



Peace River Area Monitoring Program

AUGUST 2022

Monthly Ambient Air Quality Monitoring Report

PRAMP-202208

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

September 16, 2022

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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



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September 16, 2022

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

Enclosed is the August 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
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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 August 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, except SO₂ (87.8%) and THC/CH₄/NMHC (88.7%). **AEP reference #: 404462.**

- **All parameters:** A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event.
- **SO₂:** The analyzer failed due to a firmware crash on August 28. The analyzer was reset on August 29. Twenty-two hours of downtime were recorded. With the downtime caused by the power outage and the system crash, the 90% operational uptime was not meet this month.
- **THC/CH₄/NMHC:** The analyzer failed due to a sample pump failure on August 4. The pump was replaced, and a successful post-repair calibration was completed on August 5. Sixteen hours of downtime were recorded due to this event. With the downtime caused by the power outage and the sample pump failure, the 90% operational uptime was not meet this month.

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.
- **THC/CH₄/NMHC:** Following a successful shut-down calibration on the Thermo 55i analyzer, s/n: 1501663728, on August 17, the analyzer was removed for maintenance. The Thermo 55i analyzer, s/n: 1193585652, was installed. The analyzer was put offline overnight to stabilize, and a successful installation calibration was completed on August 18. Twenty-four hours of downtime were recorded due to this event.

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.
- **All parameters:** A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event.

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 recorded 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 recorded 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 both the PRC station and 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).

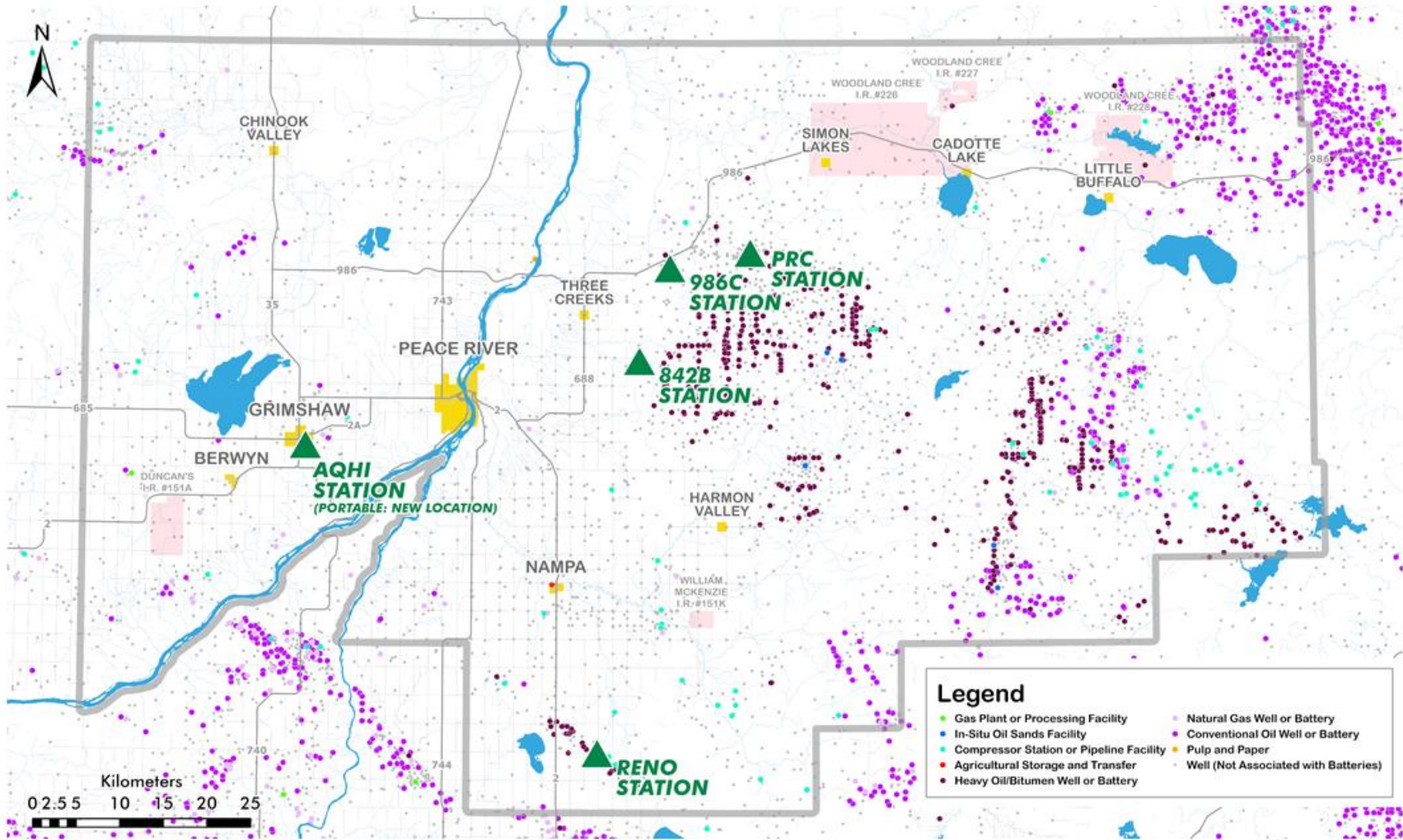
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all 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

September 16, 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 major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • A successful monthly calibration was performed on August 4. • The analyzer failed the daily zero-span check on August 22. A repeat zero-span check was completed on August 22 hour 6. The check results were within the acceptable limit. One hour of downtime were recorded due to this event. • The analyzer failed on August 28 due to a firmware crash. The analyzer was reset following by a successful zero-span check on August 29. Twenty-two hours of downtime were recorded due to this event. 		
TRS	Thermo / 43iQTL	1191833341
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • Following a successful shut-down calibration on August 4, maintenance was performed on scrubber beads. A post-repair calibration was completed afterwards. Three hours of downtime were recorded due to this maintenance activity. 		
THC/CH4/NMHC	Thermo / 55i	1433563261
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • The analyzer failed due to a sample pump failure on August 4 hour 20. The pump was replaced, and a successful post-repair calibration was completed on August 5. Sixteen hours of downtime were recorded due to the instrument failure and the additional quality check. 		
Relative Humidity (RH)	Rotronic / HC2-S3	20357528
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • The RH sensor was checked on August 5. The sensor passed the check requirements. 		

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	MetOne / 092	Y23358	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • The BP sensor was checked on August 5. The sensor passed the check requirements. 			
Ambient Temperature (AT)	Rotronic / HC2-S3	20357528	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • The AT sensor was checked on August 5. The sensor passed the check requirements. 			
Station Temperature (ST)	COMET	18961918	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. 			
Precipitation (Precip)	RM Young / 52202	TB 16325	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. • The precipitation gauge was checked on August 5. 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 August 5, 2022. • A major power outage occurred on July 29 hour 19. The power was restored on August 3 hour 19. Sixty-eight hours of downtime were recorded in August due to this event. 			

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	August 9 at hour 21	11.9	SE	0.2	August 26	87.8	83.2
TRS (ppb)	-	-	-	-	-	-	0.75	0.17	3.37	August 4 at hour 2	3.7	W	1.00	August 23	90.5	85.5
THC (ppm)	-	-	-	-	-	-	2.00	1.88	2.45	August 20 at hour 3	5.6	ESE	2.08	August 24	88.7	84.1
CH4 (ppm)	-	-	-	-	-	-	2.00	1.88	2.45	August 20 at hour 3	5.6	ESE	2.08	August 24	88.7	84.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	August 3 at hour 20	2.9	ESE	0.00	August 6	88.7	84.1
RH (%)	-	-	-	-	-	-	73.6	28	99	August 27 at hour 22	5.9	SW	96.0	August 4	90.9	90.9
BP (millibar)	-	-	-	-	-	-	942	929	950	August 17 at hour 8	9.6	SSW	949	August 17	90.9	90.9
Ext. Temp. (°C)	-	-	-	-	-	-	17.8	5.6	29.6	August 19 at hour 16	0.9	NNE	22.0	August 19	90.9	90.9
Stn. Temp. (°C)	-	-	-	-	-	-	23.5	22.7	24.7	August 4 at hour 9	14.3	N	24.0	August 4	90.9	90.9
Precipitation (mm)*	-	-	-	-	-	-	17.1	0.0	3.3	August 4 at hour 9	14.3	N	13.0	August 4	90.9	90.9
WSV (km/hr)	-	-	-	-	-	-	3.3	0.2	30.3	August 13 at hour 20	30.3	SW	14.1	August 6	90.9	90.6
WDV (sector)	-	-	-	-	-	-	202 (SSW)	-	-	-	-	-	-	-	90.9	90.6

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 (AAAQs) 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 August 3. • No operational issues were identified this month. 		
TRS	Thermo 43iQTL	1200736630
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 3. • The analyzer failed the daily span check on August 10 and August 13 and started showing check unstable results on August 18. A repeat zero-span check was completed on August 11 hour 6, August 14 hour 6, August 23 hour 6 and August 24 hour 6. The analyzer passed the check requirements each time. Four hours of downtime were recorded due to the additional quality checks. • In order to correct the unstable span check result issue, a successful shut-down calibration was completed on August 25 before scrubber material renewal. The analyzer was left offline overnight to stabilize. A successful post-repair calibration was completed on August 26. Twenty hours of downtime were recorded due to this event. 		
THC/CH4/NMHC	Thermo / 55i	1501663728 / 1193585652
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 3. Extended calibration time was recorded as multiple calibrations were attempted to obtain the acceptable multi-point data, which was caused by CH4 non-linear issues. • The span gas cylinder was replaced on August 9. An additional zero-span check was completed afterwards to retrieve a new expected span value. One hour of downtime was recorded due to this event. • Following a successful shut-down calibration on the Thermo 55i analyzer, s/n: 1501663728, on August 17, the analyzer was removed for maintenance. The Thermo 55i analyzer, s/n: 1193585652, was installed. The analyzer was put offline overnight to stabilize, and a successful installation calibration was completed on August 18. Twenty-four hours of downtime were recorded due to this event. • CH4 baseline shifted up after the analyzer, s/n: 1193585652, was installed. The analyzer had histories of recording higher than expected CH4 concentrations. Maintenance was completed and the analyzer passed the bench testing at the BV shop before it was redeployed to the field. The analyzer will be removed from the field in early September for further investigation. Data will be reviewed and may be revised after analyzer diagnostic results become available. 		

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	Rotronic / HC2A-S3	20370767	
<ul style="list-style-type: none"> The RH sensor was checked on August 3. 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 August 3. 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 August 3. The sensor passed the check requirements. No operational issues were identified this month. 			
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 August 3. 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 August 3, 2022. 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	August 1 at hour 0	5.4	E	0.0	August 1	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.94	0.36	5.10	August 27 at hour 20	0.6	S	2.40	August 27	96.8	92.0
THC (ppm)	-	-	-	-	-	-	2.03	1.80	2.56	August 23 at hour 4	2.6	NNE	2.29	August 23	96.6	91.6
CH4 (ppm)	-	-	-	-	-	-	2.02	1.80	2.56	August 23 at hour 4	2.6	NNE	2.29	August 23	96.6	91.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.23	August 19 at hour 18	1.2	NNW	0.03	August 19	96.6	91.6
RH (%)	-	-	-	-	-	-	75.5	27	101	August 12 at hour 8	4.3	ENE	99.3	August 4	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	928	949	August 17 at hour 7	6	S	948	August 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	18.1	6.8	29.5	August 19 at hour 15	0.4	SSW	22.5	August 19	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.5	20.7	23.7	August 2 at hour 5	8.3	N	23.2	August 4	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	60.7	0.0	5.3	August 4 at hour 9	8.7	NNW	30.4	August 4	100.0	99.7
WSV (km/hr)	-	-	-	-	-	-	2.8	0.2	27.1	August 30 at hour 14	27.1	W	11.5	August 6	100.0	99.7
WDV (sector)	-	-	-	-	-	-	220 (SW)	-	-	-	-	-	-	-	100.0	99.7

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 major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • A successful monthly calibration was performed on August 3. 			
TRS	Thermo 43iQTL	12101910504	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • A successful monthly calibration was performed on August 3. 			
THC/CH4/NMHC	Thermo / 55i	12101910497	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • A successful monthly calibration was performed on August 3. 			
Relative Humidity (RH)	Rotronic / HC2-S3	61116376	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • The RH sensor was checked on August 3. The sensor passed the check requirements. 			
Barometric Pressure (BP)	MetOne / 092	K12864	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • The BP sensor was checked on August 3. The sensor passed the check requirements. • Hourly data collected on August 13 hour 19 was invalidated, likely due to communication errors between the sensor to the translator. One hour of downtime was recorded as a result. 			

Parameter	Make / Model	Serial Number	
Ambient Temperature (AT)	Rotronic / HC2-S3	61116376	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • The AT sensor was checked on August 3. The sensor passed the check requirements. 			
Station Temperature (ST)	Bureau Veritas Canada	N/A	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. 			
Precipitation (Precip)	RM Young / 5202	TB15877	
<ul style="list-style-type: none"> • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. • The precipitation gauge was checked on August 3. The sensor passed the check requirements. 			
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 August 3, 2022. • A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. Forty-two hours of downtime were recorded in August due to this event. 			

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	August 10 at hour 12	3.4	SSW	0.3	August 26	94.4	89.5
TRS (ppb)	-	-	-	-	-	-	0.42	0.08	9.81	August 24 at hour 6	1.8	SSW	1.99	August 24	94.4	89.5
THC (ppm)	-	-	-	-	-	-	2.03	1.90	2.39	August 24 at hour 6	1.8	SSW	2.14	August 24	94.4	89.6
CH4 (ppm)	-	-	-	-	-	-	2.03	1.90	2.39	August 24 at hour 6	1.8	SSW	2.14	August 24	94.4	89.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	August 15 at hour 23	1	SSW	0.00	August 15	94.4	89.6
RH (%)	-	-	-	-	-	-	65.9	24	97	August 5 at hour 6	5.1	WSW	94.4	August 4	94.4	94.4
BP (millibar)	-	-	-	-	-	-	939	927	948	August 17 at hour 8	4.5	SW	946	August 17	94.2	94.2
Ext. Temp. (°C)	-	-	-	-	-	-	18.5	7.0	30.9	August 25 at hour 15	3.7	SSW	23.3	August 19	94.4	94.4
Stn. Temp. (°C)	-	-	-	-	-	-	22.4	20.4	24.0	August 3 at hour 1	1	SSE	23.0	August 4	94.4	94.4
Precipitation (mm)*	-	-	-	-	-	-	53.6	0.0	3.6	August 4 at hour 11	8	NW	35.9	August 4	94.4	94.4
WSV (km/hr)	-	-	-	-	-	-	2.1	0.0	19.6	August 30 at hour 15	19.6	WSW	7.4	August 30	94.4	94.1
WDV (sector)	-	-	-	-	-	-	237 (SW)	-	-	-	-	-	-	-	94.4	94.1

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 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"> • A successful monthly calibration was performed on August 16. • No operational issues were recorded this month. 			
H2S	Thermo 450i	1308857354	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 16. • No operational issues were recorded this month. 			
TRS	Thermo 450i	1034746224	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 16. • No operational issues were recorded this month. 			
THC/CH4/NMHC	Thermo / 55i	1022143392	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 16. • No operational issues were recorded this month. 			
Relative Humidity (RH)	Rotronic C2-S3	20558318	
<ul style="list-style-type: none"> • The RH sensor was checked on August 16. The sensor passed the check requirements. • No operational issues were recorded this month. 			
Ambient Temperature (AT)	Rotronic C2-S3	20558318	
<ul style="list-style-type: none"> • The AT sensor was checked on August 16. The sensor passed the check requirements. • No operational issues were recorded this month. 			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	MetOne 092	B19577	
<ul style="list-style-type: none"> The BP sensor was checked on August 16. The sensor passed the check requirements. During the July's monthly data review, it was noticed that no variations were shown in the data between July 1 hour 0 and August 1 hour 5. Data are not believed to be real readings and were discarded. Six hours of data collected in August was discarded due to this event. 			
Station Temperature (ST)	Canadian Natural	N/A	
<ul style="list-style-type: none"> No operational issues were recorded this month. 			
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 August 17, 2022. No operational issues were recorded this month. 			

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	5	August 2 at hour 13	3	SSW	0.3	August 26	100.0	94.9
H2S (ppb)	10	3	-	0	0	-	0.2	0	2	August 9 at hour 0	6.2	SSE	0.6	August 28	100.0	94.9
TRS (ppb)	-	-	-	-	-	-	0.2	0	2	August 4 at hour 3	6.8	WSW	0.7	August 16	100.0	94.9
THC (ppm)	-	-	-	-	-	-	2.02	1.88	2.41	August 20 at hour 7	4.2	WSW	2.12	August 23	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.02	1.88	2.41	August 20 at hour 7	4.2	WSW	2.12	August 23	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.08	August 26 at hour 21	6.8	W	0.00	August 26	100.0	95.0
RH (%)	-	-	-	-	-	-	69.9	26	100	August 5 at hour 4	3.3	WNW	95.9	August 4	100.0	100.0
BP (millibar)	-	-	-	-	-	-	942	929	951	August 17 at hour 9	C	C	949	August 17	99.2	99.2
Ext. Temp. (°C)	-	-	-	-	-	-	17.8	4.7	30.0	August 19 at hour 16	1.7	S	22.5	August 19	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	20.9	18.4	23.5	August 21 at hour 8	18	E	22.2	August 28	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	4.3	0.7	33.7	August 13 at hour 20	33.7	SW	16.6	August 30	100.0	99.7
WDV (sector)	-	-	-	-	-	-	209 (SSW)	-	-	-	-	-	-	-	100.0	99.7

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 August 9. • No operational issues were identified this month. 			
TRS	Teledyne / T100U	132	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 9. • No operational issues were identified this month. 			
NOx/NO/NO2	Teledyne / T200	837	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 10. • No operational issues were identified this month. 			
O3	Teledyne / T400	824	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 10. • No operational issues were identified this month. 			
THC/CH4/NMHC	Thermo / 55i	1191032505	
<ul style="list-style-type: none"> • Following a successful shut-down calibration on August 9, the sample pump was changed. The analyzer was left offline overnight to stabilize. A successful post-repair calibration was completed on August 10. Thirteen hours of downtime were recorded due to this event. • Both the carrier gas cylinder and the span gas cylinder were replaced on August 17. An additional zero-span check was completed afterwards to obtain a new expected span value. One hour of downtime was recorded due to this event. 			

Parameter	Make / Model	Serial Number	
PM2.5	Teledyne / T640	318	
<ul style="list-style-type: none"> • A successful monthly calibration was performed on August 10. • No operational issues were identified this month. 			
Relative Humidity (RH)	Vaisala / HMP155	N2910506	
<ul style="list-style-type: none"> • The RH sensor was checked on August 10. 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 BP sensor was checked on August 10. 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 AT sensor was checked on August 10. 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 last annual wind system calibration was completed on July 12, 2022. • The anemometer sensors were checked on August 10. The sensors 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	August 11 at hour 5	6.1	SW	0.1	August 11	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.46	0.14	2.66	August 14 at hour 22	1	ENE	0.83	August 21	100.0	95.0
NOx (ppb)	-	-	-	-	-	-	3.1	0	23	August 9 at hour 6	0.6	E	6.2	August 9	100.0	94.6
NO (ppb)	-	-	-	-	-	-	0.4	0	12	August 9 at hour 6	0.6	E	1.7	August 15	100.0	94.6
NO2 (ppb)	159	-	-	0	-	-	2.6	0	15	August 24 at hour 5	0.5	NE	5.4	August 24	100.0	94.6
O3 (ppb)	76	-	-	0	-	-	24.3	3	53	August 25 at hour 13	9.2	SSE	36.0	August 25	100.0	94.9
THC (ppm)	-	-	-	-	-	-	2.00	1.91	4.32	August 23 at hour 22	2.8	NNW	2.20	August 23	98.1	92.7
CH4 (ppm)	-	-	-	-	-	-	1.99	1.91	2.34	August 20 at hour 1	7	NW	2.06	August 25	98.1	92.7
NMHC (ppm)	-	-	-	-	-	-	0.01	0.00	2.24	August 23 at hour 22	2.8	NNW	0.18	August 23	98.1	92.7
PM2.5 (µg/m3)	80	30	-	0	0	-	8.4	1.0	49.0	August 23 at hour 21	1.2	NNE	22.8	August 22	100.0	99.9
RH (%)	-	-	-	-	-	-	64.0	21	97	August 14 at hour 0	3.2	S	92.0	August 4	100.0	100.0
BP (millibar)	-	-	-	-	-	-	941	929	950	August 17 at hour 7	4.9	S	949	August 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	18.9	8.4	30.8	August 19 at hour 16	3.8	ENE	23.2	August 19	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.1	20.8	25.8	August 10 at hour 18	5.7	SSE	22.9	August 10	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	8.4	0.1	31.4	August 30 at hour 14	31.4	WSW	15.1	August 7	100.0	100.0
WDV (sector)	-	-	-	-	-	-	271 (W)	-	-	-	-	-	-	-	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

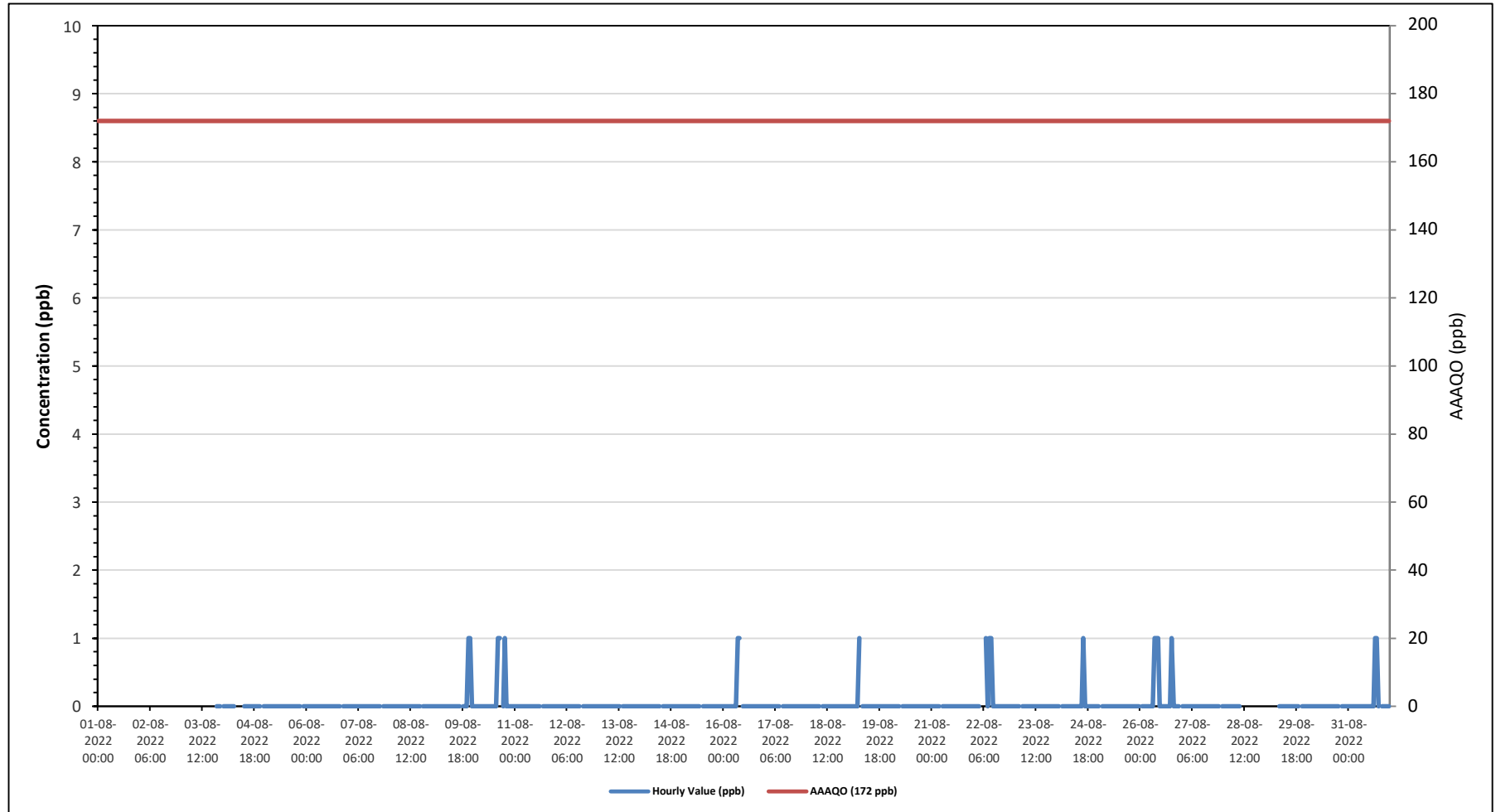
986c Station - August 2022

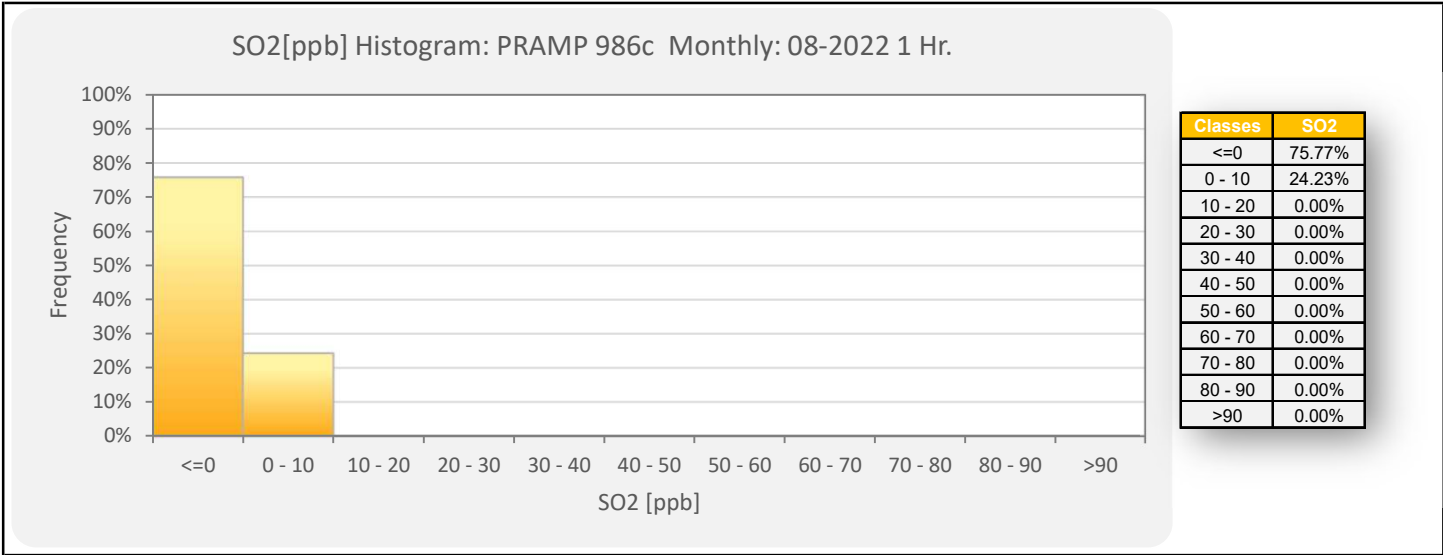
Summary of Hourly Averages

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 August 9 at hour 21					Hours in Service: 744																										
Maximum Daily Value: 0.2 ppb on August 26					Hours of Data: 619																										
Minimum Hourly Value: 0 ppb on August 3 at hour 20					Hours of Missing Data: 91																										
Minimum Daily Value: 0.0 ppb on August 4					Hours of Calibration: 34																										
Monthly Average: 0.0 ppb					Operational Uptime: 87.8																										
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							
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-				
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-				
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0				
Aug 4	0	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				
Aug 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				
Aug 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				
Aug 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				
Aug 8	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				
Aug 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	1	0	0	1				
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	1				
Aug 11	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				
Aug 12	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				
Aug 13	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				
Aug 14	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				
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Aug 16	0	0	0	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
Aug 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				
Aug 18	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				
Aug 19	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
Aug 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				
Aug 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				
Aug 22	0	0	0	0	0	S	0	NRM	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
Aug 23	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				
Aug 24	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1				
Aug 25	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				
Aug 26	S	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1				
Aug 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				
Aug 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				
Aug 29	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0				
Aug 30	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				
Aug 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	S	0	0	0	0	0	0	1				
Diurnal Maximum	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0				
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	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				
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.																															

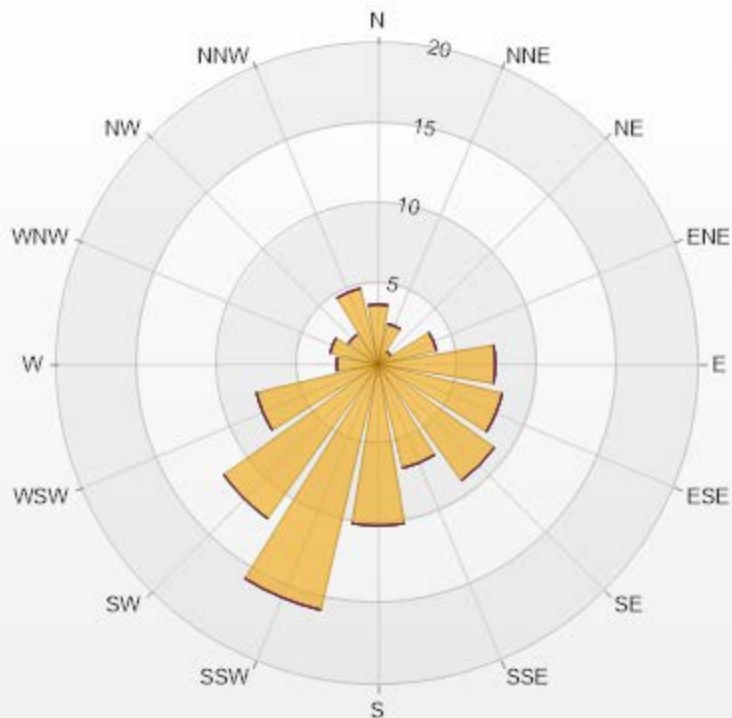
Timeseries Chart of Hourly Average for SO2 - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 82.93% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	3.73	0	0	0	0	3.73
NNE	2.59	0	0	0	0	2.59
NE	0.97	0	0	0	0	0.97
ENE	3.73	0	0	0	0	3.73
E	7.29	0	0	0	0	7.29
ESE	7.94	0	0	0	0	7.94
SE	8.91	0	0	0	0	8.91
SSE	6.65	0	0	0	0	6.65
S	10.05	0	0	0	0	10.05
SSW	15.72	0	0	0	0	15.72
SW	11.83	0	0	0	0	11.83
WSW	7.78	0	0	0	0	7.78
W	2.59	0	0	0	0	2.59
WNW	3.08	0	0	0	0	3.08
NW	2.27	0	0	0	0	2.27
NNW	4.86	0	0	0	0	4.86
Summary	100	0	0	0	0	100



PRAMP-202208

% 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 - August 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

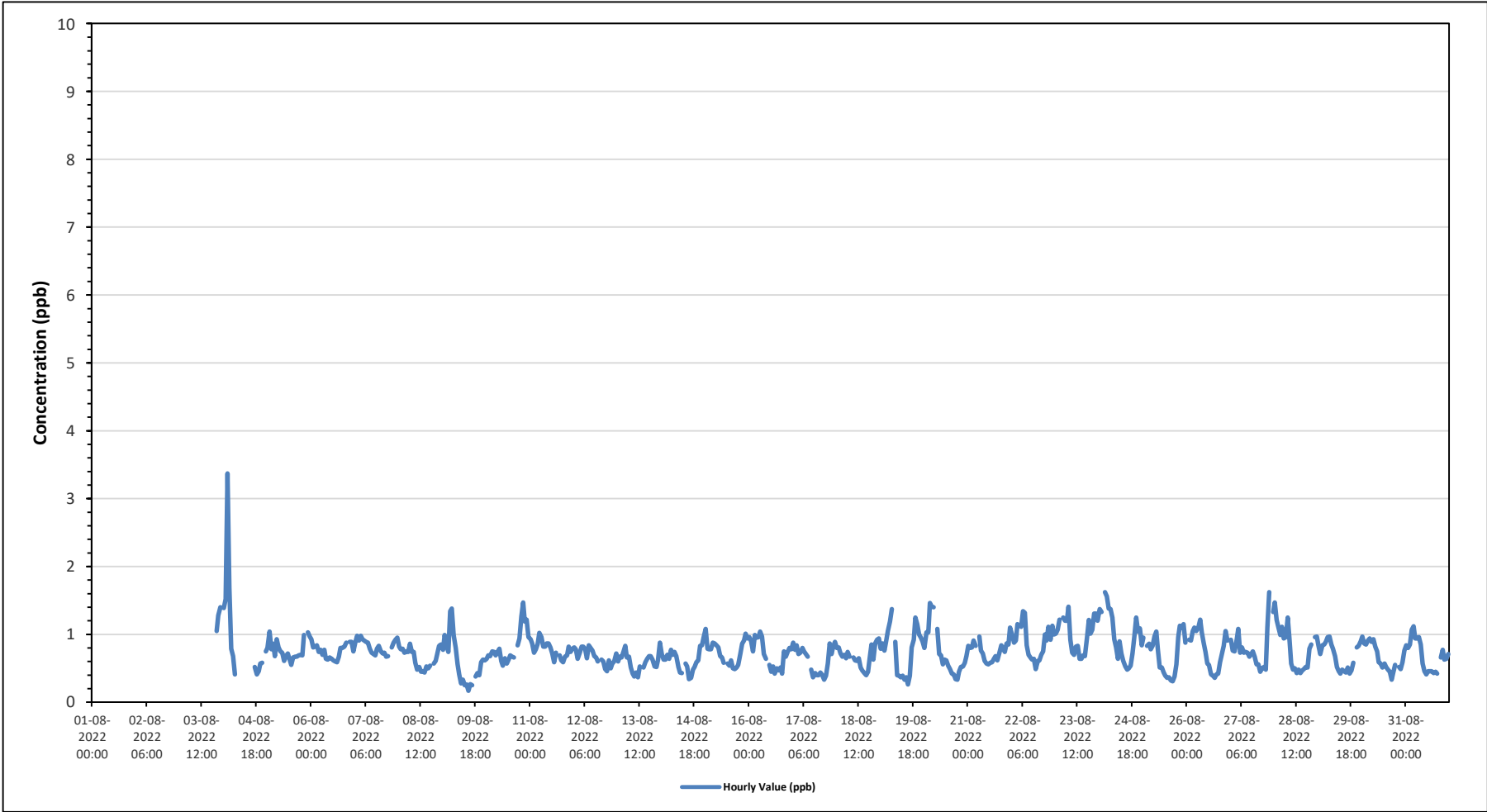
Maximum Hourly Value:	3.37 ppb on August 4 at hour 2	Hours in Service:	744
Maximum Daily Value:	1.00 ppb on August 23	Hours of Data:	636
Minimum Hourly Value:	0.17 ppb on August 9 at hour 14	Hours of Missing Data:	71
Minimum Daily Value:	0.59 ppb on August 9	Hours of Calibration:	37
Monthly Average:	0.75 ppb	Operational Uptime:	90.5

