page 14 of 17
CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	June 9, 2022
Technician:	Limin Li
Station:	PRAMP Reno

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 15877
Temperature Sensor:	Rotronic	HC2-S3	60837897
Barometric Pressure Sensor:	MetOne	92	K12864
Relative Humidity Sensor:	RM Young	HC2-S3	60837897
Anemometer:	RM Young	05305VK	149769

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	May 10, 2022	Tiptest = 09:11am, channel offline time:08:27-09:13am.
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September)	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

TIP TEST - Slowly pour water until 10 tip are heard. (10 tips = 1 ml)

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	0.90	0.10

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	May 10, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (°C):	13.7
Station - Ambient Temperature (°C):	13.1
Temperature Difference (°C):	0.6

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	May 10, 2022
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023
Reference Pressure - Units/Reading:	millibar 934.6
Station Pressure - Units/Reading:	millibar 934.5
Pressure Tolerance +/- 15% of error:	794 - 1075 0.01%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	May 10, 2022
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Hygrometer % RH- Reading:	n/a
Station Hygrometer % RH- Reading:	n/a
RH Tolerance +/- 15% of difference:	#VALUE! #VALUE!

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	May 10, 2022	Previous check date:	May 10, 2022
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	10.2	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

Meteorological System Checklist



Date:	June 9, 2022		
Technician:	Limin Li		
Station:	PRAMP Reno		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 15877
Temperature Sensor:	Rotronic	HC2-S3	61116376
Barometric Pressure Sensor:	MetOne	92	K12864
Relative Humidity Sensor:	Rotronic	HC2-S3	61116376
Anemometer:	RM Young	05305VK	149769

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	May 10, 2022	Tip test = 09:55-09:57am, channel offline time:09:55-10:02am.
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September)	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

TIP TEST - Slowly pour water until 10 tip are heard. (10 tips = 1 ml)

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.00	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	May 10, 2022	
Parameter:	Temperature @ 2 metres	
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Temperature (°C):	16.4	
Station - Ambient Temperature (°C):	16.4	
Temperature Difference (°C):	0.0	

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	May 10, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	934.6
Station Pressure - Units/Reading:	millibar	934.5
Pressure Tolerance +/- 15% of error:	794 - 1075	0.01%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	May 10, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	51.20	
Station Hygrometer % RH- Reading:	49.50	
RH Tolerance +/- 15% of difference:	43.52 - 58.88	3.3%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	May 10, 2022	Previous check date:	May 10, 2022
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	10.2	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

Try to do reeiptation test one more time, pass.



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Limin Li
Audit Location:	Reno	Reviewed By:	
Audit Date:	July 5, 2021	Start/End Time (mst):	12:46/13:50
Calibration Purpose:	routine annual	Weather Conditions:	Mainly sunny

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	0-1
Sensor Model:	05305VK	Velocity Unit Output Range:	0-200
Serial #:	149769	Direction Voltage Output Range:	0-1
Previous Cal/Audit Date:	June 17, 2020	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 07, 2023

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.4	18.4	1.002
2000	36.9	36.8	36.8	1.002
3000	55.3	55.2	55.2	1.002
4000	73.7	73.6	73.6	1.002
5000	92.2	92.2	92.2	0.999
6000	110.6	110.6	110.6	1.000
7000	129.0	129.2	129.2	0.999
8000	147.4	147.6	147.6	0.999
9000	165.9	166.2	166.2	0.998
10000	184.3	184.8	184.8	0.997
The audit meets AMD requirements.			Average Correction Factor=	1.000

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	32	329	-2.0	1.0	1.5
60	300	62	300	-2.0	0.0	1.0
90	270	93	270	-3.0	0.0	1.5
120	240	122	240	-2.0	0.0	1.0
150	210	152	211	-2.0	-1.0	1.5
180	180	182	181	-2.0	-1.0	1.5
210	150	212	151	-2.0	-1.0	1.5
240	120	241	121	-1.0	-1.0	1.0
270	90	270	91	0.0	-1.0	0.5
300	60	300	61	0.0	-1.0	0.5
330	30	329	31	1.0	-1.0	1.0
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.1

Comments:

Bearings replaced. Declination = 15deg East



Peace River Area Monitoring Program

JUNE 2022

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202206-01689

Operation and Maintenance:

Bureau Veritas Canada

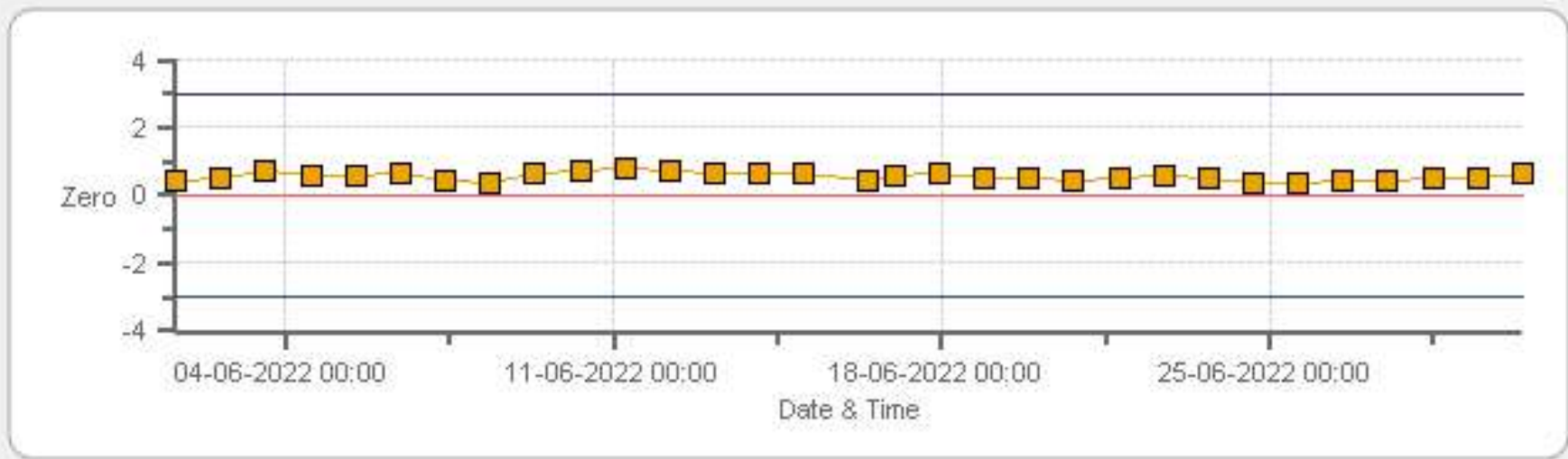
Data Validation and Report:

Bureau Veritas Canada

July 25, 2022

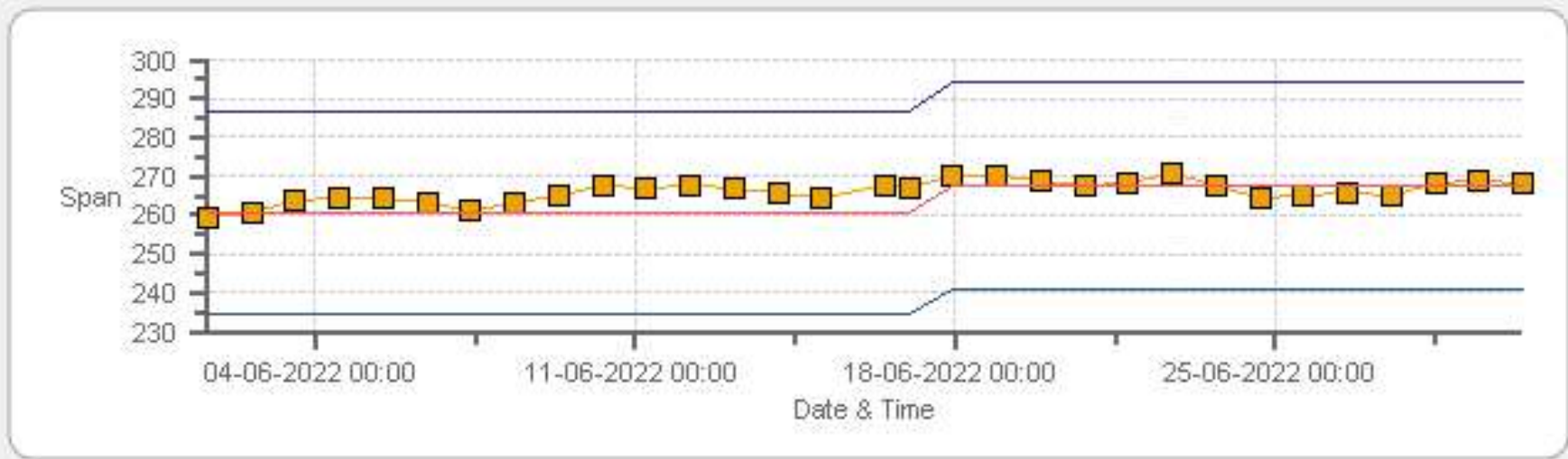
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



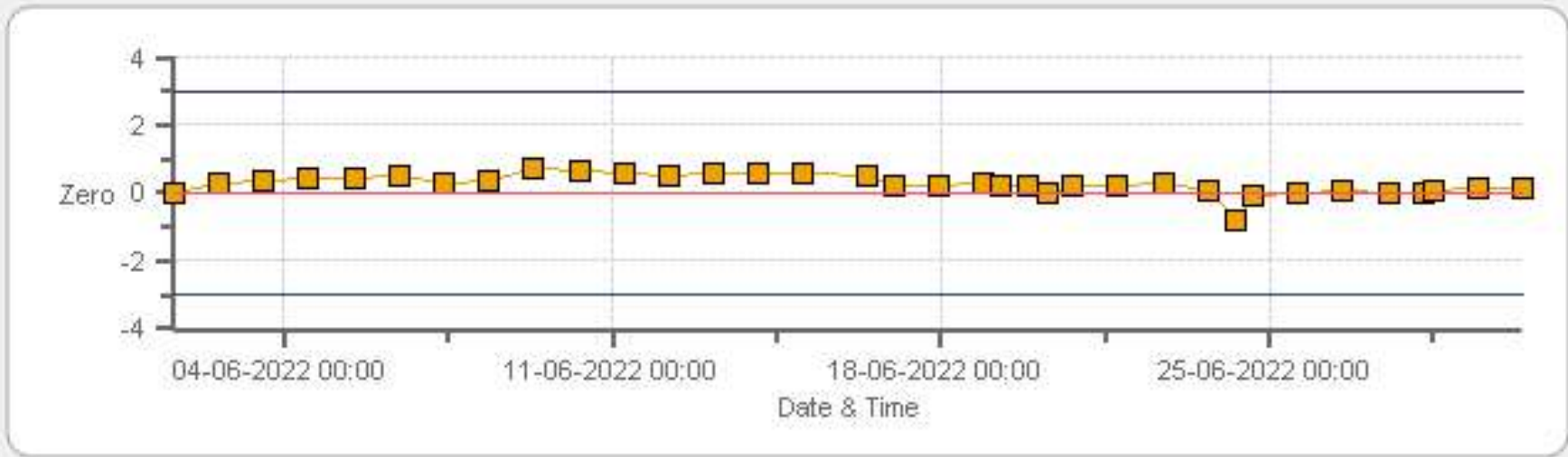
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



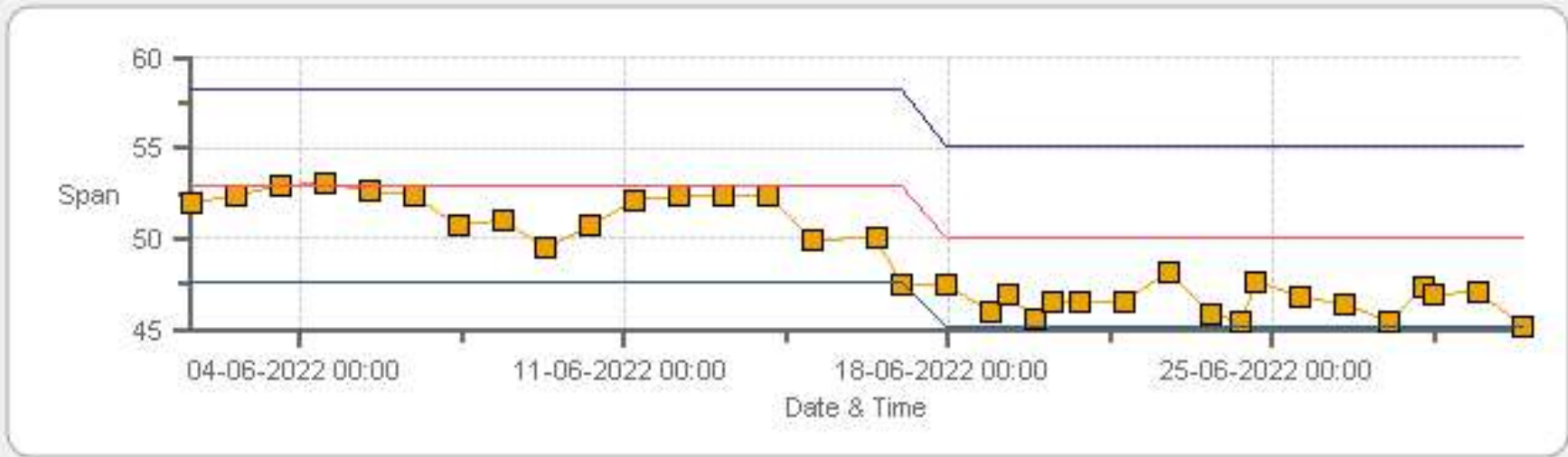
Span SpanRef Span Low Span High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