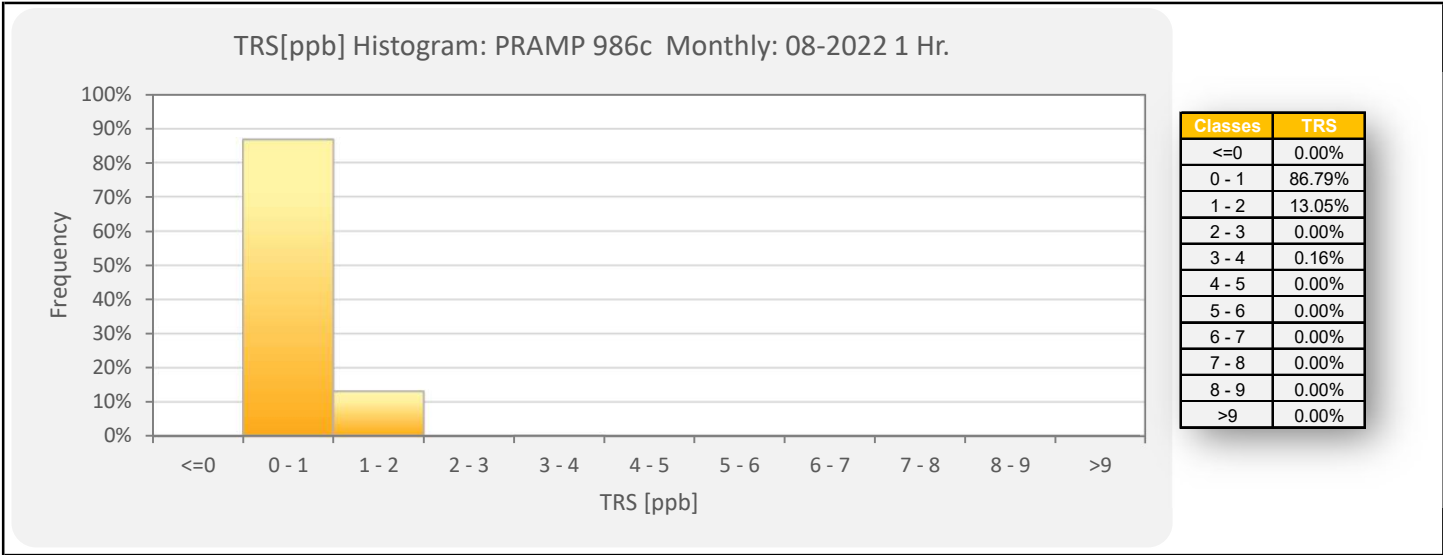
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23			
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-				
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-		
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.05	1.28	1.4	S	1.05	1.40	-
Aug 4	1.39	1.52	3.37	1.68	0.79	0.68	0.41	C	C	C	NRM	NRM	NRM	C	C	C	C	0.52	0.41	0.46	0.57	0.58	S	0.75	0.41	3.37	-	-	-	
Aug 5	0.8	1.04	0.78	0.86	0.68	0.93	0.81	0.75	0.73	0.61	0.68	0.72	0.64	0.55	0.66	0.67	0.67	0.69	0.7	0.69	0.99	S	1.03	0.97	0.55	1.04	0.77	-	-	-
Aug 6	0.93	0.81	0.82	0.84	0.74	0.77	0.7	0.77	0.64	0.63	0.66	0.64	0.62	0.6	0.59	0.67	0.8	0.8	0.82	0.88	S	0.89	0.89	0.75	0.59	0.93	0.75	-	-	-
Aug 7	0.88	0.98	0.91	0.98	0.93	0.91	0.89	0.88	0.79	0.73	0.71	0.69	0.79	0.83	0.75	0.72	0.73	0.67	0.68	S	0.81	0.88	0.92	0.95	0.67	0.98	0.83	-	-	-
Aug 8	0.82	0.78	0.79	0.73	0.75	0.74	0.86	0.74	0.74	0.58	0.48	0.52	0.45	0.46	0.44	0.53	0.5	0.54	S	0.57	0.61	0.71	0.83	0.85	0.44	0.86	0.65	-	-	-
Aug 9	0.77	0.99	0.84	0.74	1.34	1.38	0.99	0.8	0.56	0.41	0.28	0.33	0.25	0.26	0.17	0.27	0.25	S	0.38	0.43	0.4	0.59	0.63	0.62	0.17	1.38	0.59	-	-	-
Aug 10	0.64	0.69	0.68	0.75	0.74	0.69	0.74	0.79	0.61	0.54	0.65	0.57	0.63	0.69	0.67	0.66	S	0.84	0.94	1.26	1.47	1.19	1.22	0.96	0.54	1.47	0.81	-	-	-
Aug 11	0.93	0.87	0.73	0.78	0.86	1.02	0.96	0.82	0.82	0.87	0.87	0.81	0.72	0.59	0.73	S	0.69	0.62	0.59	0.67	0.69	0.82	0.74	0.79	0.59	1.02	0.78	-	-	-
Aug 12	0.81	0.78	0.64	0.73	0.82	0.82	0.79	0.65	0.84	0.8	0.76	0.68	0.66	0.6	S	0.63	0.6	0.49	0.46	0.62	0.5	0.57	0.6	0.72	0.46	0.84	0.68	-	-	-
Aug 13	0.6	0.67	0.66	0.74	0.83	0.66	0.67	0.51	0.42	0.38	0.44	0.37	0.53	S	0.51	0.59	0.64	0.68	0.68	0.63	0.53	0.52	0.63	0.88	0.37	0.88	0.60	-	-	-
Aug 14	0.71	0.63	0.63	0.7	0.64	0.77	0.7	0.74	0.68	0.52	0.44	0.43	S	0.57	0.53	0.34	0.36	0.48	0.52	0.59	0.62	0.83	0.84	0.97	0.34	0.97	0.62	-	-	-
Aug 15	1.08	0.79	0.78	0.78	0.88	0.87	0.84	0.81	0.68	0.66	0.58	S	0.57	0.54	0.62	0.5	0.49	0.51	0.55	0.71	0.86	0.91	1.01	0.94	0.49	1.08	0.74	-	-	-
Aug 16	0.96	0.9	0.75	0.99	0.95	0.96	1.04	0.97	0.71	0.64	S	0.55	0.45	0.53	0.42	0.5	0.47	0.51	0.42	0.75	0.67	0.74	0.8	0.78	0.42	1.04	0.72	-	-	-
Aug 17	0.88	0.77	0.84	0.71	0.73	0.8	0.75	0.71	0.67	S	0.48	0.37	0.43	0.4	0.4	0.44	0.4	0.33	0.39	0.57	0.87	0.71	0.82	0.89	0.33	0.89	0.62	-	-	-
Aug 18	0.8	0.81	0.72	0.67	0.7	0.65	0.74	0.67	S	0.66	0.62	0.61	0.65	0.51	0.47	0.43	0.4	0.45	0.64	0.85	0.63	0.87	0.92	0.94	0.40	0.94	0.67	-	-	-
Aug 19	0.79	0.87	0.76	0.89	1.05	1.19	1.37	S	0.89	0.4	0.39	0.37	0.39	0.33	0.37	0.26	0.39	0.81	0.92	1.25	1.15	1	0.95	0.9	0.26	1.37	0.77	-	-	-
Aug 20	0.8	1.03	1.03	1.46	1.41	1.4	S	1.08	0.71	0.69	0.56	0.63	0.62	0.54	0.49	0.42	0.41	0.34	0.33	0.45	0.52	0.53	0.58	0.68	0.33	1.46	0.73	-	-	-
Aug 21	0.83	0.8	0.81	0.91	0.83	S	0.97	0.76	0.72	0.61	0.57	0.56	0.58	0.59	0.64	0.68	0.62	0.72	0.84	0.79	0.74	0.87	0.85	1.1	0.56	1.10	0.76	-	-	-
Aug 22	0.99	0.88	0.91	1.15	S	1.11	1.34	1.32	0.84	0.7	0.66	0.63	0.64	0.49	0.61	0.62	0.7	0.75	1	0.91	1.11	0.92	1.13	1	0.49	1.34	0.89	-	-	-
Aug 23	1.01	1.07	1.22	S	1.25	1.2	1.2	1.41	0.92	0.73	0.7	0.82	0.83	0.64	0.64	0.69	0.68	0.95	1.21	1.01	1.07	1.31	1.31	1.2	0.64	1.41	1.00	-	-	-
Aug 24	1.37	1.33	S	1.62	1.56	1.38	1.37	1.25	0.93	0.81	0.64	0.9	0.72	0.61	0.53	0.48	0.5	0.54	0.72	0.97	1.25	1.04	1.09	0.84	0.48	1.62	0.98	-	-	-
Aug 25	0.95	S	0.83	0.86	0.78	0.83	0.97	1.04	0.77	0.51	0.51	0.44	0.39	0.36	0.37	0.32	0.31	0.38	0.56	0.96	1.13	1.1	1.15	0.88	0.31	1.15	0.71	-	-	-
Aug 26	S	0.92	0.91	1.05	1.1	1.05	1.1	1.22	1.03	0.88	0.74	0.57	0.55	0.41	0.39	0.36	0.41	0.42	0.59	0.71	0.83	1.05	0.91	S	0.36	1.22	0.78	-	-	-
Aug 27	0.92	0.76	0.75	0.92	1.08	0.73	0.81	0.73	0.74	0.73	0.67	0.71	0.75	0.67	0.56	0.56	0.45	0.5	0.52	0.48	1.1	1.62	S	1.33	0.45	1.62	0.79	-	-	-
Aug 28	1.47	1.21	1.1	0.99	1.11	0.94	0.96	1.25	0.96	0.57	0.48	0.5	0.43	0.48	0.43	0.47	0.49	0.52	0.51	0.79	0.85	S	0.96	0.97	0.43	1.47	0.80	-	-	-
Aug 29	0.84	0.71	0.84	0.85	0.89	0.96	0.97	0.85	0.79	0.68	0.52	0.46	0.42	0.48	0.46	0.44	0.51	0.42	0.47	0.58	S	0.81	0.83	0.9	0.42	0.97	0.68	-	-	-
Aug 30	0.97	0.87	0.85	0.91	0.94	0.89	0.93	0.82	0.75	0.59	0.57	0.51	0.57	0.52	0.48	0.45	0.33	0.44	0.55	S	0.52	0.49	0.59	0.76	0.33	0.97	0.67	-	-	-
Aug 31	0.84	0.8	0.85	1.07	1.12	0.94	0.94	0.96	0.85	0.57	0.46	0.41	0.46	0.46	0.46	0.43	0.45	0.42	S	0.66	0.77	0.63	0.64	0.71	0.41	1.12	0.69	-	-	-
Diurnal Maximum	1.47	1.52	3.37	1.68	1.56	1.40	1.37	1.41	1.03	0.88	0.87	0.90	0.83	0.83	0.75	0.72	0.80	0.95	1.21	1.26	1.47	1.62	1.40	1.33	-	-	-	-	-	-
Diurnal Average	0.92	0.90	0.92	0.94	0.94	0.94	0.92	0.90	0.76	0.63	0.58	0.57	0.57	0.53	0.52	0.51	0.51	0.57	0.63	0.74	0.83	0.87	0.90	0.89	-	-	-	-	-	-

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.

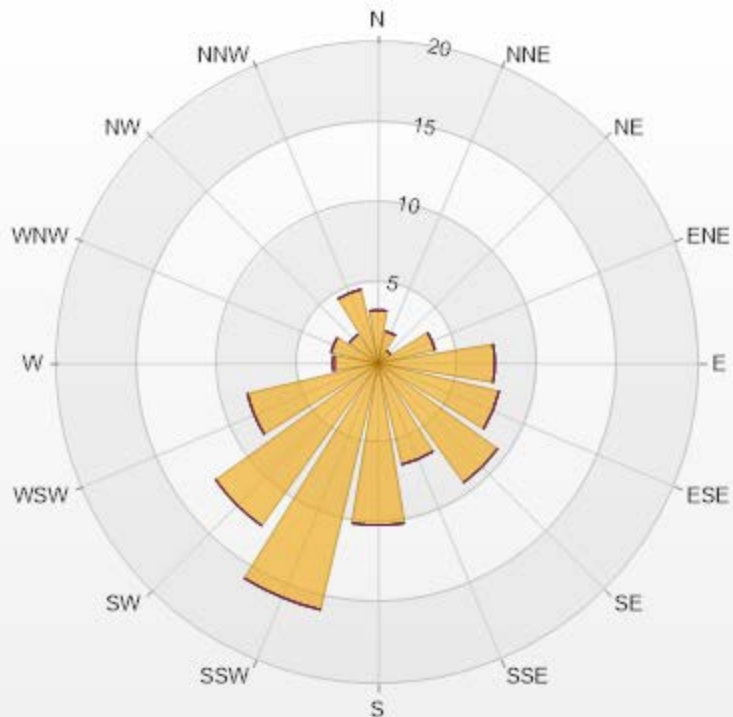
Timeseries Chart of Hourly Average for TRS - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 85.22% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.31	0	0	0	0	3.31
NNE	2.05	0	0	0	0	2.05
NE	0.95	0	0	0	0	0.95
ENE	3.63	0	0	0	0	3.63
E	7.26	0	0	0	0	7.26
ESE	7.73	0	0	0	0	7.73
SE	9.15	0	0	0	0	9.15
SSE	6.47	0	0	0	0	6.47
S	10.09	0	0	0	0	10.09
SSW	15.77	0	0	0	0	15.77
SW	12.46	0	0	0	0	12.46
WSW	8.36	0	0	0	0	8.36
W	2.68	0.16	0	0	0	2.84
WNW	3	0	0	0	0	3
NW	2.21	0	0	0	0	2.21
NNW	4.73	0	0	0	0	4.73
Summary	100	0.16	0	0	0	100



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% 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 - August 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

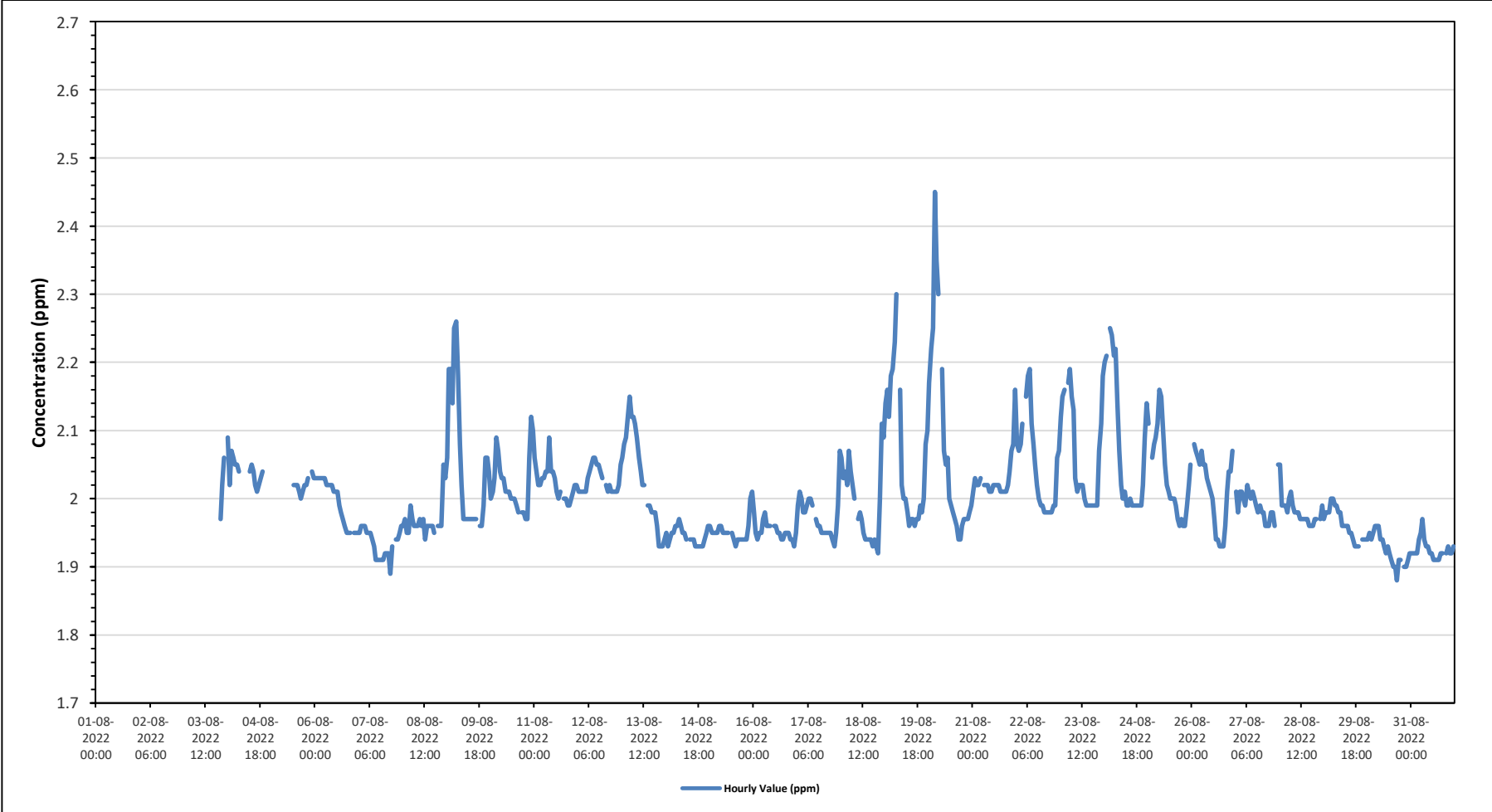
Maximum Hourly Value:	2.45 ppm on August 20 at hour 3	Hours in Service:	744
Maximum Daily Value:	2.08 ppm on August 24	Hours of Data:	626
Minimum Hourly Value:	1.88 ppm on August 30 at hour 16	Hours of Missing Data:	84
Minimum Daily Value:	1.93 ppm on August 30	Hours of Calibration:	34
Monthly Average:	2.00 ppm	Operational Uptime:	88.7

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.97	2.02	2.06	S
Aug 4	2.09	2.02	2.07	2.06	2.05	2.05	2.04	C	C	C	C	C	2.04	2.05	2.04	2.02	2.01	2.02	2.03	2.04	X	X	X	X	2.01	2.09	-
Aug 5	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	2.02	2.02	2.02	2.01	2.00	2.01	2.02	2.03	S	2.04	2.03	2.00	2.04	-	
Aug 6	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	1.99	1.98	1.97	1.96	1.95	1.95	1.95	S	1.95	1.95	1.95	1.95	2.00	
Aug 7	1.95	1.96	1.96	1.96	1.95	1.95	1.95	1.94	1.93	1.91	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.89	1.93	S	1.94	1.94	1.95	1.96	1.93		
Aug 8	1.96	1.97	1.95	1.95	1.99	1.97	1.96	1.96	1.96	1.97	1.96	1.97	1.94	1.96	1.96	1.96	1.95	S	S	1.96	1.96	1.96	2.05	2.03	1.94		
Aug 9	2.06	2.19	2.19	2.14	2.25	2.26	2.18	2.08	2.02	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.96	1.96	1.99	2.06	2.06	2.04	2.05		
Aug 10	2.00	2.01	2.03	2.09	2.07	2.04	2.03	2.03	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.98	S	1.98	1.98	1.97	1.97	2.06	2.12	2.10	2.02		
Aug 11	2.06	2.04	2.02	2.02	2.03	2.03	2.04	2.04	2.09	2.04	2.04	2.03	2.01	2.00	2.01	S	2.00	2.00	1.99	1.99	2.00	2.01	2.02	2.02	2.02		
Aug 12	2.01	2.01	2.01	2.01	2.01	2.03	2.04	2.05	2.06	2.06	2.05	2.05	2.04	2.03	S	2.02	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.05	2.03	
Aug 13	2.06	2.08	2.09	2.12	2.15	2.12	2.12	2.11	2.09	2.06	2.04	2.02	2.02	S	1.99	1.99	1.98	1.98	1.98	1.96	1.93	1.93	1.93	1.94	1.94	2.03	
Aug 14	1.95	1.93	1.94	1.95	1.95	1.96	1.96	1.97	1.96	1.95	1.95	1.95	1.94	S	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.95	1.96	1.94		
Aug 15	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.95	1.95	1.95	1.95	S	1.95	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.96	2.00	2.01	1.95		
Aug 16	1.98	1.95	1.94	1.95	1.95	1.97	1.98	1.96	1.96	1.96	S	1.96	1.96	1.95	1.95	1.94	1.94	1.95	1.95	1.95	1.94	1.94	1.93	1.95	1.93		
Aug 17	1.99	2.01	2.00	1.98	1.98	1.99	2.00	2.00	1.99	S	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.93	1.95	1.99	2.07	1.93		
Aug 18	2.06	2.03	2.04	2.02	2.07	2.04	2.02	2.00	S	1.97	1.98	1.97	1.95	1.94	1.94	1.94	1.94	1.93	1.94	1.93	1.92	2.00	2.11	2.09	1.92		
Aug 19	2.14	2.16	2.12	2.18	2.19	2.23	2.30	S	2.16	2.02	2.00	2.00	1.98	1.96	1.97	1.97	1.96	1.97	1.97	1.99	1.98	2.00	2.08	2.10	2.06		
Aug 20	2.17	2.22	2.25	2.45	2.35	2.30	S	2.19	2.07	2.05	2.06	2.00	1.99	1.98	1.97	1.96	1.94	1.94	1.96	1.97	1.97	1.97	1.98	1.99	2.08		
Aug 21	2.01	2.03	2.02	2.02	2.03	S	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.02	2.04	2.07	2.08	2.16	2.03		
Aug 22	2.08	2.07	2.08	2.11	S	2.15	2.18	2.19	2.11	2.08	2.05	2.02	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.06	2.07	2.05		
Aug 23	2.12	2.15	2.16	S	2.17	2.19	2.15	2.13	2.03	2.01	2.02	2.02	2.02	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.07	2.11	2.18	2.06		
Aug 24	2.20	2.21	S	2.25	2.24	2.21	2.22	2.14	2.07	2.02	2.00	2.01	1.99	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.09	2.14	2.19	2.08		
Aug 25	2.11	S	2.06	2.08	2.09	2.11	2.16	2.15	2.10	2.05	2.02	2.01	2.00	2.00	2.00	1.99	1.97	1.96	1.97	1.96	1.96	1.99	2.02	2.05	2.04		
Aug 26	S	2.08	2.07	2.06	2.05	2.07	2.05	2.05	2.03	2.02	2.01	2.00	1.97	1.94	1.94	1.93	1.93	1.93	1.96	2.01	2.04	2.04	2.07	S	2.01		
Aug 27	2.01	1.98	2.01	2.01	2.00	1.99	2.02	2.01	2.00	2.01	2.00	1.99	1.98	1.99	1.98	1.98	1.96	1.96	1.96	1.98	1.98	1.96	S	2.05	1.99		
Aug 28	2.05	1.99	1.99	1.99	1.98	2.00	2.01	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	S	1.97	1.99	1.98		
Aug 29	1.97	1.98	1.98	1.98	2.00	2.00	1.99	1.99	1.98	1.98	1.96	1.96	1.96	1.96	1.95	1.95	1.94	1.93	1.93	1.93	S	1.94	1.94	1.94	1.96		
Aug 30	1.94	1.95	1.94	1.95	1.96	1.96	1.96	1.94	1.94	1.93	1.92	1.93	1.92	1.91	1.90	1.88	1.91	1.91	S	1.90	1.90	1.91	1.92	1.92	1.93		
Aug 31	1.92	1.92	1.92	1.92	1.94	1.95	1.97	1.94	1.93	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.92	1.92	S	1.92	1.92	1.92	1.92	1.93	1.93		
Diurnal Maximum	2.20	2.22	2.25	2.45	2.35	2.30	2.30	2.19	2.16	2.08	2.06	2.05	2.04	2.05	2.04	2.02	2.01	2.02	2.03	2.04	2.04	2.07	2.12	2.18	2.18		
Diurnal Average	2.03	2.04	2.03	2.05	2.06	2.06	2.05	2.03	2.02	2.00	1.99	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.98	2.02	2.03	2.03		

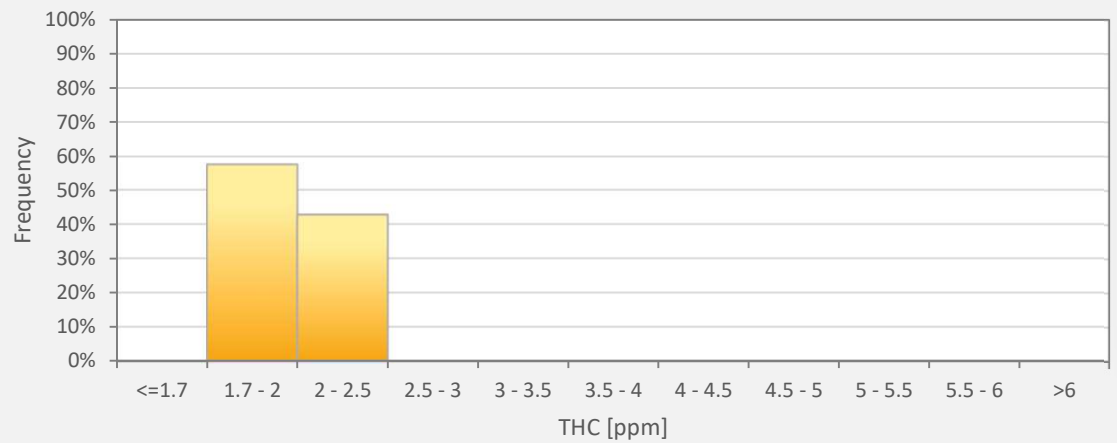
C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

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 - 986c Station



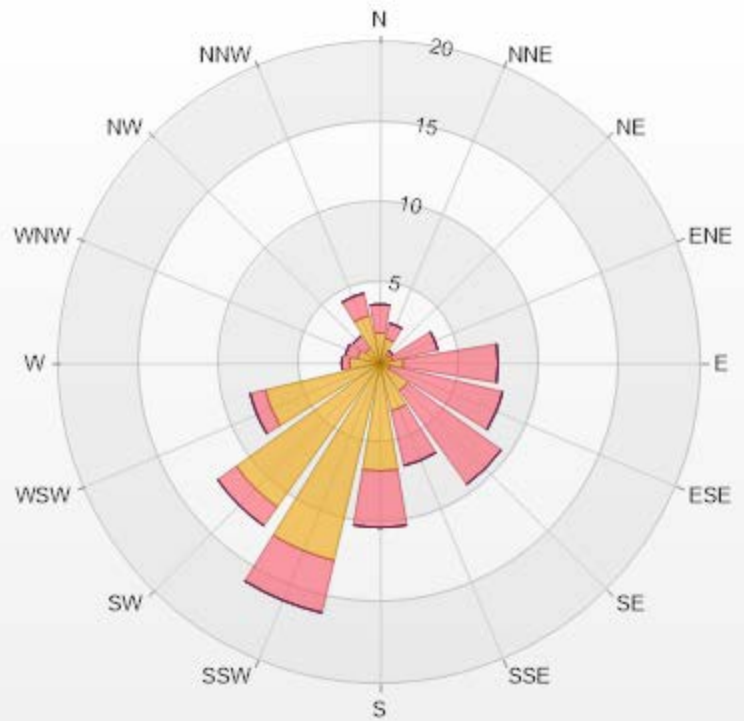
THC55[ppm] Histogram: PRAMP 986c Monthly: 08-2022 1 Hr.



Classes	THC55
<=1.7	0.00%
1.7 - 2	57.35%
2 - 2.5	42.65%
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: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 84.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.92	1.76	0	0	0	3.68
NNE	1.6	0.96	0	0	0	2.56
NE	0.64	0.32	0	0	0	0.96
ENE	0.8	2.88	0	0	0	3.68
E	1.44	5.91	0	0	0	7.35
ESE	0.64	7.19	0	0	0	7.83
SE	2.08	7.19	0	0	0	9.27
SSE	3.04	3.51	0	0	0	6.55
S	6.71	3.51	0	0	0	10.22
SSW	12.62	3.35	0	0	0	15.97
SW	11.02	1.44	0	0	0	12.46
WSW	7.35	0.96	0	0	0	8.31
W	1.92	0.48	0	0	0	2.4
WNW	1.44	0.8	0	0	0	2.24
NW	1.12	0.96	0	0	0	2.08
NNW	3.04	1.44	0	0	0	4.48
Summary	57.38	42.66	0	0	0	100



PRAMP-202208

% Icon Classes (ppm)	57	0-2	43	2-5	0	5-10	0	10-40	0	>40.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

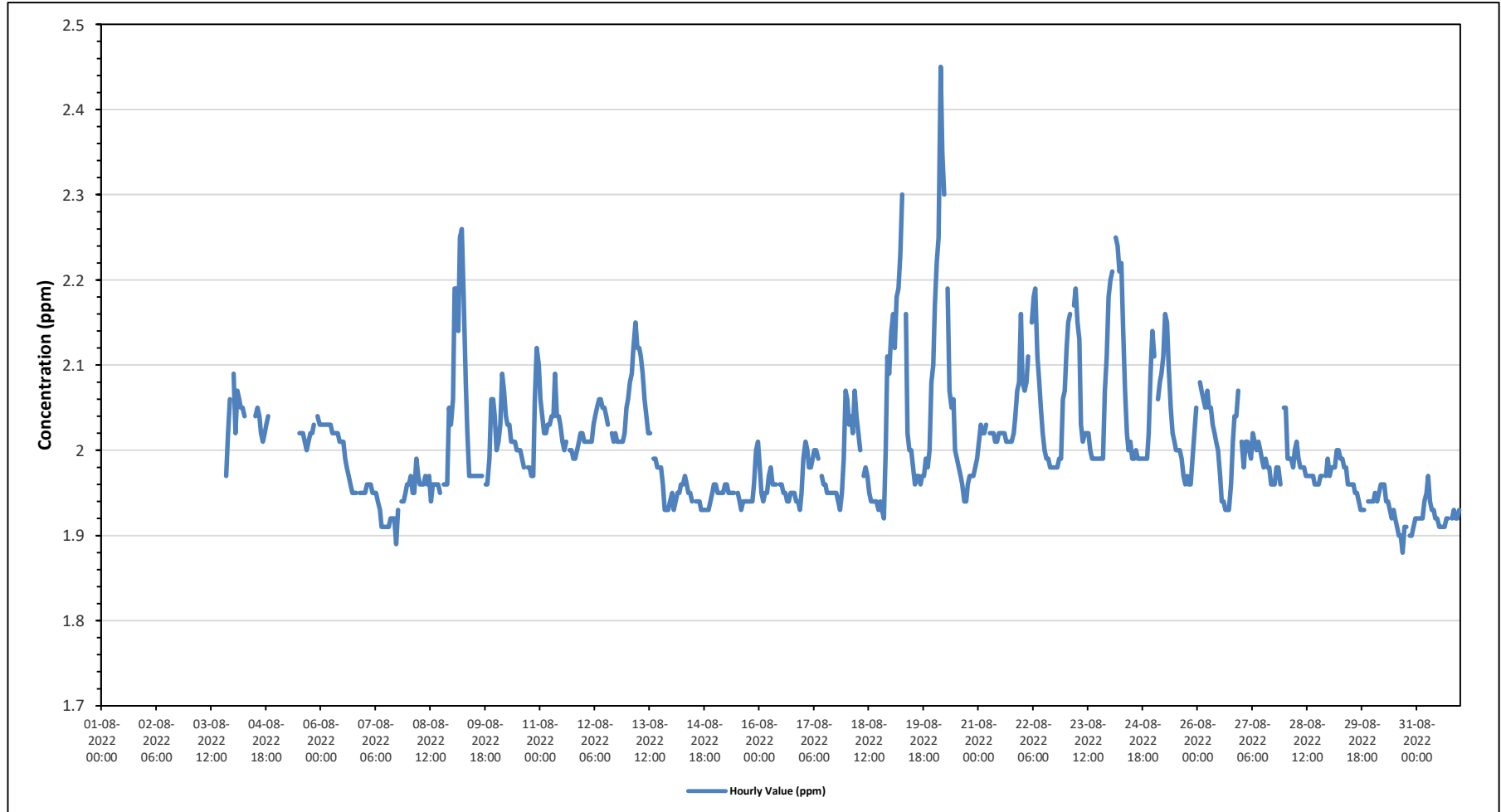
Maximum Hourly Value:	2.45 ppm on August 20 at hour 3	Hours in Service:	744
Maximum Daily Value:	2.08 ppm on August 24	Hours of Data:	626
Minimum Hourly Value:	1.88 ppm on August 30 at hour 16	Hours of Missing Data:	84
Minimum Daily Value:	1.93 ppm on August 30	Hours of Calibration:	34
Monthly Average:	2.00 ppm	Operational Uptime:	88.7

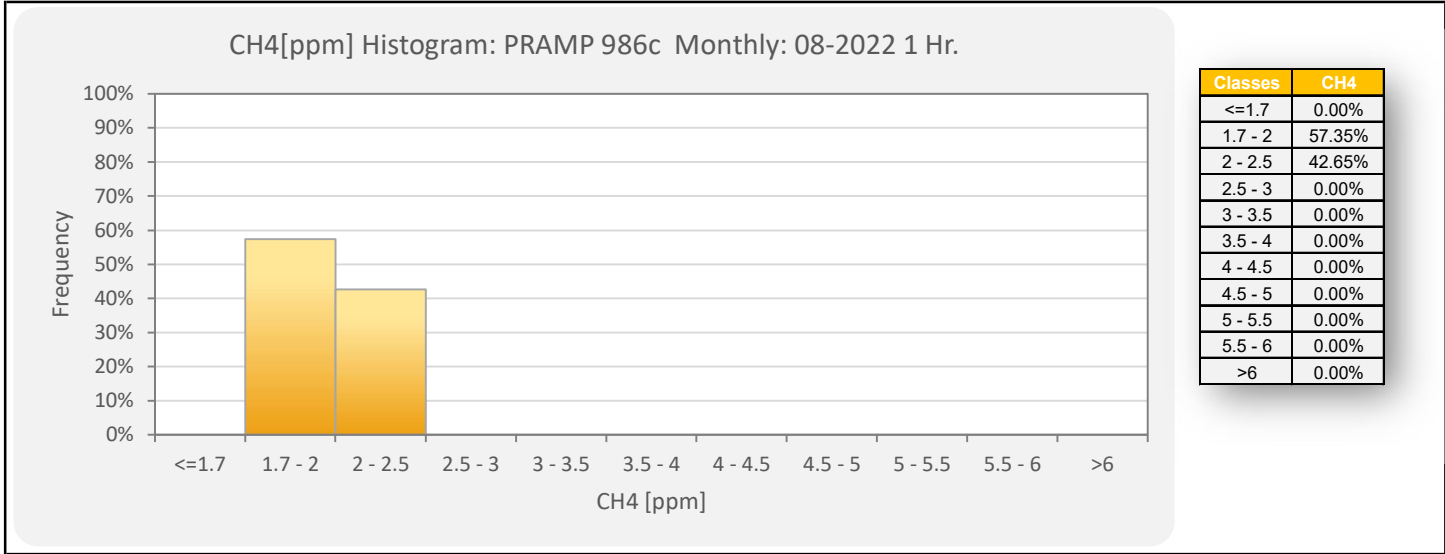
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.97	2.02	2.06	S
Aug 4	2.09	2.02	2.07	2.06	2.05	2.05	2.04	C	C	C	C	C	2.04	2.05	2.04	2.02	2.01	2.02	2.03	2.04	X	X	X	X	2.01	2.09	-	
Aug 5	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	2.02	2.02	2.02	2.01	2.00	2.01	2.02	2.03	S	S	2.04	2.03	2.00	2.04	-	
Aug 6	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	1.99	1.98	1.97	1.96	1.95	1.95	1.95	S	S	1.95	1.95	1.95	1.95	2.00	
Aug 7	1.95	1.96	1.96	1.96	1.95	1.95	1.95	1.94	1.93	1.91	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.89	1.93	S	S	1.94	1.94	1.95	1.96	1.93		
Aug 8	1.96	1.97	1.95	1.95	1.99	1.97	1.96	1.96	1.96	1.97	1.96	1.97	1.94	1.96	1.96	1.96	1.95	S	S	1.96	1.96	1.96	1.96	2.05	2.03	1.94		
Aug 9	2.06	2.19	2.19	2.14	2.25	2.26	2.18	2.08	2.02	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	S	1.96	1.96	1.99	2.06	2.06	2.04	2.05		
Aug 10	2.00	2.01	2.03	2.09	2.07	2.04	2.03	2.03	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.98	S	S	1.98	1.98	1.97	1.97	2.06	2.12	2.10	2.02		
Aug 11	2.06	2.04	2.02	2.02	2.03	2.03	2.04	2.04	2.09	2.04	2.04	2.03	2.01	2.00	2.01	S	S	2.00	2.00	1.99	1.99	2.00	2.01	2.02	2.02	2.02		
Aug 12	2.01	2.01	2.01	2.01	2.01	2.03	2.04	2.05	2.06	2.06	2.05	2.05	2.04	2.03	S	S	2.02	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.05	2.03		
Aug 13	2.06	2.08	2.09	2.12	2.15	2.12	2.12	2.11	2.09	2.06	2.04	2.02	2.02	S	S	1.99	1.99	1.98	1.98	1.98	1.96	1.93	1.93	1.93	1.94	1.93		
Aug 14	1.95	1.93	1.94	1.95	1.95	1.96	1.96	1.97	1.96	1.95	1.95	1.95	1.94	S	S	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.95	1.96	1.93	1.94		
Aug 15	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.95	1.95	1.95	1.95	S	S	1.95	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.96	2.00	2.01	1.95		
Aug 16	1.98	1.95	1.94	1.95	1.95	1.97	1.98	1.96	1.96	1.96	S	S	1.96	1.96	1.95	1.95	1.94	1.94	1.95	1.95	1.95	1.94	1.94	1.93	1.95	1.93		
Aug 17	1.99	2.01	2.00	1.98	1.98	1.99	2.00	2.00	1.99	S	S	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.93	1.95	1.99	2.07	1.97		
Aug 18	2.06	2.03	2.04	2.02	2.07	2.04	2.02	2.00	S	S	1.97	1.98	1.97	1.95	1.94	1.94	1.94	1.93	1.94	1.93	1.92	2.00	2.11	2.09	1.92	1.99		
Aug 19	2.14	2.16	2.12	2.18	2.19	2.23	2.30	S	S	2.16	2.02	2.00	2.00	1.98	1.96	1.97	1.97	1.96	1.97	1.97	1.99	1.98	2.00	2.08	2.10	2.06		
Aug 20	2.17	2.22	2.25	2.45	2.35	2.30	S	S	2.19	2.07	2.05	2.06	2.00	1.99	1.98	1.97	1.96	1.94	1.94	1.96	1.97	1.97	1.97	1.98	1.99	2.08		
Aug 21	2.01	2.03	2.02	2.02	2.03	S	S	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.02	2.04	2.07	2.08	2.16	2.03		
Aug 22	2.08	2.07	2.08	2.11	S	S	2.15	2.18	2.19	2.11	2.08	2.05	2.02	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.06	2.07	2.05		
Aug 23	2.12	2.15	2.16	S	S	2.17	2.19	2.15	2.13	2.03	2.01	2.02	2.02	2.02	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.07	2.11	2.18	2.06		
Aug 24	2.20	2.21	S	S	2.25	2.24	2.21	2.22	2.14	2.07	2.02	2.00	2.01	1.99	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.02	2.09	2.14	2.08		
Aug 25	2.11	S	S	S	2.06	2.08	2.09	2.11	2.16	2.15	2.10	2.05	2.02	2.01	2.00	2.00	2.00	1.99	1.97	1.96	1.97	1.96	1.96	1.99	2.02	2.05		
Aug 26	S	S	S	S	2.08	2.07	2.06	2.05	2.07	2.05	2.05	2.03	2.02	2.01	2.00	1.97	1.94	1.94	1.93	1.93	1.93	1.96	2.01	2.04	2.07	2.01		
Aug 27	2.01	1.98	2.01	2.01	2.00	1.99	2.02	2.01	2.00	2.01	2.00	1.99	1.98	1.99	1.98	1.98	1.96	1.96	1.96	1.96	1.98	1.98	1.96	S	2.05	1.99		
Aug 28	2.05	1.99	1.99	1.99	1.98	2.00	2.01	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	S	1.97	1.99	1.98		
Aug 29	1.97	1.98	1.98	1.98	2.00	2.00	1.99	1.99	1.98	1.98	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.94	1.93	1.93	1.93	S	1.94	1.94	1.94	1.96		
Aug 30	1.94	1.95	1.94	1.95	1.96	1.96	1.96	1.94	1.94	1.93	1.92	1.93	1.92	1.91	1.90	1.88	1.91	1.91	1.91	S	S	1.90	1.90	1.91	1.92	1.93		
Aug 31	1.92	1.92	1.92	1.92	1.94	1.95	1.97	1.94	1.93	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.92	1.92	S	S	1.92	1.92	1.92	1.92	1.93	1.93		
Diurnal Maximum	2.20	2.22	2.25	2.45	2.35	2.30	2.30	2.19	2.16	2.08	2.06	2.05	2.04	2.05	2.04	2.02	2.01	2.02	2.03	2.04	2.04	2.07	2.12	2.18	2.18	2.18		
Diurnal Average	2.03	2.04	2.03	2.05	2.06	2.06	2.05	2.03	2.02	2.00	1.99	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.98	2.02	2.03	2.03	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.

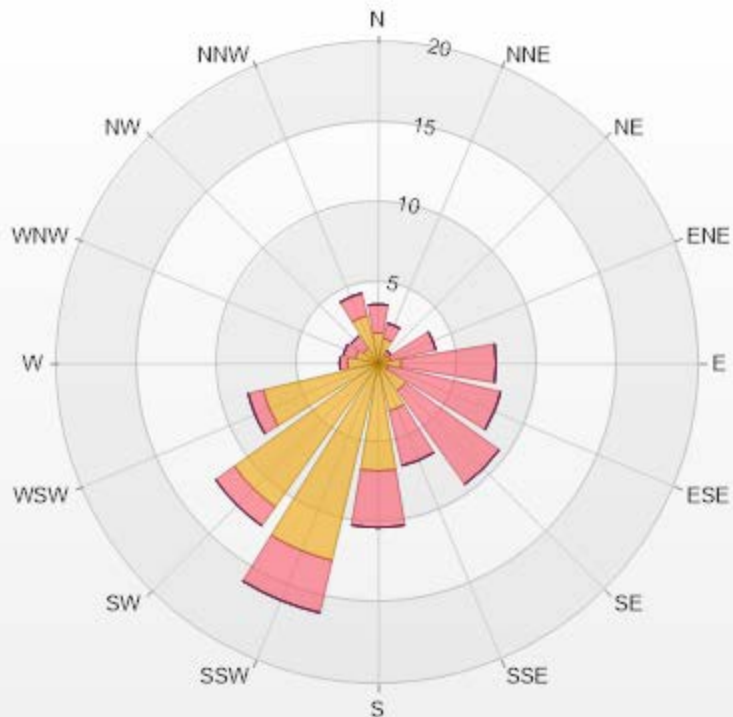
Timeseries Chart of Hourly Average for CH4 - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 84.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.92	1.76	0	0	0	3.68
NNE	1.6	0.96	0	0	0	2.56
NE	0.64	0.32	0	0	0	0.96
ENE	0.8	2.88	0	0	0	3.68
E	1.44	5.91	0	0	0	7.35
ESE	0.64	7.19	0	0	0	7.83
SE	2.08	7.19	0	0	0	9.27
SSE	3.04	3.51	0	0	0	6.55
S	6.71	3.51	0	0	0	10.22
SSW	12.62	3.35	0	0	0	15.97
SW	11.02	1.44	0	0	0	12.46
WSW	7.35	0.96	0	0	0	8.31
W	1.92	0.48	0	0	0	2.4
WNW	1.44	0.8	0	0	0	2.24
NW	1.12	0.96	0	0	0	2.08
NNW	3.04	1.44	0	0	0	4.48
Summary	57.38	42.66	0	0	0	100



PRAMP-202208

% Icon Classes (ppm)	57	0-2	43	2-5	0	5-10	0	10-20	0	>20.0
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PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

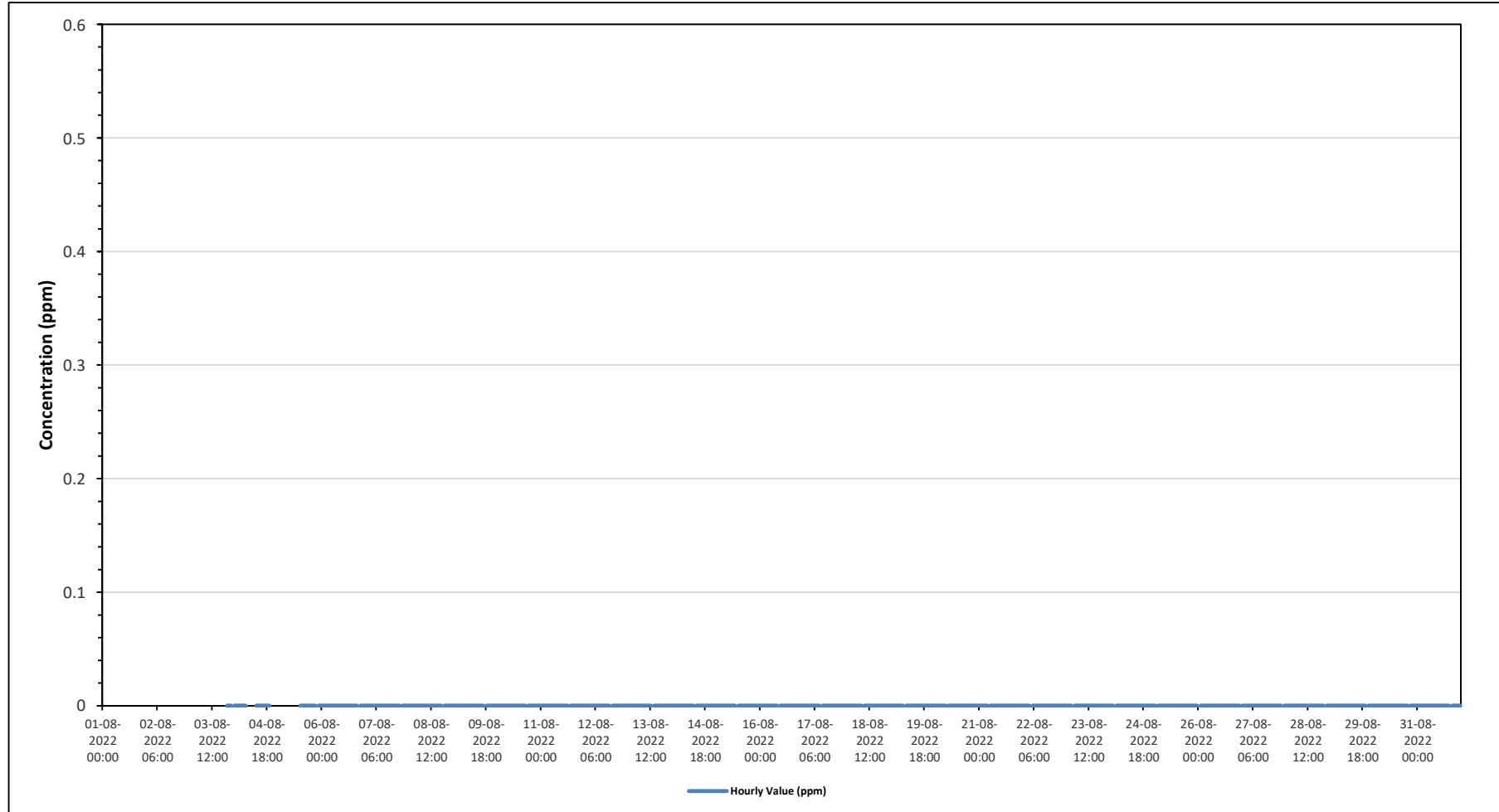
Maximum Hourly Value:	0.00 ppm on August 3 at hour 20	Hours in Service:	744
Maximum Daily Value:	0.00 ppm on August 6	Hours of Data:	626
Minimum Hourly Value:	0.00 ppm on August 3 at hour 20	Hours of Missing Data:	84
Minimum Daily Value:	0.00 ppm on August 6	Hours of Calibration:	34
Monthly Average:	0.00 ppm	Operational Uptime:	88.7

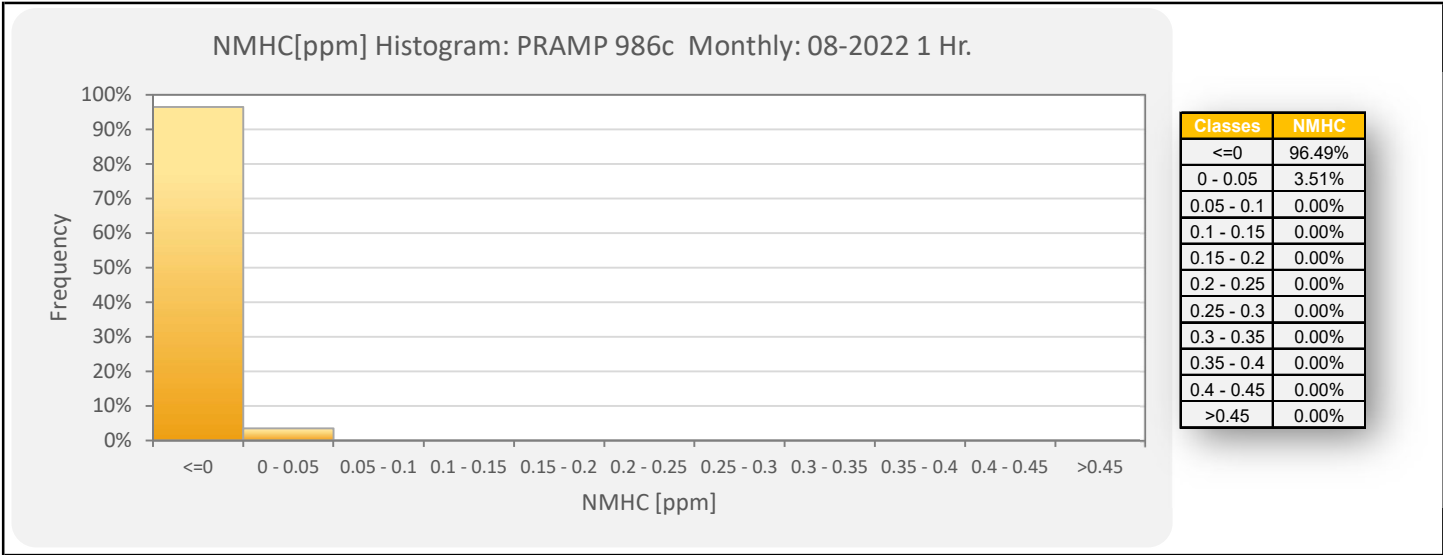
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-			
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.00	0.00	0.00	S	0.00	0.00	-
Aug 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	0.00	0.00	-
Aug 5	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	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	-
Aug 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	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Aug 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Aug 8	0.00	0.00	0.00	0.00	0.00	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
Aug 9	0.00	0.00	0.00	0.00	0.00	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
Aug 10	0.00	0.00	0.00	0.00	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
Aug 11	0.00	0.00	0.00	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
Aug 12	0.00	0.00	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
Aug 13	0.00	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
Aug 14	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
Aug 15	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
Aug 16	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
Aug 17	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
Aug 18	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
Aug 19	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
Aug 20	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
Aug 21	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
Aug 22	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
Aug 23	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
Aug 24	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
Aug 25	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
Aug 26	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
Aug 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	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
Aug 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	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
Aug 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	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
Aug 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Aug 31	0.00	0.00	0.00	0.00	0.00	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
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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.

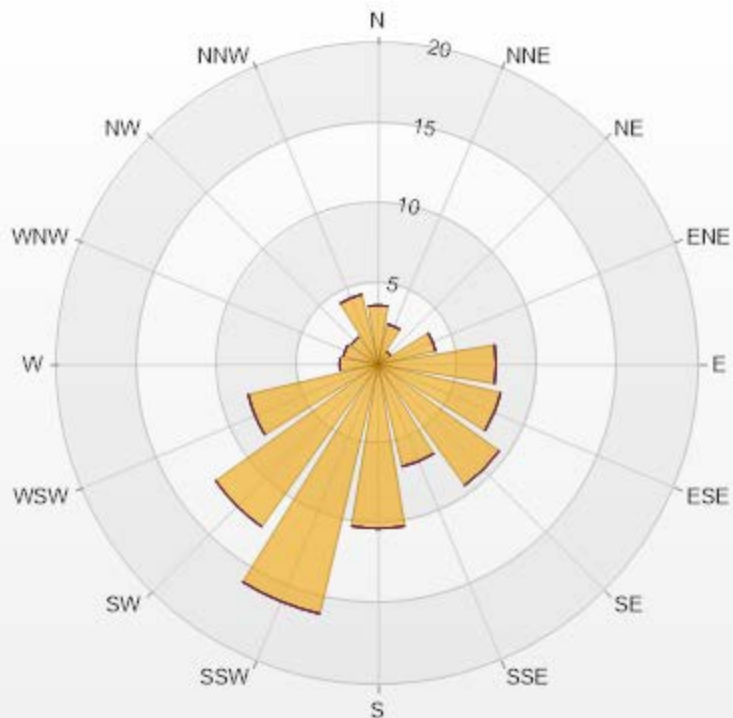
Timeseries Chart of Hourly Average for NMHC - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 84.14% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.67	0	0	0	0	3.67
NNE	2.56	0	0	0	0	2.56
NE	0.96	0	0	0	0	0.96
ENE	3.67	0	0	0	0	3.67
E	7.35	0	0	0	0	7.35
ESE	7.83	0	0	0	0	7.83
SE	9.27	0	0	0	0	9.27
SSE	6.55	0	0	0	0	6.55
S	10.22	0	0	0	0	10.22
SSW	15.97	0	0	0	0	15.97
SW	12.46	0	0	0	0	12.46
WSW	8.31	0	0	0	0	8.31
W	2.4	0	0	0	0	2.4
WNW	2.24	0	0	0	0	2.24
NW	2.08	0	0	0	0	2.08
NNW	4.47	0	0	0	0	4.47
Summary	100	0	0	0	0	100



PRAMP-202208

% Icon Classes (ppm)

100 0-0.1

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0 0.1-0.3

0 0.3-1

0 1-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

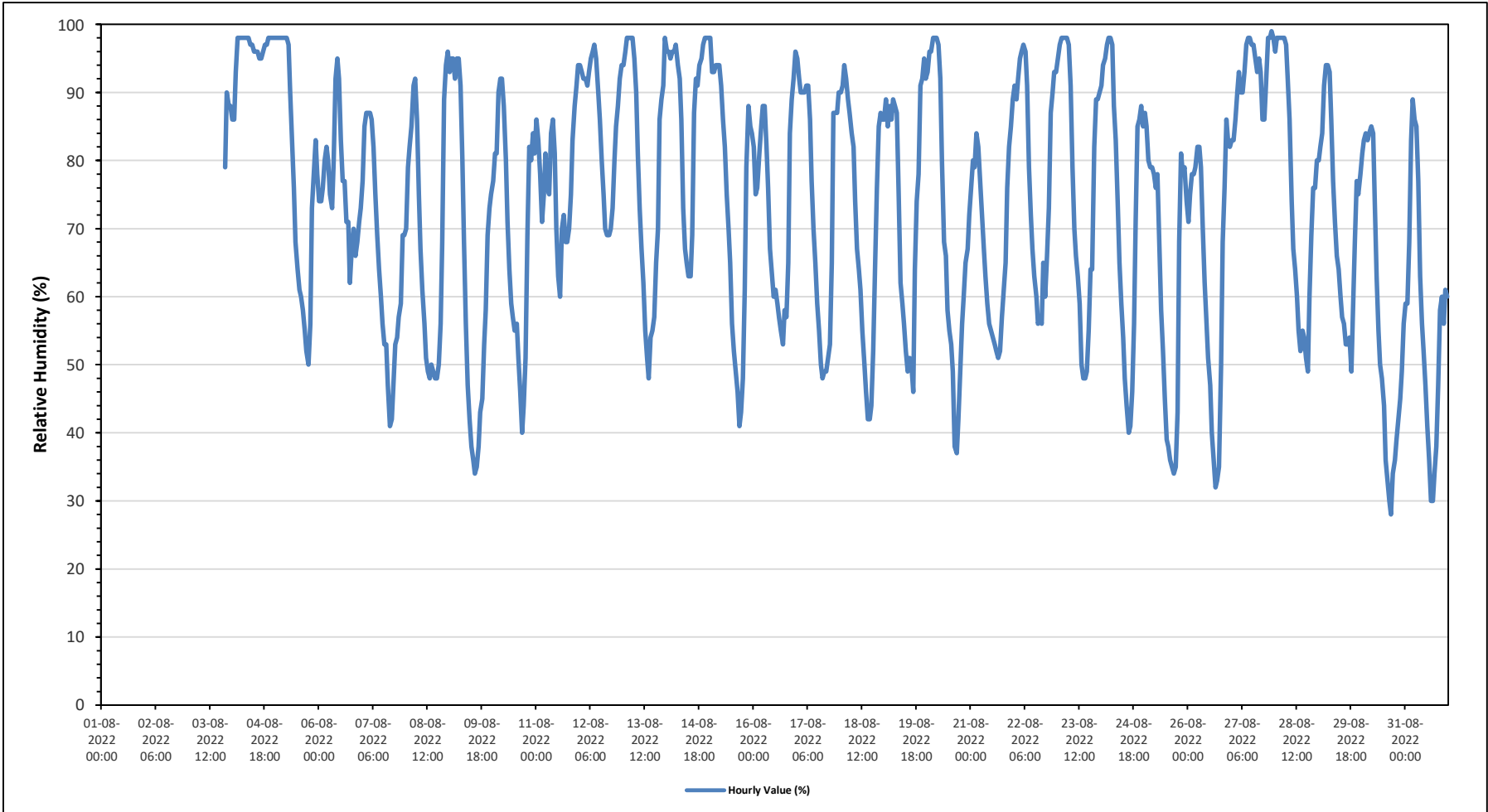
Maximum Hourly Value:	99 %	on August 27 at hour 22	Hours in Service:	744
Maximum Daily Value:	96.0 %	on August 4	Hours of Data:	676
Minimum Hourly Value:	28 %	on August 30 at hour 16	Hours of Missing Data:	68
Minimum Daily Value:	56.1 %	on August 30	Hours of Calibration:	0
Monthly Average:	73.6 %		Operational Uptime:	90.9

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	79	90	88	88
Aug 4	86	86	93	98	98	98	98	98	98	98	97	98	98	97	96	96	95	95	96	97	97	98	98	98	86	98	96.0
Aug 5	98	98	98	98	98	98	98	97	90	83	76	68	64	61	60	58	55	52	50	56	73	78	83	78	50	98	77.8
Aug 6	74	74	76	80	82	80	75	73	80	92	95	92	83	77	77	71	71	62	67	70	66	68	71	73	62	95	76.2
Aug 7	77	85	87	87	87	86	82	75	69	64	60	56	53	53	47	41	42	47	53	54	57	59	69	69	41	87	65.0
Aug 8	70	79	82	85	91	92	86	75	67	61	56	51	49	48	50	49	48	48	50	56	68	89	94	96	48	96	68.3
Aug 9	93	95	95	92	95	95	91	80	68	56	47	42	38	36	34	35	38	43	45	53	58	69	73	75	34	95	64.4
Aug 10	77	81	81	90	92	92	88	80	71	64	59	57	55	56	51	46	40	44	51	69	82	80	84	81	40	92	69.6
Aug 11	86	83	78	71	75	81	76	75	84	86	81	70	63	60	70	72	68	68	70	75	83	88	91	94	60	94	77.0
Aug 12	94	93	92	92	91	93	95	96	97	95	90	86	80	75	70	69	69	70	73	80	85	88	92	94	69	97	85.8
Aug 13	94	96	98	98	98	98	95	90	81	73	67	62	55	51	48	54	55	57	65	70	86	89	91	98	48	98	77.9
Aug 14	96	96	95	96	96	97	94	92	86	73	67	65	63	63	69	87	92	91	94	95	97	98	98	98	63	98	87.4
Aug 15	98	93	93	94	94	94	91	86	82	75	70	65	56	52	49	46	41	43	48	61	79	88	85	84	41	98	73.6
Aug 16	82	75	76	81	85	88	88	82	76	67	63	60	61	59	57	55	53	58	57	65	84	89	92	96	53	96	72.9
Aug 17	95	92	90	90	90	91	91	86	77	70	65	59	55	50	48	49	49	51	53	65	87	87	87	90	48	95	73.6
Aug 18	90	91	94	92	89	87	84	82	74	67	64	61	55	50	46	42	42	44	52	66	76	85	87	86	42	94	71.1
Aug 19	86	89	85	88	86	89	88	87	75	62	59	56	52	49	51	50	46	64	74	78	91	92	95	92	46	95	74.3
Aug 20	93	96	96	98	98	98	97	92	80	68	66	58	55	53	49	38	37	42	49	56	60	65	67	72	37	98	70.1
Aug 21	76	80	79	84	82	77	72	67	63	59	56	55	54	53	52	51	52	57	61	65	76	82	85	89	51	89	67.8
Aug 22	91	89	92	95	96	97	96	91	79	72	67	63	60	56	57	56	65	60	66	73	87	90	93	93	56	97	78.5
Aug 23	95	97	98	98	98	98	97	91	79	70	66	63	59	50	48	48	49	55	64	64	82	89	89	90	48	98	76.5
Aug 24	91	94	95	97	98	98	97	88	83	73	65	59	54	48	44	40	41	46	56	71	85	86	88	85	40	98	74.3
Aug 25	87	85	80	79	79	78	76	78	68	58	52	45	39	38	36	35	34	35	43	68	81	78	79	74	34	87	62.7
Aug 26	71	75	78	78	79	82	82	79	70	62	57	51	47	40	36	32	33	35	50	68	76	86	83	82	32	86	63.8
Aug 27	83	83	86	90	93	90	90	93	97	98	98	97	95	93	95	93	86	86	91	98	98	99	98	98	83	99	92.8
Aug 28	96	98	98	98	98	98	97	92	86	74	67	64	60	55	52	55	54	51	49	60	69	76	80	98	49	98	75.1
Aug 29	80	82	84	91	94	94	93	86	77	71	66	64	60	57	56	53	53	54	49	58	68	77	75	78	49	94	71.7
Aug 30	81	83	84	83	84	85	84	74	63	55	50	48	44	36	33	30	28	34	36	39	42	45	49	56	28	85	56.1
Aug 31	59	59	68	83	89	86	85	77	63	56	52	47	41	36	30	30	34	38	47	58	60	56	61	60	30	89	57.3
Diurnal Maximum	98	98	98	98	98	98	98	98	98	98	98	97	97	96	96	95	95	96	97	97	98	98	99	98			
Diurnal Average	85.7	86.7	87.5	89.5	90.5	90.7	88.8	84.4	78.0	71.5	67.1	62.9	58.9	55.5	53.9	52.9	52.8	54.7	59.1	67.2	77.0	81.5	83.5	84.4			

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 - August 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

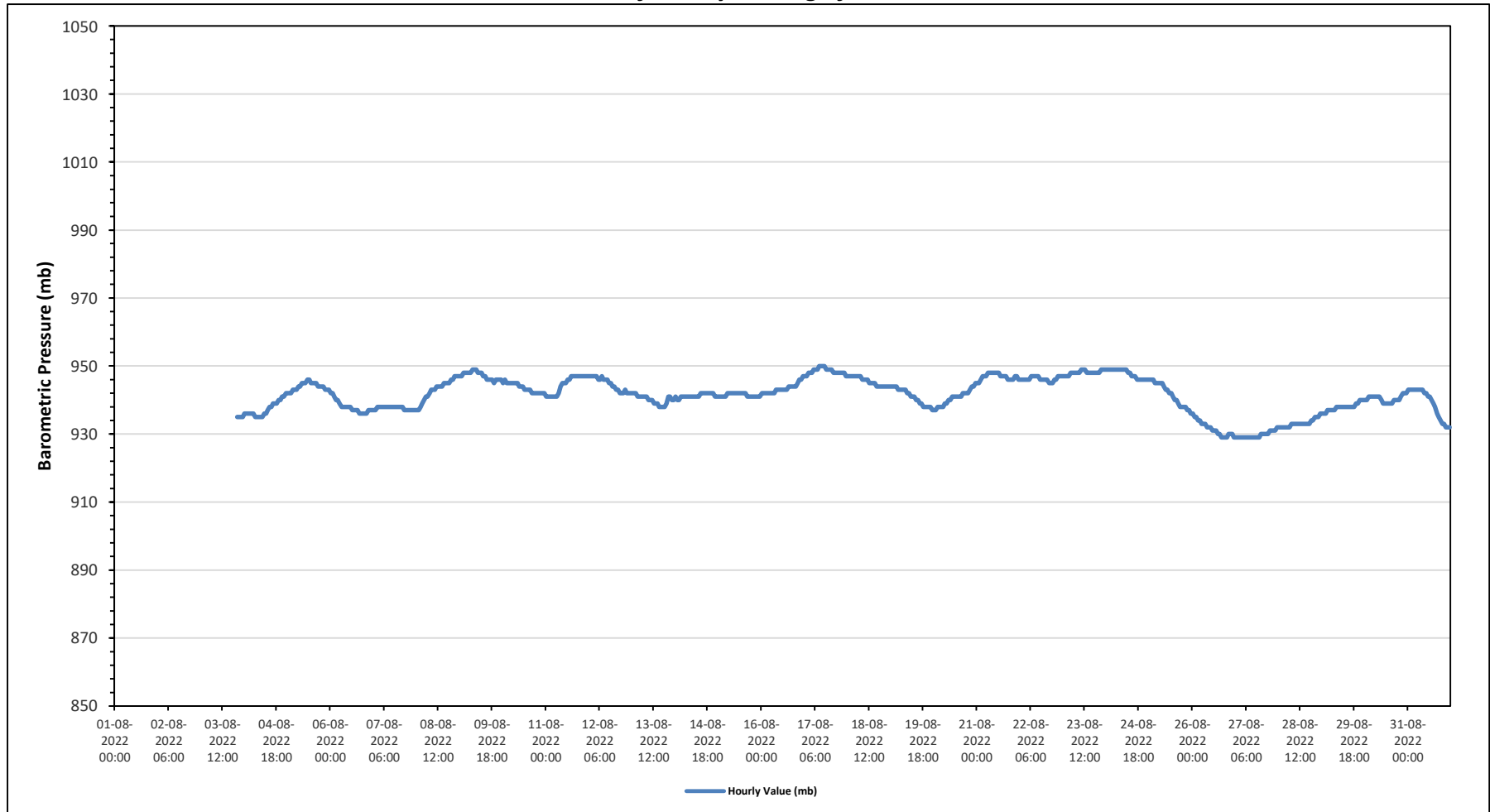
Maximum Hourly Value:	950 mb on August 17 at hour 8	Hours in Service:	744
Maximum Daily Value:	949 mb on August 17	Hours of Data:	676
Minimum Hourly Value:	929 mb on August 26 at hour 16	Hours of Missing Data:	68
Minimum Daily Value:	930 mb on August 27	Hours of Calibration:	0
Monthly Average:	942 mb	Operational Uptime:	90.9

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	935	935	935	935
Aug 4	936	936	936	936	936	936	935	935	935	935	935	936	936	937	938	938	939	939	940	940	941	941	942	935	942	937.4	
Aug 5	942	942	942	943	943	943	944	944	945	945	945	946	946	945	945	945	945	944	944	944	944	943	943	942	942	946	944.0
Aug 6	942	942	941	940	940	939	938	938	938	938	938	938	937	937	937	937	936	936	936	936	936	937	937	937	936	942	938.0
Aug 7	937	937	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	937	937	937	937	937	937	937	937	938	937.6
Aug 8	937	937	938	939	940	941	941	942	943	943	943	944	944	944	944	945	945	945	945	946	946	947	947	947	947	947	943.0
Aug 9	947	947	948	948	948	948	948	949	949	949	948	948	948	947	947	946	946	946	946	945	946	946	946	946	945	949	947.2
Aug 10	945	946	945	945	945	945	945	945	945	944	944	944	943	943	943	943	942	942	942	942	942	942	942	942	942	946	943.6
Aug 11	941	941	941	941	941	941	941	942	944	945	945	945	946	946	947	947	947	947	947	947	947	947	947	947	941	947	944.6
Aug 12	947	947	947	947	947	946	946	947	946	946	946	945	945	944	944	943	943	942	942	942	942	942	942	942	942	947	944.6
Aug 13	942	942	942	941	941	941	941	941	941	940	940	940	939	939	939	938	938	938	938	939	941	941	940	940	938	942	940.1
Aug 14	941	940	940	941	941	941	941	941	941	941	941	941	941	941	942	942	942	942	942	942	942	941	941	940	942	941.3	
Aug 15	941	941	941	941	941	942	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	941	941	941	941	942	941.5
Aug 16	942	942	942	942	942	942	942	942	943	943	943	943	943	943	943	944	944	944	944	944	945	946	946	947	942	947	943.4
Aug 17	947	947	948	948	948	949	949	949	950	950	950	950	949	949	949	948	948	948	948	948	948	948	948	947	947	950	948.5
Aug 18	947	947	947	947	947	947	947	947	946	946	946	946	946	945	945	945	945	944	944	944	944	944	944	944	944	947	945.5
Aug 19	944	944	944	944	943	943	943	943	943	942	942	941	941	941	940	940	939	939	938	938	938	938	937	937	937	944	941.0
Aug 20	937	937	938	938	938	938	939	939	940	940	941	941	941	941	941	941	942	942	942	942	943	944	944	945	937	945	940.6
Aug 21	945	945	946	947	947	947	948	948	948	948	948	948	947	947	947	947	946	946	946	946	946	947	947	946	945	948	946.9
Aug 22	946	946	946	946	946	946	947	947	947	947	947	946	946	946	946	945	945	945	946	946	946	947	947	947	945	947	946.2
Aug 23	947	947	947	947	948	948	948	948	948	948	949	949	949	948	948	948	948	948	948	948	948	949	949	949	947	949	948.1
Aug 24	949	949	949	949	949	949	949	949	949	949	949	949	948	948	947	947	946	946	946	946	946	946	946	946	946	949	947.8
Aug 25	946	946	946	945	945	945	945	945	944	943	943	942	942	941	940	940	939	938	938	938	938	937	937	936	936	946	941.6
Aug 26	936	935	935	934	934	933	933	933	932	932	932	931	931	931	930	930	929	929	929	929	930	930	930	929	929	936	931.5
Aug 27	929	929	929	929	929	929	929	929	929	929	929	929	929	929	930	930	930	930	931	931	931	931	932	929	932	929.7	
Aug 28	932	932	932	932	932	932	932	933	933	933	933	933	933	933	933	933	933	933	934	934	935	935	935	936	929	936	933.2
Aug 29	936	936	936	937	937	937	937	937	938	938	938	938	938	938	938	938	938	938	938	939	939	940	940	940	936	940	937.9
Aug 30	940	940	941	941	941	941	941	941	940	939	939	939	939	939	939	940	940	940	940	941	942	942	942	939	942	940.3	
Aug 31	943	943	943	943	943	943	943	943	942	942	941	941	940	939	938	936	935	934	933	933	932	932	932	932	932	943	939.0
Diurnal Maximum	949	949	949	949	949	949	949	949	950	950	950	950	949	949	949	948	948	948	948	948	949	949	949	949	949	949	949
Diurnal Average	942	942	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

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 - August 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

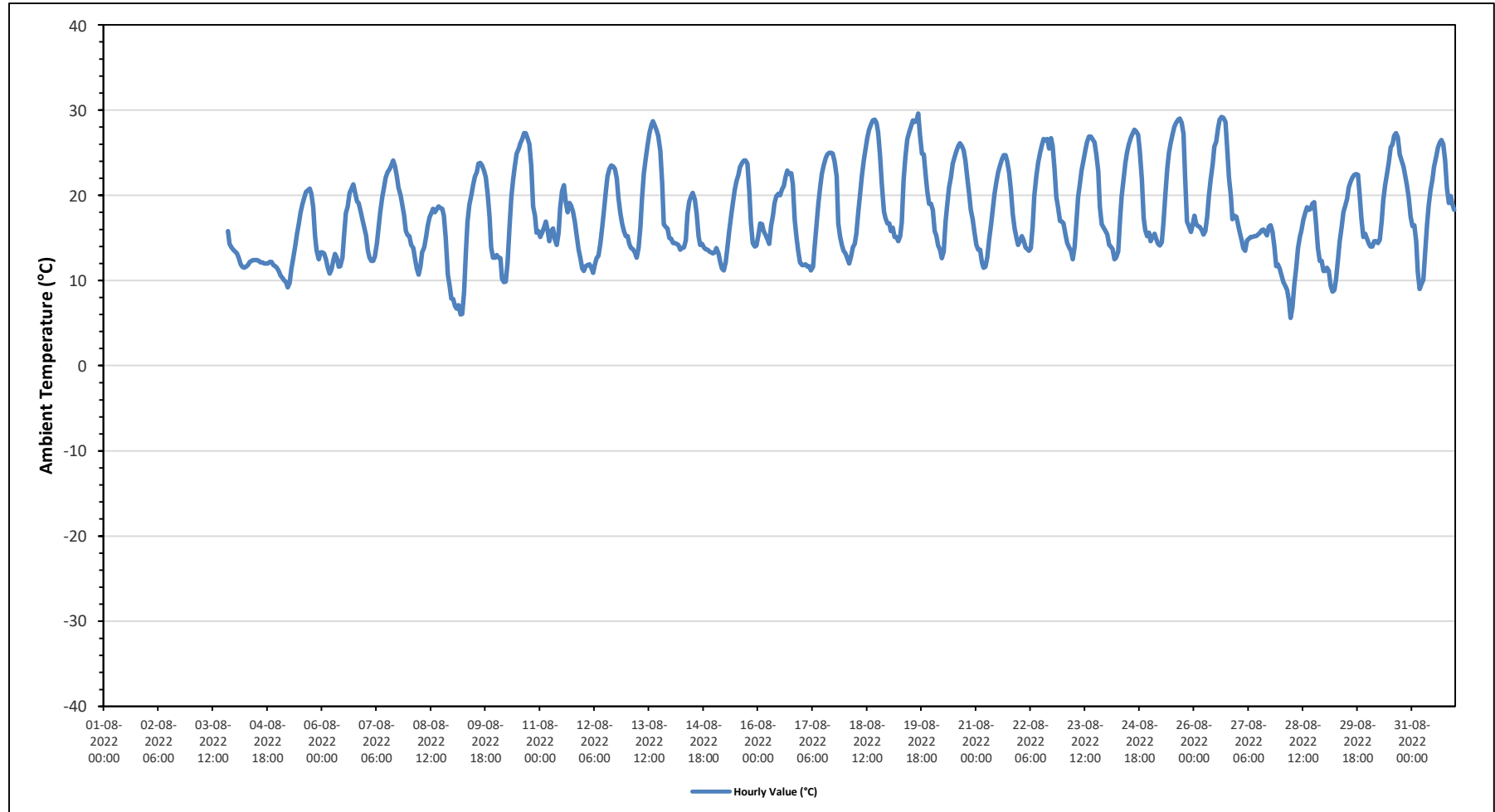
Maximum Hourly Value:	29.6 °C	on August 19 at hour 16	Hours in Service:	744
Maximum Daily Value:	22.0 °C	on August 19	Hours of Data:	676
Minimum Hourly Value:	5.6 °C	on August 28 at hour 5	Hours of Missing Data:	68
Minimum Daily Value:	12.1 °C	on August 4	Hours of Calibration:	0
Monthly Average:	17.8 °C		Operational Uptime:	90.9

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15.8	14.3	13.9	13.6
Aug 4	13.4	13.2	12.6	11.9	11.6	11.5	11.6	11.8	12.2	12.3	12.4	12.4	12.3	12.1	12.1	12	12	12	12.2	12.2	12.2	11.8	11.7	11.5	11.5	13.4	12.1
Aug 5	11.1	10.6	10.3	10	9.8	9.2	9.7	11.4	12.5	14	15.5	16.7	17.9	18.9	19.7	20.4	20.6	20.8	20.2	18.6	15.2	13.5	12.5	13.3	9.2	20.8	14.7
Aug 6	13.3	13.2	12.5	11.5	10.8	11.3	12.4	13.1	12.7	11.6	11.7	12.7	15.6	17.9	18.7	20.3	20.7	21.3	20.3	19.3	19.1	18.2	17.2	16.4	10.8	21.3	15.5
Aug 7	15.3	13.5	12.7	12.3	12.3	12.8	14.4	16.5	18.2	19.8	21	22.1	22.7	23.1	23.6	24.1	23.4	22.2	20.9	20	18.8	17.7	15.8	15.3	12.3	24.1	18.3
Aug 8	15.2	14.2	13.8	12.6	11.4	10.7	11.7	13.3	13.9	15.1	16.4	17.4	17.9	18.4	18	18.4	18.7	18.5	18.4	17.6	15	10.7	9.3	7.9	7.9	18.7	14.8
Aug 9	7.8	7	6.7	7.1	6	6.1	8.6	13.4	16.9	18.9	20.1	21.2	22.2	23.7	23.8	23.5	22.8	22.1	20.1	17.5	13.9	12.7	12.7	6.0	23.8	15.7	
Aug 10	13	12.7	12.6	10.2	9.8	9.9	12.2	16.2	19.8	21.9	23.4	24.9	25.5	26.1	26.6	27.3	27.3	26.7	26	23.5	18.7	17.6	15.6	15.8	9.8	27.3	19.3
Aug 11	15.1	15.7	16.2	16.9	15.8	14.6	15.8	16.1	14.8	14.2	15.6	18.6	20.5	21.2	19.2	18	19.1	18.8	18.1	16.9	15.3	13.7	12.6	11.4	11.4	21.2	16.4
Aug 12	11.1	11.7	11.8	11.9	11.5	10.9	11.8	12.6	12.9	14.3	16.2	18.3	20.5	22.2	23.1	23.5	23.4	23.1	22	19.8	18	16.7	15.8	15.2	10.9	23.5	16.6
Aug 13	15.2	14.3	13.8	13.7	13.3	12.7	13.8	16.3	19.6	22.6	24.3	25.9	27.3	28.2	28.7	28.2	27.6	27	25.2	21.4	16.6	16.3	16.1	15	12.7	28.7	20.1
Aug 14	14.9	14.4	14.4	14.3	14.2	13.6	13.8	13.9	14.7	17.8	19.3	19.9	20.3	19.5	17.8	15.2	14.2	14.3	13.9	13.7	13.6	13.4	13.3	13.2	13.2	20.3	15.3
Aug 15	13.3	13.8	13.2	12.1	11.4	11.2	12.1	14	15.7	17.7	19.3	20.6	21.7	22.4	23.3	23.8	24.1	24.1	23.7	20.5	16.8	14.4	14	14.1	11.2	24.1	17.4
Aug 16	15.3	16.7	16.6	15.8	15.3	14.8	14.3	16.4	17.6	19.1	19.9	20.2	20	20.7	21.1	22.1	22.9	22.5	22.6	21.3	17.1	15	13.5	12.1	12.1	22.9	18.0
Aug 17	11.8	11.8	11.9	11.6	11.7	11.2	11.6	14	16.5	19	21	22.5	23.5	24.4	24.8	25	25	24.9	24	22.2	16.7	15.1	14.1	13.5	11.2	25.0	17.8
Aug 18	13.2	12.6	12	12.8	13.9	14.3	15.5	17.9	20.4	22.3	24.1	25.5	26.7	27.7	28.3	28.8	28.9	28.5	27.4	24.8	21.3	18.1	17.3	16.7	12.0	28.9	20.8
Aug 19	16.7	15.8	16.2	15.1	15.1	14.6	15.2	16.8	21.8	24.6	26.6	27.4	28.1	28.8	28.6	28.7	29.6	27	24.9	24.8	22.7	20.5	19	19	14.6	29.6	22.0
Aug 20	18.3	15.8	15.3	14.1	13.6	12.6	13.4	16.9	19.1	20.9	22.1	23.7	24.5	25.2	25.8	26.1	25.8	25.3	24	22	20.1	18.3	17.2	15.6	12.6	26.1	19.8
Aug 21	14.2	13.6	13.6	12.1	11.5	11.6	12.7	14.8	16.5	18.4	20.1	21.5	22.7	23.5	24.2	24.7	24.7	24	22.7	20.6	17.8	16.1	15	14.2	11.5	24.7	18.0
Aug 22	14.6	15.2	14.7	13.9	13.7	13.5	13.8	16.4	19.9	22.3	23.9	25	25.8	26.6	26.5	26.6	25.5	26.7	25.8	23.2	19.8	18.7	17	16.9	13.5	26.7	20.3
Aug 23	16.7	15.5	14.4	13.9	13.5	12.5	14	16.6	19.8	21.4	22.9	24.2	25.4	26.3	26.9	26.9	26.6	26.2	24.7	22.8	18.6	16.6	16.2	15.9	12.5	26.9	19.9
Aug 24	15.4	14.2	14	13.7	12.5	12.7	13.4	17.2	19.9	21.8	23.8	25	26	26.8	27.3	27.7	27.5	27.1	25.3	21.9	17.3	15.9	15.2	15.6	12.5	27.7	19.9
Aug 25	14.6	15.1	15.5	14.9	14.3	14.1	14.5	16.6	20.3	23.2	25	26.2	27.2	28	28.5	28.9	29	28.5	27.2	22.1	16.9	16.3	15.7	16.5	14.1	29.0	20.8
Aug 26	17.6	16.6	16.4	16.3	15.9	15.4	15.8	17.5	19.8	21.8	23.7	25.7	26.3	27.9	28.9	29.2	29.1	28.6	25.7	22.1	20	17.2	17.6	17.5	15.4	29.2	21.4
Aug 27	16.6	15.6	14.7	13.8	13.5	14.7	14.9	15.1	15.1	15.2	15.2	15.4	15.6	15.9	16	15.6	15.3	16.3	16.5	15.7	14	11.7	11.9	11.4	11.4	16.6	14.8
Aug 28	10.6	9.8	9.4	8.9	7.6	5.6	6.8	9.5	11.4	13.8	15.1	15.9	17.1	17.9	18.6	18.3	18.4	19	19.2	16.7	13.8	12.3	12.3	11.1	5.6	19.2	13.3
Aug 29	11.1	11.5	11.1	9.4	8.7	8.9	10.1	12.3	14.6	16.2	18	18.8	19.6	20.9	21.6	22.1	22.4	22.5	22.4	20.1	17.2	15.1	15.5	14.9	8.7	22.5	16.0
Aug 30	14.3	14	14	14.6	14.6	14.4	14.8	16.9	19.4	21.2	22.5	23.9	25.6	26	27	27.3	26.8	24.8	24.1	23.4	22.4	21.2	19.7	17.5	14.0	27.3	20.4
Aug 31	16.4	16.5	14.6	11	9	9.6	10.1	13.4	16.6	18.8	20.6	21.8	23.3	24.5	25.6	26.2	26.5	26	24.1	20.8	19.1	19.9	19	18.3	9.0	26.5	18.8
Diurnal Maximum	18.3	16.7	16.6	16.9	15.9	15.4	15.8	17.9	21.8	24.6	26.6	27.4	28.1	28.8	28.9	29.2	29.6	28.6	27.4	24.8	22.7	21.2	19.7	19.0			
Diurnal Average	14.1	13.7	13.4	12.7	12.2	12.0	12.8	14.9	16.9	18.6	20.0	21.2	22.2	23.0	23.4	23.5	23.5	23.2	22.3	20.3	17.5	15.9	15.1	14.6			