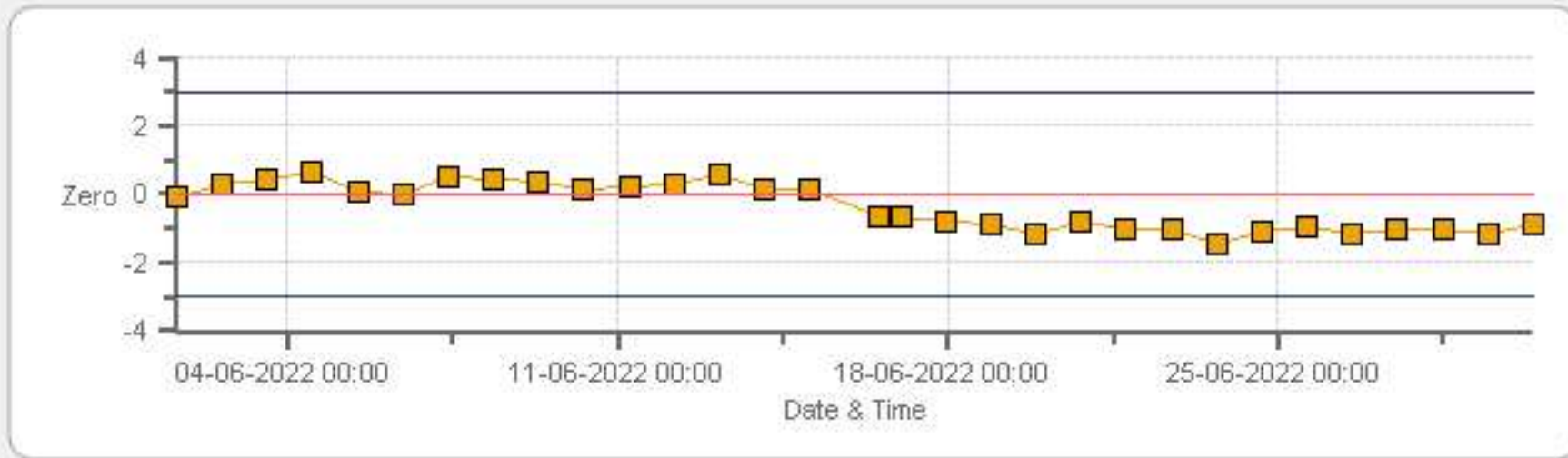
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