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 AT - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

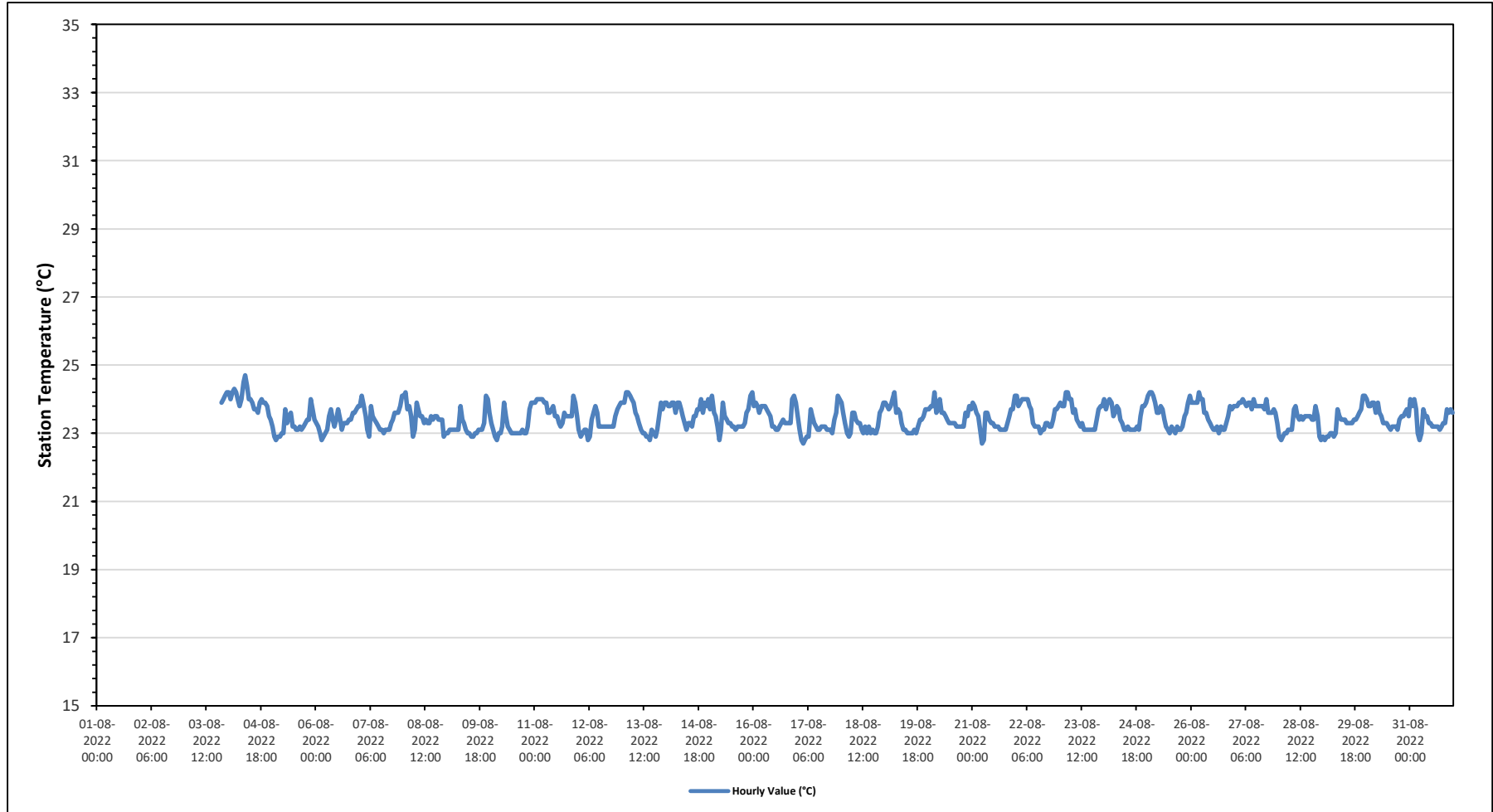
Maximum Hourly Value:	24.7 °C	on August 4 at hour 9	Hours in Service:	744
Maximum Daily Value:	24.0 °C	on August 4	Hours of Data:	676
Minimum Hourly Value:	22.7 °C	on August 17 at hour 3	Hours of Missing Data:	68
Minimum Daily Value:	23.2 °C	on August 10	Hours of Calibration:	0
Monthly Average:	23.5 °C		Operational Uptime:	90.9

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				
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-					
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-				
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	23.9	24.0	24.1	24.2	23.9	24.2	-	
Aug 4	24.2	24.0	24.2	24.3	24.2	24.0	23.8	24.0	24.5	24.7	24.4	24.0	24.0	23.9	23.7	23.7	23.6	23.9	23.9	24.0	23.9	23.9	23.8	23.5	23.4	23.4	23.4	22.8	24.0	23.3	
Aug 5	23.2	22.9	22.8	22.9	22.9	23.0	23.0	23.7	23.3	23.5	23.6	23.2	23.2	23.1	23.1	23.2	23.1	23.2	23.1	23.2	23.3	23.4	23.4	23.6	23.6	23.7	23.8	22.8	23.8	23.3	
Aug 6	23.3	23.2	23.0	22.8	22.9	23.0	23.1	23.5	23.7	23.4	23.2	23.4	23.7	23.4	23.1	23.3	23.3	23.3	23.4	23.4	23.6	23.6	23.7	23.8	23.8	24.1	22.9	24.1	23.4		
Aug 7	23.8	24.1	23.8	23.5	23.1	22.9	23.8	23.5	23.4	23.3	23.2	23.1	23.1	23.0	23.1	23.1	23.3	23.4	23.6	23.6	23.6	23.8	24.1	22.9	24.1	23.4	22.9	24.2	23.5		
Aug 8	24.1	24.2	23.7	23.8	23.5	22.9	23.1	23.9	23.7	23.5	23.5	23.3	23.4	23.3	23.3	23.5	23.4	23.5	23.4	23.4	23.4	22.9	23.0	22.9	24.2	23.5	22.9	24.1	23.2		
Aug 9	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.8	23.4	23.3	23.1	23.0	23.0	22.9	22.9	23.0	23.0	23.1	23.1	23.1	23.1	23.1	24.0	23.6	22.9	24.1	23.2	22.9	24.1	23.2	
Aug 10	23.3	23.1	22.9	22.8	23.0	23.0	23.2	23.9	23.5	23.2	23.1	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.0	23.0	23.2	23.7	23.9	23.9	22.8	23.9	23.2	22.8	23.9	23.2	
Aug 11	23.9	24.0	24.0	24.0	24.0	23.9	23.9	23.6	23.6	23.7	23.8	23.5	23.5	23.3	23.2	23.3	23.6	23.5	23.5	23.5	24.1	23.9	23.5	23.2	24.1	23.7	23.2	24.1	23.7		
Aug 12	23.1	22.9	23.0	23.1	23.1	22.8	22.9	23.4	23.6	23.8	23.6	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.5	23.7	23.8	23.9	22.8	23.9	23.3	22.8	23.9	23.3	
Aug 13	23.9	23.9	24.2	24.2	24.1	24.0	23.9	23.6	23.5	23.3	23.1	23.0	23.0	22.9	22.9	22.8	23.1	23.0	22.9	23.1	23.5	23.9	23.7	23.9	22.8	24.2	23.5	22.8	24.2	23.5	
Aug 14	23.9	23.8	23.8	23.9	23.9	23.6	23.9	23.9	23.7	23.5	23.3	23.1	23.3	23.3	23.2	23.3	23.2	23.5	23.7	23.7	24.0	23.6	23.9	23.8	24.0	23.1	24.0	23.7	23.7		
Aug 15	23.7	24.1	23.6	23.5	23.2	22.8	23.1	23.9	23.5	23.4	23.3	23.3	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.2	23.6	23.7	24.1	24.2	22.8	24.2	23.4	23.1	24.1	23.5	
Aug 16	23.8	23.9	23.8	23.6	23.8	23.8	23.8	23.7	23.6	23.5	23.2	23.2	23.1	23.1	23.2	23.3	23.4	23.3	23.3	23.3	23.3	24.0	24.1	23.9	23.1	24.1	23.5	23.1	24.1	23.5	
Aug 17	23.5	23.1	22.8	22.7	22.8	22.9	22.9	23.7	23.5	23.3	23.2	23.1	23.1	23.2	23.2	23.1	23.1	23.1	23.1	23.0	23.4	23.6	24.1	24.0	22.7	24.1	23.2	22.7	24.1	23.2	
Aug 18	23.9	23.6	23.3	23.0	22.9	23.0	23.6	23.6	23.4	23.3	23.3	23.1	23.0	23.2	23.0	23.2	23.0	23.1	23.0	23.0	23.2	23.4	23.6	23.7	23.9	22.9	23.9	23.3	22.9	23.9	23.3
Aug 19	23.9	23.8	23.7	23.8	24.0	24.2	23.6	23.7	23.6	23.3	23.1	23.1	23.0	23.0	23.0	23.0	23.1	23.0	23.2	23.4	23.4	23.5	23.7	23.7	23.0	24.2	23.5	23.0	24.2	23.5	
Aug 20	23.7	23.8	23.8	24.2	23.6	23.7	24.0	23.6	23.6	23.5	23.4	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.6	23.5	23.8	23.7	23.2	24.2	23.5	23.2	24.2	23.5	
Aug 21	23.9	23.8	23.6	23.5	23.1	22.7	22.8	23.6	23.6	23.4	23.3	23.3	23.2	23.2	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.3	23.5	23.7	23.7	24.1	22.7	24.1	23.4	23.4	
Aug 22	24.1	23.8	23.9	24.0	24.0	24.0	23.8	23.7	23.3	23.2	23.2	23.2	23.0	23.1	23.1	23.3	23.3	23.2	23.2	23.4	23.7	23.7	23.8	23.0	24.1	23.5	23.0	24.1	23.5	23.5	
Aug 23	23.9	23.8	23.8	24.2	24.2	24.0	24.0	23.6	23.7	23.4	23.3	23.2	23.3	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.4	23.7	23.8	23.8	23.1	24.2	23.5	23.1	24.2	23.5	
Aug 24	24.0	23.7	23.9	24.0	23.9	23.5	23.6	23.8	23.7	23.4	23.3	23.1	23.1	23.2	23.1	23.1	23.1	23.1	23.2	23.1	23.5	23.8	23.8	23.9	23.1	24.0	23.5	23.1	24.0	23.5	
Aug 25	24.1	24.2	24.2	24.1	23.9	23.6	23.6	23.8	23.7	23.4	23.2	23.1	23.0	23.2	23.1	23.0	23.2	23.1	23.1	23.2	23.5	23.6	23.9	24.1	23.0	24.2	23.5	23.0	24.2	23.5	
Aug 26	23.9	23.9	23.9	23.9	24.2	24.0	24.0	23.6	23.6	23.4	23.3	23.2	23.1	23.1	23.2	23.0	23.2	23.1	23.1	23.3	23.5	23.8	23.7	23.8	23.0	24.2	23.5	23.0	24.2	23.5	
Aug 27	23.8	23.8	23.9	23.9	24.0	23.9	23.8	23.9	23.9	23.7	24.0	23.8	23.8	23.8	23.8	23.8	23.7	24.0	23.6	23.6	23.6	23.7	23.6	23.3	23.3	24.0	23.5	23.3	24.0	23.8	
Aug 28	22.9	22.8	22.9	23.0	23.0	23.1	23.1	23.1	23.7	23.8	23.5	23.4	23.5	23.4	23.5	23.5	23.5	23.5	23.4	23.4	23.8	23.5	22.9	22.8	22.8	23.8	23.3	22.8	23.8	23.3	
Aug 29	22.9	22.8	22.9	22.9	23.0	23.0	22.9	23.0	23.7	23.5	23.4	23.4	23.4	23.3	23.3	23.3	23.4	23.4	23.5	23.6	23.7	24.1	24.1	22.8	24.1	23.3	22.8	24.1	23.3	23.3	
Aug 30	24.0	23.8	23.8	23.9	23.9	23.6	23.9	23.6	23.5	23.3	23.3	23.3	23.2	23.1	23.2	23.2	23.2	23.1	23.4	23.5	23.5	23.6	23.7	23.5	23.1	24.0	23.5	23.1	24.0	23.5	
Aug 31	24.0	23.8	24.0	23.7	23.0	22.8	23.0	23.7	23.5	23.5	23.3	23.3	23.2	23.2	23.2	23.2	23.1	23.2	23.3	23.3	23.7	23.6	23.7	23.6	22.8	24.0	23.4	22.8	24.0	23.4	
Diurnal Maximum	24.2	24.2	24.2	24.3	24.2	24.2	24.0	24.0	24.5	24.7	24.4	24.0	24.0	23.9	23.8	23.8	23.7	24.0	24.0	24.0	23.9	24.1	24.1	24.2	23.9	24.2	23.5	23.9	24.1	24.2	
Diurnal Average	23.7	23.6	23.6	23.6	23.5	23.4	23.5	23.7	23.6	23.5	23.4	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.3	23.5	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8	

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 ST - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

**986c Station - August 2022
Summary of Hourly Averages**

PRECIPITATION in mm

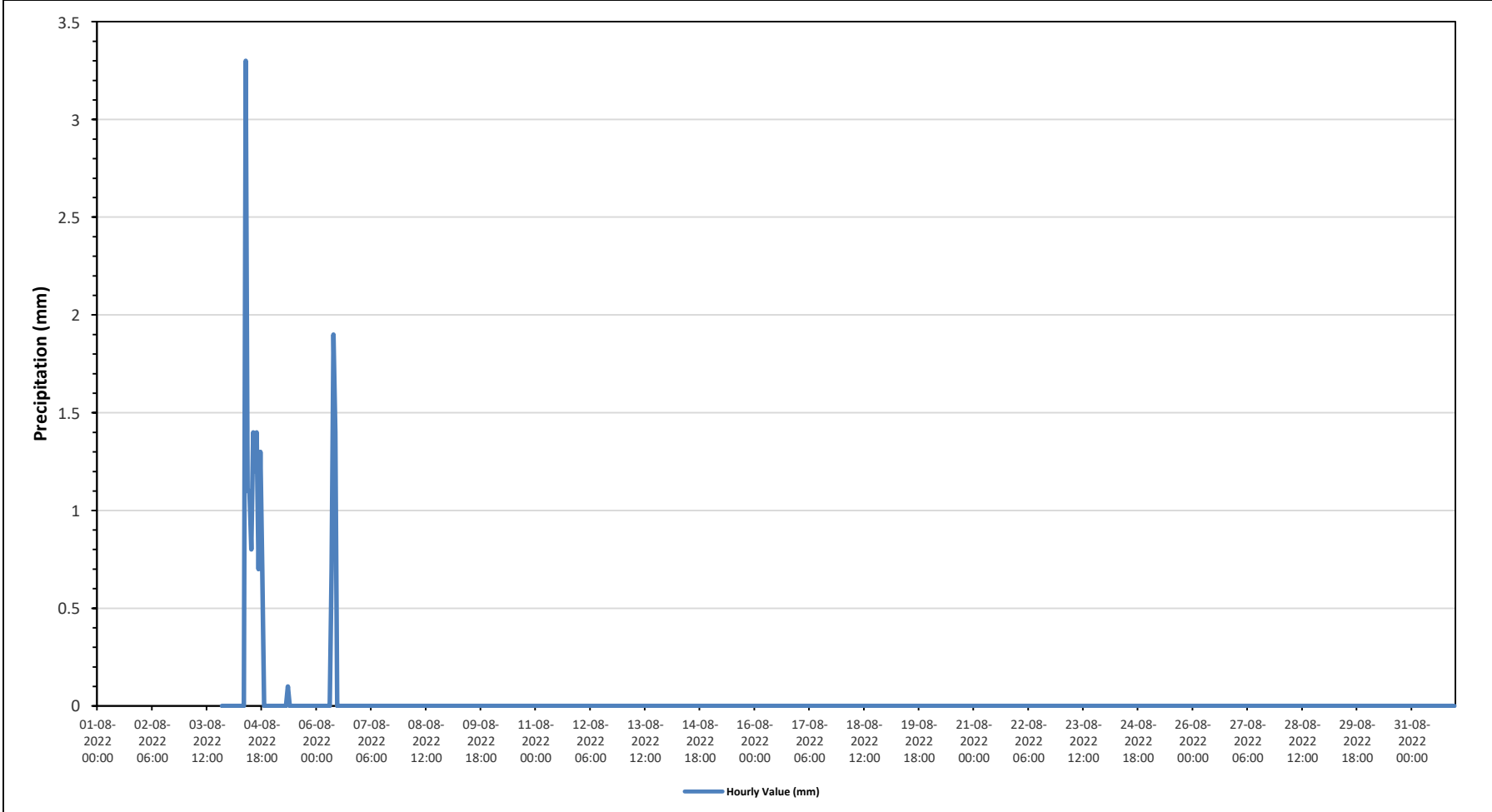
Maximum Hourly Value:	3.3 mm on August 4 at hour 9	Hours in Service:	744
Maximum Daily Value:	13.0 mm on August 4	Hours of Data:	676
Minimum Hourly Value:	0.0 mm on August 3 at hour 20	Hours of Missing Data:	68
Minimum Daily Value:	0.0 mm on August 7	Hours of Calibration:	0
Monthly Total:	17.1 mm	Operational Uptime:	90.9

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	0	0.0	0.0	-
Aug 4	0	0	0	0	0	0	0	0	0	3.3	1.1	1.1	0.8	1.4	1.2	1.4	0.7	1.3	0.7	0	0	0	0	0	0.0	3.3	13.0
Aug 5	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
Aug 6	0	0	0	0	0	0	0	0	0.7	1.9	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.9	4.0
Aug 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
Aug 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 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
Aug 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
Aug 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.3	1.4	1.1	0.8	1.4	1.2	1.4	0.7	1.3	0.7	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	0.2	0.1	0.0	0.0	0.1	0.0	0.1	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 Precipitation - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

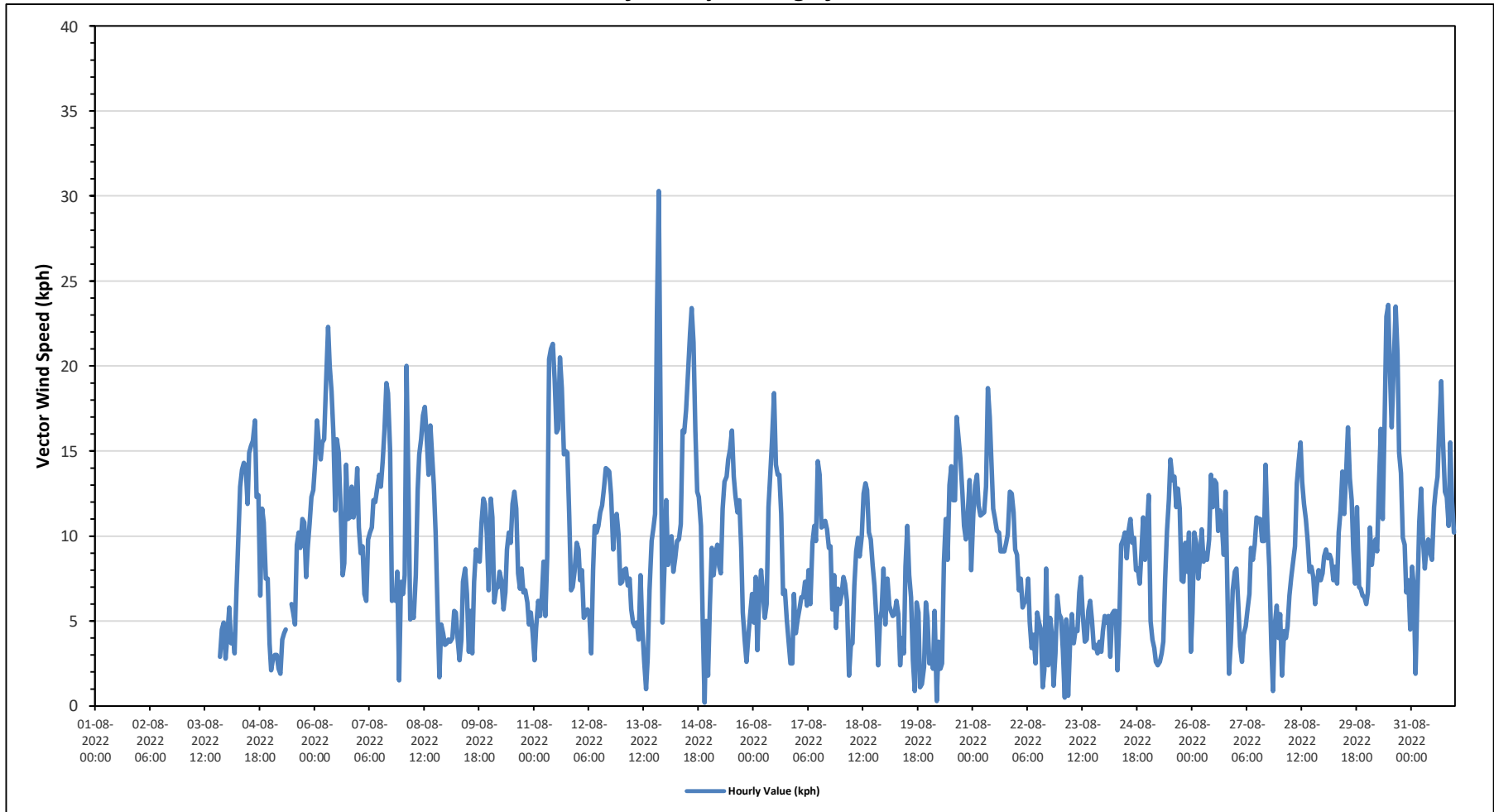
VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	30.3 kph on August 13 at hour 20	Hours in Service:	744
Maximum Daily Value:	14.1 kph on August 6	Hours of Data:	674
Minimum Hourly Value:	0.2 kph on August 14 at hour 21	Hours of Missing Data:	68
Minimum Daily Value:	3.2 kph on August 19	Hours of Calibration:	2
Monthly Average:	3.3 kph	Operational Uptime:	90.9

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				
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-					
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-			
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2.9	4.5	4.9	2.8	2.8	4.9	-	
Aug 4	4.0	5.8	3.7	4.2	3.1	6.7	9.8	12.9	13.9	14.3	14.1	11.9	14.9	15.3	15.6	16.8	12.3	12.4	6.5	11.6	10.8	7.5	7.5	3.7	3.1	16.8	8.7				
Aug 5	2.1	2.8	3.0	3.0	2.2	1.9	3.9	4.3	4.5	C	C	6.0	5.5	4.8	9.5	10.2	9.3	11.0	10.8	7.6	9.3	10.7	12.3	12.7	1.9	12.7	5.5				
Aug 6	14.3	16.8	15.5	14.5	15.5	15.7	18.9	22.3	20.0	18.5	16.0	11.5	15.7	14.9	11.2	7.7	8.4	14.2	11.0	11.1	12.9	11.1	11.8	14.0	7.7	22.3	14.1				
Aug 7	10.5	9.0	9.4	6.6	6.2	9.8	10.2	10.5	12.1	12.0	12.9	13.6	12.9	14.4	16.3	19.0	18.4	15.0	6.2	6.6	6.2	7.9	1.5	7.3	1.5	19.0	10.1				
Aug 8	6.6	7.7	20.0	13.0	5.1	5.6	5.2	7.7	12.7	14.8	15.7	17.1	17.6	15.8	13.6	16.5	14.6	13.0	10.1	5.7	1.7	4.8	4.3	3.6	1.7	20.0	8.5				
Aug 9	3.7	3.9	3.8	4.0	5.6	5.5	3.9	2.7	3.9	7.3	8.1	6.6	3.2	5.6	3.1	7.3	9.2	8.7	8.5	10.8	12.2	11.9	10.1	6.8	2.7	12.2	5.6				
Aug 10	12.2	11.1	6.1	6.9	7.0	7.9	7.3	5.7	6.7	9.2	10.2	9.6	11.9	12.6	11.6	7.8	6.9	8.1	6.7	6.8	6.1	4.8	5.5	4.3	4.3	12.6	6.2				
Aug 11	2.7	4.6	6.2	5.3	6.5	8.5	5.3	8.8	20.4	21.0	21.3	19.2	16.1	16.3	20.5	18.7	14.8	15.0	14.9	11.2	6.8	7.0	7.9	9.6	2.7	21.3	7.7				
Aug 12	9.2	7.4	8.0	5.2	5.4	5.7	5.4	3.1	8.0	10.6	10.2	10.6	11.4	11.8	12.8	14.0	13.9	13.8	12.4	9.2	11.0	11.3	10.1	7.2	3.1	14.0	9.3				
Aug 13	7.3	8.0	8.1	7.1	7.5	5.7	4.9	4.7	4.9	3.9	7.7	4.5	2.6	1.0	2.8	6.8	9.7	10.5	11.3	23.0	30.3	16.5	4.9	8.0	1.0	30.3	4.4				
Aug 14	12.1	8.3	9.0	10.0	7.9	8.7	9.7	9.8	10.7	16.2	16.1	17.4	19.8	21.9	23.4	21.4	16.2	12.6	12.3	10.6	4.8	0.2	5.0	1.8	0.2	23.4	11.1				
Aug 15	6.0	9.3	7.7	9.0	9.5	8.2	7.8	11.6	13.2	13.5	14.5	15.1	16.2	13.5	12.4	11.4	12.1	9.3	5.5	3.9	2.6	4.1	5.4	6.6	2.6	16.2	8.4				
Aug 16	4.9	7.6	3.3	6.3	8.0	6.5	5.2	6.0	11.7	13.7	15.5	18.4	14.2	13.6	13.6	11.3	6.6	6.8	5.1	3.8	2.5	2.5	6.6	4.3	2.5	18.4	7.4				
Aug 17	5.1	5.8	6.4	6.4	7.3	5.9	8.0	6.0	9.6	10.6	9.7	14.4	13.6	10.5	10.6	10.9	10.4	9.3	9.4	5.7	7.7	4.6	6.9	6.0	4.6	14.4	7.7				
Aug 18	6.6	7.6	7.2	6.2	1.8	3.6	3.7	7.1	9.1	9.9	8.8	10.0	12.5	13.1	12.7	10.2	9.8	8.3	7.1	5.2	2.4	5.1	5.6	8.1	1.8	13.1	6.2				
Aug 19	4.8	7.5	5.9	5.6	5.3	5.4	6.2	5.4	2.4	4.0	3.1	8.2	10.6	7.7	6.4	2.7	0.9	6.1	5.5	1.1	1.3	2.3	6.1	5.2	0.9	10.6	3.2				
Aug 20	2.5	2.7	2.2	5.6	0.3	3.8	2.2	2.5	8.4	11.0	8.6	13.0	14.1	12.1	12.1	17.0	15.8	14.6	12.5	10.6	9.8	11.3	13.3	8.0	0.3	17.0	7.2				
Aug 21	11.3	13.0	13.6	11.8	11.2	11.3	11.4	12.9	18.7	17.0	14.1	11.6	11.0	10.3	10.2	9.1	9.1	9.1	9.6	10.1	12.6	12.5	11.4	9.2	9.1	18.7	11.2				
Aug 22	8.9	6.8	7.5	5.8	6.1	6.2	7.5	4.9	3.4	4.2	2.5	5.5	4.9	4.5	1.1	2.1	8.1	2.4	5.2	4.3	1.2	3.1	6.5	5.4	1.1	8.9	3.3				
Aug 23	5.2	3.3	0.5	5.1	0.6	3.6	5.4	3.7	4.5	4.4	6.7	7.6	5.4	3.8	3.9	5.6	6.2	5.0	3.4	3.6	3.1	3.8	3.2	4.4	0.5	7.6	3.7				
Aug 24	5.3	4.9	5.3	2.9	5.4	5.6	5.6	2.1	4.9	9.5	9.8	10.2	8.7	10.3	11.0	9.6	9.9	8.0	8.1	7.2	8.9	11.1	8.6	10.3	2.1	11.1	6.5				
Aug 25	12.4	5.0	3.9	3.4	2.6	2.4	2.6	3.1	3.8	7.5	10.3	12.1	14.5	13.3	13.5	11.7	12.8	11.6	7.4	7.3	9.6	7.9	10.2	3.2	2.4	14.5	7.4				
Aug 26	5.5	10.2	9.6	7.5	8.6	10.4	8.5	9.0	8.6	9.8	13.6	11.7	13.3	13.1	10.3	11.5	10.7	8.9	12.6	6.8	1.9	3.8	6.8	7.9	1.9	13.6	5.7				
Aug 27	8.1	6.0	3.5	2.6	4.2	4.7	5.7	6.6	9.3	8.6	9.5	11.1	11.0	11.0	9.7	9.7	14.2	10.6	8.2	3.4	0.9	4.8	5.9	4.0	0.9	14.2	6.2				
Aug 28	5.4	1.8	4.4	4.0	4.7	6.5	7.6	8.5	9.4	13.1	14.4	15.5	13.2	11.9	11.0	9.7	7.9	8.2	7.6	6.0	7.0	8.0	7.4	7.8	1.8	15.5	7.5				
Aug 29	8.8	9.2	8.7	8.9	8.6	7.4	8.2	7.2	10.2	11.5	13.8	11.3	13.7	16.4	13.4	12.1	9.2	7.2	11.7	7.0	6.9	6.5	6.4	6.0	6.0	16.4	8.1				
Aug 30	6.7	10.5	8.3	9.5	9.8	9.1	13.1	16.3	11.0	16.5	22.9	23.6	19.4	16.4	19.8	23.5	20.7	14.9	13.7	9.9	9.5	6.7	7.4	4.5	4.5	23.6	12.3				
Aug 31	8.2	7.1	1.9	6.4	10.8	12.8	9.8	8.1	9.5	9.8	9.0	8.6	11.7	12.7	13.5	16.5	19.1	15.8	12.6	12.3	10.6	15.5	12.0	10.2	1.9	19.1	10.0				
Diurnal Maximum	14	17	20	15	16	16	19	22	20	21	23	24	20	22	23	24	21	16	15	23	30	17	13	14							
Diurnal Average	7.2	7.3	6.9	6.7	6.3	7.0	7.3	7.6	9.5	11.2	11.8	12.0	12.1	11.7	11.6	11.8	11.3	10.4	9.1	7.9	7.4	7.3	7.4	6.7							
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance														
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							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.

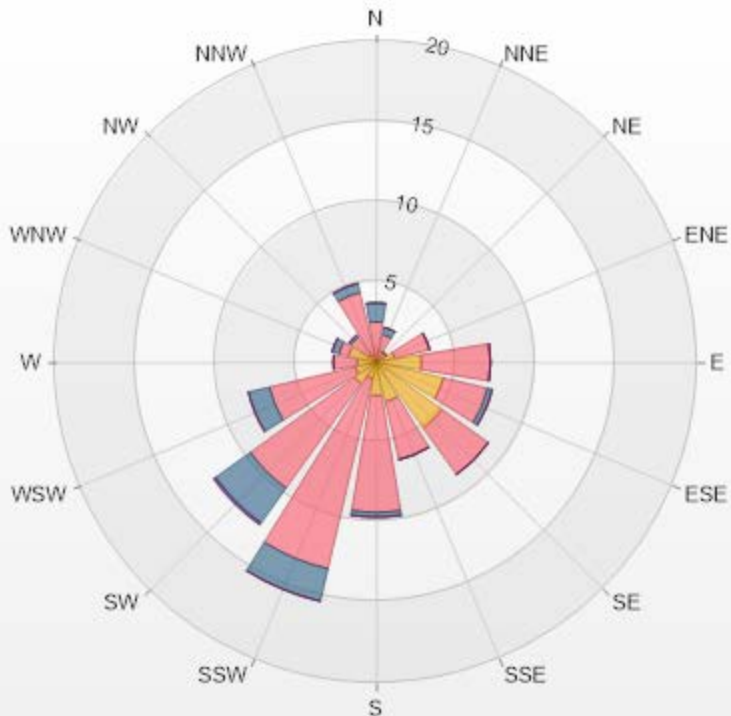
Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 08-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.

Calm: 2.37% Valid Data: 90.59%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.15	2.37	1.19	0	0	3.71
NNE	0.74	1.04	0.45	0	0	2.23
NE	0.15	0.59	0	0	0	0.74
ENE	1.19	2.23	0	0	0	3.42
E	2.82	4.3	0	0	0	7.12
ESE	4.3	2.82	0.3	0	0	7.42
SE	5.04	3.56	0	0	0	8.6
SSE	2.52	3.71	0	0	0	6.23
S	2.08	7.27	0.3	0	0	9.65
SSW	1.04	12.17	2.08	0	0	15.29
SW	1.63	8.01	2.67	0.15	0	12.46
WSW	1.34	5.49	1.34	0	0	8.17
W	1.19	1.48	0	0	0	2.67
WNW	1.78	0.59	0.45	0	0	2.82
NW	0.59	1.34	0.15	0	0	2.08
NNW	0.45	4.01	0.59	0	0	5.05
Summary	27.01	60.98	9.52	0.15	0	97.66



PRAMP-202208

% Icon Classes (KPH)

27

1.8-6.0

61

6.0-15.0

10

15.0-29.0

0

29.0-39.0

0

>39.0



PEACE RIVER AREA MONITORING PROGRAM

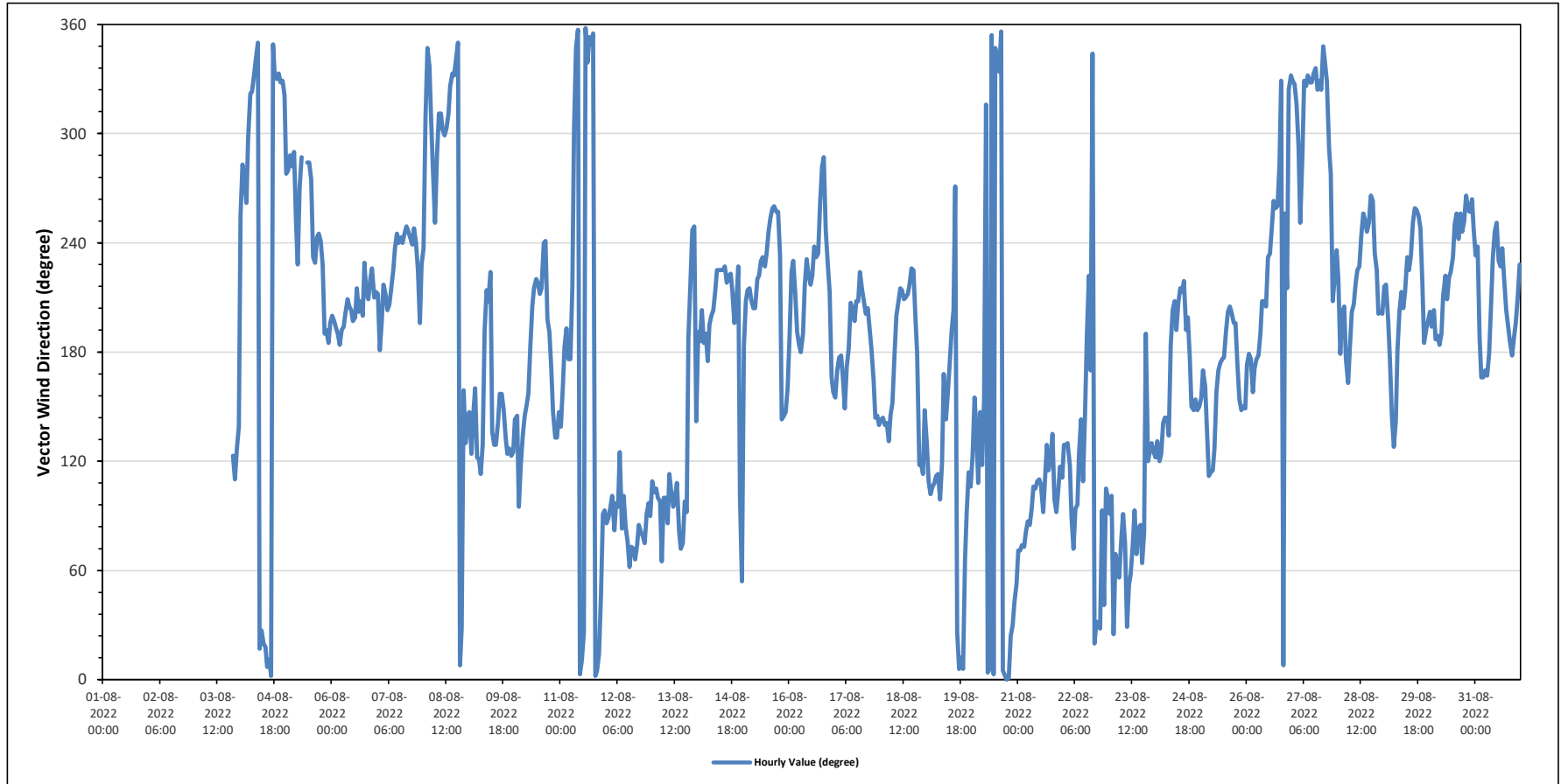
986c Station - August 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average: 202 (SSW) degree										Hours in Service: 744																						
										Hours of Data: 674																						
										Hours of Missing Data: 68																						
										Hours of Calibration: 2																						
										Operational Uptime: 90.9																						
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						
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-						
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-						
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-						
Aug 4	WSW	W	W	W	WNW	NW	NW	NNW	NNW	N	NNE	NNE	NNE	NNE	N	NNE	N	NNW	NNW	NNW	NNW	NNW	NNW	NW	348	NNW						
Aug 5	W	W	WNW	W	WNW	WSW	SW	W	WNW	C	C	WNW	WNW	W	SW	SW	WSW	WSW	WSW	WSW	SW	S	S	S	234	SW						
Aug 6	SSW	SSW	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SSW	SSW	204	SSW						
Aug 7	SSW	S	SSW	SW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SSW	231	SW						
Aug 8	SW	NW	NNW	NNW	NW	W	WSW	WNW	NW	NW	WNW	WNW	WNW	NW	NNW	NNW	NNW	N	N	NNE	SSE	SE	SE	SE	318	NW						
Aug 9	SE	ESE	SE	SSE	ESE	ESE	ESE	SE	S	SSW	SSW	SW	SE	SE	SE	SE	SSE	SSE	SE	SE	ESE	SE	ESE	SE	145	SE						
Aug 10	SE	SE	E	ESE	SE	SE	SSE	SSE	S	SSW	SSW	SW	SW	SSW	SSW	WSW	WSW	SSW	S	SSE	SE	SE	SE	SE	179	S						
Aug 11	SE	SSE	S	S	S	S	SW	WNW	NNW	N	N	NNE	NNE	N	NNW	N	NNW	N	N	NNE	NE	E	E	E	3	N						
Aug 12	E	E	E	E	E	E	E	E	SE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	E	E	ENE	E	E	E	83	E						
Aug 13	ESE	ESE	ESE	E	E	ENE	E	E	ESE	ESE	E	E	ESE	E	ENE	ENE	ENE	E	E	S	SW	WSW	WSW	SE	131	SE						
Aug 14	S	S	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	211	SSW						
Aug 15	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SE	SE	SE	225	SW						
Aug 16	S	SW	SW	SSW	S	S	S	S	SW	SW	SW	SW	SW	SW	SW	SW	W	W	WNW	WSW	SW	SSW	SSE	SSE	221	SW						
Aug 17	SSE	SSE	S	S	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SE	SE	SE	189	S					
Aug 18	SE	SE	SE	SE	SE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	ESE	ESE	ESE	ESE	SE	188	S						
Aug 19	SE	ESE	E	ESE	ESE	ESE	ESE	E	ESE	SSE	SE	SSE	S	S	SSW	W	NNE	N	NNE	N	ENE	E	ESE	ESE	125	SE						
Aug 20	ESE	SSE	SE	ESE	SE	ESE	SSE	NW	N	N	N	N	NNW	NNW	NNW	N	N	N	N	N	NNE	NNE	NE	NE	9	N						
Aug 21	ENE	ENE	ENE	ENE	E	E	E	E	ESE	ESE	ESE	ESE	ESE	E	ESE	SE	ESE	ESE	SE	E	E	ESE	ESE	ESE	99	E						
Aug 22	SE	SE	SE	ESE	E	ENE	E	E	SE	SE	ESE	SE	S	SSW	SSE	NNW	NNE	NNE	NNE	NNE	E	NE	ESE	E	102	E						
Aug 23	E	E	NNE	ENE	ENE	NE	ENE	E	ENE	NNE	NE	ENE	ENE	E	ENE	E	E	ENE	E	S	ESE	SE	SE	SE	82	E						
Aug 24	ESE	SE	ESE	ESE	SE	SE	SE	SE	S	SSW	SSW	S	SSW	SSW	SSW	SSW	S	SSW	S	SSE	SE	SE	SE	SSE	175	S						
Aug 25	SSE	SSE	SSE	SE	ESE	ESE	ESE	SE	SSE	SSE	S	S	S	S	SSW	SSW	SSW	SSW	SSW	S	SSE	SE	SSE	SSE	174	S						
Aug 26	S	S	S	SSE	S	S	S	S	SSW	SSW	SSW	SW	SW	WSW	W	WSW	WSW	W	NNW	N	WSW	SSW	NW	NNW	227	SW						
Aug 27	NNW	NW	NW	WNW	WSW	WNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	W	SSW	SW	SW	321	NW						
Aug 28	SW	S	SSW	SSW	S	SSE	S	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	SW	SSW	SSW	SSW	SSW	224	SW						
Aug 29	SW	SW	SSW	S	SE	SE	SE	S	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	S	S	213	SSW						
Aug 30	SSW	SSW	SSW	S	S	S	S	SSW	SW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	229	SW						
Aug 31	SW	SW	S	SSE	SSE	SSE	SSE	S	SSW	SW	WSW	WSW	SW	SW	SSW	SSW	SSW	S	S	S	SSW	SSW	SW	206	SSW							
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 (Machine 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 VWD - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

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

WIND SPEED																												
Maximum Hourly Value: 30.3 kph on August 13 at hour 20													Hours in Service: 744															
Maximum Daily Value: 14.1 kph on August 6													Hours of Data: 674															
Minimum Hourly Value: 0.2 kph on August 14 at hour 21													Hours of Missing Data: 68															
Minimum Daily Value: 3.2 kph on August 19													Hours of Calibration: 2															
Monthly Average: 3.3 kph													Operational Uptime: 90.9															
WIND DIRECTION																												
Monthly Average: 202 (SSW) 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				
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 3	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2.9	4.5	4.9	2.8
Aug 4	4.0	5.8	3.7	4.2	3.1	6.7	9.8	12.9	13.9	14.3	14.1	11.9	14.9	15.3	15.6	16.8	12.3	12.4	6.5	11.6	10.8	7.5	7.5	3.7	3.1	16.8	8.7	
Aug 5	2.1	2.8	3.0	3.0	2.2	1.9	3.9	4.3	4.5	C	C	6.0	5.5	4.8	9.5	10.2	9.3	11.0	10.8	7.6	9.3	10.7	12.3	12.7	1.9	12.7	5.5	
Aug 6	14.3	16.8	15.5	14.5	15.5	15.7	18.9	22.3	20.0	18.5	16.0	11.5	15.7	14.9	11.2	7.7	8.4	14.2	11.0	11.1	12.9	11.1	11.8	14.0	7.7	22.3	14.1	
Aug 7	10.5	9.0	9.4	6.6	6.2	9.8	10.2	10.5	12.1	12.0	10.9	13.6	12.9	14.4	16.3	19.0	18.4	15.0	6.2	6.6	6.2	7.9	1.5	7.3	1.5	19.0	10.1	
Aug 8	6.6	7.7	20.0	13.0	5.1	5.6	5.2	7.7	12.7	14.8	15.7	17.1	17.6	15.8	13.6	16.5	14.6	13.0	10.1	5.7	1.7	4.8	4.3	3.6	1.7	20.0	8.5	
Aug 9	3.7	3.9	3.8	4.0	5.6	5.5	3.9	2.7	3.9	7.3	8.1	6.6	3.2	5.6	3.1	7.3	9.2	8.7	8.5	10.8	12.2	11.9	10.1	6.8	2.7	12.2	5.6	
Aug 10	12.2	11.1	6.1	6.9	7.0	7.9	7.3	5.7	6.7	9.2	10.2	9.6	11.9	12.6	11.6	7.8	6.9	8.1	6.7	6.8	6.1	4.8	5.5	4.3	4.3	12.6	6.2	
Aug 11	2.7	4.6	6.2	5.3	6.5	8.5	5.3	8.8	20.4	21.0	21.3	19.2	16.1	16.3	20.5	18.7	14.8	15.0	14.9	11.2	6.8	7.0	7.9	9.6	2.7	21.3	7.7	
Aug 12	9.2	7.4	8.0	5.2	5.4	5.7	5.4	3.1	8.0	10.6	10.2	10.6	11.4	11.8	12.8	14.0	13.9	13.8	12.4	9.2	11.0	11.3	10.1	7.2	3.1	14.0	9.3	
Aug 13	7.3	8.0	8.1	7.1	7.5	5.7	4.9	4.7	4.9	3.9	7.7	4.5	2.6	1.0	2.8	6.8	9.7	10.5	11.3	23.0	30.3	16.5	4.9	8.0	1.0	30.3	4.4	
Aug 14	12.1	8.3	9.0	10.0	7.9	8.7	9.7	9.8	10.7	16.2	16.1	17.4	19.8	21.9	23.4	21.4	16.2	12.6	12.3	10.6	4.8	0.2	5.0	1.8	0.2	23.4	11.1	
Aug 15	6.0	9.3	7.7	9.0	9.5	8.2	7.8	11.6	13.2	13.5	14.5	15.1	16.2	13.5	12.4	11.4	12.1	9.3	5.5	3.9	2.6	4.1	5.4	6.6	2.6	16.2	8.4	
Aug 16	4.9	7.6	3.3	6.3	8.0	6.5	5.2	6.0	11.7	13.7	15.5	18.4	14.2	13.6	13.6	11.3	6.6	6.8	5.1	3.8	2.5	2.5	6.6	4.3	2.5	18.4	7.4	
Aug 17	5.1	5.8	6.4	6.4	7.3	5.9	8.0	6.0	9.6	10.6	9.7	14.4	13.6	10.5	10.6	10.9	10.4	9.3	9.4	5.7	7.7	4.6	6.9	6.0	4.6	14.4	7.7	
Aug 18	6.6	7.6	7.2	6.2	1.8	3.6	3.7	7.1	9.1	9.9	8.8	10.0	12.5	13.1	12.7	10.2	9.8	8.3	7.1	5.2	2.4	5.1	5.6	8.1	1.8	13.1	6.2	
Aug 19	4.8	7.5	5.9	5.6	5.3	5.4	6.2	5.4	2.4	4.0	3.1	8.2	10.6	7.7	6.4	2.7	0.9	6.1	5.5	1.1	1.3	2.3	6.1	5.2	0.9	10.6	3.2	
Aug 20	2.5	2.7	2.2	5.6	0.3	3.8	2.2	2.5	8.4	11.0	8.6	13.0	14.1	12.1	12.1	17.0	15.8	14.6	12.5	10.6	9.8	11.3	13.3	8.0	0.3	17.0	7.2	



PEACE RIVER AREA MONITORING PROGRAM

986c Station - August 2022

Summary of Hourly Averages

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

WIND SPEED					
Maximum Hourly Value:	30.3 kph on August 13 at hour 20				
Maximum Daily Value:	14.1 kph on August 6				
Minimum Hourly Value:	0.2 kph on August 14 at hour 21				
Minimum Daily Value:	3.2 kph on August 19				
Monthly Average:	3.3 kph				
Hours in Service:	744				
Hours of Data:	674				
Hours of Missing Data:	68				
Hours of Calibration:	2				
Operational Uptime:	90.9				
WIND DIRECTION					
Monthly Average:	202 (SSW) degree				
Day	Hourly Period Starting at (MST)	Daily Minimum	Daily Maximum	Daily Average	
Aug 21	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	9.1	18.7	11.2	
Aug 22	ENE ENE ENE ENE E E E E ESE ESE ESE ESE ESE E ESE SE ESE ESE SE E E ESE ESE ESE	1.1	8.9	3.3	
Aug 23	SE SE SE ESE E ENE E E SE SE ESE SE S SW SSE NNW NNE NNE NNE NNE E NE ESE E	0.5	7.6	3.7	
Aug 24	5.2 3.3 0.5 5.1 0.6 3.6 5.4 3.7 4.5 4.4 6.7 7.6 5.4 3.8 3.9 5.6 6.2 5.0 3.4 3.6 3.1 3.8 3.2 4.4	2.1	11.1	6.5	
Aug 25	E E NNE ENE ENE NE ENE E ENE NNE NE ENE ENE E ENE E E ENE E S ESE SE SE SE	2.4	14.5	7.4	
Aug 26	5.3 4.9 5.3 2.9 5.4 5.6 5.6 2.1 4.9 9.5 9.8 10.2 8.7 10.3 11.0 9.6 9.9 8.0 8.1 7.2 8.9 11.1 8.6 10.3	1.9	13.6	5.7	
Aug 27	ESE SE ESE ESE SE SE SE SE S SSW SSW S SSW SSW S SSW SSW SSW SSW S S S S SSW SSW SSW SSW	0.9	14.2	6.2	
Aug 28	12.4 5.0 3.9 3.4 2.6 2.4 2.6 3.1 3.8 7.5 10.3 12.1 14.5 13.3 13.5 11.7 12.8 11.6 7.4 7.3 9.6 7.9 10.2 3.2	1.8	15.5	7.5	
Aug 29	SSE SSE SSE SE ESE ESE ESE SE SSE SSE S S S S SSW SSW SSW SSW SSW S S S S SSW SSW SSW SSW	6.0	16.4	8.1	
Aug 30	5.5 10.2 9.6 7.5 8.6 10.4 8.5 9.0 8.6 9.8 13.6 11.7 13.3 13.1 10.3 11.5 10.7 8.9 12.6 6.8 1.9 3.8 6.8 7.9	4.5	23.6	12.3	
Aug 31	S S S S S S S S S SSW SSW SSW SW SW WSW W WSW WSW W NNW N WSW SSW NW NNW	1.9	19.1	10.0	
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.

842b STATION



PEACE RIVER AREA MONITORING PROGRAM

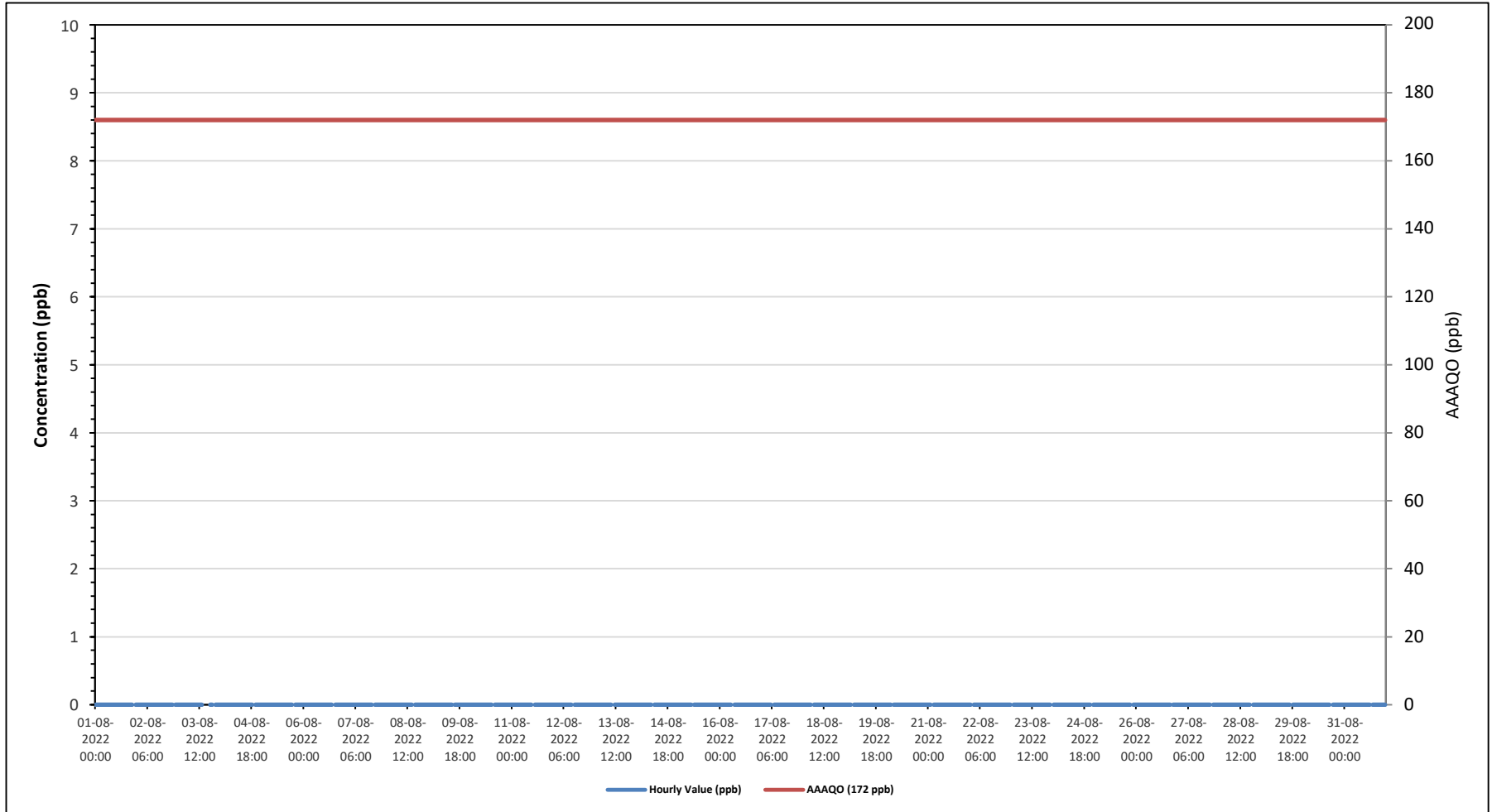
842b Station - August 2022

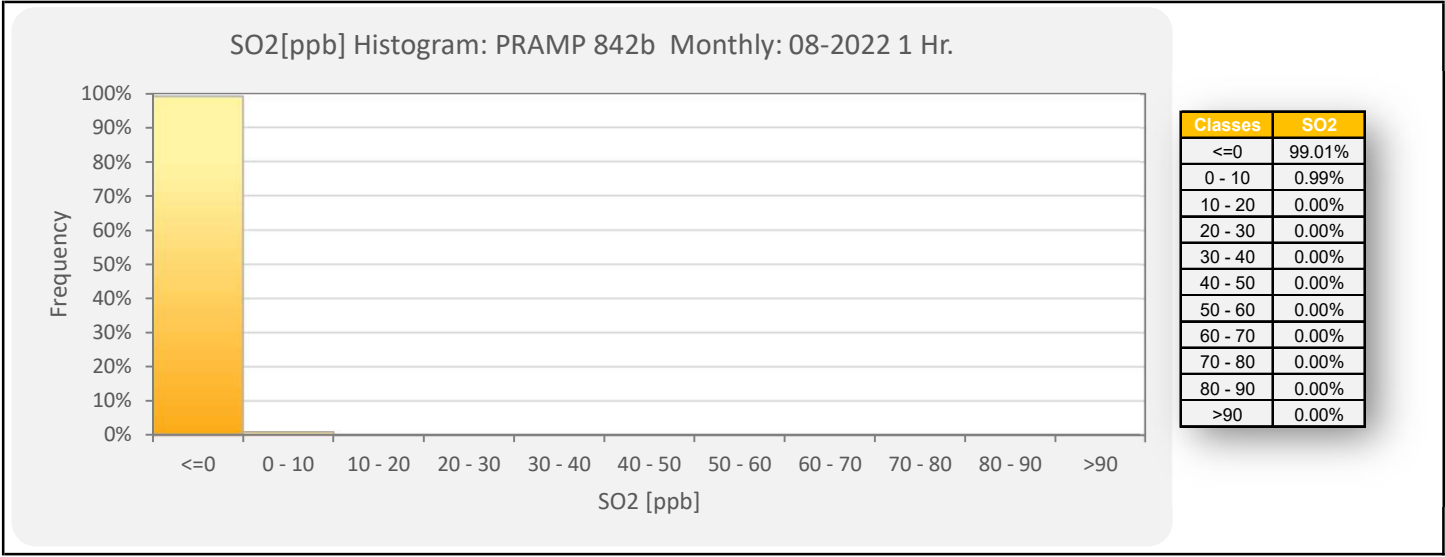
Summary of Hourly Averages

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 August 1 at hour 0										Hours in Service: 744																
Maximum Daily Value: 0.0 ppb on August 1										Hours of Data: 708																
Minimum Hourly Value: 0 ppb on August 1 at hour 0										Hours of Missing Data: 0																
Minimum Daily Value: 0.0 ppb on August 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			
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug 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	
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug 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	
Aug 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	
Aug 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	
Aug 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 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	
Aug 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
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	
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.																										

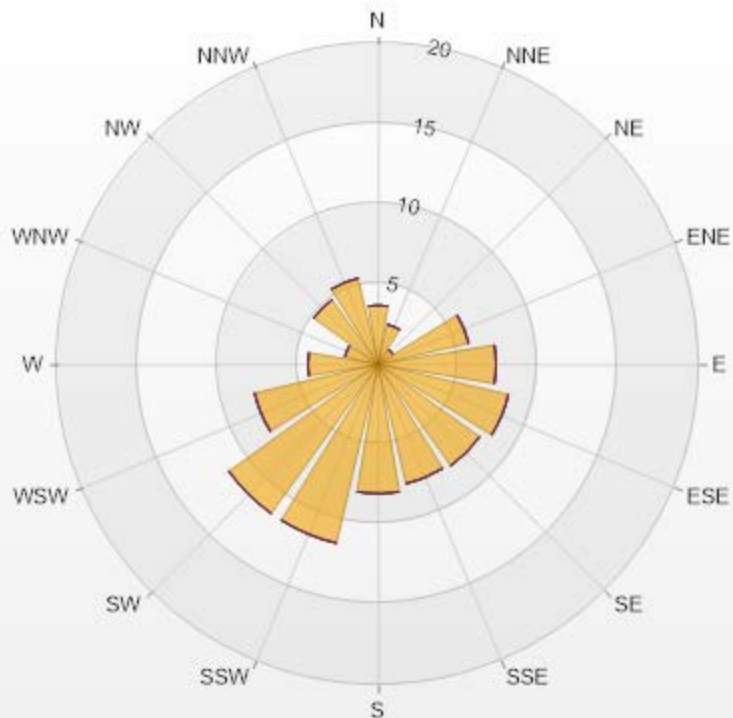
Timeseries Chart of Hourly Average for SO2 - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	3.67	0	0	0	0	3.67
NNE	2.54	0	0	0	0	2.54
NE	1.13	0	0	0	0	1.13
ENE	5.79	0	0	0	0	5.79
E	7.34	0	0	0	0	7.34
ESE	8.33	0	0	0	0	8.33
SE	7.77	0	0	0	0	7.77
SSE	7.63	0	0	0	0	7.63
S	8.05	0	0	0	0	8.05
SSW	11.44	0	0	0	0	11.44
SW	11.44	0	0	0	0	11.44
WSW	7.91	0	0	0	0	7.91
W	4.38	0	0	0	0	4.38
WNW	2.12	0	0	0	0	2.12
NW	4.94	0	0	0	0	4.94
NNW	5.51	0	0	0	0	5.51
Summary	100	0	0	0	0	100



PRAMP-202208

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% 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 - August 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

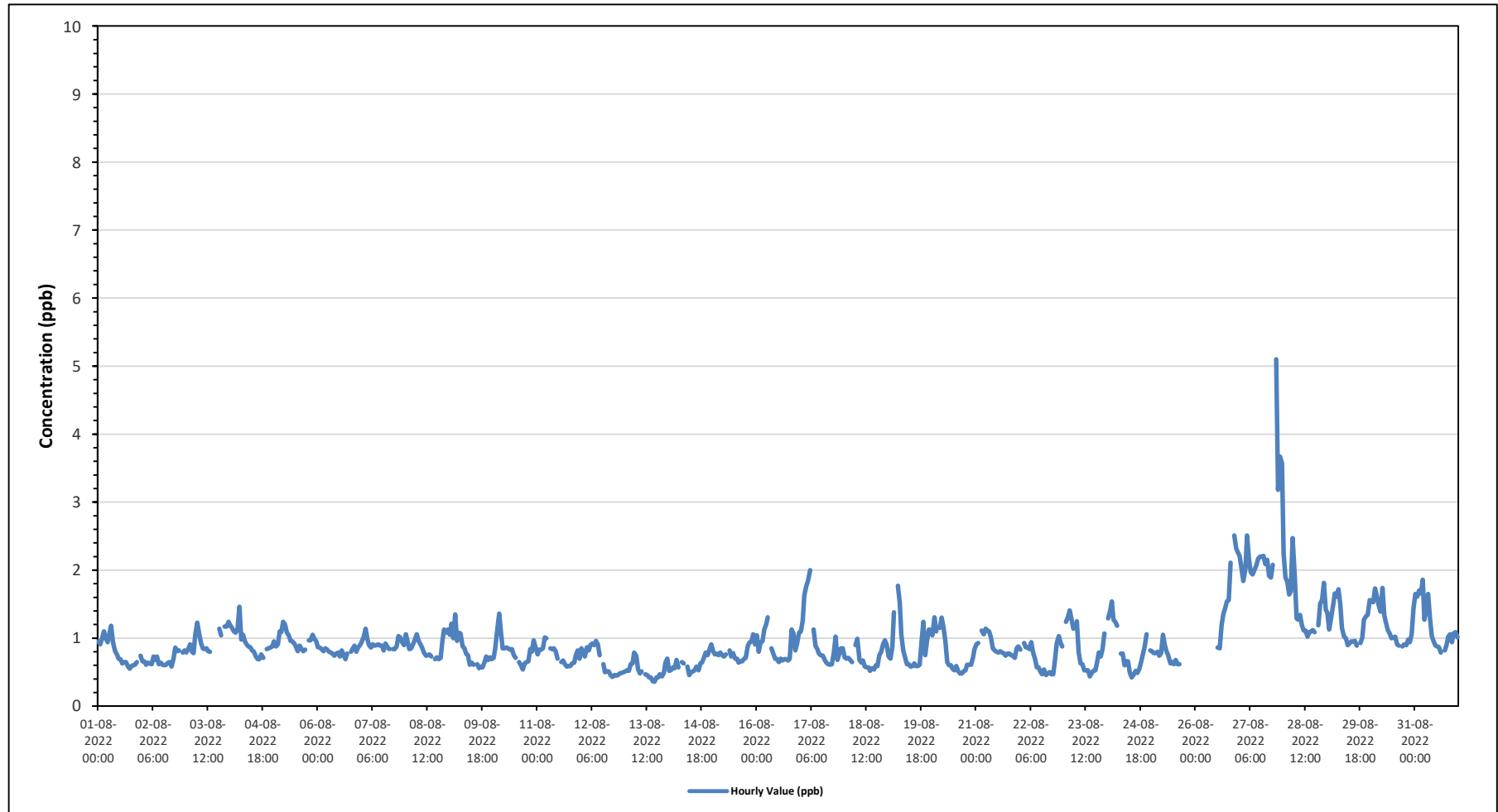
Maximum Hourly Value:	5.10 ppb on August 27 at hour 20	Hours in Service:	744
Maximum Daily Value:	2.40 ppb on August 27	Hours of Data:	685
Minimum Hourly Value:	0.36 ppb on August 13 at hour 16	Hours of Missing Data:	24
Minimum Daily Value:	0.52 ppb on August 13	Hours of Calibration:	35
Monthly Average:	0.94 ppb	Operational Uptime:	96.8

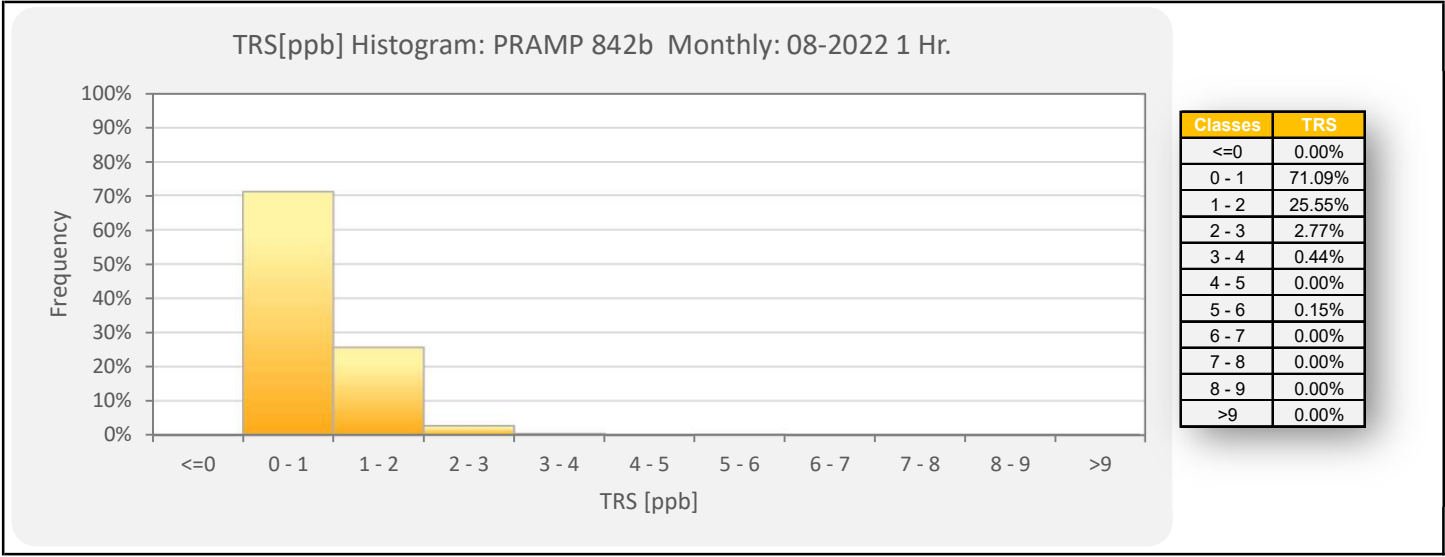
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Aug 1	0.95	0.91	1.01	1.1	1	0.94	1.08	1.18	0.94	0.81	0.76	0.7	0.69	0.63	0.65	0.65	0.59	0.55	0.59	0.6	0.61	0.65	S	0.74	0.55	1.18	0.80
Aug 2	0.66	0.66	0.61	0.64	0.63	0.62	0.73	0.68	0.73	0.62	0.64	0.61	0.6	0.61	0.64	0.65	0.58	0.69	0.86	0.81	0.82	S	0.79	0.82	0.58	0.86	0.68
Aug 3	0.79	0.83	0.91	0.8	0.78	1.07	1.23	1.07	0.93	0.85	0.84	0.85	0.81	0.8	C	C	C	C	1.14	1.04	S	1.17	1.17	1.24	0.78	1.24	0.96
Aug 4	1.19	1.15	1.1	1.08	1.14	1.46	0.98	1.05	0.96	0.91	0.88	0.87	0.82	0.8	0.73	0.69	0.69	0.76	0.71	S	0.84	0.85	0.86	0.88	0.69	1.46	0.93
Aug 5	0.95	0.88	0.91	1.1	1.09	1.24	1.2	1.08	1.04	0.96	0.95	0.92	0.88	0.81	0.89	0.84	0.81	0.83	S	0.97	0.97	1.05	0.99	0.95	0.81	1.24	0.97
Aug 6	0.87	0.86	0.84	0.81	0.85	0.83	0.8	0.79	0.77	0.74	0.77	0.79	0.73	0.82	0.75	0.69	0.77	S	0.8	0.85	0.89	0.8	0.87	0.9	0.69	0.90	0.81
Aug 7	0.95	1.02	1.14	0.98	0.9	0.86	0.91	0.89	0.9	0.91	0.89	0.89	0.82	0.92	0.87	0.84	S	0.84	0.84	0.88	1.03	1.01	0.94	0.9	0.82	1.14	0.92
Aug 8	1.06	0.96	0.84	0.85	0.92	0.98	1.06	0.96	0.91	0.86	0.79	0.74	0.75	0.76	0.73	S	0.69	0.72	0.69	0.71	0.97	1.13	1.08	1.13	0.69	1.13	0.88
Aug 9	1.05	1.21	1	1.35	0.96	1.08	1.07	0.88	0.85	0.77	0.75	0.61	0.64	0.61	S	0.62	0.56	0.58	0.57	0.64	0.73	0.68	0.72	0.69	0.56	1.35	0.81
Aug 10	0.71	0.85	1.1	1.36	1.07	0.85	0.85	0.86	0.85	0.83	0.84	0.75	0.71	S	0.65	0.6	0.54	0.63	0.65	0.66	0.84	0.8	0.97	0.87	0.54	1.36	0.82
Aug 11	0.76	0.83	0.83	0.85	1.01	1	NRM	0.85	0.84	0.85	0.81	0.7	S	0.65	0.67	0.62	0.58	0.59	0.59	0.63	0.64	0.75	0.82	0.7	0.58	1.01	0.75
Aug 12	0.85	0.8	0.73	0.87	0.82	0.9	0.92	0.9	0.96	0.91	0.75	S	0.62	0.5	0.51	0.51	0.46	0.43	0.46	0.45	0.46	0.48	0.49	0.5	0.43	0.96	0.66
Aug 13	0.51	0.53	0.52	0.62	0.63	0.79	0.74	0.54	0.48	0.51	S	0.47	0.46	0.42	0.42	0.37	0.36	0.42	0.42	0.47	0.44	0.49	0.64	0.7	0.36	0.79	0.52
Aug 14	0.52	0.53	0.57	0.56	0.68	0.57	NRM	0.65	0.63	S	0.58	0.46	0.5	0.51	0.53	0.58	0.53	0.63	0.64	0.71	0.79	0.75	0.83	0.91	0.46	0.91	0.62
Aug 15	0.81	0.76	0.77	0.75	0.79	0.75	0.73	0.76	S	0.82	0.73	0.78	0.7	0.7	0.64	0.66	0.66	0.7	0.71	0.89	0.94	0.95	1.06	0.91	0.64	1.06	0.78
Aug 16	1.04	0.8	0.94	0.95	1.13	1.2	1.31	S	0.85	0.76	0.7	0.69	0.65	0.7	0.67	0.69	0.69	0.67	0.7	1.13	1.07	0.82	0.93	1.08	0.65	1.31	0.88
Aug 17	1.1	1.26	1.63	1.76	1.85	2	S	1.13	0.89	0.84	0.77	0.75	0.74	0.68	0.64	0.62	0.61	0.62	0.78	1.02	0.68	0.77	0.85	0.85	0.61	2.00	0.99
Aug 18	0.72	0.7	0.71	0.68	0.65	S	0.9	0.99	0.68	0.64	0.67	0.58	0.57	0.57	0.52	0.56	0.54	0.6	0.59	0.75	0.8	0.91	0.97	0.9	0.52	0.99	0.70
Aug 19	0.73	0.7	0.87	1.38	S	1.77	1.52	1.05	0.82	0.72	0.62	0.62	0.58	0.59	0.63	0.59	0.59	0.61	0.98	1.24	0.75	0.97	1.13	1.12	0.58	1.77	0.89
Aug 20	1.04	1.31	1.1	S	1.15	1.3	1.16	0.96	0.65	0.6	0.6	0.55	0.53	0.59	0.52	0.48	0.48	0.51	0.53	0.61	0.61	0.61	0.71	0.84	0.48	1.31	0.76
Aug 21	0.91	0.93	S	1.11	1.06	1.14	1.11	1.1	1.01	0.85	0.82	0.8	0.79	0.81	0.79	0.78	0.74	0.77	0.77	0.75	0.74	0.71	0.85	0.88	0.71	1.14	0.88
Aug 22	0.83	S	0.93	0.87	0.87	0.84	0.94	0.79	0.7	0.57	0.57	0.51	0.47	0.54	0.46	0.48	0.5	0.47	0.47	0.66	0.92	1.03	0.93	0.88	0.46	1.03	0.71
Aug 23	S	1.24	1.31	1.41	1.28	1.14	NRM	1.25	0.79	0.63	0.62	0.53	0.53	0.53	0.44	0.48	0.52	0.53	0.66	0.79	0.73	0.84	1.07	S	0.44	1.41	0.82
Aug 24	1.29	1.39	1.54	1.27	1.24	1.18	NRM	0.77	0.77	0.6	0.66	0.66	0.49	0.42	0.47	0.52	0.49	0.54	0.64	0.76	0.88	1.06	S	0.82	0.42	1.54	0.84
Aug 25	0.81	0.78	0.78	0.8	0.74	0.78	1.05	0.9	0.81	0.74	0.63	0.65	0.62	0.68	0.62	0.62	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.62	1.05	-
Aug 26	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.86	0.85	1.19	1.36	1.43	1.54	1.56	2.11	S	2.51	2.32	2.26	0.85	2.51	-
Aug 27	2.21	2.03	1.84	2.02	2.51	2.18	1.97	1.94	1.99	2.07	2.17	2.2	2.2	2.21	2.09	2.15	1.92	1.89	2.08	S	5.1	3.18	3.67	3.57	1.84	5.10	2.40
Aug 28	2.24	1.89	1.83	1.64	1.69	2.47	1.92	1.29	1.27	1.34	1.19	1.11	1.11	1.02	1.09	1.1	1.12	1.09	S	1.19	1.51	1.56	1.81	1.42	1.02	2.47	1.47
Aug 29	1.37	1.13	1.32	1.49	1.66	1.61	1.72	1.49	1.15	1.02	1	0.9	0.92	0.95	0.95	0.96	0.89	S	0.93	1.01	1.27	1.32	1.34	1.56	0.89	1.72	1.22
Aug 30	1.54	1.53	1.73	1.61	1.48	1.39	1.74	1.33	1.21	1.12	1.07	1	1.01	1.02	0.91	0.89	S	0.88	0.91	0.9	0.98	0.94	1.06	1.44	0.88	1.74	1.20
Aug 31	1.65	1.61	1.7	1.66	1.86	1.27	1.42	1.65	1.3	1.03	0.95	0.89	0.88	0.87	0.79	S	0.82	0.89	1.02	1.06	0.94	1.07	1.09	1.01	0.79	1.86	1.19
Diurnal Maximum	2.24	2.03	1.84	2.02	2.51	2.47	1.97	1.94	1.99	2.07	2.17	2.20	2.20	2.21	2.09	2.15	1.92	1.89	2.08	2.11	5.10	3.18	3.67	3.57			
Diurnal Average	1.04	1.04	1.07	1.12	1.12	1.18	1.16	1.03	0.92	0.86	0.83	0.78	0.76	0.75	0.74	0.74	0.71	0.74	0.80	0.87	1.00	1.03	1.11	1.09			

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.