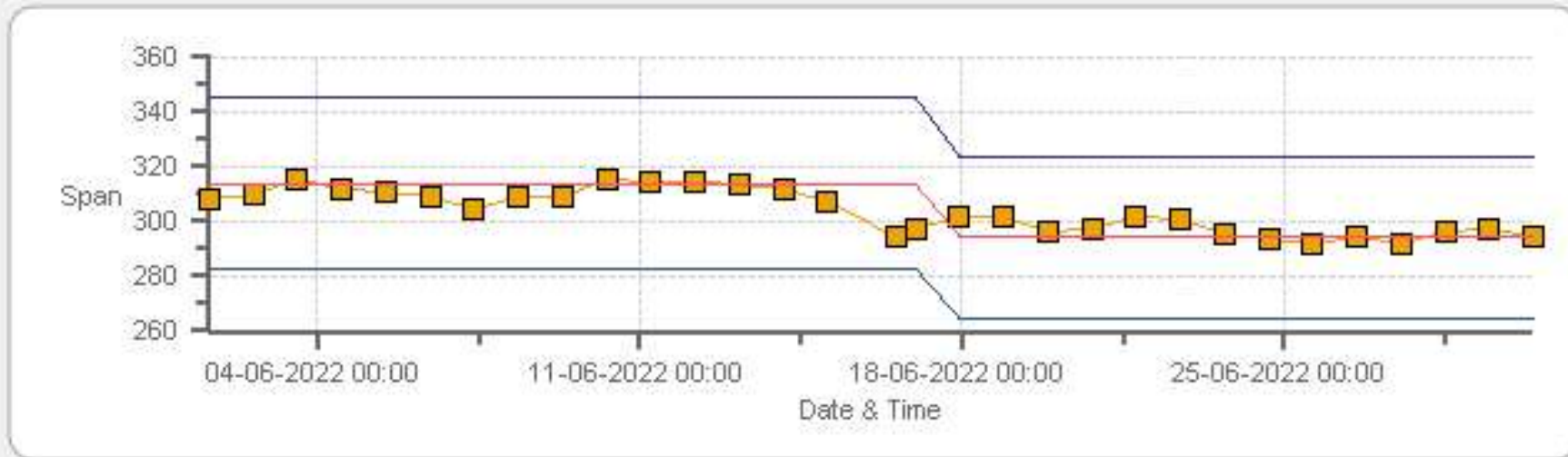
Span SpanRef Span Low Span High

NOX[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



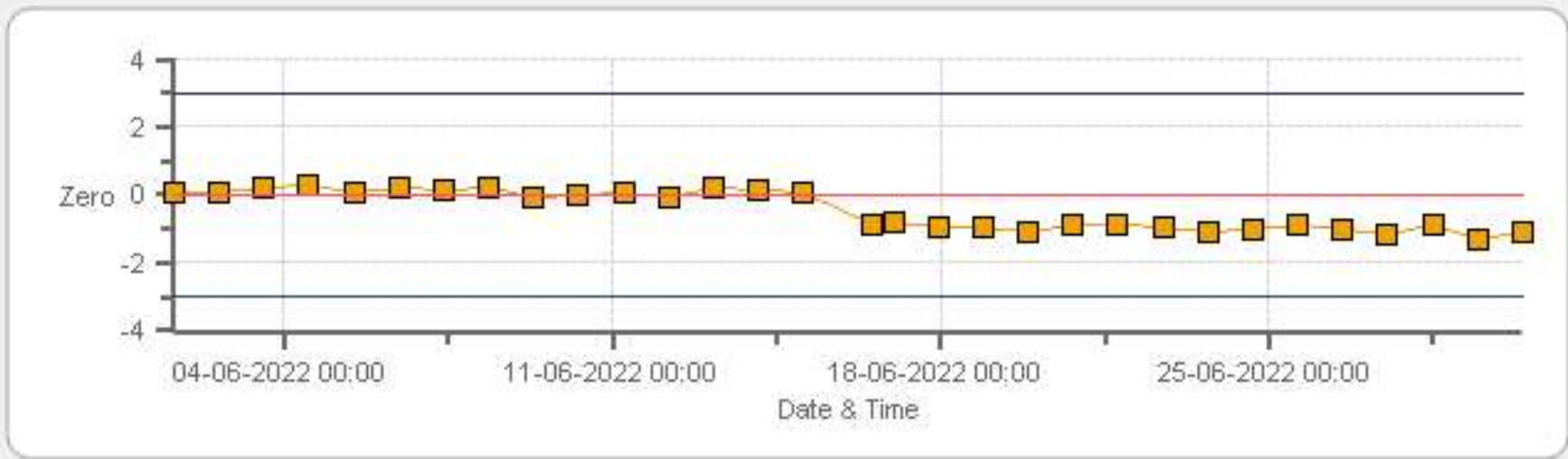
Zero Zero Ref Zero Low Zero High

NOX[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

NO2[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



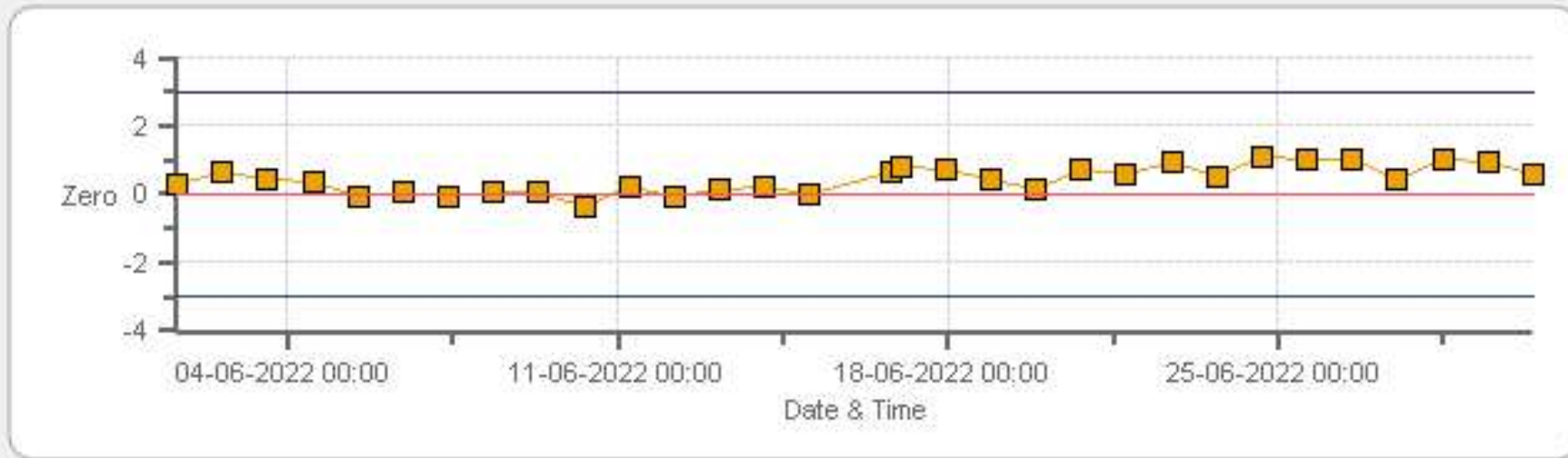
Zero Zero Ref Zero Low Zero High

NO2[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



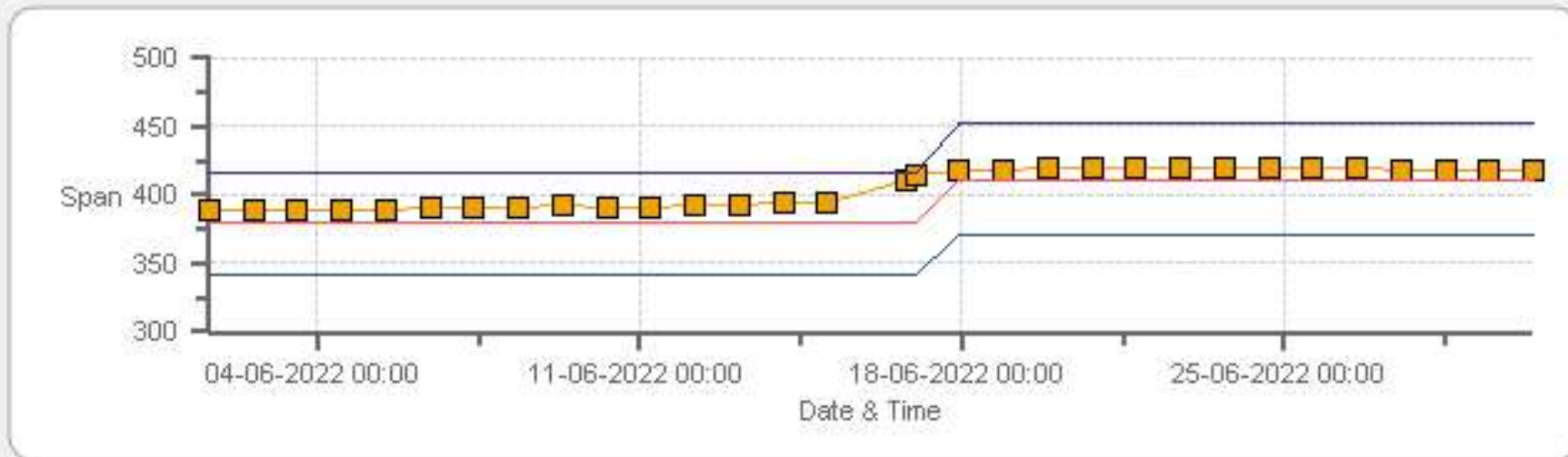
Span SpanRef Span Low Span High

O3[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



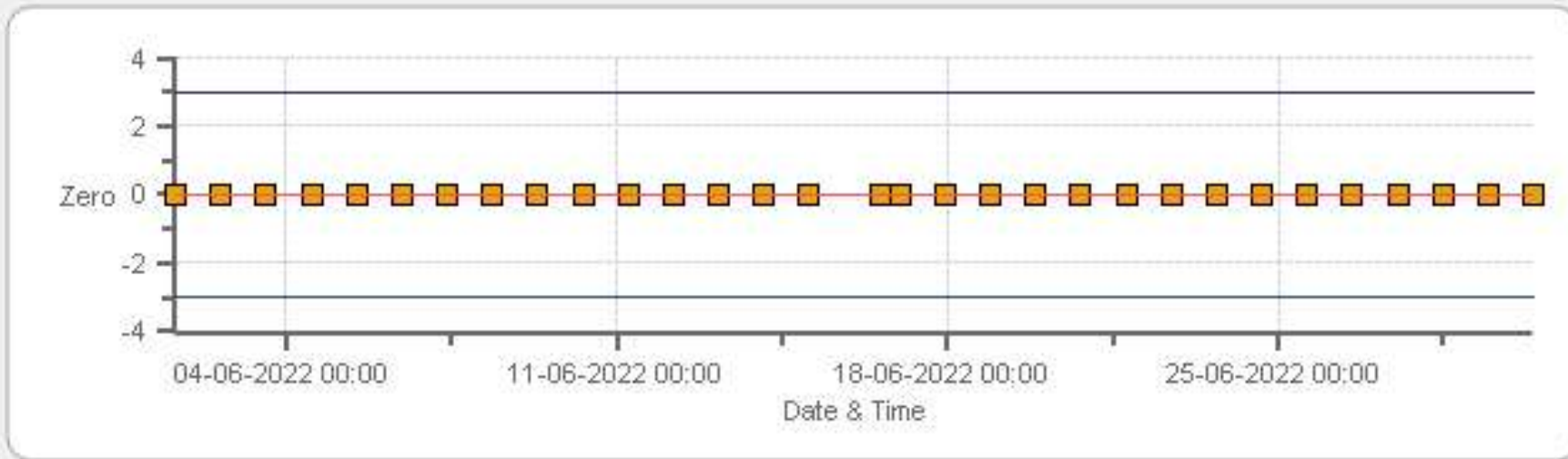
Zero Zero Ref Zero Low Zero High

O3[ppb] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



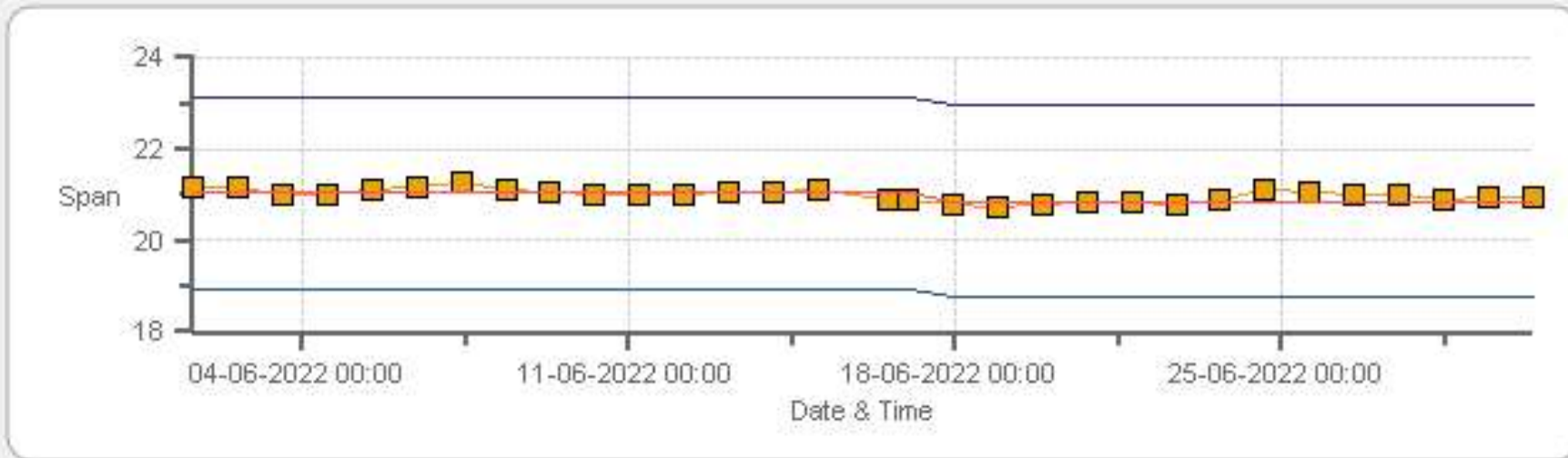
Span Span Ref Span Low Span High

THC55[ppm] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



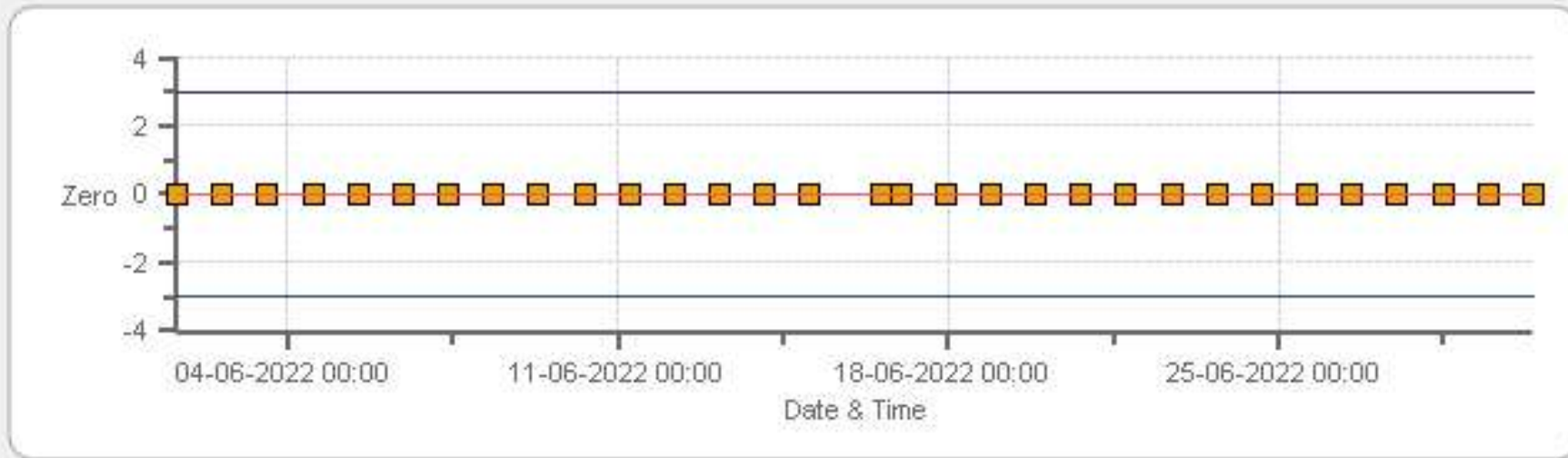
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



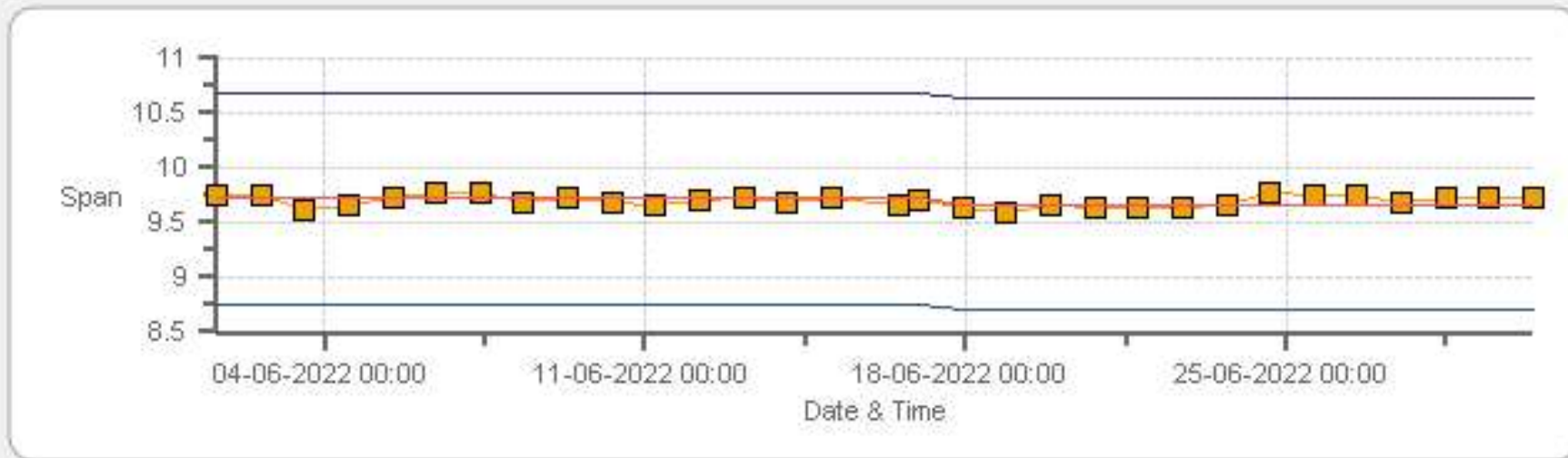
Span SpanRef Span Low Span High

CH4[ppm] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



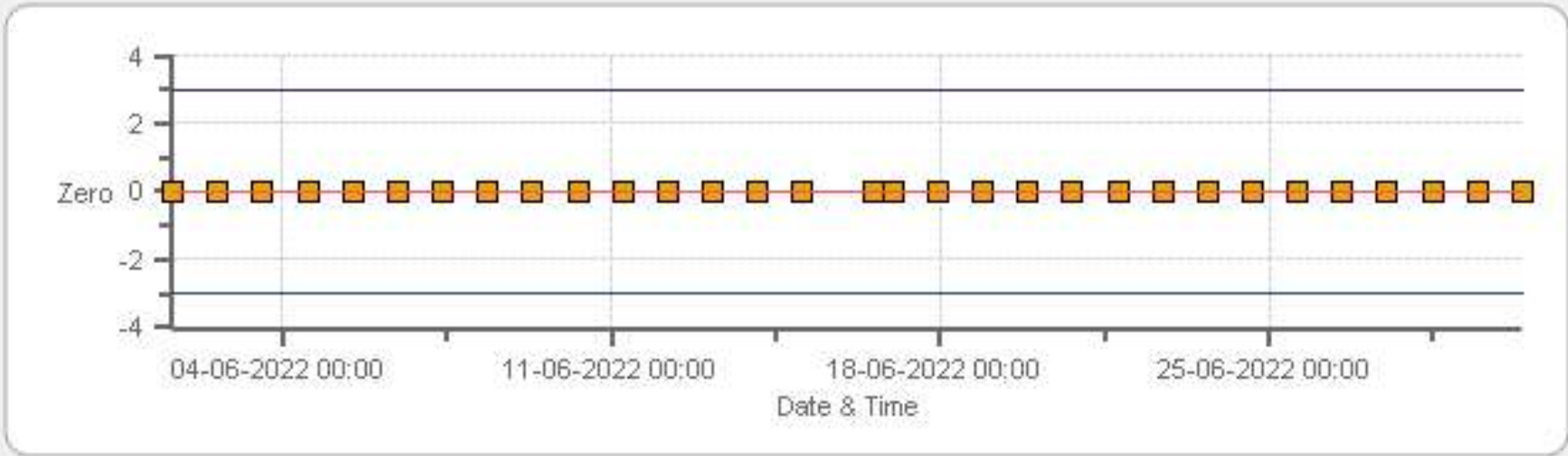
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



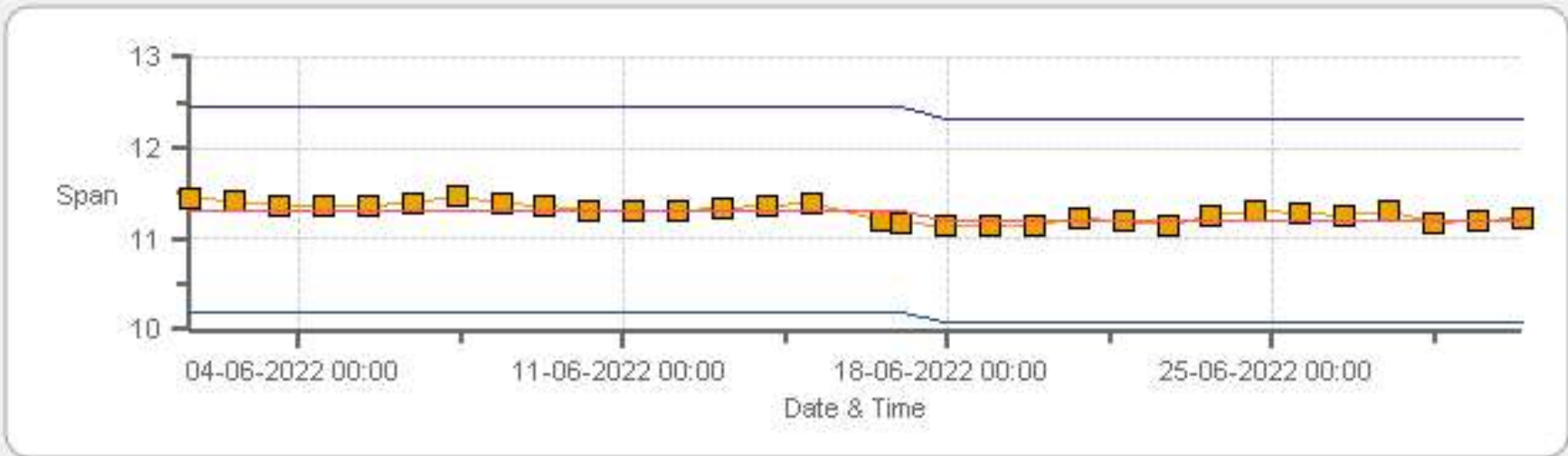
Span Span Ref Span Low Span High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 06-2022 Type: SpanAndZero - Span



Span SpanRef Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	16-Jun-2022	PREVIOUS CALIBRATION DATE:	19-May-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	945
PURPOSE:	Routine	START TIME (MST):	06:16
PERFORMED BY:	Chris Wesson	END TIME (MST):	10:34

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	529
INITIAL		FINAL	
BKG/OFFSET	24.3	BKG/OFFSET	24.8
COEF/SLOPE	0.922	COEF/SLOPE	0.94
Expected (reference) Value	260.4	Expected (reference) Value	267.5

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	4568
MFC CALIBRATION DATE:	15-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001923	HIGH ID	n/a
CONC (ppm):	25.1	EXPIRY DATE	n/a
CYLINDER (psi):	1900	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

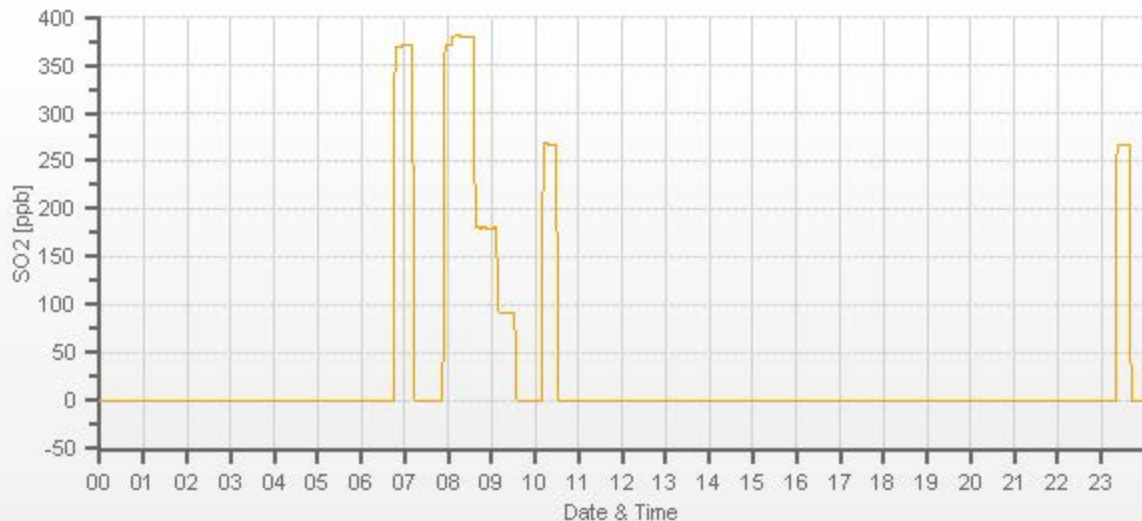
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3755	3755	3755	0.00	0.4	0	1.000	0.999
3694	56.80	3751	380.08	371.6	380.3	1.024	0.999
3720	26.90	3747	180.19	n/a	180.8	n/a	0.997
3746	13.40	3759	89.48	n/a	91.6	n/a	0.977

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.2%

COMMENTS:

Sample filter changed.