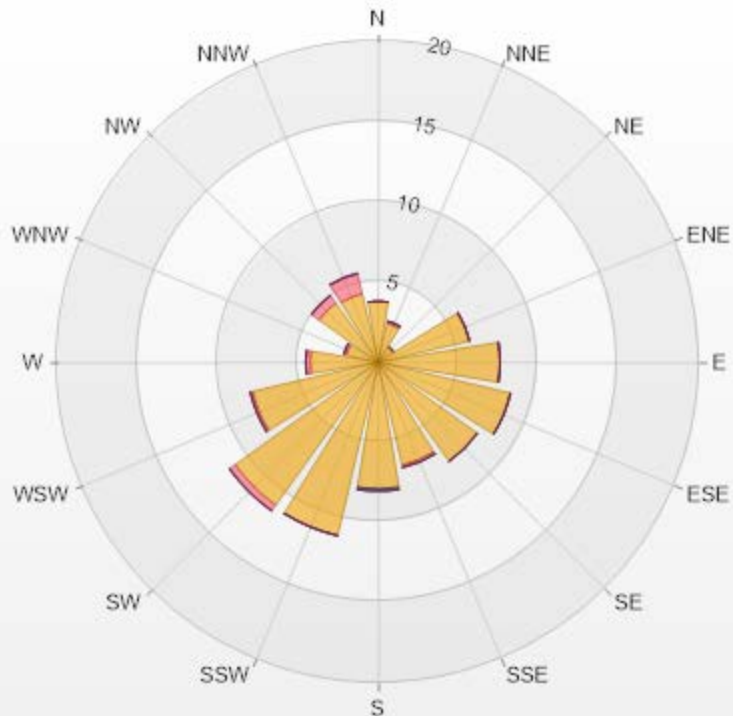
Timeseries Chart of Hourly Average for TRS - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 92.07% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.8	0	0	0	0	3.8
NNE	2.48	0.15	0	0	0	2.63
NE	1.17	0	0	0	0	1.17
ENE	5.84	0	0	0	0	5.84
E	7.59	0	0	0	0	7.59
ESE	8.47	0	0	0	0	8.47
SE	7.59	0	0	0	0	7.59
SSE	6.57	0.15	0	0	0	6.72
S	7.88	0	0.15	0	0	8.03
SSW	11.09	0	0	0	0	11.09
SW	10.95	0.44	0	0	0	11.39
WSW	8.03	0.15	0	0	0	8.18
W	4.23	0.29	0	0	0	4.52
WNW	2.04	0.15	0	0	0	2.19
NW	4.53	0.58	0	0	0	5.11
NNW	4.38	1.31	0	0	0	5.69
Summary	96.64	3.22	0.15	0	0	100



PRAMP-202208

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% Icon Classes (ppb)

97 0-2

3 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

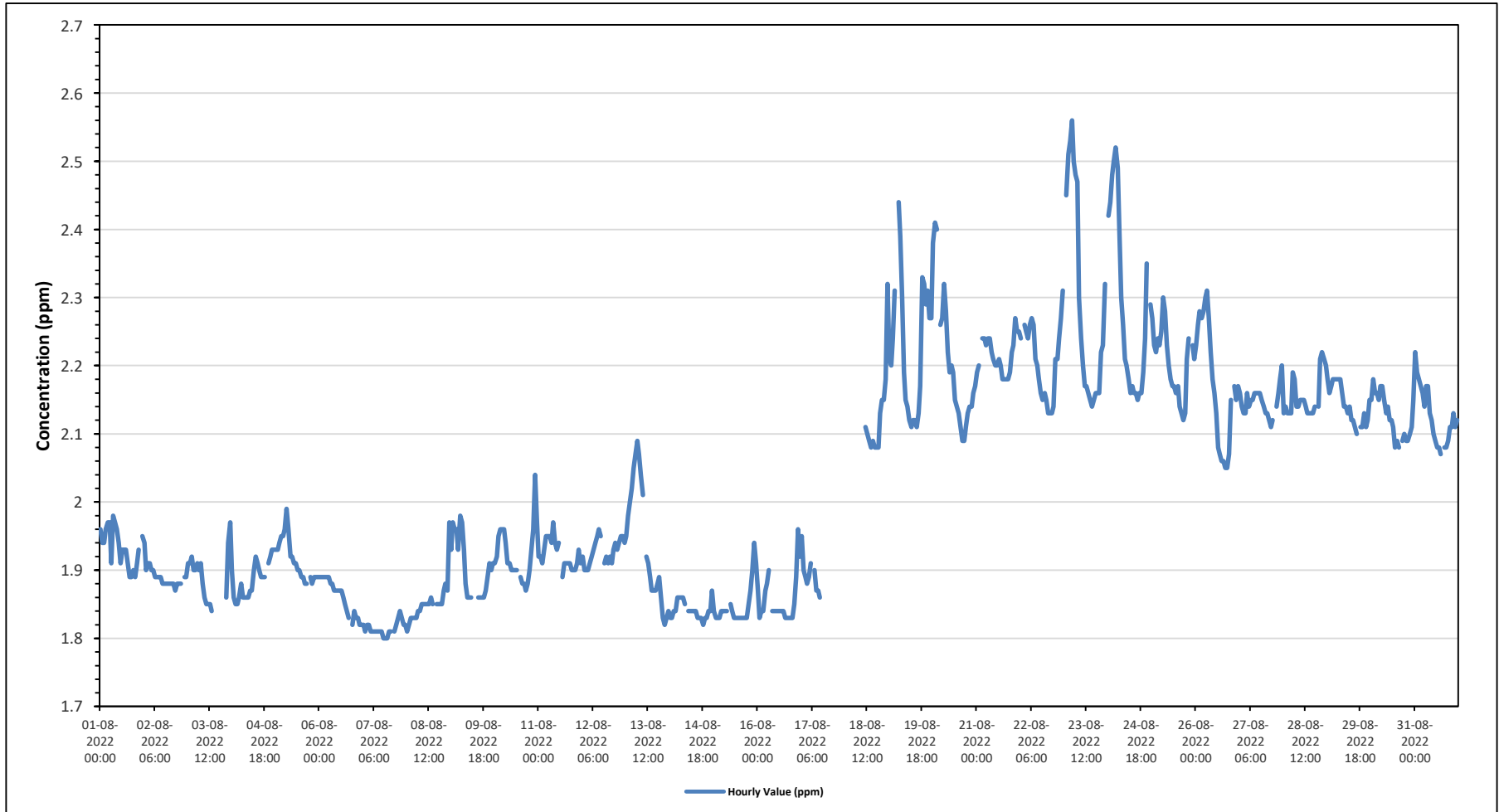
Maximum Hourly Value:	2.56 ppm on August 23 at hour 4	Hours in Service:	744
Maximum Daily Value:	2.29 ppm on August 23	Hours of Data:	682
Minimum Hourly Value:	1.80 ppm on August 7 at hour 11	Hours of Missing Data:	25
Minimum Daily Value:	1.81 ppm on August 7	Hours of Calibration:	37
Monthly Average:	2.03 ppm	Operational Uptime:	96.6

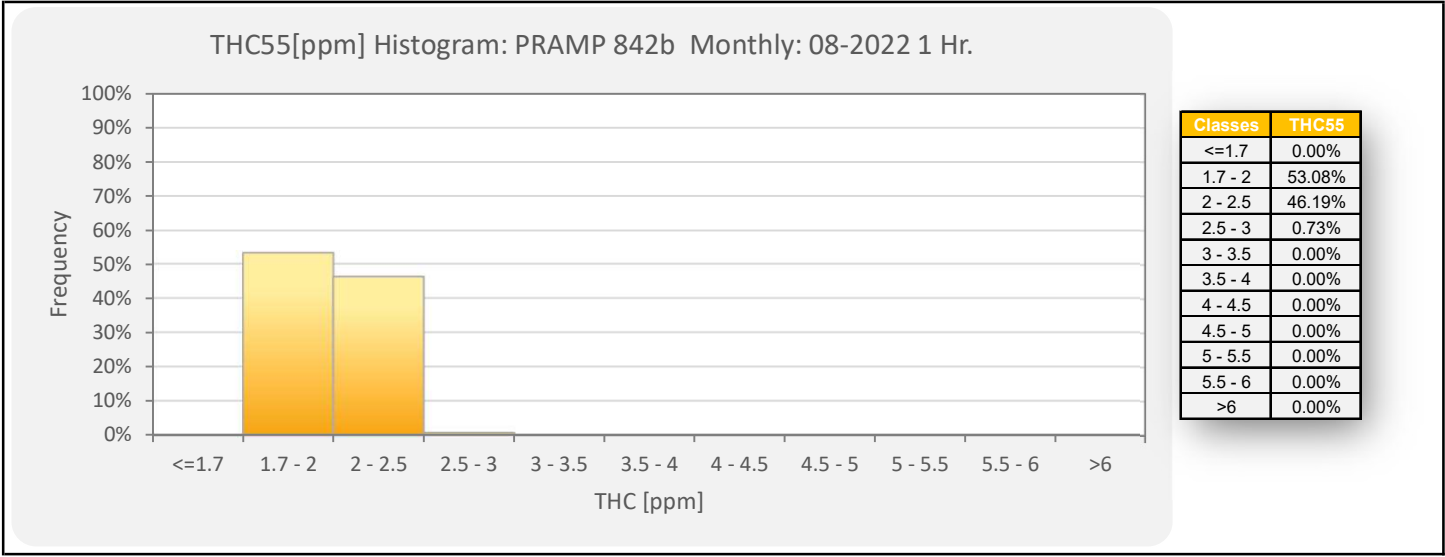
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Aug 1	1.96	1.94	1.94	1.96	1.97	1.97	1.91	1.98	1.97	1.96	1.94	1.91	1.93	1.93	1.93	1.91	1.89	1.89	1.90	1.89	1.91	1.93	S	1.95	1.89	1.98	1.93	
Aug 2	1.94	1.90	1.91	1.91	1.90	1.90	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.87	1.88	1.88	1.88	S	1.89	1.89	1.87	1.94	1.89
Aug 3	1.91	1.91	1.92	1.90	1.90	1.91	1.90	1.91	1.88	1.86	1.85	1.85	1.85	1.84	C	C	C	C	C	C	S	1.86	1.94	1.97	1.84	1.97	-	
Aug 4	1.90	1.86	1.85	1.85	1.86	1.88	1.86	1.86	1.86	1.86	1.87	1.87	1.90	1.92	1.91	1.90	1.89	1.89	1.88	1.88	S	1.91	1.92	1.93	1.93	1.85	1.93	1.89
Aug 5	1.93	1.93	1.94	1.95	1.95	1.96	1.99	1.96	1.92	1.92	1.91	1.91	1.90	1.90	1.89	1.89	1.88	1.88	S	1.89	1.88	1.89	1.88	1.89	1.89	1.88	1.99	1.92
Aug 6	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.86	1.85	1.84	1.83	S	1.82	1.84	1.83	1.83	1.82	1.82	1.82	1.82	1.89	1.86
Aug 7	1.82	1.81	1.82	1.82	1.81	1.81	1.81	1.81	1.81	1.81	1.80	1.80	1.80	1.81	1.81	S	1.81	1.82	1.83	1.84	1.83	1.82	1.82	1.82	1.80	1.84	1.81	
Aug 8	1.81	1.82	1.83	1.83	1.83	1.83	1.84	1.84	1.85	1.85	1.85	1.85	1.86	1.85	S	1.85	1.85	1.85	1.85	1.85	1.87	1.88	1.87	1.97	1.81	1.97	1.85	
Aug 9	1.93	1.97	1.96	1.96	1.93	1.98	1.97	1.93	1.88	1.86	1.86	1.86	NRM	1.86	S	1.86	1.86	1.86	1.86	1.87	1.89	1.91	1.90	1.91	1.86	1.98	1.90	
Aug 10	1.91	1.92	1.95	1.96	1.96	1.96	1.94	1.91	1.91	1.90	1.90	1.90	S	1.89	1.88	1.88	1.87	1.88	1.90	1.93	1.96	2.04	1.97	1.87	2.04	1.92	1.87	1.92
Aug 11	1.92	1.92	1.91	1.93	1.95	1.95	1.94	1.94	1.97	1.94	1.93	1.94	S	1.89	1.91	1.91	1.91	1.91	1.90	1.90	1.91	1.93	1.91	1.89	1.97	1.92	1.89	1.92
Aug 12	1.92	1.90	1.90	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.95	S	1.91	1.92	1.91	1.92	1.91	1.93	1.94	1.93	1.94	1.95	1.95	1.94	1.90	1.96	1.93	1.93
Aug 13	1.95	1.98	2.00	2.02	2.05	2.07	2.09	2.07	2.04	2.01	S	1.92	1.91	1.89	1.87	1.87	1.87	1.88	1.89	1.86	1.83	1.82	1.83	1.84	1.82	2.09	1.94	1.94
Aug 14	1.83	1.83	1.84	1.84	1.86	1.86	1.86	1.86	1.85	S	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.83	1.83	1.84	1.84	1.87	1.82	1.87	1.84	1.84
Aug 15	1.84	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84	S	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.85	1.87	1.90	1.94	1.91	1.83	1.94	1.85	1.85
Aug 16	1.87	1.83	1.84	1.84	1.87	1.88	1.90	S	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.85	1.89	1.96	1.92	1.83	1.96	1.86	1.86
Aug 17	1.95	1.90	1.89	1.88	1.89	1.91	S	1.90	1.87	1.87	1.86	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.86	1.95	-	-
Aug 18	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	2.11	2.10	2.09	2.08	2.09	2.08	2.08	2.08	2.13	2.15	2.15	2.18	2.32	2.08	2.32	-	-
Aug 19	2.21	2.20	2.24	2.31	S	2.44	2.39	2.30	2.19	2.15	2.14	2.12	2.11	2.12	2.12	2.11	2.13	2.17	2.33	2.32	2.29	2.31	2.27	2.27	2.11	2.44	2.23	2.27
Aug 20	2.38	2.41	2.40	S	2.26	2.27	2.32	2.28	2.22	2.19	2.20	2.19	2.15	2.14	2.13	2.11	2.09	2.09	2.11	2.13	2.14	2.14	2.16	2.17	2.09	2.41	2.20	2.22
Aug 21	2.19	2.20	S	2.24	2.24	2.23	2.24	2.24	2.22	2.21	2.20	2.20	2.21	2.20	2.18	2.18	2.18	2.18	2.19	2.22	2.23	2.27	2.25	2.25	2.18	2.27	2.22	2.22
Aug 22	2.24	S	2.26	2.25	2.24	2.26	2.27	2.26	2.21	2.20	2.18	2.16	2.15	2.16	2.15	2.13	2.13	2.13	2.14	2.21	2.21	2.24	2.27	2.31	2.13	2.31	2.21	2.21
Aug 23	S	2.45	2.51	2.53	2.56	2.50	2.48	2.47	2.30	2.24	2.20	2.17	2.17	2.16	2.15	2.14	2.15	2.16	2.16	2.16	2.22	2.23	2.32	S	2.14	2.56	2.29	2.29
Aug 24	2.42	2.44	2.48	2.50	2.52	2.49	2.40	2.30	2.26	2.21	2.20	2.18	2.16	2.17	2.16	2.16	2.15	2.16	2.16	2.19	2.24	2.35	S	2.29	2.15	2.52	2.29	2.29
Aug 25	2.27	2.23	2.22	2.24	2.23	2.25	2.30	2.28	2.23	2.20	2.18	2.17	2.17	2.16	2.17	2.14	2.13	2.12	2.13	2.21	2.24	S	2.23	2.21	2.12	2.30	2.20	2.20
Aug 26	2.23	2.26	2.28	2.27	2.28	2.30	2.31	2.27	2.22	2.18	2.16	2.13	2.08	2.07	2.06	2.06	2.05	2.05	2.07	2.15	S	2.17	2.15	2.17	2.05	2.31	2.17	2.17
Aug 27	2.16	2.14	2.13	2.13	2.16	2.14	2.15	2.15	2.16	2.16	2.16	2.16	2.15	2.14	2.13	2.13	2.12	2.11	2.12	S	2.14	2.16	2.18	2.20	2.11	2.20	2.15	2.15
Aug 28	2.13	2.14	2.13	2.13	2.13	2.19	2.18	2.14	2.14	2.15	2.15	2.15	2.14	2.13	2.13	2.13	2.13	2.13	2.14	S	2.14	2.21	2.22	2.21	2.20	2.13	2.22	2.15
Aug 29	2.18	2.16	2.17	2.18	2.18	2.18	2.18	2.18	2.16	2.14	2.14	2.13	2.14	2.12	2.12	2.11	2.10	S	2.11	2.13	2.11	2.12	2.15	2.10	2.18	2.14	2.14	2.14
Aug 30	2.15	2.18	2.16	2.16	2.15	2.17	2.17	2.15	2.13	2.14	2.12	2.12	2.11	2.08	2.09	2.08	S	2.09	2.10	2.09	2.09	2.10	2.11	2.15	2.08	2.18	2.13	2.13
Aug 31	2.22	2.19	2.18	2.17	2.16	2.14	2.17	2.17	2.13	2.12	2.10	2.09	2.08	2.08	2.07	S	2.08	2.08	2.09	2.11	2.11	2.13	2.11	2.12	2.07	2.22	2.13	2.13
Diurnal Maximum	2.42	2.45	2.51	2.53	2.56	2.50	2.48	2.47	2.30	2.24	2.20	2.20	2.21	2.20	2.18	2.18	2.18	2.18	2.33	2.32	2.29	2.35	2.32	2.32	2.07	2.44	2.23	2.27
Diurnal Average	2.04	2.04	2.05	2.05	2.05	2.07	2.07	2.06	2.03	2.02	2.00	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.03	2.04	2.05	2.07	2.07	2.07	2.07

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.

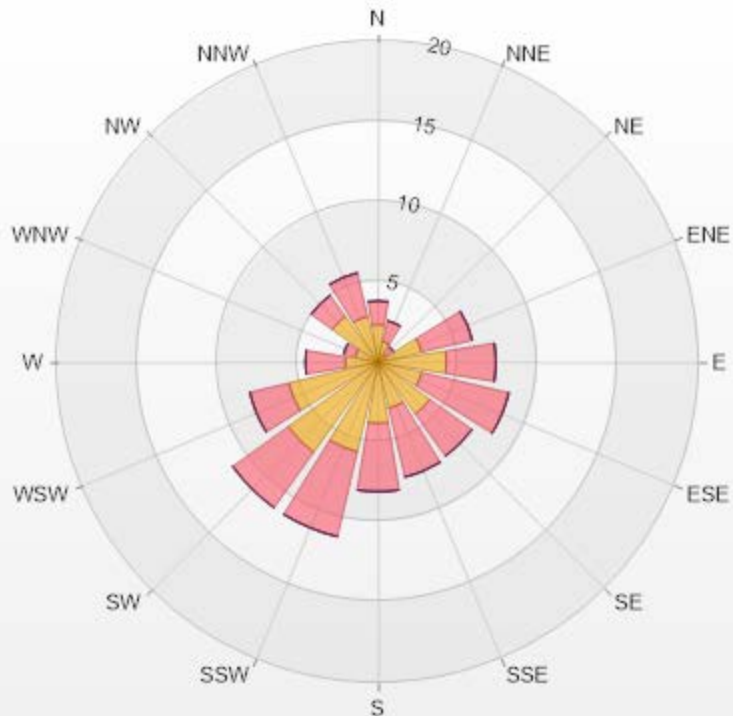
Timeseries Chart of Hourly Average for THC - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 91.67% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.35	1.47	0	0	0	3.82
NNE	1.32	1.32	0	0	0	2.64
NE	0.59	0.59	0	0	0	1.18
ENE	2.79	3.23	0	0	0	6.02
E	4.25	3.08	0	0	0	7.33
ESE	2.79	5.57	0	0	0	8.36
SE	3.96	3.23	0	0	0	7.19
SSE	2.93	4.4	0	0	0	7.33
S	3.81	4.25	0	0	0	8.06
SSW	5.72	5.43	0	0	0	11.15
SW	6.89	4.25	0	0	0	11.14
WSW	5.72	2.49	0	0	0	8.21
W	2.05	2.49	0	0	0	4.54
WNW	1.47	0.73	0	0	0	2.2
NW	3.52	1.61	0	0	0	5.13
NNW	2.93	2.79	0	0	0	5.72
Summary	53.09	46.93	0	0	0	100



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% Icon Classes (ppm)	53	0-2	47	2-5	0	5-10	0	10-40	0	>40.0
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PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

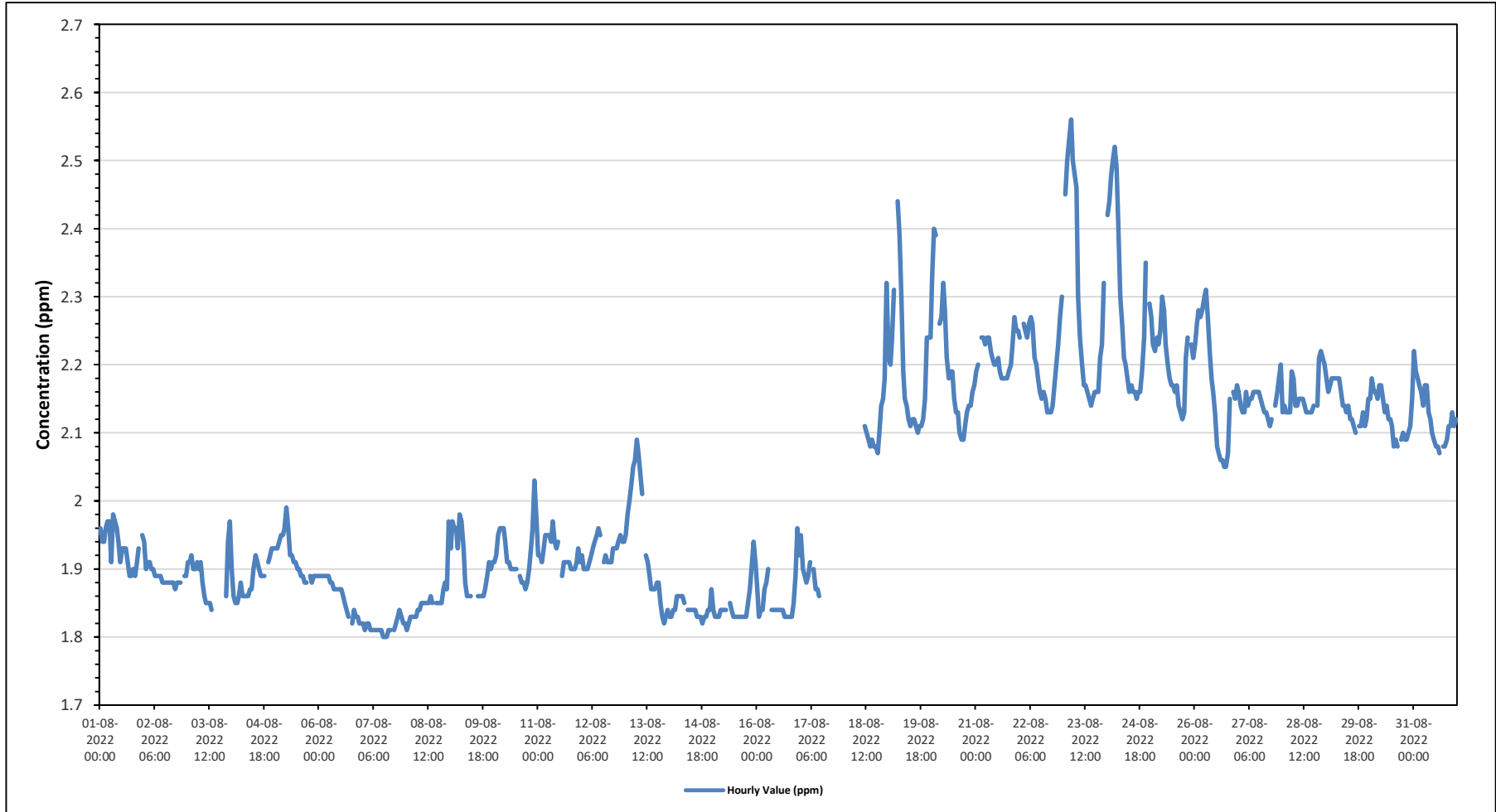
Maximum Hourly Value:	2.56 ppm on August 23 at hour 4	Hours in Service:	744
Maximum Daily Value:	2.29 ppm on August 23	Hours of Data:	682
Minimum Hourly Value:	1.80 ppm on August 7 at hour 11	Hours of Missing Data:	25
Minimum Daily Value:	1.81 ppm on August 7	Hours of Calibration:	37
Monthly Average:	2.02 ppm	Operational Uptime:	96.6

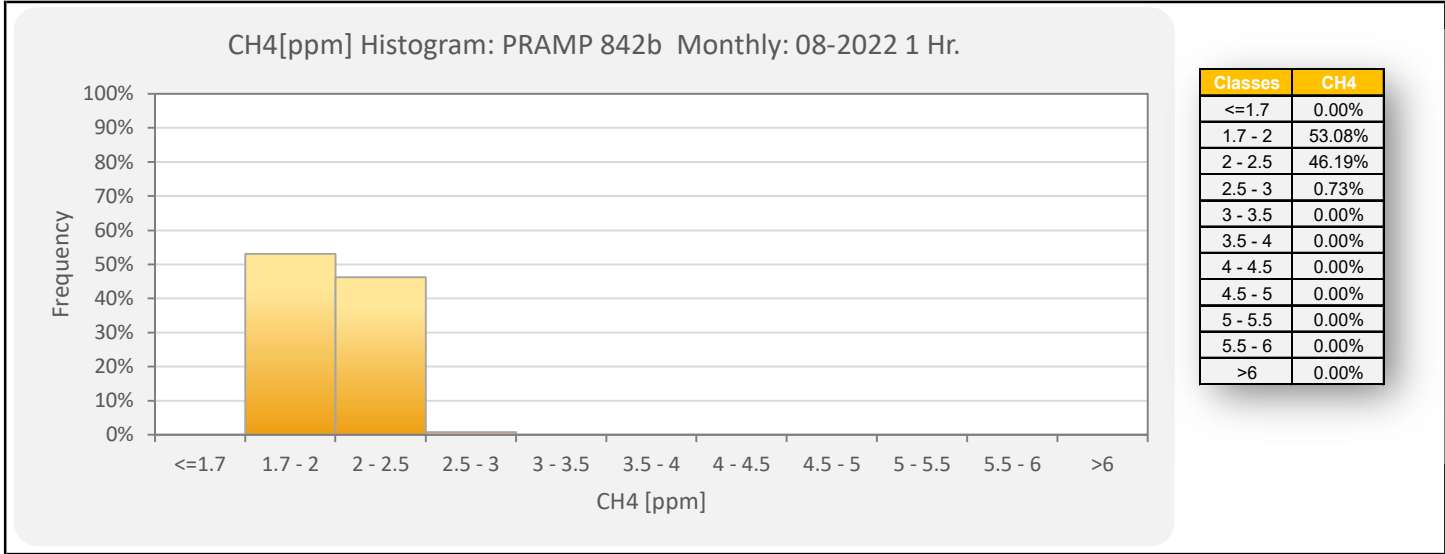
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Aug 1	1.96	1.94	1.94	1.96	1.97	1.97	1.91	1.98	1.97	1.96	1.94	1.91	1.93	1.93	1.93	1.91	1.89	1.89	1.90	1.89	1.91	1.93	S	1.95	1.89	1.98	1.93	
Aug 2	1.94	1.90	1.91	1.91	1.90	1.90	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.87	1.88	1.88	1.88	S	1.89	1.89	1.87	1.94	1.89
Aug 3	1.91	1.91	1.92	1.90	1.90	1.91	1.90	1.91	1.88	1.86	1.85	1.85	1.85	1.84	C	C	C	C	C	C	S	1.86	1.94	1.97	1.84	1.97	-	
Aug 4	1.90	1.86	1.85	1.85	1.86	1.88	1.86	1.86	1.86	1.86	1.87	1.87	1.90	1.92	1.91	1.90	1.89	1.89	1.88	1.88	S	1.91	1.92	1.93	1.93	1.85	1.93	1.89
Aug 5	1.93	1.93	1.94	1.95	1.95	1.96	1.99	1.96	1.92	1.92	1.91	1.91	1.90	1.90	1.89	1.89	1.88	1.88	S	1.89	1.88	1.89	1.88	1.89	1.89	1.88	1.99	1.92
Aug 6	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.86	1.85	1.84	1.83	S	1.82	1.84	1.83	1.83	1.82	1.82	1.82	1.82	1.89	1.86
Aug 7	1.82	1.81	1.82	1.82	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.80	1.80	1.80	1.81	1.81	S	1.81	1.82	1.83	1.84	1.83	1.82	1.82	1.80	1.84	1.81	
Aug 8	1.81	1.82	1.83	1.83	1.83	1.83	1.84	1.84	1.85	1.85	1.85	1.85	1.86	1.85	S	1.85	1.85	1.85	1.85	1.85	1.87	1.88	1.87	1.97	1.81	1.97	1.85	
Aug 9	1.93	1.97	1.96	1.96	1.93	1.98	1.97	1.93	1.88	1.86	1.86	1.86	NRM	1.86	S	1.86	1.86	1.86	1.86	1.87	1.89	1.91	1.90	1.91	1.86	1.98	1.90	
Aug 10	1.91	1.92	1.95	1.96	1.96	1.96	1.94	1.91	1.91	1.90	1.90	1.90	S	1.89	1.88	1.88	1.87	1.88	1.90	1.93	1.96	2.03	1.97	1.87	2.03	1.92	1.92	
Aug 11	1.92	1.92	1.91	1.93	1.95	1.95	1.94	1.94	1.97	1.94	1.93	1.94	S	1.89	1.91	1.91	1.91	1.91	1.90	1.90	1.91	1.93	1.91	1.89	1.97	1.92	1.92	
Aug 12	1.92	1.90	1.90	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.95	S	1.91	1.92	1.91	1.91	1.91	1.93	1.93	1.93	1.94	1.95	1.94	1.94	1.90	1.96	1.93	
Aug 13	1.95	1.98	2.00	2.02	2.05	2.06	2.09	2.07	2.04	2.01	S	1.92	1.91	1.89	1.87	1.87	1.87	1.88	1.88	1.85	1.83	1.82	1.83	1.84	1.82	2.09	1.94	
Aug 14	1.83	1.83	1.84	1.84	1.86	1.86	1.86	1.86	1.85	S	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.83	1.82	1.83	1.83	1.84	1.84	1.87	1.82	1.87	1.84	
Aug 15	1.84	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84	S	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.85	1.87	1.90	1.94	1.91	1.83	1.94	1.85	
Aug 16	1.87	1.83	1.84	1.84	1.87	1.88	1.90	S	1.84	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.85	1.89	1.96	1.92	1.83	1.96	1.86		
Aug 17	1.95	1.90	1.89	1.88	1.89	1.91	S	1.90	1.87	1.87	1.86	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.86	1.95	-		
Aug 18	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	2.11	2.10	2.09	2.08	2.09	2.08	2.08	2.07	2.10	2.14	2.15	2.18	2.32	2.07	2.32	-	
Aug 19	2.21	2.20	2.24	2.31	S	2.44	2.39	2.30	2.19	2.15	2.14	2.12	2.11	2.12	2.12	2.11	2.10	2.11	2.11	2.11	2.12	2.15	2.24	2.24	2.10	2.44	2.19	
Aug 20	2.33	2.40	2.39	S	2.26	2.27	2.32	2.28	2.21	2.18	2.19	2.19	2.15	2.13	2.13	2.10	2.09	2.09	2.11	2.13	2.14	2.14	2.16	2.17	2.09	2.40	2.20	
Aug 21	2.19	2.20	S	2.24	2.24	2.23	2.24	2.24	2.22	2.21	2.20	2.20	2.21	2.19	2.18	2.18	2.18	2.18	2.19	2.20	2.23	2.27	2.25	2.25	2.18	2.27	2.21	
Aug 22	2.24	S	2.26	2.25	2.24	2.26	2.27	2.26	2.21	2.20	2.18	2.16	2.15	2.16	2.15	2.13	2.13	2.13	2.14	2.17	2.20	2.23	2.27	2.30	2.13	2.30	2.20	
Aug 23	S	2.45	2.50	2.53	2.56	2.50	2.48	2.46	2.30	2.24	2.20	2.17	2.17	2.16	2.15	2.14	2.15	2.16	2.16	2.16	2.21	2.23	2.32	S	2.14	2.56	2.29	
Aug 24	2.42	2.44	2.48	2.50	2.52	2.49	2.40	2.30	2.26	2.21	2.20	2.18	2.16	2.17	2.16	2.15	2.16	2.16	2.16	2.19	2.24	2.35	S	2.29	2.15	2.52	2.29	
Aug 25	2.27	2.23	2.22	2.24	2.23	2.25	2.30	2.28	2.23	2.20	2.18	2.17	2.17	2.16	2.17	2.14	2.13	2.12	2.13	2.21	2.24	S	2.23	2.21	2.12	2.30	2.20	
Aug 26	2.23	2.26	2.28	2.27	2.28	2.30	2.31	2.27	2.22	2.18	2.16	2.13	2.08	2.07	2.06	2.06	2.05	2.05	2.07	2.15	S	2.16	2.15	2.17	2.05	2.31	2.17	
Aug 27	2.16	2.14	2.13	2.13	2.16	2.14	2.15	2.15	2.16	2.16	2.16	2.16	2.15	2.14	2.13	2.13	2.12	2.11	2.12	S	2.14	2.16	2.18	2.20	2.11	2.20	2.15	
Aug 28	2.13	2.14	2.13	2.13	2.13	2.19	2.18	2.14	2.14	2.15	2.15	2.15	2.14	2.13	2.13	2.13	2.13	2.13	2.14	S	2.14	2.21	2.22	2.21	2.20	2.13	2.22	2.15
Aug 29	2.18	2.16	2.17	2.18	2.18	2.18	2.18	2.18	2.16	2.14	2.14	2.13	2.14	2.12	2.12	2.11	2.10	S	2.11	2.13	2.13	2.11	2.12	2.15	2.10	2.18	2.14	
Aug 30	2.15	2.18	2.16	2.16	2.15	2.17	2.17	2.15	2.13	2.14	2.12	2.12	2.11	2.08	2.09	2.08	S	2.09	2.10	2.09	2.09	2.10	2.11	2.15	2.08	2.18	2.13	
Aug 31	2.22	2.19	2.18	2.17	2.16	2.14	2.17	2.17	2.13	2.12	2.10	2.09	2.08	2.08	2.07	S	2.08	2.08	2.09	2.11	2.11	2.13	2.11	2.12	2.07	2.22	2.13	
Diurnal Maximum	2.42	2.45	2.50	2.53	2.56	2.50	2.48	2.46	2.30	2.24	2.20	2.20	2.21	2.19	2.18	2.18	2.18	2.18	2.19	2.21	2.24	2.35	2.32	2.32	2.07	2.56	2.29	
Diurnal Average	2.03	2.04	2.05	2.05	2.05	2.07	2.07	2.06	2.03	2.02	2.00	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.01	2.03	2.04	2.04	2.07	2.22	2.13	

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.

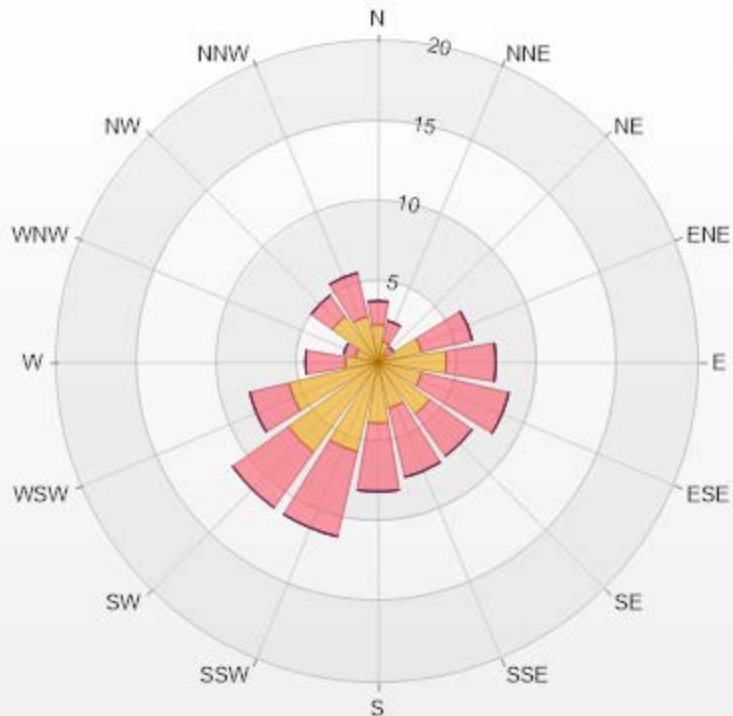
Timeseries Chart of Hourly Average for CH4 - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 91.67% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.35	1.47	0	0	0	3.82
NNE	1.32	1.32	0	0	0	2.64
NE	0.59	0.59	0	0	0	1.18
ENE	2.79	3.23	0	0	0	6.02
E	4.25	3.08	0	0	0	7.33
ESE	2.79	5.57	0	0	0	8.36
SE	3.96	3.23	0	0	0	7.19
SSE	2.93	4.4	0	0	0	7.33
S	3.81	4.25	0	0	0	8.06
SSW	5.72	5.43	0	0	0	11.15
SW	6.89	4.25	0	0	0	11.14
WSW	5.72	2.49	0	0	0	8.21
W	2.05	2.49	0	0	0	4.54
WNW	1.47	0.73	0	0	0	2.2
NW	3.52	1.61	0	0	0	5.13
NNW	2.93	2.79	0	0	0	5.72
Summary	53.09	46.93	0	0	0	100



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% Icon Classes (ppm)

53

0-2

47

2-5

0

5-10

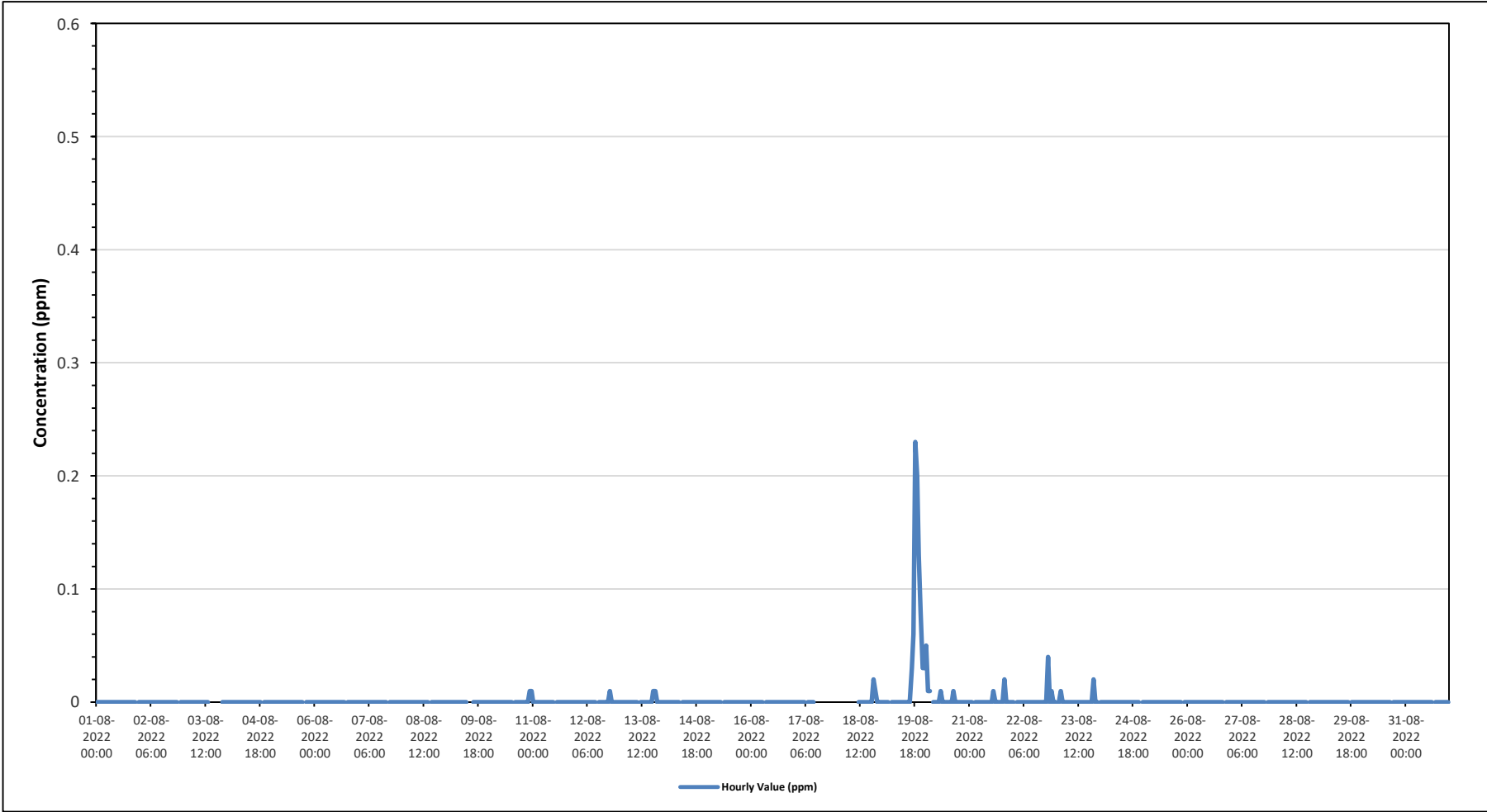
0

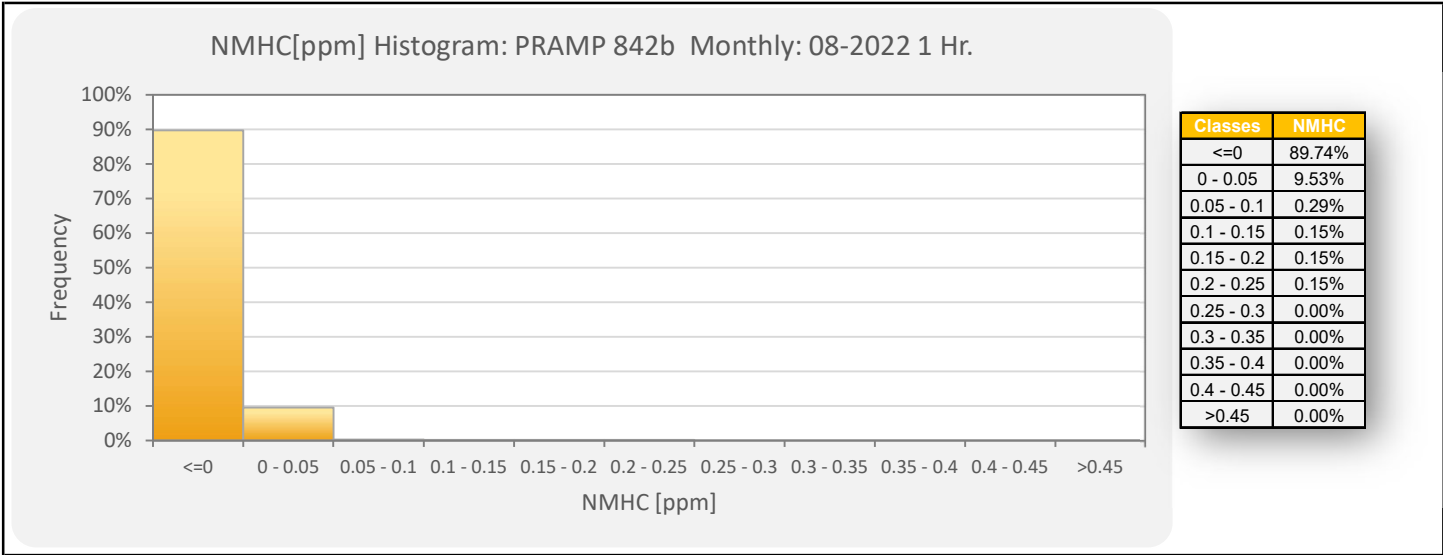
10-20

0

>20.0

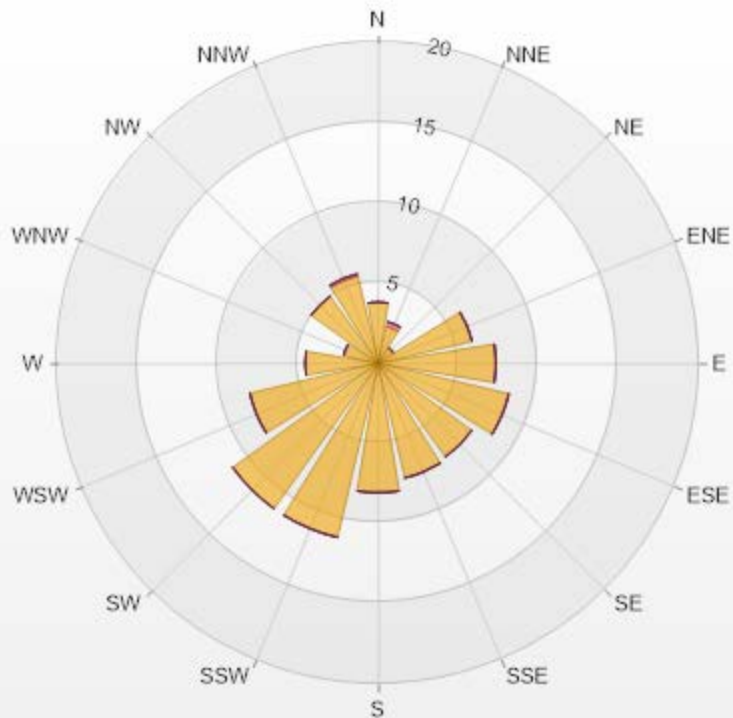
Timeseries Chart of Hourly Average for NMHC - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 91.67% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.81	0	0	0	0	3.81
NNE	2.35	0.29	0	0	0	2.64
NE	1.17	0	0	0	0	1.17
ENE	6.01	0	0	0	0	6.01
E	7.33	0	0	0	0	7.33
ESE	8.36	0	0	0	0	8.36
SE	7.18	0	0	0	0	7.18
SSE	7.33	0	0	0	0	7.33
S	8.06	0	0	0	0	8.06
SSW	11.14	0	0	0	0	11.14
SW	11.14	0	0	0	0	11.14
WSW	8.21	0	0	0	0	8.21
W	4.55	0	0	0	0	4.55
WNW	2.2	0	0	0	0	2.2
NW	5.13	0	0	0	0	5.13
NNW	5.57	0.15	0	0	0	5.72
Summary	100	0.44	0	0	0	100




PRAMP-202208

% Icon Classes (ppm)

100  0-0.1

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0  0.1-0.3

0  0.3-1

0  1-2

0  >2.0



PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

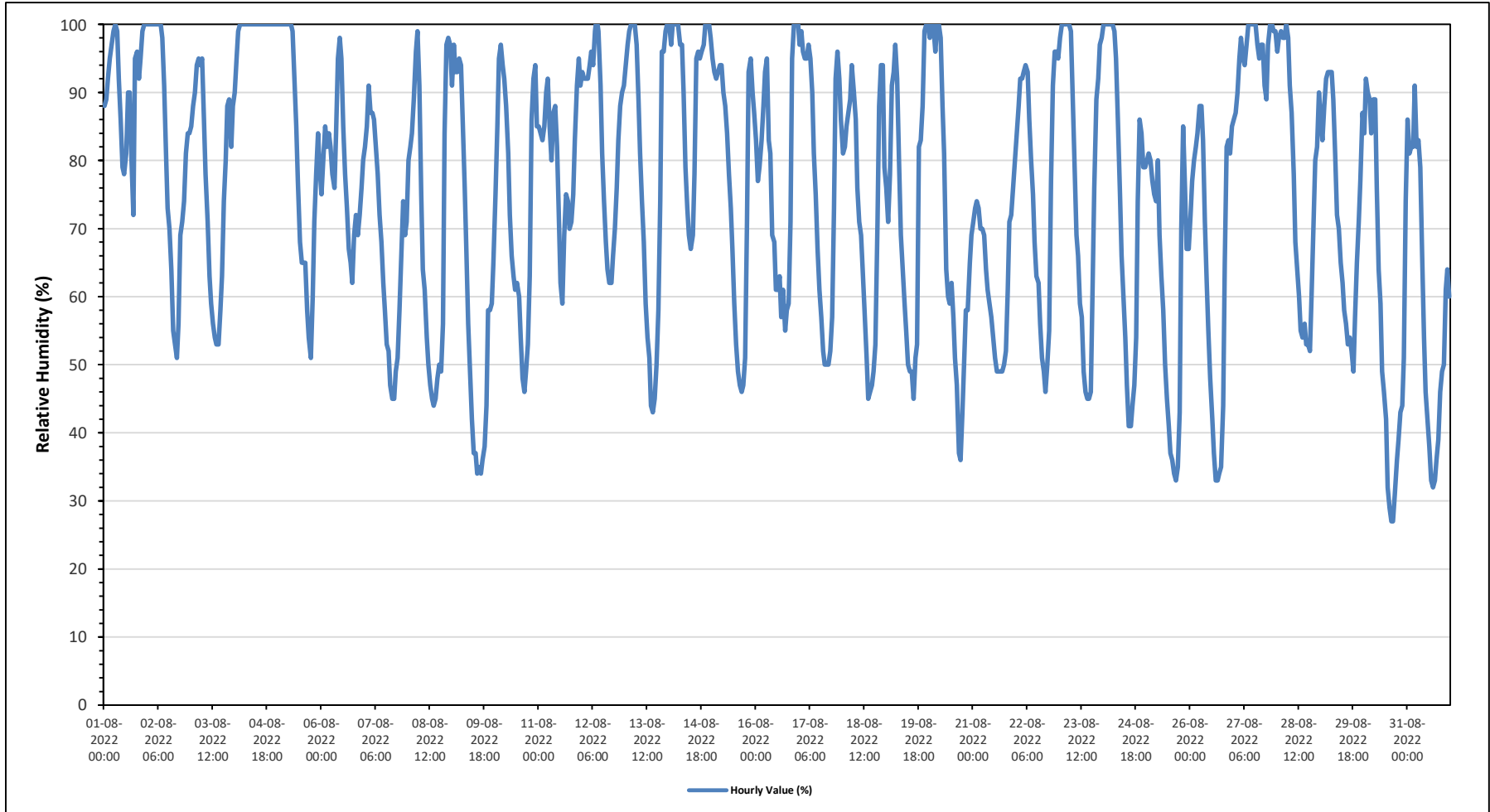
Maximum Hourly Value:	101 %	on August 12 at hour 8	Hours in Service:	744
Maximum Daily Value:	99.3 %	on August 4	Hours of Data:	744
Minimum Hourly Value:	27 %	on August 30 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	57.8 %	on August 30	Hours of Calibration:	0
Monthly Average:	75.5 %		Operational 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
Aug 1	88	89	92	95	97	99	100	99	92	86	79	78	81	90	90	80	72	95	96	92	95	99	100	100	72	100	91.0
Aug 2	100	100	100	100	100	100	100	100	98	91	81	73	70	64	55	53	51	56	69	71	74	81	84	84	51	100	81.5
Aug 3	85	88	90	94	95	94	95	86	78	71	63	59	56	54	53	53	58	63	74	80	88	89	82	88	53	95	76.5
Aug 4	90	95	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	100	99.3
Aug 5	100	100	100	100	100	100	100	100	99	92	85	77	68	65	65	65	58	54	51	60	71	78	84	79	51	100	81.3
Aug 6	75	81	85	82	84	82	78	76	84	95	98	95	85	78	73	67	65	62	69	72	69	72	76	80	62	98	78.5
Aug 7	82	85	91	87	87	86	82	78	72	68	62	58	53	52	47	45	45	49	51	58	65	74	69	71	45	91	67.4
Aug 8	80	82	84	89	96	99	91	75	64	61	54	50	47	45	44	45	48	50	49	56	84	97	98	97	44	99	70.2
Aug 9	91	97	93	93	95	94	85	76	67	56	49	42	37	37	34	35	34	36	38	44	58	58	59	65	34	97	61.4
Aug 10	75	85	95	97	94	92	88	81	72	66	63	61	62	60	54	48	46	49	53	63	86	92	94	85	46	97	73.4
Aug 11	85	84	83	85	90	92	85	80	87	88	82	73	62	59	69	75	74	70	71	75	83	91	95	91	59	95	80.4
Aug 12	93	92	92	92	94	96	94	99	101	99	91	81	74	68	64	62	62	66	70	76	83	88	90	91	62	101	84.1
Aug 13	94	97	99	100	100	100	97	89	81	74	68	59	54	51	44	43	45	50	58	74	96	96	99	100	43	100	77.8
Aug 14	100	97	100	100	100	100	97	97	90	79	73	69	67	69	78	95	96	95	96	97	100	100	100	98	67	100	91.4
Aug 15	95	93	92	93	94	94	90	88	84	78	73	67	59	53	49	47	46	47	51	71	93	95	90	87	46	95	76.2
Aug 16	83	77	79	83	88	93	95	83	81	69	68	61	61	63	57	61	55	58	59	71	95	100	100	101	55	101	76.7
Aug 17	97	99	96	95	95	97	95	90	81	75	67	61	57	52	50	50	50	52	57	73	92	96	92	86	50	99	77.3
Aug 18	81	82	85	87	89	94	90	86	76	71	69	64	58	51	45	46	47	49	53	71	88	94	94	79	45	94	72.9
Aug 19	76	71	78	91	93	97	92	80	69	64	59	55	50	49	49	45	51	53	82	83	88	99	100	100	45	100	73.9
Aug 20	98	100	100	96	100	100	98	88	81	64	60	59	62	57	51	47	37	36	43	51	58	58	65	69	36	100	69.9
Aug 21	71	73	74	73	70	70	69	64	61	59	57	54	51	49	49	49	49	50	52	61	71	72	76	80	49	80	62.7
Aug 22	84	88	92	92	93	94	93	86	80	75	68	63	62	56	51	49	46	50	55	77	91	96	96	95	46	96	76.3
Aug 23	98	100	100	100	100	100	99	89	79	69	66	59	57	49	46	45	46	62	76	89	92	97	98	45	100	77.5	
Aug 24	100	100	100	100	100	100	99	95	86	75	66	60	54	47	41	41	44	47	54	74	86	84	79	79	41	100	75.5
Aug 25	80	81	80	77	75	74	80	69	63	58	50	45	41	37	36	34	33	35	43	70	85	76	67	67	33	85	60.7
Aug 26	72	77	80	82	84	88	88	83	71	62	55	48	42	37	33	33	34	35	44	65	82	83	81	85	33	88	64.3
Aug 27	86	87	90	95	98	95	94	97	100	100	100	100	97	95	97	97	91	89	97	100	100	99	99	86	100	96.0	
Aug 28	96	98	99	98	98	100	98	91	87	78	68	64	60	55	54	56	53	53	52	60	70	80	82	90	52	100	76.7
Aug 29	86	83	88	92	93	93	93	89	81	72	70	65	62	58	56	53	54	52	49	57	65	71	77	87	49	93	72.8
Aug 30	84	92	90	89	84	89	89	76	64	59	49	46	42	32	29	27	27	31	36	39	43	44	51	74	27	92	57.8
Aug 31	86	81	82	82	91	82	83	79	66	54	46	42	38	33	32	33	36	39	46	49	50	61	64	60	32	91	59.0
Diurnal Maximum	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101			
Diurnal Average	87.5	88.8	90.6	91.6	92.8	93.4	91.5	86.1	80.5	74.5	69.0	64.1	60.4	57.0	54.6	54.2	53.5	55.5	60.4	69.8	80.6	84.4	85.2	86.0			

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 RH - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

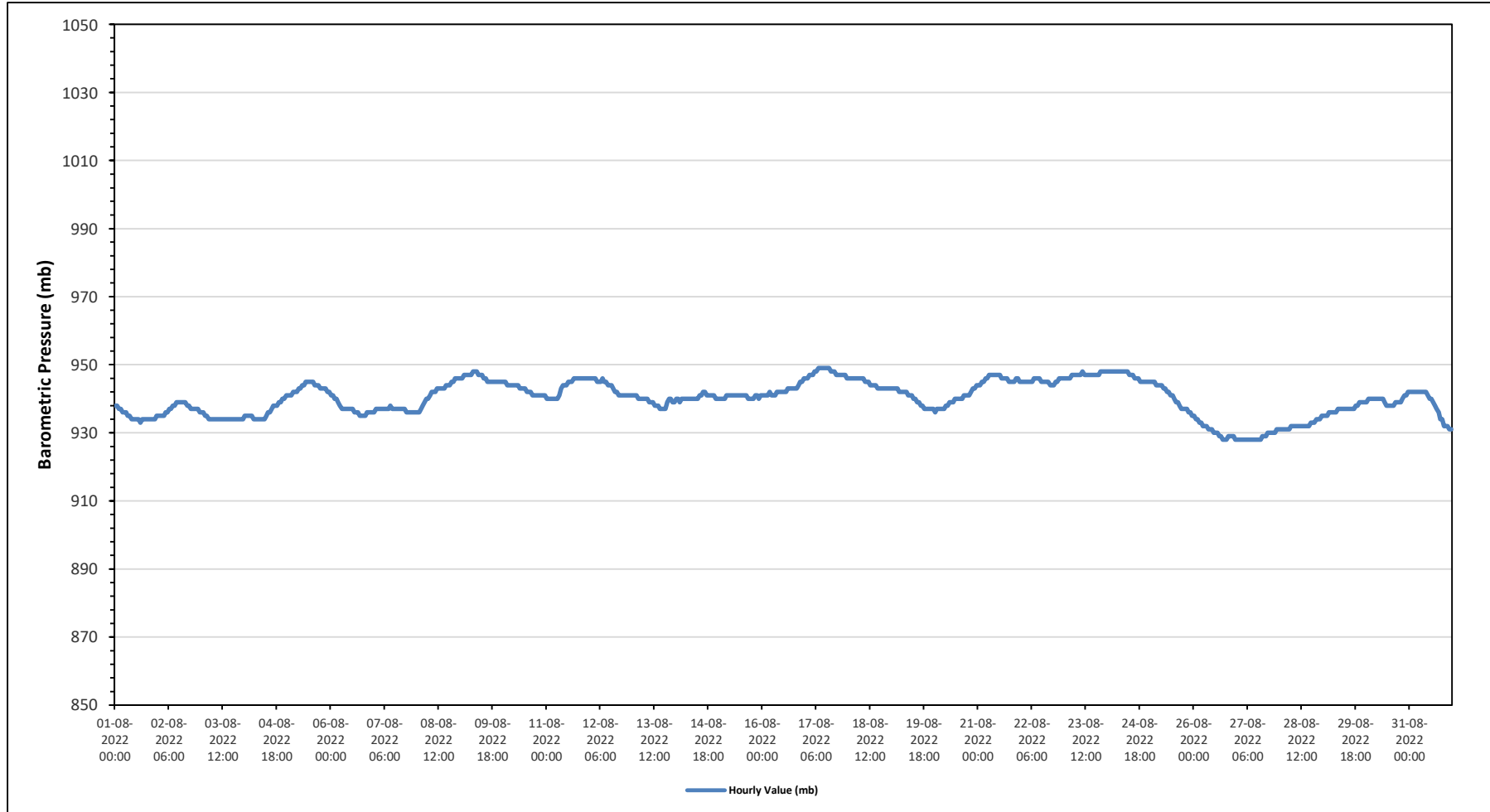
Maximum Hourly Value:	949	mb	on August 17 at hour 7	Hours in Service:	744
Maximum Daily Value:	948	mb	on August 17	Hours of Data:	744
Minimum Hourly Value:	928	mb	on August 26 at hour 16	Hours of Missing Data:	0
Minimum Daily Value:	929	mb	on August 27	Hours of Calibration:	0
Monthly Average:	940	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	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	
Aug 1	938	938	937	937	936	936	936	935	935	934	934	934	934	933	934	934	934	934	934	934	934	934	934	935	933	938	934.9	
Aug 2	935	935	935	935	936	936	937	937	938	938	939	939	939	939	939	939	938	938	937	937	937	937	937	936	935	939	937.2	
Aug 3	936	936	935	935	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	936	934.3	
Aug 4	935	935	935	935	935	934	934	934	934	934	934	934	935	936	936	937	938	938	938	939	939	940	940	941	934	941	936.3	
Aug 5	941	941	941	942	942	942	943	943	944	944	945	945	945	945	944	944	944	944	943	943	943	943	942	942	941	945	943.2	
Aug 6	941	941	940	940	939	938	937	937	937	937	937	937	937	936	936	936	935	935	935	935	935	936	936	936	935	941	937.1	
Aug 7	936	937	937	937	937	937	937	937	937	938	937	937	937	937	937	937	937	937	936	936	936	936	936	936	936	938	936.8	
Aug 8	936	936	937	938	939	940	940	941	942	942	942	943	943	943	943	944	944	944	945	945	945	946	946	946	936	946	942.0	
Aug 9	946	946	947	947	947	947	948	948	948	947	947	947	946	946	945	945	945	945	945	945	945	945	945	945	945	948	946.2	
Aug 10	945	945	944	944	944	944	944	944	944	943	943	943	943	942	942	942	941	941	941	941	941	941	941	941	941	945	942.7	
Aug 11	940	940	940	940	940	940	941	943	944	944	944	945	945	945	946	946	946	946	946	946	946	946	946	946	940	946	943.5	
Aug 12	946	946	946	946	945	945	945	946	945	945	944	944	944	943	942	942	941	941	941	941	941	941	941	941	941	941	946	943.4
Aug 13	941	941	941	940	940	940	940	940	940	939	939	939	938	938	938	937	937	937	937	939	940	940	939	939	937	941	939.1	
Aug 14	940	940	939	940	940	940	940	940	940	940	940	940	941	941	942	941	941	941	941	941	941	941	940	940	939	942	940.4	
Aug 15	940	940	940	940	941	941	941	941	941	941	941	941	941	941	941	941	940	940	940	940	941	941	940	941	940	941	940.6	
Aug 16	941	941	941	941	942	941	941	941	942	942	942	942	942	942	943	943	943	943	943	943	944	945	945	946	941	946	942.5	
Aug 17	946	946	947	947	947	948	948	949	949	949	949	949	949	949	948	948	948	947	947	947	947	947	947	946	946	949	947.7	
Aug 18	946	946	946	946	946	946	946	946	946	945	945	945	944	944	944	944	943	943	943	943	943	943	943	943	943	946	944.5	
Aug 19	943	943	943	943	942	942	942	942	942	941	941	941	940	940	939	939	938	938	937	937	937	937	937	937	937	943	940.0	
Aug 20	936	937	937	937	937	937	938	938	939	939	939	940	940	940	940	941	941	941	941	941	942	943	943	944	936	944	939.6	
Aug 21	944	944	945	945	946	946	947	947	947	947	947	947	946	946	946	946	945	945	945	945	945	946	946	945	944	947	945.8	
Aug 22	945	945	945	945	945	945	945	946	946	946	946	945	945	945	945	944	944	944	944	945	945	946	946	946	944	946	945.2	
Aug 23	946	946	946	946	947	947	947	947	947	947	948	947	947	947	947	947	947	947	947	947	948	948	948	948	946	948	947.0	
Aug 24	948	948	948	948	948	948	948	948	948	948	948	948	947	947	947	946	946	946	945	945	945	945	945	945	945	948	946.9	
Aug 25	945	945	945	944	944	944	944	943	943	942	942	941	941	940	939	939	938	937	937	937	936	936	935	935	935	945	940.6	
Aug 26	935	934	934	933	933	932	932	932	931	931	931	930	930	930	929	929	928	928	928	929	929	929	929	928	928	935	930.6	
Aug 27	928	928	928	928	928	928	928	928	928	928	928	928	928	928	929	929	929	930	930	930	930	931	931	928	931	928.8		
Aug 28	931	931	931	931	931	932	932	932	932	932	932	932	932	932	932	932	932	933	933	933	934	934	934	935	931	935	932.3	
Aug 29	935	935	935	936	936	936	936	936	937	937	937	937	937	937	937	937	937	937	937	938	938	939	939	939	935	939	937.0	
Aug 30	939	940	940	940	940	940	940	940	940	940	939	938	938	938	938	938	939	939	939	939	940	941	941	942	938	942	939.5	
Aug 31	942	942	942	942	942	942	942	942	942	941	940	940	939	938	937	936	934	934	932	932	931	931	931	931	931	942	938.2	
Diurnal Maximum	948	948	948	948	948	948	949	949	949	949	949	949	949	949	948	948	948	947	947	947	948	948	948	948	948	948	948	
Diurnal Average	940	940	940	940	940	940	940	941	941	940	940	940	940	940	940	940	940	940	939	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 - August 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

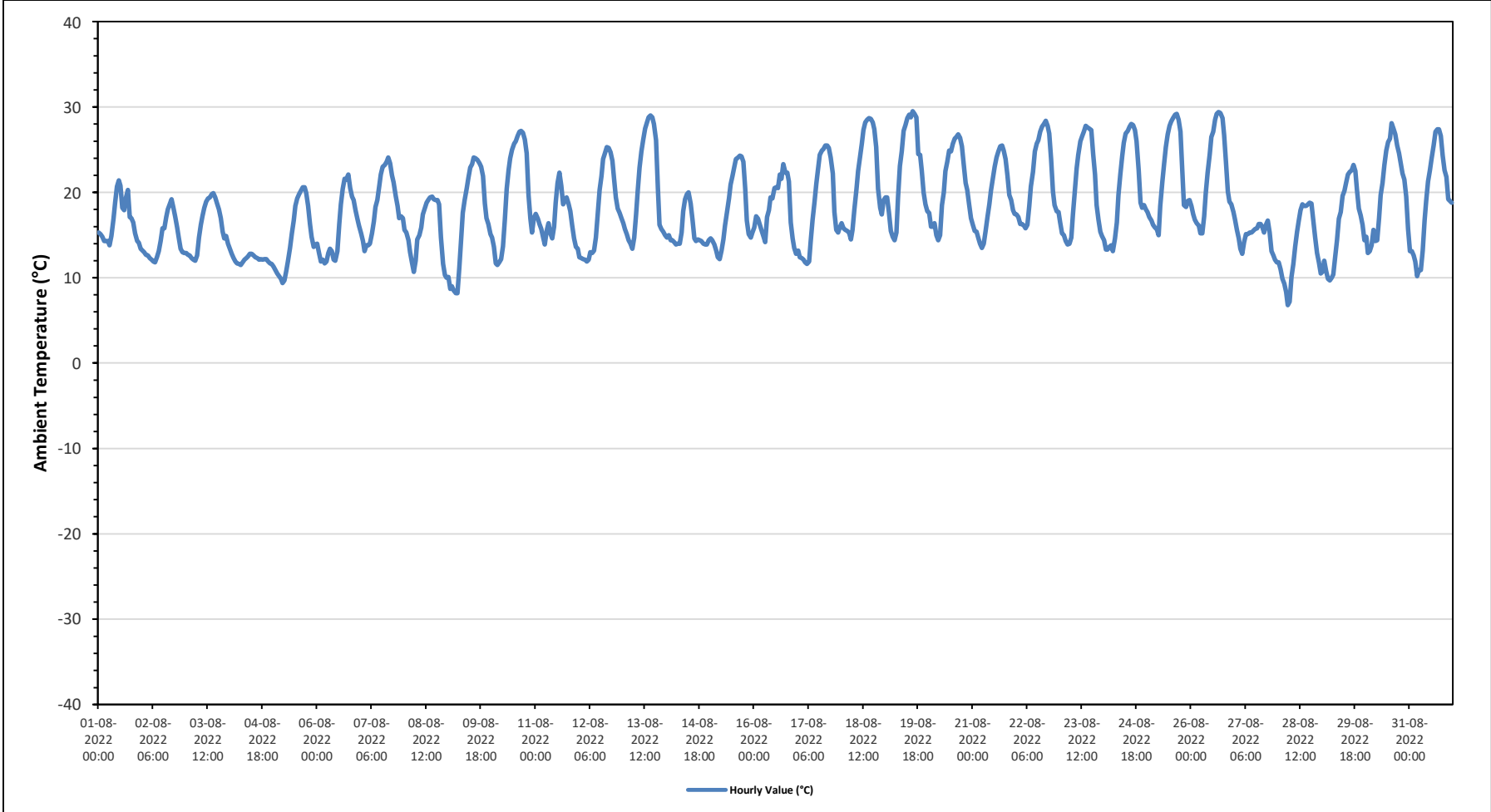
Maximum Hourly Value:	29.5 °C on August 19 at hour 15	Hours in Service:	744
Maximum Daily Value:	22.5 °C on August 19	Hours of Data:	744
Minimum Hourly Value:	6.8 °C on August 28 at hour 5	Hours of Missing Data:	0
Minimum Daily Value:	12.2 °C on August 4	Hours of Calibration:	0
Monthly Average:	18.1 °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		
Aug 1	15.3	15.1	14.8	14.3	14.3	14.3	13.8	14.9	16.9	18.8	20.7	21.4	20.8	18.2	17.9	19.4	20.3	17.1	17	16.5	15.2	14.3	14.1	13.4	13.4	13.4	21.4	16.6	16.6
Aug 2	13.2	13	12.7	12.6	12.3	12.1	11.9	11.8	12.4	13.1	14.3	15.8	15.8	17.1	18	18.6	19.2	18.2	17.1	15.9	14.7	13.4	13	12.9	11.8	19.2	14.5	14.5	
Aug 3	12.9	12.7	12.6	12.3	12.1	12	12.6	14.7	16.2	17.2	18.2	18.9	19.3	19.4	19.8	19.9	19.4	18.7	18	17	15.4	14.6	14.9	14	12.0	19.9	16.0	16.0	
Aug 4	13.4	12.8	12.3	11.9	11.7	11.6	11.5	11.8	12.1	12.3	12.5	12.8	12.8	12.6	12.4	12.3	12.1	12.2	12.1	12.2	12.2	11.9	11.7	11.6	11.5	13.4	12.2	12.2	
Aug 5	11.3	10.9	10.5	10.2	9.9	9.4	9.7	10.8	11.9	13.5	15.2	16.7	18.4	19.3	19.8	20.2	20.6	20.6	19.9	18.4	16.3	14.8	13.6	13.9	9.4	20.6	14.8	14.8	
Aug 6	14	12.9	11.9	12.1	11.7	11.9	12.9	13.4	13.1	12.1	12	13.1	16.3	18.6	20.4	21.6	21.5	22.1	20.5	19.5	19.1	17.9	16.9	16.1	11.7	22.1	15.9	15.9	
Aug 7	15.2	14.3	13.1	13.8	13.8	14	15.2	16.6	18.3	19.1	20.7	22.1	23	23.2	23.6	24.1	23.4	22	21.2	19.6	18.4	17	17.2	17	13.1	24.1	18.6	18.6	
Aug 8	15.6	15.3	14.4	13	11.8	10.7	12	14.5	15	15.9	17.4	18.1	18.8	19.1	19.4	19.5	19.2	19.1	19.1	18.6	14.7	11.6	10.3	10	10.0	19.5	15.5	15.5	
Aug 9	10.1	8.7	9	8.5	8.2	8.2	11.2	14.6	17.6	19.1	20.5	21.7	22.9	23.3	24.1	24	23.8	23.4	23	21.9	18.7	17	16.3	15.1	8.2	24.1	17.1	17.1	
Aug 10	14.7	13.6	11.7	11.5	11.8	12.2	13.7	16.8	20.4	22.6	24	25	25.7	26	26.6	27.1	27.2	27	26.2	24.6	19.7	16.9	15.3	17	11.5	27.2	19.9	19.9	
Aug 11	17.5	16.9	16.3	15.7	14.7	13.9	15.5	16.4	15.2	14.6	16	18.8	21.1	22.3	20.8	18.6	19	19.4	18.7	17.8	16.1	14.6	13.6	13.4	13.4	22.3	17.0	17.0	
Aug 12	12.4	12.3	12.2	12.1	11.9	12.1	13	12.9	13.2	14.7	17.5	20.3	21.9	23.9	24.6	25.3	25.2	24.7	23.7	21.7	19.4	18.1	17.6	17	11.9	25.3	17.8	17.8	
Aug 13	16.4	15.7	15.1	14.4	14	13.4	14.7	17.4	20.1	22.9	24.8	26.2	27.5	28.2	28.8	29	28.8	28	26.1	20.4	16.2	15.7	15.4	15	13.4	29.0	20.6	20.6	
Aug 14	14.7	15	14.4	14.4	14.2	13.9	14	14	15.3	17.8	19.2	19.8	20	18.7	16.8	14.6	14.3	14.5	14.4	14.3	14	13.9	13.9	14.4	13.9	20.0	15.4	15.4	
Aug 15	14.6	14.4	13.9	13.2	12.4	12.2	13.2	14.5	16.1	17.8	19.3	20.9	21.9	23	23.9	24.1	24.3	24.2	23.6	20.4	16.7	15.1	14.7	15.3	12.2	24.3	17.9	17.9	
Aug 16	15.9	17.2	16.9	16.3	15.5	14.8	14.2	17.1	17.9	19.4	19.3	20.5	20.6	20.5	22.1	21.6	23.3	22.3	22.3	21.3	16.5	14.6	13.5	12.8	12.8	23.3	18.2	18.2	
Aug 17	13.2	12.4	12.3	12.1	11.8	11.6	11.9	14.3	16.8	18.8	21	22.6	24.4	24.9	25.1	25.5	25.5	25.2	24.1	22.2	17.7	15.6	15.3	15.9	11.6	25.5	18.3	18.3	
Aug 18	16.4	15.8	15.6	15.5	15.3	14.5	15.6	18	20.4	22.5	24.1	25.7	27.3	28.2	28.5	28.7	28.6	28.2	27.4	25.3	20.4	18.2	17.4	19.1	14.5	28.7	21.5	21.5	
Aug 19	19.4	19.4	17.6	15.5	14.8	14.4	15.3	19.4	23.1	24.8	27.2	27.9	28.7	29.1	28.8	29.5	29.2	28.8	24.5	24.4	22.6	20	18.6	17.8	14.4	29.5	22.5	22.5	
Aug 20	17.6	16	16	16.4	15	14.4	15	18.5	20	22.5	23.6	24.9	24.8	25.7	26.3	26.5	26.8	26.4	25.4	23.2	21.1	20.3	18.6	17	14.4	26.8	20.9	20.9	
Aug 21	16.2	15.5	15.4	14.6	14	13.5	14	15.5	17.1	18.6	20.2	21.6	23	24.1	24.8	25.4	25.5	24.9	23.9	22	19.7	19.1	17.9	17.5	13.5	25.5	19.3	19.3	
Aug 22	17.4	17.1	16.3	16.3	16.1	15.8	16.2	18.4	20.7	22.4	24.8	25.7	26.1	27.1	27.7	28	28.4	27.8	26.9	23.9	20.1	18.5	17.8	17.7	15.8	28.4	21.6	21.6	
Aug 23	16.5	15.2	15	14.3	13.9	14	14.7	17.4	20.1	22.8	24.4	26	26.6	27.1	27.8	27.6	27.5	27.3	24.5	22.1	18.5	16.8	15.4	14.9	13.9	27.8	20.4	20.4	
Aug 24	14.4	13.3	13.3	13.6	13.8	13.1	14.6	16.5	19.7	22.1	24.2	25.8	26.9	27.2	27.7	28	27.9	27.3	26	22.6	18.8	18.2	18.5	18	13.1	28.0	20.5	20.5	
Aug 25	17.7	17.1	16.7	16.2	15.9	15.7	15	18.4	21.3	23.5	25.3	26.8	27.8	28.3	28.7	29.1	29.2	28.5	27.1	23.1	18.5	18.3	19	19.1	15.0	29.2	21.9	21.9	
Aug 26	18.4	17.4	16.8	16.4	16.1	15.2	15.2	17.2	19.9	22.3	24.5	26.5	27.1	28.5	29.2	29.4	29.3	28.7	26.7	23.5	20.1	18.9	18.6	17.7	15.2	29.4	21.8	21.8	
Aug 27	16.8	15.6	14.6	13.4	12.8	14.2	15.1	15.1	15.3	15.3	15.5	15.7	15.8	16.3	16.3	15.9	15.3	16.2	16.7	15.3	13.1	12.6	12.1	11.8	11.8	16.8	14.9	14.9	
Aug 28	11.8	11	9.9	9.3	8.3	6.8	7.2	10.1	11.6	13.7	15.4	16.6	17.9	18.6	18.4	18.6	18.8	18.7	16.7	14.7	12.9	11.8	10.5	6.8	6.8	18.8	13.7	13.7	
Aug 29	10.7	12	10.8	9.9	9.7	10	10.4	12.4	14.4	16.9	17.7	19.6	20.2	21.1	22.1	22.4	22.6	23.2	22.5	20.3	18.1	17.3	16.2	14.4	9.7	23.2	16.5	16.5	
Aug 30	14.8	12.9	13.1	13.8	15.6	14.3	14.4	17	19.7	21.1	23.2	24.9	25.9	26.3	28.1	27.5	26.8	25.5	24.6	23.3	22.2	21.5	19.5	15.7	12.9	28.1	20.5	20.5	
Aug 31	13.1	13.1	12.6	11.9	10.2	10.9	10.9	13.2	16.7	19	21.3	22.6	23.9	25.5	27.1	27.4	27.4	26.6	24.3	22.6	21.8	19.2	19	18.8	10.2	27.4	19.1	19.1	
Diurnal Maximum	19.4	19.4	17.6	16.4	16.1	15.8	16.2	19.4	23.1	24.8	27.2	27.9	28.7	29.1	29.2	29.5	29.3	28.8	27.4	25.3	22.6	21.5	19.5	19.1					
Diurnal Average	14.9	14.3	13.8	13.4	13.0	12.7	13.4	15.3	17.0	18.6	20.1	21.5	22.4	22.9	23.4	23.5	23.6	23.1	22.1	20.3	17.8	16.4	15.7	15.3					

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 AT - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