TRS Analyzer Calibration by Dilution



DATE:	16-Jun-2022	PREVIOUS CALIBRATION DATE:	19-May-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	20.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	945
PURPOSE:	Routine	START TIME (MST):	06:16
PERFORMED BY:	Chris Wesson	END TIME (MST):	10:34

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	516
INITIAL		FINAL	
BKG/OFFSET	26.3	BKG/OFFSET	27
COEF/SLOPE	1.17	COEF/SLOPE	1.13
Expected (reference) Value	52.89	Expected (reference) Value	50.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	4568
MFC CALIBRATION DATE:	15-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1400	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

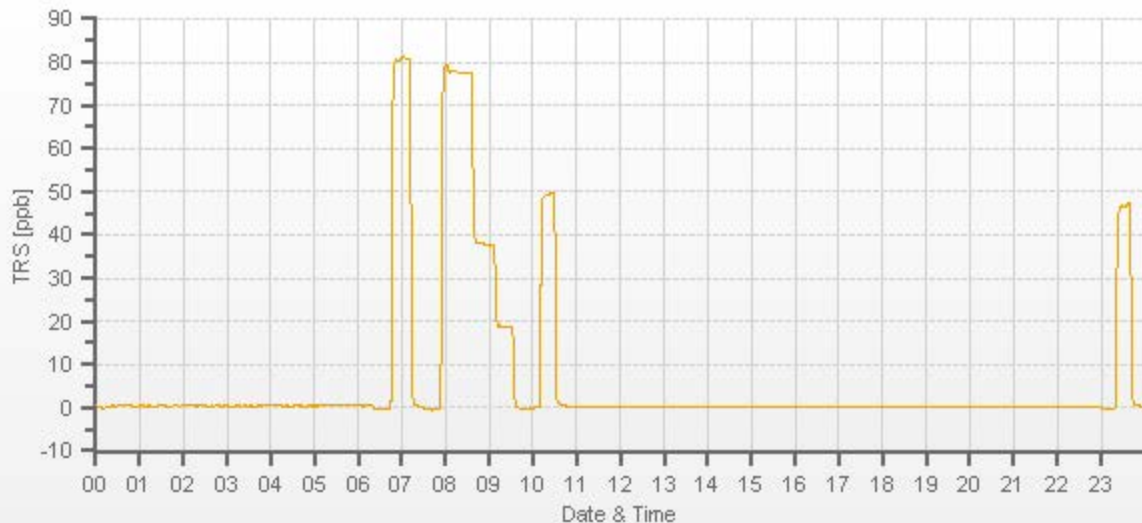
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3755	31.10	3755	0.00	0.36	0	0.964	0.999
3720	31.10	3751	78.02	81.33	78.06	0.964	0.999
3732	15.10	3747	37.92	n/a	37.95	n/a	0.999
3751	7.60	3759	19.03	n/a	19.2	n/a	0.991

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Converter, CDNova CDN-101 #530



NOx Calibration by Dilution/Gas-Phase Titration



CALIBRATION:				ANALYZER:			
DATE:	16-Jun-2022	PREVIOUS CALIBRATION DATE:	19-May-2022	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	20.4	SERIAL #:	837	NOx	0.999
LOCATION:	Grimshaw	BAROMETRIC (mBar):	945	FLOW (mL/min)	441	NO	0.999
PURPOSE:	Routine	START TIME (MST):	06:16	RANGE (ppb)	500	NO2	0.996
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:22	GPT FOR O3?		No	

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	EY 0001013	HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	NO/NOx (PPM):	49.2 49.4	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	1900	LOW ID:	n/a
MFC CALIBRATION DATE:	10-Mar-2022	OXIDIZER ID:	n/a	EXPIRY DATE	11-Nov-2029	LOW EXPIRY:	n/a

CALIBRATION SETTINGS:							
INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	0	-0.7	n/a	BKG/OFFSET:	2	-0.3	n/a
SLOPE/COEF/CE:	1.113	1.102	0.999	SLOPE/COEF/CE:	1.093	1.093	1.01

EXPECTED (REFERENCE) VALUE:							
INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	314.0	3.3	310.7		294.1	3.2	290.9

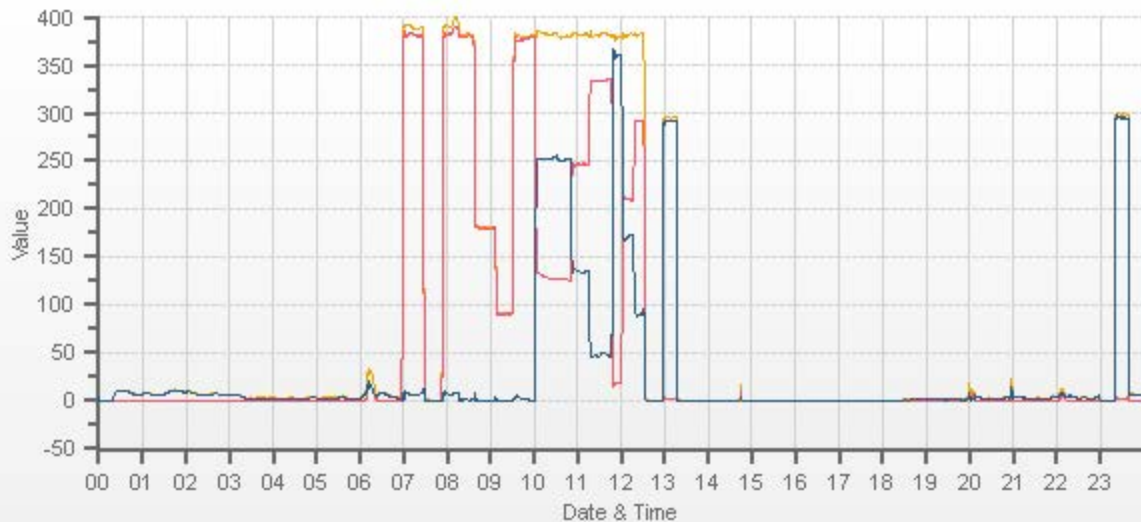
CALIBRATION PARAMETERS:				
POINT	NO TARGET (PPB)	NO2 TARGET (PPB)	NO2 RANGE	O3 POINT
HIGH	380	250	230-265	n/a
MID	180	125	115-150	n/a
LOW	90	45	40-55	n/a
EXTRA 1	n/a	n/a	n/a	n/a

FLOW RATE			CONCENTRATION (ppb)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2
4999	38.60	4999	0.0	0.0	0.0	0.0	3.4	3.3	0.0	0.0	0.0	0.999	0.993	0.998	1.000	0.998	1.001
4960	38.60	4999	379.9	381.4	1.5	380.4	387.5	7.1	380.6	381.6	1.3	0.999	0.993	0.998	1.000	0.998	1.001
4981	18.30	4999	180.1	180.8	0.7	n/a	n/a	n/a	180.4	180.6	0.3	n/a	n/a	0.998	1.001	0.998	1.001
4990	9.10	4999	89.6	89.9	0.4	n/a	n/a	n/a	90.5	90.3	-0.2	n/a	n/a	0.990	0.996	0.990	0.996

GPT CALIBRATION:										
Point	CALIBRATOR			INDICATED (ppb)			NO DROP / O3 Conc (ppb)	NO2 GAIN (ppb)	NO2 Corr. FACTOR	CONV. EFFICIENCY
	GAS	TOTAL	O3 SETPOINT	NO	NOx	NO2				
REFERENCE	38.60	4999	0	380.1	379.9	-0.2	251.9	254.4	0.990	100.99%
AS-FOUND HIGH	38.60	4999	250	128.2	382.4	254.2	251.9	254.4	0.990	100.99%
ADJUSTED HIGH	38.60	4999	250	126.5	378.7	252.3	253.6	252.5	1.004	99.57%
MID	38.60	4999	135	246.0	381.6	135.6	134.1	135.8	0.987	101.27%
LOW	38.60	4999	48	334.5	381.2	46.6	45.6	46.8	0.974	102.63%
NO2 COEF/CONVERTER EFFICIENCY ADJUSTED									AVERAGE:	101.16%

LINEAR REGRESSION ANALYSIS:				COMMENTS:
	CORRELATION	SLOPE	INTERCEPT	
NO	1.000	1.001	0.06%	
NOx	1.000	1.000	0.01%	
NO2	1.000	0.988	0.46%	

08:07-08:12 = user error. Adjusted high point restarted.
11:46 - 12:32, additional points for O3



CAL-PRAMP-202206-01689

Ozone Calibration by Direct GPT



DATE:	16-Jun-2022	PREVIOUS CALIBRATION DATE:	19-May-2022
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.3
LOCATION:	Grimshaw	BAROMETRIC (mBar):	943
PURPOSE:	Routine	START TIME (MST):	12:34
PERFORMED BY:	Chris Wesson	END TIME (MST):	19:01

ANALYZER:

MAKE/MODEL	API 400A	RANGE	500 ppb
SERIAL #	445	FLOW (mL/min)	820
INITIAL		FINAL	
BKG/OFFSET	-1.7	BKG/OFFSET	-2.6
COEF/SLOPE	0.99	COEF/SLOPE	0.998
Expected (reference) Value	379.1	Expected (reference) Value	411.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	SABIO	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	26701218	ID:	4568
MFC CALIBRATION DATE:	10-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION METHOD:		Direct GPT	
GPT DATE:	16-Jun-2022	GPT END TIME:	12:32

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
RANGE	300 - 400	150 - 200	50 - 100

CALIBRATION:

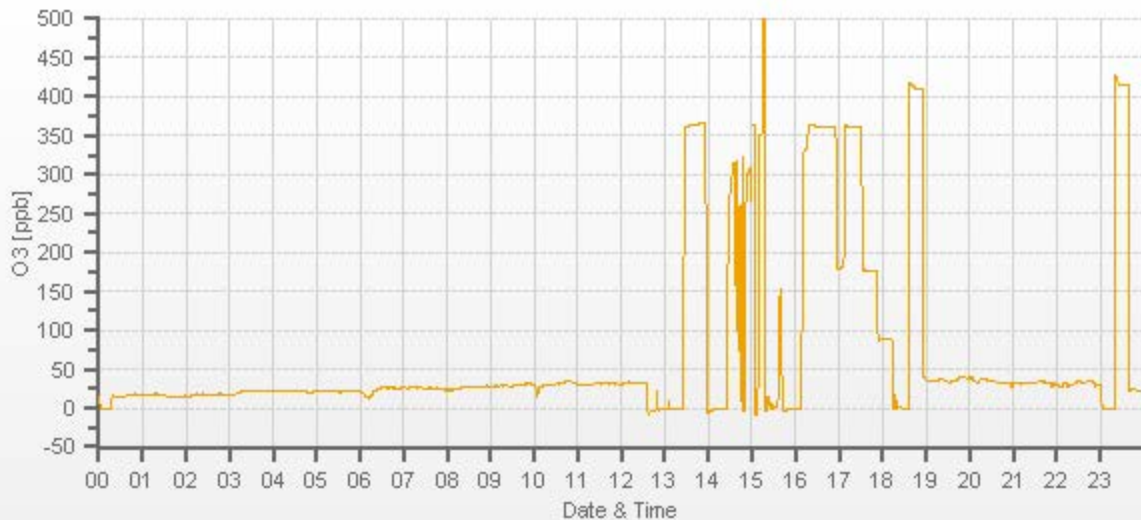
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4999	 	4999	0.0	-0.9	0.0	 	
4999	 	4999	361.5	366.7	361.6	0.983	1.000
4999	 	4999	170.3	n/a	176.1	n/a	0.967
4999	 	4999	88.1	n/a	90.4	n/a	0.975

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.4%

COMMENTS:

14:35 - Analyzer does not return to AF high value. Troubleshooting 14:37-15:42. Unable to find any problems. Restart calibration at adjust zero.
17:05 - fails at mid point .Return to adj high



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	16-Jun-2022	PREVIOUS CALIBRATION DATE:	19-May-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.8		Thermo 55i	1191032505	1102
LOCATION:	Grimshaw	BAROMETRIC (mBar):	944	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	09:48	RANGE (ppm):	20	20	40
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:38	PREVIOUS CF:	0.998	1.000	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	58100720	ID:	4568	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2022	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

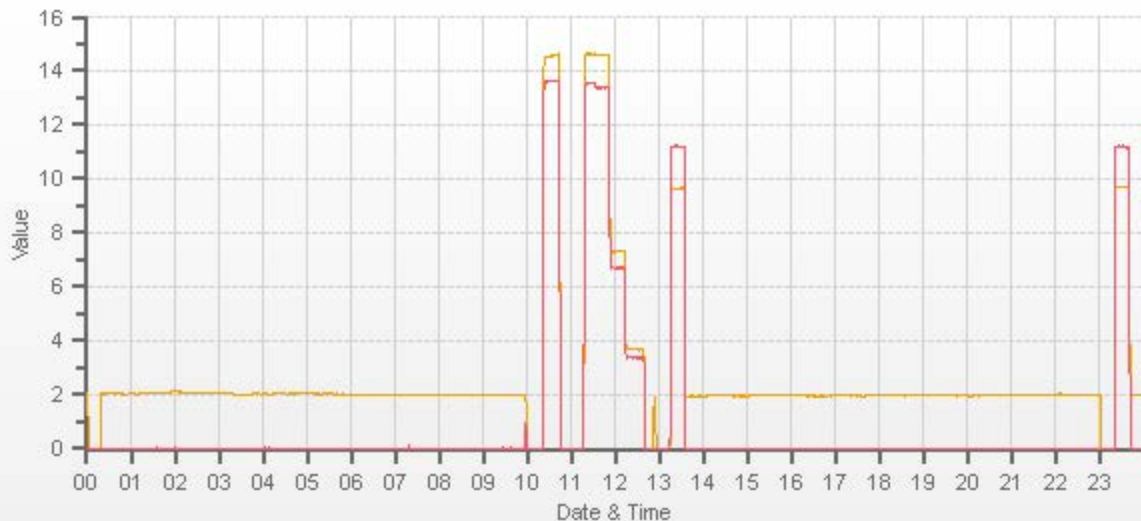
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.72	11.31	21.03		9.67	11.20	20.86

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
2900	X	2900	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
2831	69.60	2901	14.59	13.39	27.98	14.58	13.60	28.18	14.58	13.38	27.96	1.000	0.985	0.993	1.000	1.001	1.001
2866	34.80	2901	7.29	6.70	13.99	n/a	n/a	n/a	7.32	6.70	14.02	n/a	n/a	n/a	0.996	1.000	0.998
2886	17.40	2903	3.64	3.35	6.99	n/a	n/a	n/a	3.68	3.38	7.06	n/a	n/a	n/a	0.990	0.990	0.990

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	0.999	0.1%	No issues
NMHC	1.000	0.998	0.1%	
THC	1.000	0.999	0.1%	
				Use Zero Chrom? Yes



CAL-PRAMP-202206-01689



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	June 16, 2022	May 19, 2022	Weather Conditions:	Mainly sunny	
Company:	PRAMP		Start Time (mst):	11:56	
Station:	Grimshaw		End Time (mst):	12:51	
Parameter:	PM 2.5	Performed By/Reviewer:	Chris Wesson	Ferdinand Roy	
Instrument Data:					
Make/Model:	Teledyne T640		Serial Number:	318	
Owner:	PRAMP		Alarms (detail in comments):	No	
Reference Standards/I.D./Expiry Date:					
Flow Standard: DeltaCal DC1 S/N201588 / Nov 01, 2022		Temperature: Fisher #181341226 expires July 29, 2022			
Digital Manometer: DeltaCal DC1 S/N201588 / Nov 01, 2022		Pressure: BRUNTON #05535, Expire: Feb 22, 2023			
DIAGNOSTICS:					
Ambient Pressure (mmHg)	706.9	Ambient Temp (°C)	21.3	ASC Heater Duty (%)	0.0
Box Temp (°C)	25.6	Current PMT HV (V)	1536	LED Temp (°C)	34.26
P3 Value	49	PMT Setting (V)	1542	Pump PWM (%)	36
Sample Flow (L/min)	4.99	Sample RH (%RH)	31.6	Sample Temp (°C)	24.0
Item:	As-found		As-left		Tolerance
	Reference	T640x	Reference	T640x	
Zero Test (Leak Check)	PM10	0.0	n/a	0.0	0.0 to 0.2
	PM2.5	0.0	n/a	0.0	
Ambient Pressure (mmHg)	707.5	706.9	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	21.60	21.3	n/a		+/- 2°C
Sample Flow (L/min)	4.99	4.99	n/a	n/a	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
Additional Monthly Maintenance :					Completed
				Inlet cleaned?	No
				Sample tubing inspected (inner and outer)?	Yes
Quarterly Audit/Calibration:					
SpanDust™ Standard	Peak at Channel		Lot No:		Expiry:
	10.9		100128-050-033		06-01-2023
Item:	Verification:		Calibration (if needed):		Tolerance
	Reference	T640x	Reference	T640x	
Peak Channel	10.9	10.9	n/a	n/a	± 0.5
PMT Setting (V)	n/a	1542	n/a	n/a	n/a
Peak Channel Counts:	n/a	911	n/a	n/a	n/a
Comments:					

Meteorological System Checklist



Date:	June 16, 2022
Technician:	Chris Wesson
Station:	PRAMP Grimshaw

Unit:	Make:	Model:	Serial #:
Temperature Sensor:	Vaisala	HMP155	N2910506
Barometric Pressure Sensor:	MetOne	92	A2397
Relative Humidity Sensor:	Vaisala	HMP155	N2910506
Anemometer:	RM Young	05305AQ	174801

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	May 19, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher #181341226 expires July 29, 2022
Reference Temperature (°C):	18.5
Station - Ambient Temperature (°C):	18.3
Temperature Difference (°C):	0.2

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	May 19, 2022
Reference Barometer ID:	BRUNTON #05535, Expire: Feb 22, 2023
Reference Pressure - Units/Reading:	millibar 943.9
Station Pressure - Units/Reading:	millibar 944.1
Pressure Tolerance +/- 15% of error:	802 - 1085 -0.02%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	May 19, 2022
Reference Hygrometer ID:	Fisher #181341226 expires July 29, 2022
Reference Hygrometer % RH- Reading:	44.50
Station Hygrometer % RH- Reading:	46.30
RH Tolerance +/- 15% of difference:	37.83 - 51.18 -4.0%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	May 19, 2022	Previous check date:	May 19, 2022
Wind Speed Observed (kph):	0~10	Wind Direction Observed:	E
Wind speed on Data Logger (kph):	4.6	Wind Direction on Data Logger:	E
		Wind Direction Pass/Fail?:	Pass

Comments

No issues



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Ferdinand Roy
Audit Location:	Cadotte Lake	Reviewed By:	Chris Wesson
Audit Date:	July 22, 2021	Start/End Time (mst):	12:47-15:52
Calibration Purpose:	routine annual	Weather Conditions:	Cloudy/Overcast

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-180
Serial #:	174801	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	June 18, 2020	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 7, 2023

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.3	1.001
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
			Average Correction Factor=	1.002

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	353	0.1	2.0	1.1
30	330	27	330	3.5	-0.3	1.9
60	300	56	300	3.9	0.1	2.0
90	270	87	269	3.5	1.1	2.3
120	240	118	238	2.4	2.5	2.5
150	210	149	207	1.5	3.5	2.5
180	180	178	177	1.8	2.8	2.3
210	150	208	148	2.1	2.5	2.3
240	120	239	117	1.1	2.9	2.0
270	90	270	86	-0.1	3.6	1.9
300	60	300	57	0.2	3.5	1.8
330	30	330	27	-0.1	3.0	1.6
355	0	353	0	1.8	0.1	1.0
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.9

Comments:

Physical inspection completed - no issues.



Peace River Area Monitoring Program

JUNE 2022

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

CAL-PRAMP-202206-01698

Operation and Maintenance:

Bureau Veritas Canada

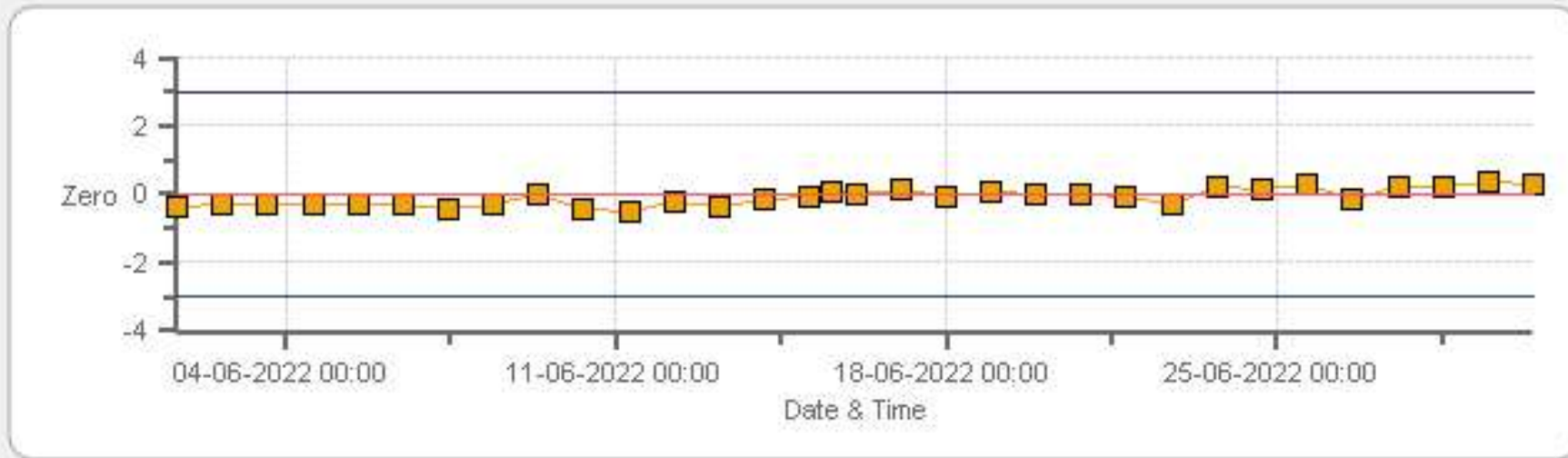
Data Validation and Report:

Bureau Veritas Canada

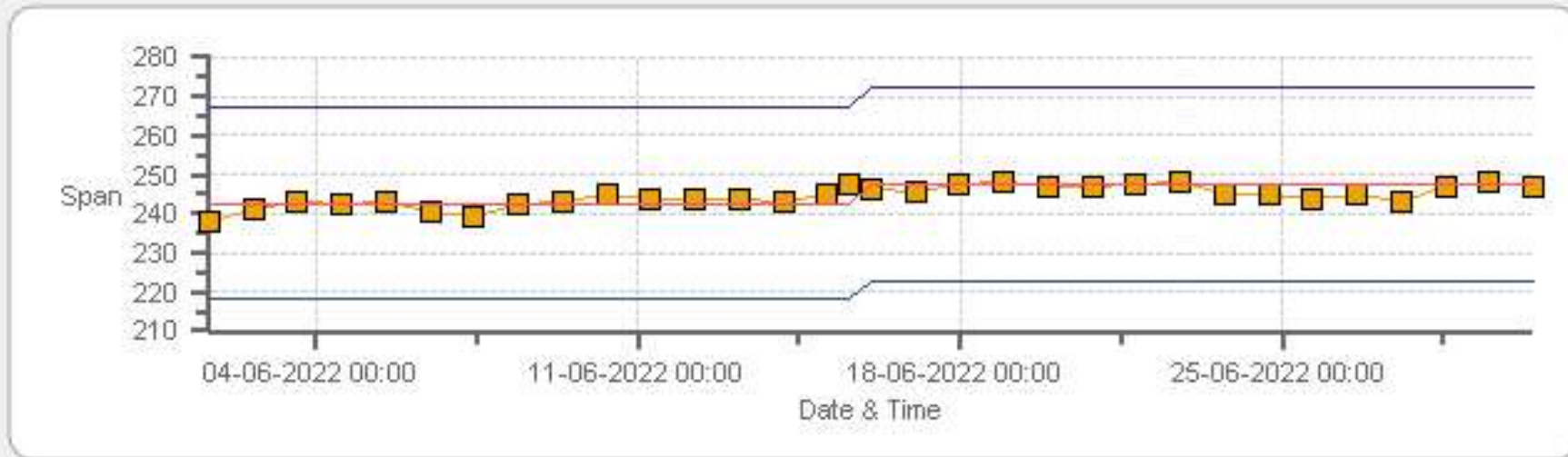
July 25, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

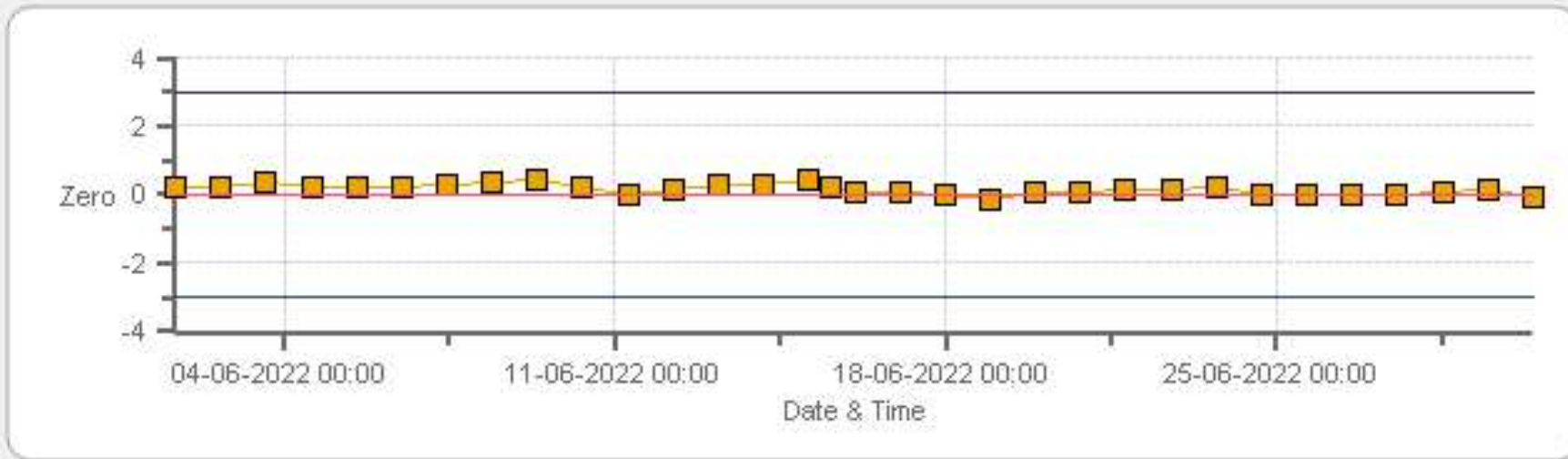
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Zero



SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Span



H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Zero



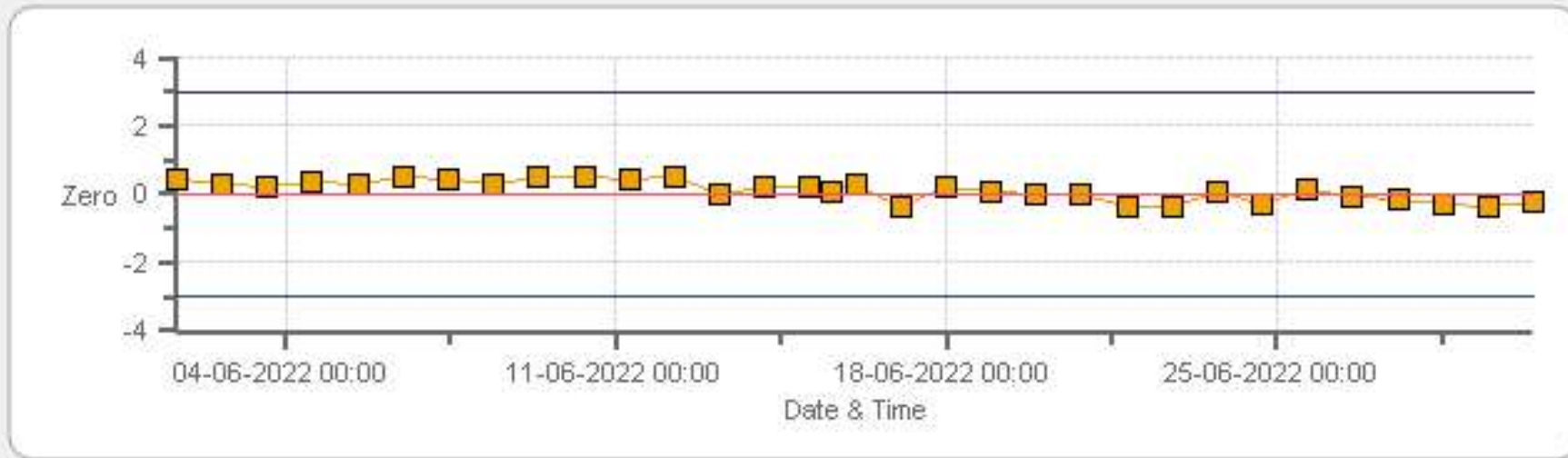
Zero Zero Ref Zero Low Zero High

H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Zero



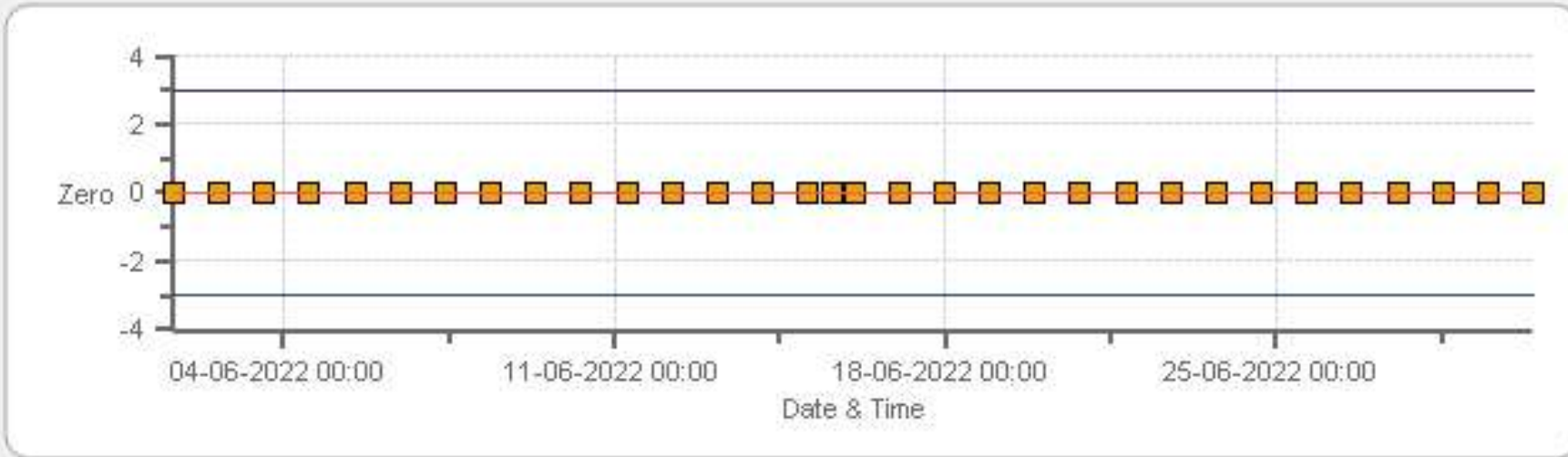
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Span



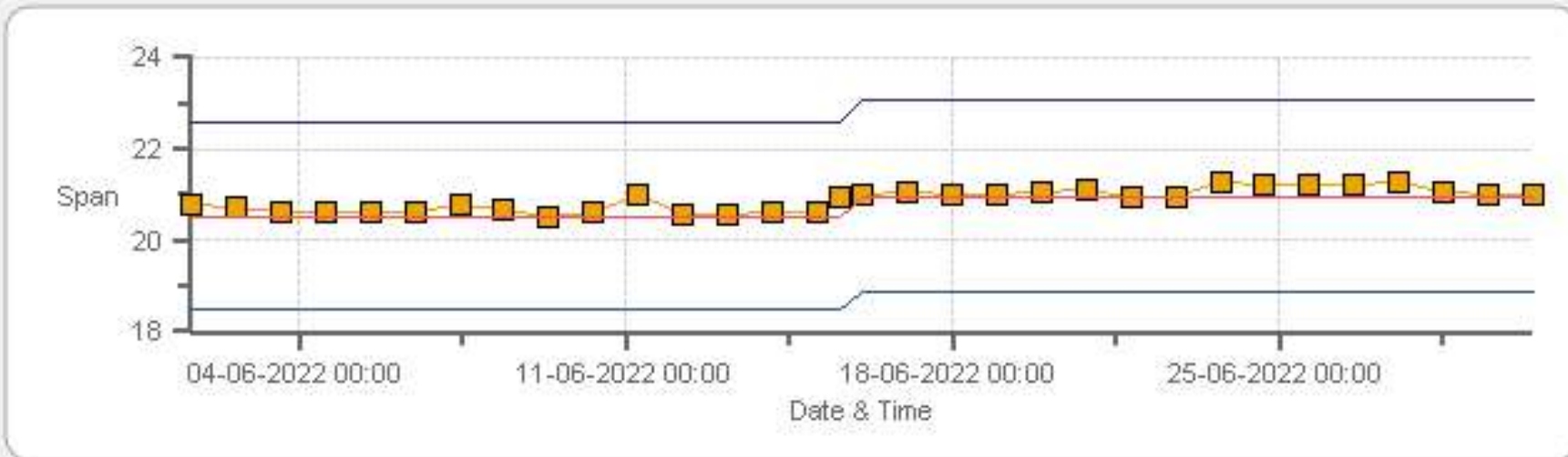
Span Span Ref Span Low Span High

THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Zero



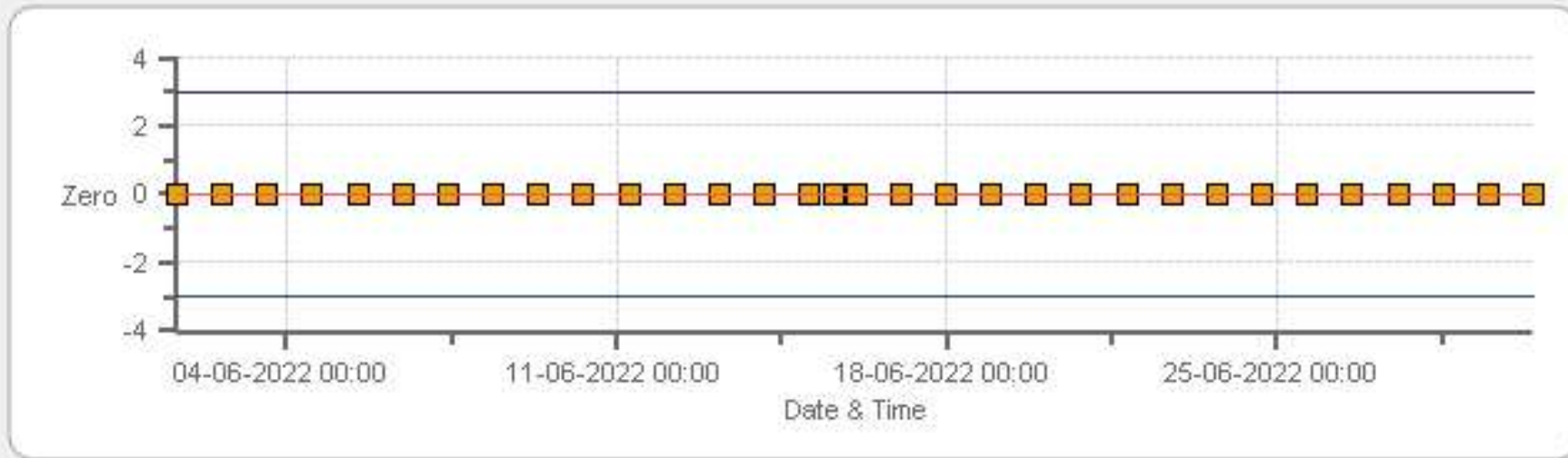
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Span



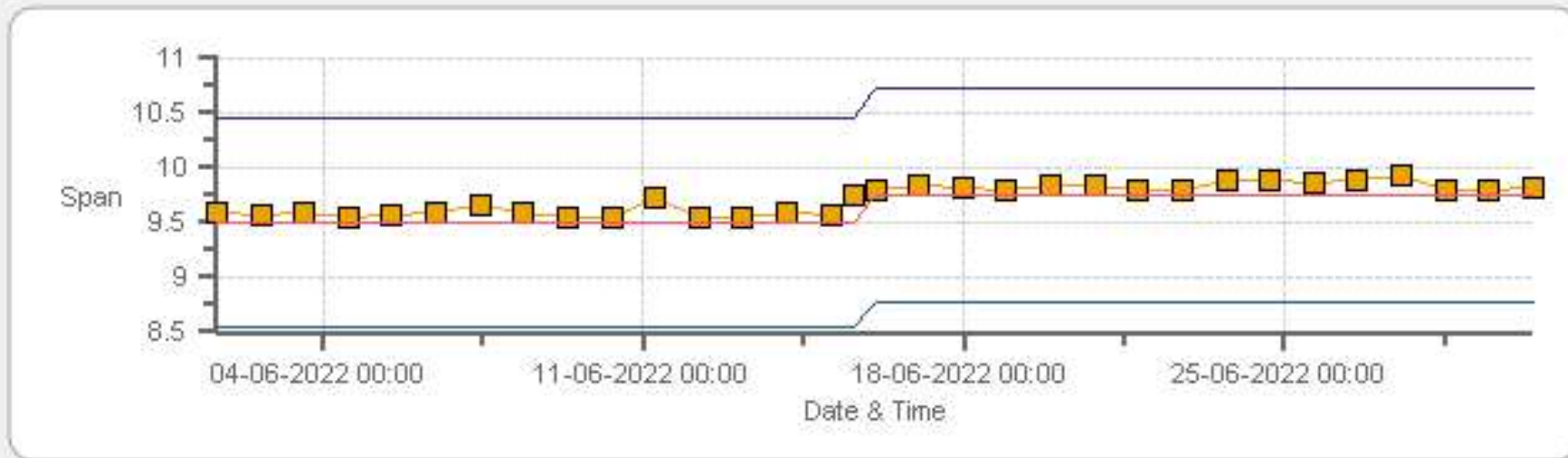
Span SpanRef Span Low Span High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Zero



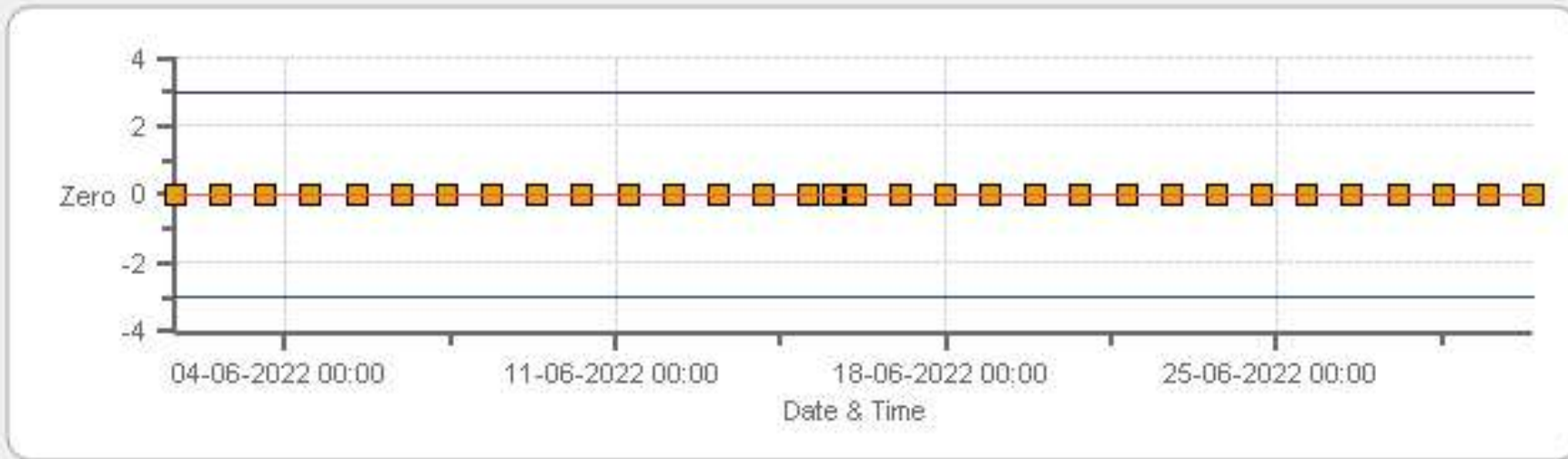
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Span

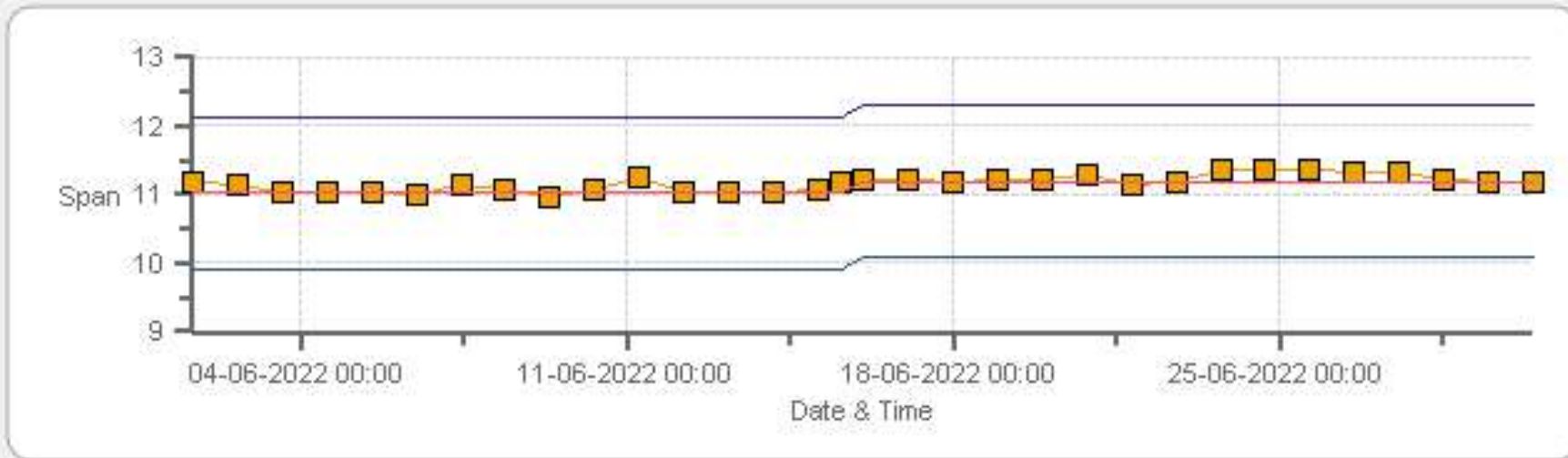


Span SpanRef Span Low Span High

NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 06-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	15-Jun-2022	PREVIOUS CALIBRATION DATE:	18-May-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	943
PURPOSE:	Routine	START TIME (MST):	09:19
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:05

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	430
INITIAL		FINAL	
BKG/OFFSET	18.6	BKG/OFFSET	18.6
COEF/SLOPE	1.068	COEF/SLOPE	1.071
Expected (reference) Value	242.7	Expected (reference) Value	247.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	4568
MFC CALIBRATION DATE:	15-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001923	HIGH ID	n/a
CONC (ppm):	25.1	EXPIRY DATE	n/a
CYLINDER (psi):	1900	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

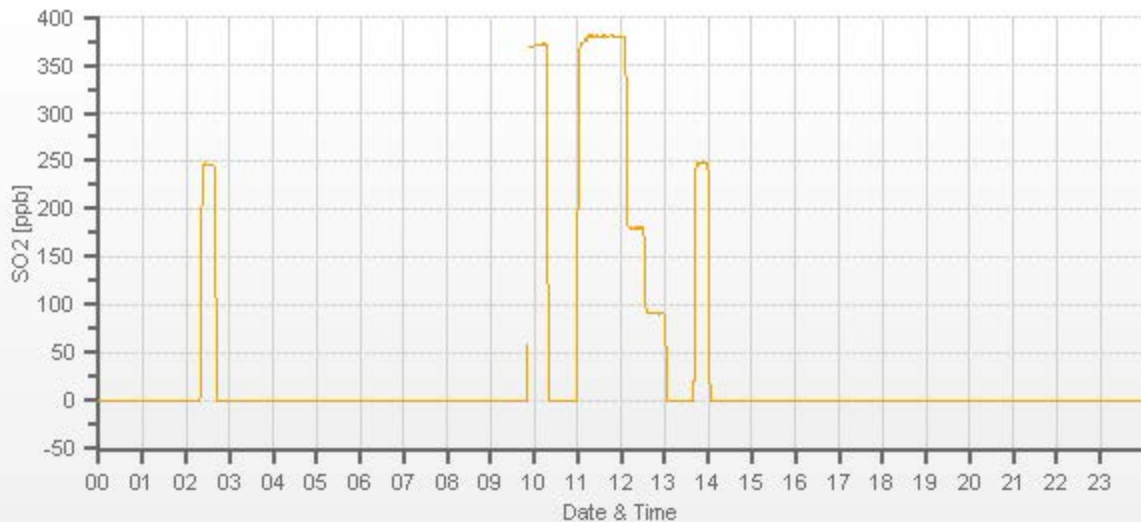
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3753	56.80	3753	0.00	-0.3	0	1.026	1.000
3692	56.80	3749	380.28	370.5	380.2	1.026	1.000
3723	26.90	3750	180.05	n/a	180.3	n/a	0.999
3738	13.40	3751	89.67	n/a	90.8	n/a	0.988

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed.



H2S Analyzer Calibration by Dilution



DATE:	15-Jun-2022	PREVIOUS CALIBRATION DATE:	18-May-2022
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	943
PURPOSE:	Routine	START TIME (MST):	09:19
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:05

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	848
INITIAL		FINAL	
BKG/OFFSET	13.8	BKG/OFFSET	13.4
COEF/SLOPE	1.057	COEF/SLOPE	1.005
Expected (reference) Value	43	Expected (reference) Value	37.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio 2010	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	5810720	ID:	4568
MFC CALIBRATION DATE:	15-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1900	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	09:31	SO2 Conc (ppb)	380
END TIME:	09:50	Analyzer Response (ppb)	0.1

CALIBRATION:

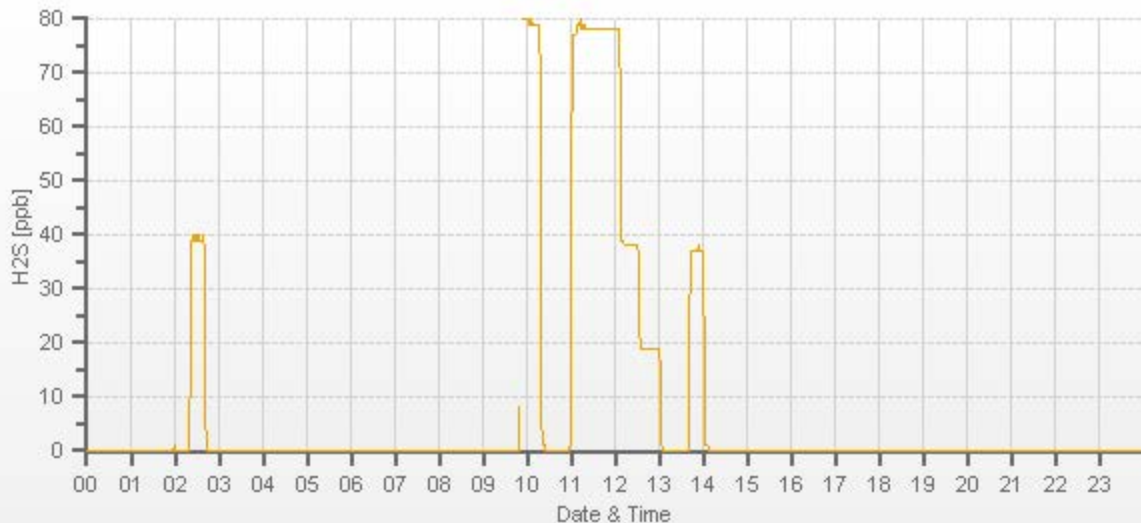
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3753	31.10	3753	0.00	0.2	0	0.988	1.000
3718	31.10	3749	78.06	79.2	78.1	0.988	1.000
3735	15.10	3750	37.89	n/a	38	n/a	0.997
3743	7.60	3751	19.07	n/a	19.2	n/a	0.993

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed.



TRS Analyzer Calibration by Dilution



DATE:	15-Jun-2022	PREVIOUS CALIBRATION DATE:	18-May-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	943
PURPOSE:	Routine	START TIME (MST):	09:19
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:05

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	721
INITIAL		FINAL	
BKG/OFFSET	25.4	BKG/OFFSET	24.6
COEF/SLOPE	0.965	COEF/SLOPE	0.921
Expected (reference) Value	55.73	Expected (reference) Value	51

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	4568
MFC CALIBRATION DATE:	15-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1900	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	0.0

CALIBRATION:

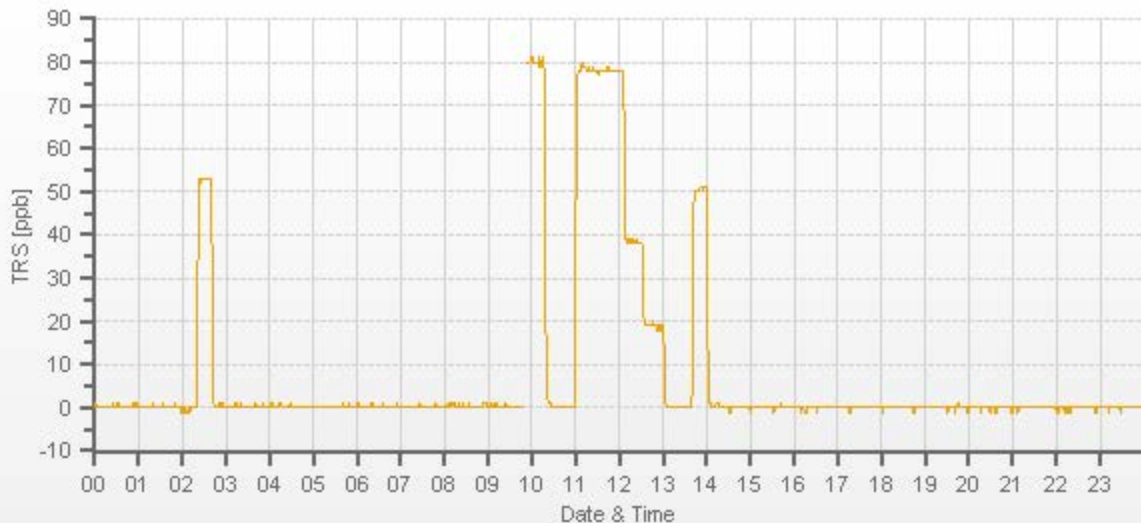
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3753	31.10	3753	0.00	-0.17	0	0.974	1.001
3718	31.10	3749	78.06	79.99	78.01	0.974	1.001
3735	15.10	3750	37.89	n/a	38.34	n/a	0.988
3743	7.60	3751	19.07	n/a	19.02	n/a	1.002

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Converter CD-NOVA CDN-101#506.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	15-Jun-2022	PREVIOUS CALIBRATION DATE:	18-May-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3		Thermo 55i	1022143392	689
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	943	PARAMETER:	CH4	NMHC	THC
PURPOSE	Removal/Shut-down	START TIME (MST):	09:19	RANGE (ppm):	20	20	40
PERFORMED BY:	Chris Wesson	END TIME (MST):	11:14	PREVIOUS CF:	1.001	0.998	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	10-Mar-2022	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.50	11.03	20.53		9.50	11.03	20.53

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3248	78.00	3248	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a	1.006	1.002	1.004	n/a	n/a	n/a
3171	78.00	3249	14.60	13.40	28.00	14.51	13.38	27.88	n/a	n/a	n/a	1.006	1.002	1.004	n/a	n/a	n/a
3209	39.00	3248	7.30	6.70	14.00	7.30	6.71	14.00	n/a	n/a	n/a	1.000	0.999	1.000	n/a	n/a	n/a
3231	19.50	3250	3.65	3.35	7.00	3.65	3.33	6.99	n/a	n/a	n/a	0.999	1.006	1.001	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	0.994	0.1%	Shutdown for pump rebuild. 09:50-10:02 - calibrator setting error. Reset and restart high point.
NMHC	1.000	0.999	0.0%	
THC	1.000	0.996	0.0%	
Use Zero Chrom?				No

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	15-Jun-2022	PREVIOUS CALIBRATION DATE:	n/a	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	20.0		Thermo 55i	1022143392	1120
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	943	PARAMETER:	CH4	NMHC	THC
PURPOSE	Install/Post-Repair	START TIME (MST):	11:58	RANGE (ppm):	20	20	40
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:28	PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	10-Mar-2022	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1166.3

EXPECTED (REFERENCE) VALUE:

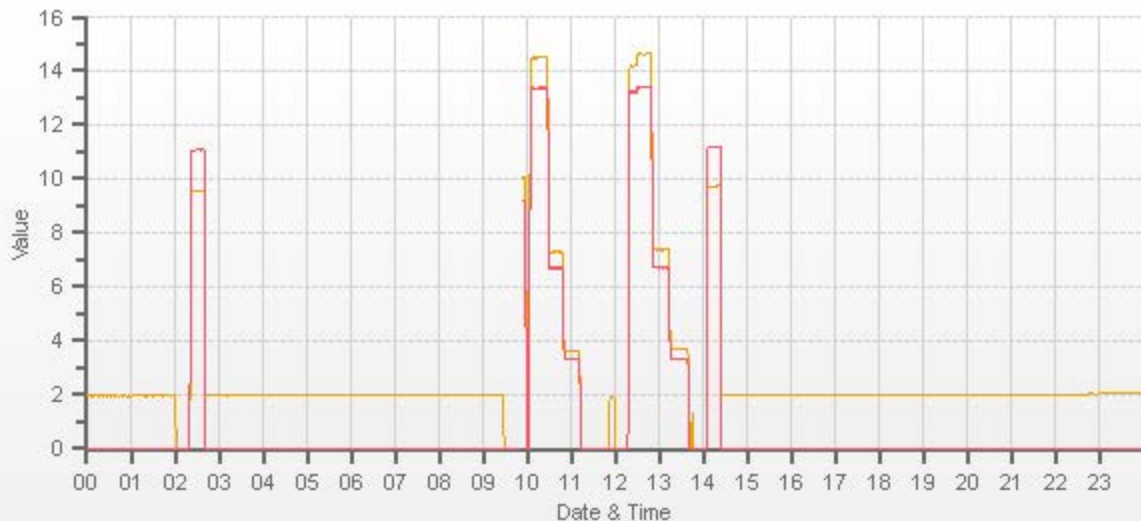
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.50	11.03	Dia		9.76	11.20	20.96

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3248	78.00	3248	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a
3172	78.00	3250	14.59	13.40	27.99	n/a	n/a	n/a	14.63	13.42	28.06	n/a	n/a	n/a	0.997	0.998	0.998
3209	39.00	3248	7.30	6.70	14.00	n/a	n/a	n/a	7.38	6.72	14.10	n/a	n/a	n/a	0.989	0.997	0.993
3231	19.50	3250	3.65	3.35	7.00	n/a	n/a	n/a	3.70	3.36	7.06	n/a	n/a	n/a	0.986	0.997	0.991

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:	
CH ₄	1.000	1.002	0.1%	Sample filter changed	
NMHC	1.000	1.002	0.0%		
THC	1.000	1.002	0.1%		
				Use Zero Chrom?	No



CAL-PRAMP-202206-01698

Meteorological System Checklist



Date:	June 15, 2022
Technician:	Chris Wesson
Station:	Peace River Compliance

Unit:	Make:	Model:	Serial #:
Temperature Sensor:	Rotronic	HC2-S3	20558318
Barometric Pressure Sensor:	MetOne	092	B19577
Relative Humidity Sensor:	Rotronic	HC2-S3	20558318
Anemometer:	RM Young	05305VK	129612

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	May 18, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher #181341226 expires July 29, 2022
Reference Temperature (°C):	22.5
Station - Ambient Temperature (°C):	21.9
Temperature Difference (°C):	0.6

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	May 18, 2022
Reference Barometer ID:	BRUNTON #05535, Expire: Feb 22, 2023
Reference Pressure - Units/Reading:	millibar 938.9
Station Pressure - Units/Reading:	millibar 942
Pressure Tolerance +/- 15% of error:	798 - 1080 -0.33%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	May 18, 2022
Reference Hygrometer ID:	Fisher #181341226 expires July 29, 2022
Reference Hygrometer % RH- Reading:	35.80
Station Hygrometer % RH- Reading:	37.80
RH Tolerance +/- 15% of difference:	30.43 - 41.17 -5.6%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	May 18, 2022	Previous check date:	May 18, 2022
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	N
Wind speed on Data Logger (kph):	14.7	Wind Direction on Data Logger:	N
		Wind Direction Pass/Fail?:	Pass

Comments



Meteorological Sensor Audit/Calibration

Location Information

Company:	CNRL	Performed By:	Ferdinand Roy
Audit Location:	Peace River Compliance	Reviewed By:	Chris Wesson
Audit Date:	June 16, 2021	Start/End Time (mst):	8:20/10:45
Calibration Purpose:	routine annual	Weather Conditions:	Mix of sun and clouds

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	0-1
Sensor Model:	05305VK	Velocity Unit Output Range:	0-200
Serial #:	129612	Direction Voltage Output Range:	0-1
Previous Cal/Audit Date:	July 14, 2020	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18801 id# R9133 expires August 6, 2022

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.5	18.5	0.996
2000	36.9	36.9	36.9	0.999
3000	55.3	55.4	55.4	0.998
4000	73.7	73.8	73.8	0.999
5000	92.2	92.3	92.3	0.998
6000	110.6	110.8	110.7	0.998
7000	129.0	129.4	129.2	0.998
8000	147.4	147.8	147.8	0.998
9000	165.9	166.4	166.4	0.997
10000	184.3	185.0	184.8	0.997
The audit meets AMD requirements.			Average Correction Factor=	0.998

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	30	329	0.0	1.0	0.5
60	300	61	300	-1.0	0.0	0.5
90	270	92	271	-2.0	-1.0	1.5
120	240	122	241	-2.0	-1.0	1.5
150	210	151	212	-1.0	-2.0	1.5
180	180	181	181	-1.0	-1.0	1.0
210	150	211	152	-1.0	-2.0	1.5
240	120	241	122	-1.0	-2.0	1.5
270	90	271	92	-1.0	-2.0	1.5
300	60	300	62	0.0	-2.0	1.0
330	30	329	31	1.0	-1.0	1.0
355	0	354	1	1.0	1.0	1.0
The audit meets AMD requirements.			Average Absolute Degrees Difference=		1.2	

Comments:

Physical inspection completed - no issues.



Peace River Area Monitoring Program

JUNE 2022

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202206-INTEGRATED

July 26, 2022

Pages may be left blank for double-sided printing

Table of Contents

NETWORK STATION SUMMARY	5
Listing of Integrated Sampling Stations	5
Listing of Passive Sampling Sites	5
List of Contractors who performed the air monitoring activities	5
Monitoring Notes during the Month of June 2022.....	6
Revisions to Alberta’s Ambient Air Quality Data Warehouse.....	6
Deviations from Authorized Monitoring Methods	6
Certification.....	7
INTEGRATED SAMPLING RESULTS SUMMARY	8
ANALYTICAL SAMPLING RESULTS	9
Passives	10
End of Report	12



Peace River Area Monitoring Program
Suite 91, 305 – 4625 Varsity Drive NW
Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: prampotech@prampairshed.ca
www.prampairshed.ca

July 26, 2022

Alberta Environment and Parks (AEP)
11th Floor, Oxbridge Place
9820 106 Street
Edmonton, AB, T5K 2J6

RE: PRAMP –June 2022 Monthly Ambient Air Quality Monitoring Integrated Sampling Report

Enclosed is the June 2022 Monthly Ambient Air Quality Monitoring Integrated Sampling Report for the Peace River Area Monitoring Program's (PRAMP) regional air quality monitoring network. This report summarizes monitoring data for samples collected using integrated methods, including volatile organic compounds (NMHC canister sampling program), hydrogen sulphide, and sulphur dioxide (passive sampling program).

The representative of the Person Responsible for this monitoring program is

PRAMP Airshed
Michael Bisaga / Lily Lin, Technical Program Managers
Suite 91, 305 – 4625 Varsity Drive NW
Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: prampotech@prampairshed.ca

This report has been prepared, reviewed and submitted by Michael Bisaga & Lily Lin of the PRAMP Airshed. This report is also submitted on behalf of the industrial member companies to satisfy the requirements of the facility Operating Approvals.

NETWORK STATION SUMMARY

Listing of Integrated Sampling Stations

- 986c Station
- 842b Station
- Reno Station
- Peace River Complex (PRC) Station

Station Name	986c	842b	Reno	PRC
Station ID	1562	1561	1563	1698
Coordinates	56.36980, -116.92500	56.27406, -116.98129	55.86936, -117.05739	56.38257, -116.769283
NMHC Canister (VOCs)	√	√	√	
Intermittent (PACs)	√			
Passives				√

Listing of Passive Sampling Sites

Site ID	Latitude	Longitude
1	56.377841	-116.787142
2	56.378638	-116.780496
3	56.382958	-116.783813
4	56.377044	-116.794220
7	56.384796	-116.780488
8	56.388710	-116.771234
9	56.388943	-116.756205
10	56.388642	-116.797817
11	56.383771	-116.841165
12	56.388962	-116.885263
13	56.390972	-116.822083
14	56.424825	-116.853181

List of Contractors who performed the air monitoring activities

Sampling Program	Monitoring Activities Conducted By	Sample Analysis Conducted By	Data/Report Prepared By	Electronic Submission Conducted By
NMHC Canister (VOCs)	Bureau Veritas	InnoTech Alberta Inc	PRAMP	PRAMP
Intermittent (PACs)	PRAMP	ECCC	AEP	AEP
Passives	PRAMP	Bureau Veritas	PRAMP	PRAMP

Monitoring Notes during the Month of June 2022

- **NMHC Canister Sampling Program - Volatile Organic Compounds (VOCs)**
 - The canister sampling program collects a 1-hour sample of air when the continuously measured non-methane hydrocarbon (NMHC) concentration reaches a specified trigger point. The current trigger point is 0.3 ppm for non-methane hydrocarbons. The trigger point is based on real-time monitoring data that are averaged over a 5-minute period.
 - No NMHC canister events were recorded in June.

- **Passive Polycyclic Aromatic Compounds (PACs) Sampling Program**
 - The PAC sampling program began in December 2019, and is designed to collect a 2-month integrated sample.
 - The sample media for sampling period of May and June was removed on June 30. The sample media for sampling period of July and August were installed at the same time, and they are schedule to be removed in late August.

- **Passives Sampling Program**
 - There were no exceedances of the AAAQOs for all monitored parameters at any of the passive stations during this month.
 - The passive sample filters were installed at the stations on June 1 and were removed on June 1.
 - The sample media for SO₂ at station #2 was found damaged and could not be analyzed.

Revisions to Alberta's Ambient Air Quality Data Warehouse

No revisions to historical data previously submitted to the Alberta's Ambient Air Quality Data Warehouse were made this month.

Deviations from Authorized Monitoring Methods

There were no deviations from authorized monitoring methods.

Certification

The report was prepared and submitted by Lily Lin in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

A handwritten signature in blue ink, appearing to read 'Lily Lin', with a stylized flourish at the end.

Lily Lin, Technical Program Manager, PRAMP Airshed

The report was reviewed by Mike Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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. I also certify that at the time of this report's submission, all air data have been electronically uploaded to Alberta ETS as required by the AMD.

A handwritten signature in blue ink, appearing to read 'Michael Bisaga', with a stylized flourish at the end.

Michael Bisaga, Technical Program Manager, PRAMP Airshed

July 26, 2022

INTEGRATED SAMPLING RESULTS SUMMARY

- **Passive analytical results**

	H ₂ S		SO ₂	
Minimum (ppb)	0.15	#14	<0.1	#11
Maximum (ppb)	0.57	#13	0.3	#4
Average (ppb)	0.25	-	0.16	-

Notes: The SO₂ sample media installed at station #2 was found damaged and could not be analyzed.

ANALYTICAL SAMPLING RESULTS

Passives



PEACE RIVER AREA MONITORING PROGRAM

PRC Site - June 2022

Passive Results

	H ₂ S		SO ₂	
Minimum (ppb)	0.15	#14	<0.1	#11
Maximum (ppb)	0.57	#13	0.3	#4
Average (ppb)	0.25	-	0.16	-
No.	Calculated Value		Calculated Value	
1	0.18		0.1	
2	0.16		NA	
3	0.25		0.2	
4	0.49		0.3	
7	0.18		0.2	
8	0.26		0.1	
9	0.17		0.1	
10	0.17		0.1	
11	0.24		<0.1	
12	0.19		<0.1	
13	0.57		0.2	
14	0.15		<0.1	
Reportable Detection Limit (RDL)	0.02		0.1	

Notes: SO2 media at station 2 was found damaged.

End of Report



Peace River Area Monitoring Program

JUNE 2022

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202206

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

July 25, 2022

Table of Contents

Passive Sampling Analytical Results.....	3
End of Report	10

Passive Sampling Analytical Results



Bay 10, 6744 - 50 St. Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Maxxam Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Page ___ of ___

Invoice To

Company Name _____

Contact Name _____

Address _____

Postal Code _____

Phone/Fax# Ph _____ Fax _____

Report To

Name & Email Address _____

Service Requested

RUSH
(Please contact for TAT)

REGULAR

Company Name

Peace River

Project Name/LSD

Peace River

ANALYTICAL INFORMATION

Analysis Required

Sample ID or Location (LSD)	Sample Start Date (DD/MM/YY)	Time (24 hrs) (HH:MM)	Sample End Date (DD/MM/YY)	Time (HH:MM)	Volume (m3) PM/TSP Only	Analysis Required																		
						SO2	H2S	NO2	O3	NOx	NH3	HNO3	VOC	PM2.5	PM10	TSP	Dustfall							
1	01/06/22	8:00 am	01/07/22	8:00 am		X	X																	
2	↓	↓	↓	↓		X	X																	
3						X	X																	
4						X	X																	
7						X	X																	
8						X	X																	
9						X	X																	
10						X	X																	
11						X	X																	
12						X	X																	
13						X	X																	
14						X	X																	
Blank							12:00pm		10:00am		X	X												
Blank									missing		X	X												
Blank									missing		X	X												

Notes/Comments: Client 12521 / Scenario 18009

Sampled By Bo Guerin Phone/Email 618180 Received By Bo Guerin Date/Time 07/01/22 Project # CNRL PRC

Date Shipped _____ Signature [Signature] PO# _____

12 H2S
12 SO2
22-07-13
C10:30



Your Project #: 2022/06/01 - 2022/07/01
Site Location: PEACE RIVER COMPLEX

Attention: Michael and Lily

Peace River Area Monitoring Program Committee
Three Creeks
Suite 91, 305 –
4625 Varsity Drive NW
Calgary, AB
CANADA T3A0Z9

Report Date: 2022/07/25
Report #: R3204429
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C250259

Received: 2022/07/13, 10:30

Sample Matrix: Air
Samples Received: 12

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
H2S Passive Analysis	12	2022/07/21	2022/07/21	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	12	2022/07/15	2022/07/21	PTC SOP-00149	Passive SO2 in ATM

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.



RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		AXD751	AXD752	AXD753	AXD754	AXD755	AXD756	AXD757		
Sampling Date		2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch

Passive Monitoring										
Calculated H2S	ppb	0.18	0.16	0.25	0.49	0.18	0.26	0.17	0.02	A651287
Calculated SO2	ppb	0.1	DAMAGED (1)	0.2	0.3	0.2	0.1	0.1	0.1	A645050
RDL = Reportable Detection Limit (1) V5										

Bureau Veritas ID		AXD758	AXD759	AXD760	AXD761	AXD762		
Sampling Date		2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00	2022/06/01 08:00	2022/06/01 12:00		
	UNITS	10	11	12	13	14	RDL	QC Batch

Passive Monitoring								
Calculated H2S	ppb	0.17	0.24	0.19	0.57	0.15	0.02	A651287
Calculated SO2	ppb	0.1	<0.1 (1)	<0.1 (1)	0.2	<0.1 (1)	0.1	A645050
RDL = Reportable Detection Limit (1) V7								



**BUREAU
VERITAS**

Bureau Veritas Job #: C250259
Report Date: 2022/07/25

Peace River Area Monitoring Program Committee
Client Project #: 2022/06/01 - 2022/07/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

GENERAL COMMENTS

Travel blanks AXD763 and AXD764 for SO2 parameter was not returned to the lab. Default lab blank value used in the calculation of final results.--OZ
2022/07/18

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C250259
Report Date: 2022/07/25

Peace River Area Monitoring Program Committee
Client Project #: 2022/06/01 - 2022/07/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A645050	OZ	Spiked Blank	Calculated SO2			99	%	90 - 110
A645050	OZ	Method Blank	Calculated SO2		<0.1		ppb	
A651287	KDE	Spiked Blank	Calculated H2S			100	%	90 - 110

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C250259
Report Date: 2022/07/25

Peace River Area Monitoring Program Committee
Client Project #: 2022/06/01 - 2022/07/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

End of Report