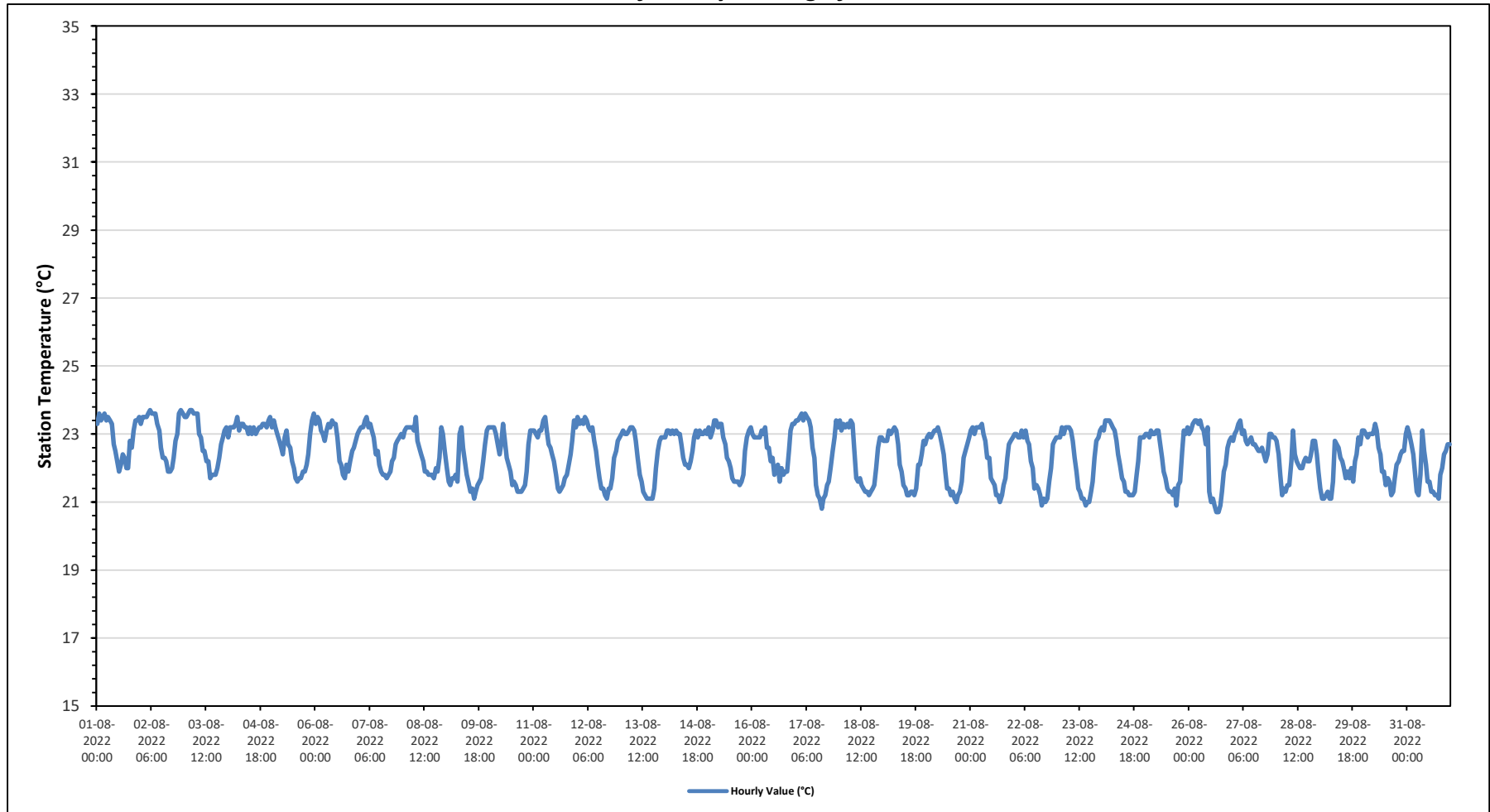
Maximum Hourly Value:	23.7 °C	on August 2 at hour 5	Hours in Service:	744
Maximum Daily Value:	23.2 °C	on August 4	Hours of Data:	744
Minimum Hourly Value:	20.7 °C	on August 26 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	21.9 °C	on August 29	Hours of Calibration:	0
Monthly Average:	22.5 °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
Aug 1	23.3	23.6	23.4	23.5	23.6	23.4	23.5	23.4	23.3	22.7	22.5	22.2	21.9	22.1	22.4	22.3	22.0	22.0	22.8	22.6	23.1	23.4	23.4	23.5	21.9	23.6	22.9
Aug 2	23.3	23.5	23.5	23.5	23.6	23.7	23.6	23.6	23.6	23.3	23.1	22.6	22.3	22.3	22.2	21.9	21.9	22.0	22.3	22.8	23.0	23.6	23.7	23.6	21.9	23.7	23.0
Aug 3	23.5	23.5	23.6	23.7	23.7	23.6	23.6	23.6	23.0	22.9	22.5	22.5	22.2	22.2	21.7	21.8	21.8	21.8	22.0	22.3	22.7	22.9	23.1	23.2	21.7	23.7	22.8
Aug 4	22.9	23.2	23.2	23.2	23.3	23.5	23.1	23.3	23.3	23.2	23.2	23.0	23.2	23.0	23.2	23.0	23.1	23.2	23.2	23.3	23.2	23.4	23.5	22.9	23.5	23.2	
Aug 5	23.2	23.4	23.2	23.0	22.8	22.6	22.4	22.9	23.1	22.7	22.6	22.2	22.0	21.7	21.6	21.7	21.7	21.9	22.1	22.4	23.0	23.4	23.6	21.6	23.6	22.5	
Aug 6	23.3	23.5	23.4	23.1	23.0	22.8	23.1	23.3	23.2	23.4	23.3	23.3	22.9	22.2	22.1	21.8	21.7	22.1	21.9	22.2	22.5	22.6	22.8	23.0	21.7	23.5	22.8
Aug 7	23.1	23.2	23.2	23.4	23.5	23.2	23.3	23.1	22.9	22.4	22.5	22.1	21.9	21.8	21.8	21.7	21.8	21.9	22.2	22.3	22.7	22.8	22.9	23.0	21.7	23.5	22.6
Aug 8	22.9	23.1	23.2	23.2	23.2	23.2	23.1	23.5	22.8	22.6	22.4	22.2	21.9	21.9	21.8	21.8	21.8	21.7	22.0	21.9	23.3	23.2	23.0	22.5	21.7	23.5	22.6
Aug 9	22.0	21.6	21.5	21.7	21.7	21.8	21.6	23.0	23.2	22.6	22.2	21.8	21.6	21.3	21.4	21.1	21.3	21.5	21.6	21.7	22.2	22.7	23.1	23.2	21.1	23.2	22.0
Aug 10	23.2	23.2	23.2	23.0	22.7	22.4	22.7	23.3	22.8	22.3	22.1	21.9	21.5	21.6	21.5	21.3	21.3	21.3	21.4	21.5	21.9	22.7	23.1	23.1	21.3	23.3	22.3
Aug 11	23.1	23.0	22.9	23.1	23.1	23.4	23.5	23.1	22.7	22.6	22.4	22.2	21.8	21.4	21.3	21.4	21.5	21.7	21.8	22.1	22.4	22.8	23.4	23.2	21.3	23.5	22.5
Aug 12	23.5	23.3	23.4	23.3	23.5	23.4	23.2	23.1	23.2	22.8	22.5	22.1	21.7	21.4	21.4	21.2	21.1	21.4	21.4	21.7	22.3	22.5	22.8	22.9	21.1	23.5	22.5
Aug 13	23.0	23.1	23.0	23.0	23.1	23.2	23.2	23.1	22.8	22.3	21.8	21.6	21.3	21.2	21.1	21.1	21.1	21.1	21.4	22.0	22.5	22.8	22.9	22.9	21.1	23.2	22.3
Aug 14	22.9	23.1	23.1	23.0	23.1	23.0	23.1	23.0	23.0	22.7	22.3	22.1	22.1	22.0	22.2	22.5	22.9	23.1	22.9	23.1	23.0	23.0	23.1	23.0	22.0	23.1	22.8
Aug 15	23.2	22.9	23.1	23.4	23.4	23.2	23.3	23.3	22.9	22.7	22.3	22.2	22.0	21.7	21.6	21.6	21.6	21.5	21.6	21.8	22.5	22.9	23.1	23.2	21.5	23.4	22.5
Aug 16	23.0	22.9	22.9	22.9	22.9	23.1	23.0	23.2	22.6	22.6	22.2	22.3	21.8	22.0	22.1	21.6	22.0	21.8	21.9	21.9	22.5	23.1	23.3	23.3	21.6	23.3	22.5
Aug 17	23.4	23.4	23.5	23.6	23.4	23.6	23.5	23.4	23.2	22.6	22.3	21.5	21.2	21.1	20.8	21.1	21.2	21.5	21.6	22.0	22.5	22.9	23.4	23.2	20.8	23.6	22.5
Aug 18	23.4	23.1	23.3	23.2	23.3	23.2	23.4	23.3	22.6	21.7	21.6	21.7	21.5	21.4	21.3	21.3	21.2	21.3	21.4	21.5	22.0	22.6	22.9	22.9	21.2	23.4	22.3
Aug 19	22.8	22.8	22.8	23.1	23.0	23.1	23.2	23.1	22.7	22.1	21.9	21.5	21.4	21.2	21.2	21.3	21.3	21.2	21.4	22.1	22.1	22.4	22.8	22.7	21.2	23.2	22.2
Aug 20	22.9	23.0	22.9	23.0	23.1	23.1	23.2	23.0	22.7	22.4	21.9	21.4	21.4	21.2	21.3	21.1	21.0	21.2	21.3	21.6	22.3	22.5	22.7	22.9	21.0	23.2	22.2
Aug 21	23.1	23.2	23.0	23.2	23.2	23.2	23.3	23.0	22.8	22.3	22.3	21.7	21.6	21.5	21.2	21.2	21.0	21.2	21.5	21.7	22.3	22.7	22.8	22.9	21.0	23.3	22.3
Aug 22	23.0	23.0	22.9	22.9	23.1	22.9	23.1	22.8	22.7	22.2	22.0	21.4	21.5	21.4	21.2	20.9	21.1	21.0	21.1	21.6	22.0	22.7	22.8	22.9	20.9	23.1	22.2
Aug 23	22.9	22.9	23.2	23.0	23.2	23.2	23.2	23.1	22.8	22.3	21.9	21.4	21.3	21.1	21.1	20.9	21.0	21.0	21.3	21.6	22.3	22.8	22.9	23.1	20.9	23.2	22.2
Aug 24	23.2	23.1	23.4	23.4	23.4	23.3	23.2	23.1	22.8	22.4	22.1	21.7	21.6	21.3	21.3	21.2	21.2	21.2	21.3	21.8	22.2	22.9	22.9	22.9	21.2	23.4	22.4
Aug 25	23.0	23.0	22.9	23.1	23.0	23.0	23.1	23.1	22.7	22.3	21.9	21.7	21.4	21.3	21.3	21.2	21.4	20.9	21.5	21.6	22.5	23.1	23.0	23.2	20.9	23.2	22.3
Aug 26	23.0	23.1	23.3	23.4	23.4	23.3	23.4	23.2	23.1	22.7	23.2	21.3	21.0	21.1	20.9	20.7	20.7	20.9	21.3	21.9	22.1	22.6	22.8	22.9	20.7	23.4	22.3
Aug 27	22.8	23.0	23.1	23.3	23.4	23.0	23.1	22.8	22.7	22.8	22.9	22.7	22.7	22.6	22.5	22.5	22.6	22.4	22.2	22.4	23.0	23.0	22.9	22.9	22.2	23.4	22.8
Aug 28	22.8	22.4	21.8	21.2	21.4	21.3	21.5	21.5	22.2	23.1	22.4	22.2	22.1	22.0	22.0	22.2	22.3	22.2	22.2	22.4	22.8	22.8	22.4	21.9	21.2	23.1	22.1
Aug 29	21.4	21.1	21.1	21.2	21.3	21.1	21.1	21.6	22.8	22.7	22.6	22.3	22.2	22.0	21.7	21.9	21.7	22.0	21.6	22.2	22.4	22.9	22.7	23.1	21.1	23.1	21.9
Aug 30	23.1	23.0	22.9	23.0	23.0	23.0	23.3	23.1	22.6	22.4	21.9	21.9	21.5	21.7	21.6	21.2	21.3	21.7	22.1	22.2	22.4	22.5	22.5	23.0	21.2	23.3	22.4
Aug 31	23.2	23.0	22.7	22.4	21.9	21.3	21.2	21.8	23.1	22.5	22.1	21.6	21.6	21.3	21.3	21.2	21.2	21.1	21.8	22.0	22.4	22.5	22.7	22.7	21.1	23.2	22.0
Diurnal Maximum	23.5	23.6	23.6	23.7	23.7	23.7	23.6	23.6	23.6	23.4	23.3	23.3	23.2	23.0	23.2	23.0	23.1	23.2	23.2	23.3	23.3	23.6	23.7	23.6			
Diurnal Average	23.0	23.0	23.0	23.0	23.0	22.9	23.0	23.0	22.9	22.6	22.4	22.0	21.8	21.7	21.6	21.5	21.6	21.6	21.8	22.1	22.5	22.8	23.0	23.0			

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 ST - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

PRECIPITATION in mm

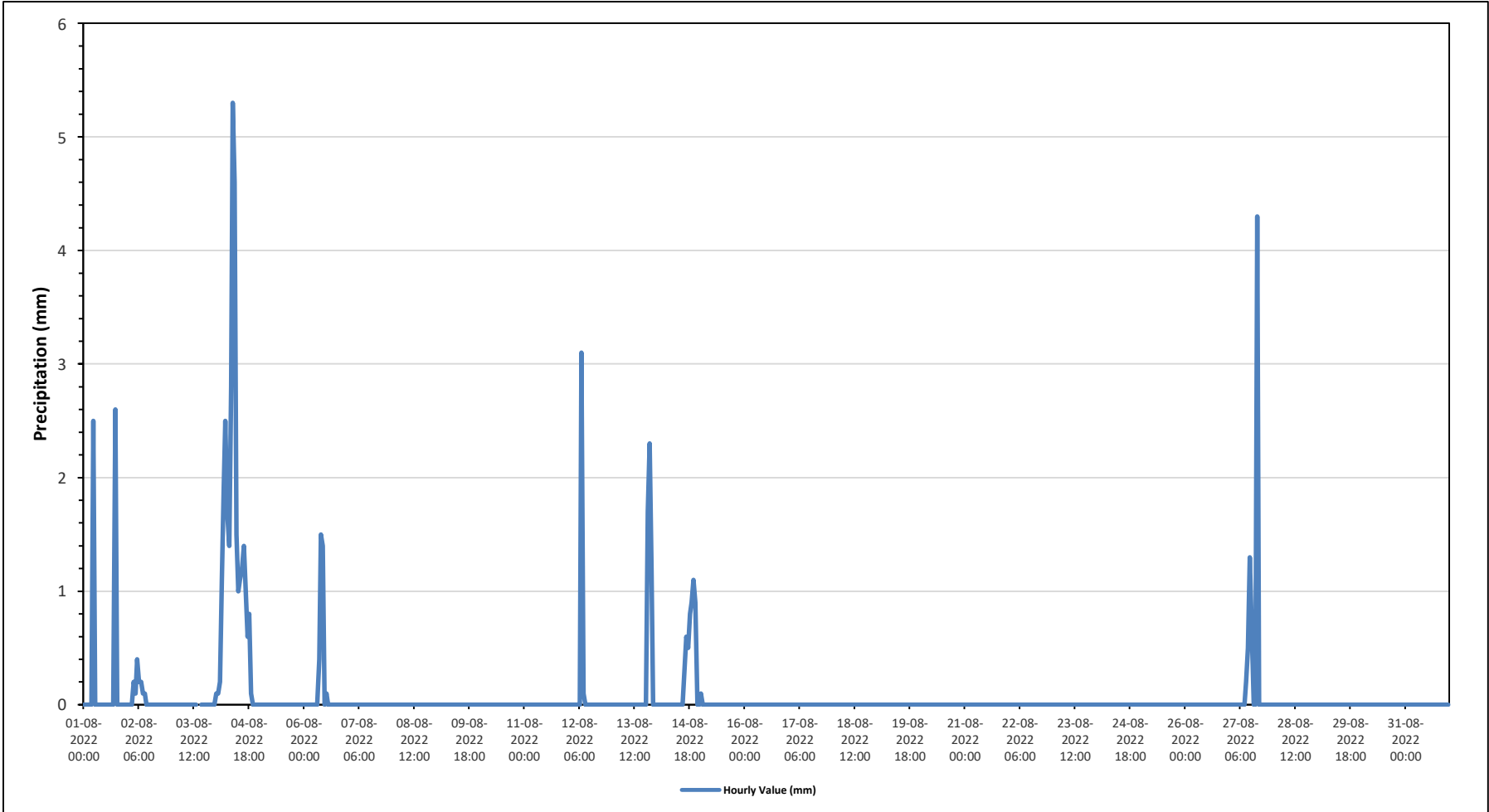
Maximum Hourly Value:	5.3 mm on August 4 at hour 9	Hours in Service:	744
Maximum Daily Value:	30.4 mm on August 4	Hours of Data:	742
Minimum Hourly Value:	0.0 mm on August 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 mm on August 3	Hours of Calibration:	2
Monthly Total:	60.7 mm	Operational 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
Aug 1	0	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	0	0	0	0.0	2.6	5.1	
Aug 2	0	0	0	0.2	0.1	0.4	0.2	0.2	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	1.3
Aug 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 4	0.1	0.1	0.2	1.1	1.9	2.5	1.7	1.4	2.8	5.3	4.6	1.5	1	1.1	1.2	1.4	1	0.6	0.8	0.1	0	0	0	0	0.0	5.3	30.4
Aug 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
Aug 6	0	0	0	0	0	0	0	0	0.4	1.5	1.4	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.0	1.5	3.4
Aug 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
Aug 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 12	0	0	0	0	0	0	0	3.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	3.1	3.2
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	2.3	1.2	0	0	0.0	2.3	5.2
Aug 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.6	0.5	0.8	0.9	1.1	0.9	0	0	0.0	1.1	5.1
Aug 15	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	0.1	0.1
Aug 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 27	0	0	0	0	0	0	0	0	0	0.2	0.5	1.3	0.6	0	0	4.3	0	0	0	0	0	0	0	0	0.0	4.3	6.9
Aug 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
Aug 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
Aug 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
Aug 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.1	0.1	0.2	1.1	1.9	2.5	1.7	3.1	2.8	5.3	4.6	1.5	1.0	1.1	1.2	4.3	1.0	2.6	0.8	1.7	2.3	1.2	0.0	0.0			
Diurnal Average	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	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 - August 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

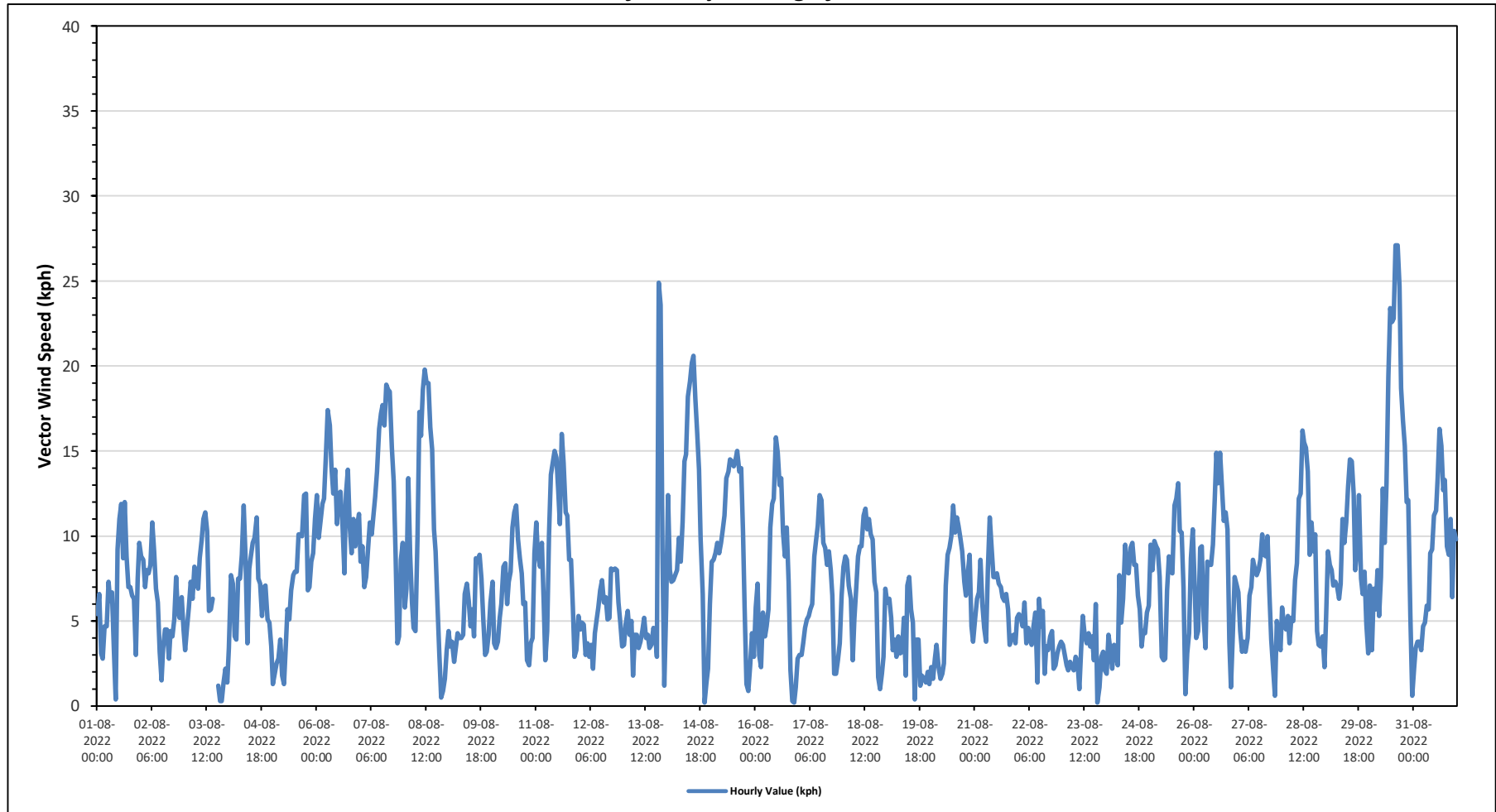
Maximum Hourly Value:	27.1 kph on August 30 at hour 14	Hours in Service:	744
Maximum Daily Value:	11.5 kph on August 6	Hours of Data:	742
Minimum Hourly Value:	0.2 kph on August 14 at hour 20	Hours of Missing Data:	0
Minimum Daily Value:	1.4 kph on August 2	Hours of Calibration:	2
Monthly Average:	2.8 kph	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	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
Aug 1	5.4	6.6	3.1	2.8	4.7	4.7	7.3	6.2	6.7	3.4	0.4	9.2	11.0	11.9	8.7	12.0	8.8	7.0	7.0	6.5	6.3	3.0	7.5	9.6	0.4	12.0	3.9
Aug 2	8.8	8.6	7.0	8.0	7.8	8.3	10.8	9.1	6.9	6.1	3.2	1.5	3.4	4.5	4.5	2.8	4.4	4.1	5.1	7.6	5.6	5.2	6.4	4.5	1.5	10.8	1.4
Aug 3	3.3	4.6	5.8	7.3	6.3	8.2	7.9	6.9	8.7	9.7	11.0	11.4	10.3	5.6	5.7	6.3	C	C	1.2	0.3	0.3	1.4	2.2	1.4	0.3	11.4	4.0
Aug 4	3.4	7.7	7.2	4.1	3.9	7.5	7.5	8.9	11.8	8.7	3.7	8.1	8.8	9.6	9.9	11.1	7.5	7.2	5.3	7.0	7.1	5.1	4.9	3.5	3.4	11.8	5.9
Aug 5	1.3	1.9	2.5	2.8	3.9	1.8	1.3	3.6	5.7	5.1	6.8	7.7	7.9	7.9	10.1	10.1	10.0	12.4	12.5	6.8	7.0	8.5	9.0	11.0	1.3	12.5	5.5
Aug 6	12.4	9.9	10.9	11.9	12.2	14.7	17.4	16.5	14.1	12.5	13.9	10.7	12.4	12.6	10.6	7.8	12.5	13.9	10.6	9.0	11.0	9.4	10.6	11.3	7.8	17.4	11.5
Aug 7	8.5	9.4	7.0	7.6	9.2	10.8	10.1	11.3	12.3	13.8	16.3	17.2	17.7	16.5	18.9	18.6	18.5	15.2	13.2	9.0	3.7	4.1	8.6	9.6	3.7	18.9	11.1
Aug 8	5.8	6.9	13.4	8.9	6.1	4.6	4.4	10.1	17.3	15.9	18.6	19.8	19.0	19.0	16.4	15.1	10.4	9.1	6.0	3.1	0.5	0.9	1.6	3.3	0.5	19.8	8.6
Aug 9	4.4	3.5	3.8	2.6	3.5	4.3	4.0	4.0	4.2	6.6	7.2	6.2	4.7	5.7	4.1	8.7	8.5	8.9	7.5	5.1	3.0	3.2	4.2	6.1	2.6	8.9	4.4
Aug 10	7.3	3.7	3.4	3.8	5.2	6.0	8.2	8.4	6.0	7.3	7.9	10.5	11.4	11.8	9.8	8.7	7.8	6.0	6.1	2.7	2.4	3.7	4.0	9.0	2.4	11.8	4.7
Aug 11	10.8	8.9	8.2	9.6	6.1	2.7	4.4	10.1	13.6	14.3	15.0	14.6	12.6	10.7	16.0	14.3	11.4	11.2	8.6	8.6	5.8	2.9	3.3	5.3	2.7	16.0	4.8
Aug 12	4.5	4.9	4.8	3.0	3.7	2.9	3.6	2.2	4.3	5.0	5.8	6.8	7.4	6.1	6.4	5.1	5.2	8.1	8.0	8.1	8.0	6.1	4.9	3.5	2.2	8.1	5.2
Aug 13	3.6	4.8	5.6	4.2	5.0	1.8	4.2	4.2	3.4	3.8	4.4	5.2	4.0	4.2	3.4	3.6	4.6	4.1	2.9	24.9	23.6	9.2	1.2	5.8	1.2	24.9	2.4
Aug 14	12.4	8.0	7.3	7.4	7.7	8.0	9.9	8.5	10.8	14.4	14.8	18.2	19.1	20.2	20.6	18.1	16.1	13.9	9.8	6.6	0.2	1.4	2.2	6.0	0.2	20.6	9.8
Aug 15	8.5	8.6	9.0	9.6	9.0	9.6	10.3	11.2	13.4	13.8	14.5	14.4	14.1	14.5	15.0	13.8	14.0	10.2	5.8	1.3	0.9	2.4	4.3	2.9	0.9	15.0	8.5
Aug 16	5.8	7.2	3.0	2.3	5.5	4.1	4.7	5.7	10.5	11.9	12.2	15.8	14.9	13.0	13.4	10.2	8.8	10.5	7.3	2.1	0.3	0.2	1.1	2.8	0.2	15.8	6.1
Aug 17	3.0	3.0	3.7	4.6	5.1	5.3	5.7	6.0	8.8	9.8	10.6	12.4	12.1	9.6	9.3	8.3	9.1	8.0	6.5	1.9	1.9	2.7	3.7	6.5	1.9	12.4	5.3
Aug 18	8.2	8.8	8.6	7.1	6.3	2.7	5.1	6.9	8.8	9.4	9.4	11.2	11.6	10.4	11.0	10.1	9.8	7.3	6.7	1.7	1.0	1.9	2.9	6.9	1.0	11.6	6.0
Aug 19	6.1	6.3	5.2	3.3	3.9	2.9	4.1	3.1	3.2	5.2	1.8	7.1	7.6	5.7	4.9	0.4	3.9	3.9	1.2	1.8	1.6	1.4	2.0	1.3	0.4	7.6	2.1
Aug 20	2.3	1.6	2.8	3.6	2.3	1.6	1.9	2.5	7.1	8.9	9.3	10.0	11.8	10.2	11.1	10.6	9.9	9.1	7.3	6.5	7.8	8.9	4.7	3.8	1.6	11.8	5.0
Aug 21	5.2	6.3	6.7	8.6	6.0	4.6	3.8	8.1	11.1	9.3	7.6	7.6	7.8	7.2	7.0	6.4	6.2	6.6	5.7	3.6	4.1	4.2	3.7	5.2	3.6	11.1	6.1
Aug 22	5.4	5.2	4.7	6.1	3.7	4.6	3.9	3.6	4.7	5.5	1.4	6.3	4.7	5.6	1.9	3.5	3.3	4.1	4.4	2.2	2.4	3.1	3.5	3.8	1.4	6.3	2.0
Aug 23	3.6	3.0	2.4	2.1	2.6	2.3	2.1	2.9	2.6	1.0	3.4	5.3	4.2	3.7	4.3	3.5	4.1	2.7	6.0	0.2	1.1	2.9	3.2	2.1	0.2	6.0	1.9
Aug 24	1.9	4.2	3.3	2.2	3.6	3.1	2.4	7.7	4.9	6.3	9.5	7.9	7.8	9.3	9.6	8.3	8.3	6.5	5.7	3.5	4.4	4.3	5.5	5.9	1.9	9.6	4.7
Aug 25	9.5	8.0	9.7	9.4	9.2	7.6	2.9	2.7	2.8	6.8	8.8	7.9	7.8	11.8	12.2	13.1	10.3	10.2	7.0	0.7	3.1	4.3	8.7	10.4	0.7	13.1	6.8
Aug 26	7.6	4.0	4.4	9.3	9.4	5.1	3.4	8.5	8.3	8.3	9.5	12.2	14.9	13.1	14.9	12.9	10.9	11.4	10.4	3.8	1.1	4.2	7.6	7.1	1.1	14.9	4.6
Aug 27	6.7	4.4	3.2	3.8	3.2	4.0	6.5	7.0	8.6	8.1	7.7	8.0	8.6	10.1	8.9	8.8	10.0	6.7	3.9	2.0	0.6	5.0	4.0	3.3	0.6	10.1	5.2
Aug 28	5.8	4.8	4.5	5.3	3.7	5.2	5.0	7.4	8.4	12.2	12.5	16.2	15.5	15.2	13.8	8.9	10.8	9.1	10.1	4.4	3.6	3.5	4.1	2.3	2.3	16.2	7.3
Aug 29	5.2	9.1	8.3	8.0	7.1	7.3	7.0	6.3	7.2	11.0	9.6	10.8	12.9	14.5	14.4	12.5	8.0	9.2	12.4	7.5	6.6	7.9	4.8	3.1	3.1	14.5	6.9
Aug 30	7.1	3.3	6.9	5.7	8.0	5.3	7.6	12.8	9.6	13.1	19.4	23.4	22.6	22.8	27.1	27.1	24.7	18.7	16.8	15.3	12.0	12.1	5.3	0.6	0.6	27.1	11.2
Aug 31	2.2	3.4	3.8	3.8	3.3	4.7	4.9	5.9	5.7	9.0	9.2	11.2	11.5	13.4	16.3	15.3	12.7	13.3	9.4	8.9	11.0	6.4	10.3	9.8	2.2	16.3	7.2
Diurnal Maximum	12	10	13	12	12	15	17	17	17	16	19	23	23	23	27	27	25	19	17	25	24	12	11	11			
Diurnal Average	6.0	5.8	5.8	5.8	5.7	5.4	5.9	7.0	8.1	8.9	9.2	10.8	11.0	10.9	11.0	10.2	9.7	9.0	7.4	5.6	4.8	4.5	4.8	5.4			

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.

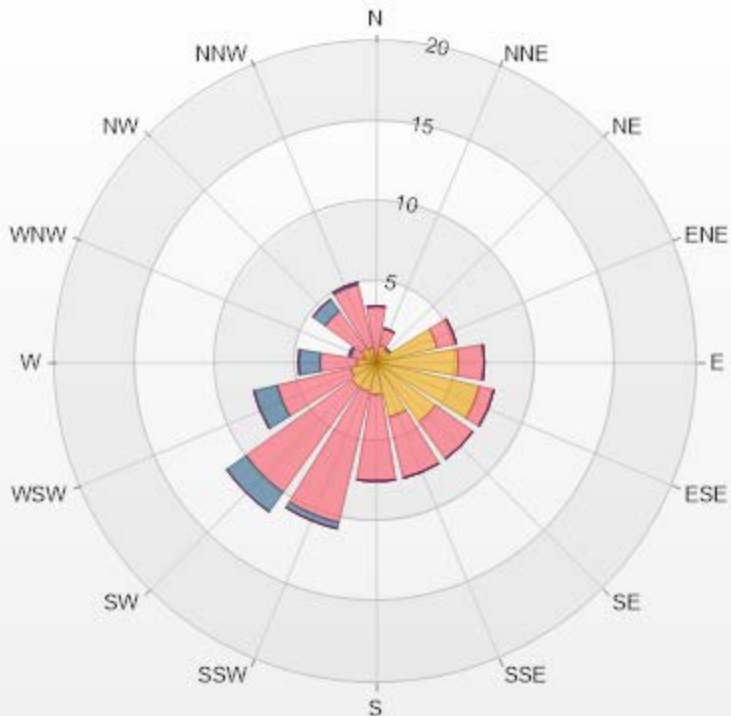
Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 08-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.

Calm: 5.12% Valid Data: 99.73%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.4	3.1	0	0	0	3.5
NNE	1.08	1.08	0	0	0	2.16
NE	0.94	0.13	0	0	0	1.07
ENE	3.91	1.21	0	0	0	5.12
E	5.12	1.62	0	0	0	6.74
ESE	6.6	0.94	0	0	0	7.54
SE	4.58	2.83	0	0	0	7.41
SSE	3.5	3.91	0	0	0	7.41
S	2.02	5.39	0	0	0	7.41
SSW	1.89	8.36	0.4	0	0	10.65
SW	1.89	8.09	1.48	0	0	11.46
WSW	1.62	4.72	1.48	0	0	7.82
W	1.21	2.29	1.35	0	0	4.85
WNW	0.81	0.81	0.13	0	0	1.75
NW	1.08	2.83	0.94	0	0	4.85
NNW	0.94	4.04	0.13	0	0	5.11
Summary	37.59	51.35	5.91	0	0	94.85



PRAMP-202208

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% Icon Classes (KPH)	38	51	6	0	0
1.8-6.0	38				
6.0-15.0		51			
15.0-29.0			6		
29.0-39.0				0	
>39.0					0



PEACE RIVER AREA MONITORING PROGRAM

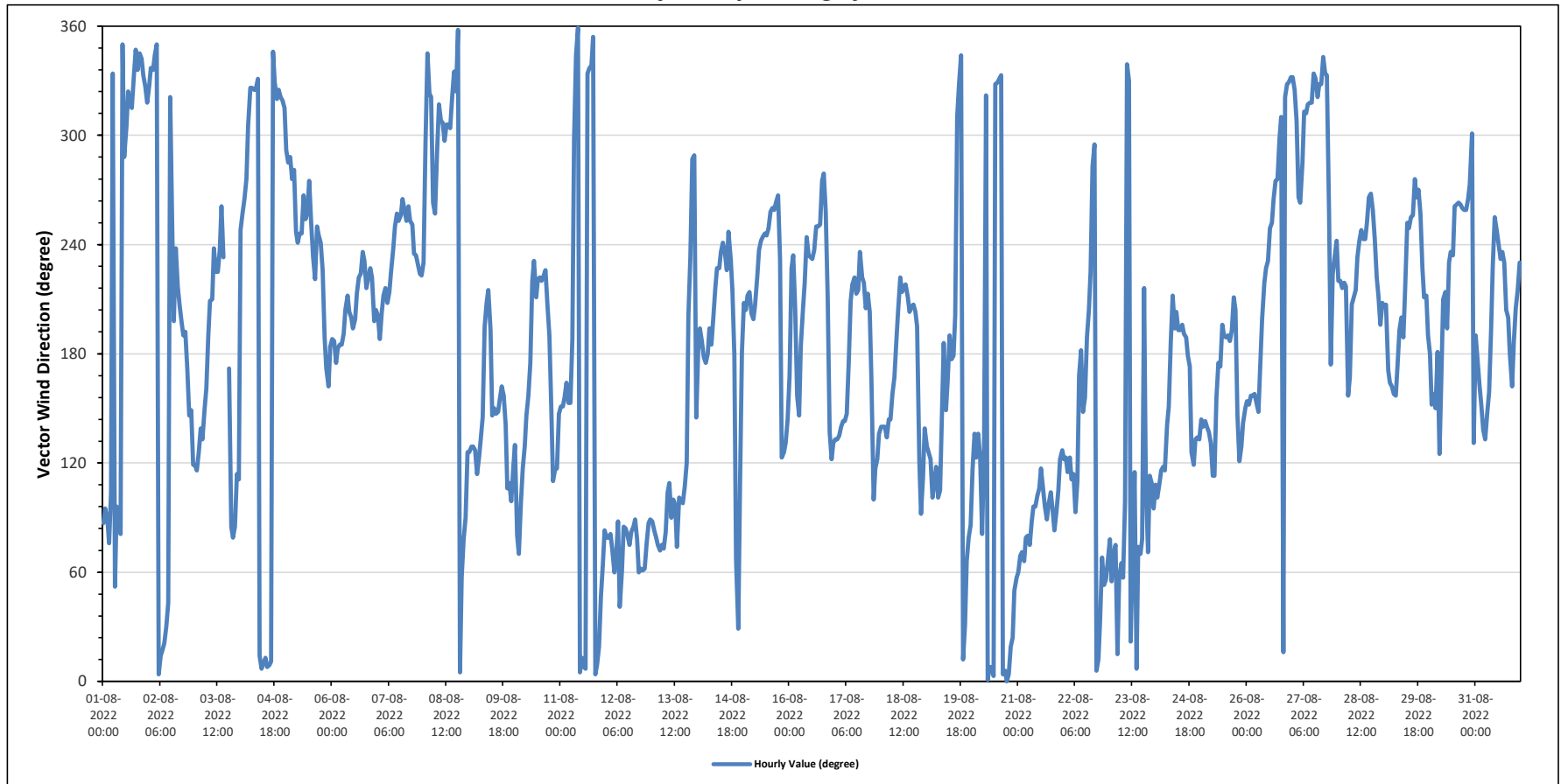
842b Station - August 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		220 (SW) degree										Hours in Service:		744													
												Hours of Data:		742													
												Hours of Missing Data:		0													
												Hours of Calibration:		2													
												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	
Aug 1	E	E	E	ENE	ESE	NNW	NE	E	E	E	N	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	347	NNW	
Aug 2	NW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	NW	WSW	SSW	SW	SW	SSW	SSW	S	S	S	SE	SSE	ESE	348	NNW		
Aug 3	ESE	ESE	SE	SE	SE	SSE	SSE	S	SSW	SSW	SW	SW	SW	SW	W	SW	C	C	S	E	ENE	E	ESE	ESE	191	S	
Aug 4	WSW	WSW	W	W	WNW	NW	NW	NW	NNW	NNE	N	N	NNE	N	N	NNE	NNW	NNW	NW	NW	NW	NW	NW	NW	334	NNW	
Aug 5	WNW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	SW	SW	WSW	WSW	WSW	SW	S	S	SSE	S	235	SW	
Aug 6	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	204	SSW	
Aug 7	SSW	S	SSW	SSW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW	W	WSW	WSW	SW	SW	240	WSW	
Aug 8	SW	WNW	NNW	NW	NW	W	WSW	WNW	NW	NW	NW	WNW	NW	NW	NNW	NNW	NNW	N	N	ENE	ENE	E	SE	311	NW		
Aug 9	SE	SE	SE	SE	ESE	ESE	SE	SE	SSW	SSW	SSW	S	SE	SSE	SE	SE	SSE	SSE	SSE	SE	ESE	ESE	E	ESE	150	SSE	
Aug 10	SE	E	ENE	E	ESE	SE	SE	SSE	S	SW	SW	SSW	SW	SW	SW	SSW	S	SSE	ESE	ESE	ESE	SE	SE	182	S		
Aug 11	SSE	SSE	SSE	SSE	SSE	SSE	S	WNW	NNW	N	N	NNE	N	N	NNW	NNW	NNW	N	N	NNE	NE	ENE	E	5	N		
Aug 12	ENE	ENE	E	ENE	ENE	ENE	E	NE	ENE	E	E	E	ENE	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	74	ENE		
Aug 13	E	E	ENE	ENE	ENE	ENE	E	ESE	ESE	E	E	E	ENE	E	E	E	E	ESE	ESE	SSW	SW	WNW	WNW	SE	134	SE	
Aug 14	S	SSW	S	S	S	S	SSW	S	SSW	SW	SW	SW	WSW	SW	SW	WSW	SW	SSW	S	ENE	NNE	ESE	S	215	SSW		
Aug 15	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	SW	ESE	SE	SE	234	SW		
Aug 16	SSE	SW	SW	SSW	SSE	SE	S	SSW	SW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	232	SW	
Aug 17	SE	SE	SE	SE	SE	SE	SE	S	SSW	SW	SW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSE	E	ESE	ESE	193	S	
Aug 18	SE	SE	SE	SE	SE	SE	SSE	SSE	S	SSW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	184	S	
Aug 19	SE	SE	ESE	E	ESE	ESE	E	ESE	SSE	S	SSE	SSE	S	S	S	SSW	NW	NNW	NNW	NNE	ENE	ENE	E	139	SE		
Aug 20	ESE	SE	ESE	SE	ESE	E	SE	NW	N	N	N	N	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NE	ENE	4	N	
Aug 21	ENE	ENE	ENE	ENE	ENE	E	ENE	E	E	E	E	ESE	ESE	ESE	E	E	E	ESE	E	E	E	ESE	ESE	SE	93	E	
Aug 22	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	SSE	S	SE	SSE	S	SSW	SW	W	WNW	N	NNE	NE	ENE	NE	ENE	122	ESE		
Aug 23	ENE	NE	ENE	ENE	NNE	ENE	ENE	ENE	E	NNW	NNW	NNE	ENE	ESE	N	ENE	ENE	ENE	SW	ESE	ENE	ESE	ESE	E	66	ENE	
Aug 24	ESE	E	ESE	ESE	ESE	ESE	SE	SSE	S	SSW	SSW	S	S	SSW	S	S	S	S	S	SE	ESE	SE	SE	SE	169	SSE	
Aug 25	SE	SE	SE	SE	SE	SE	ESE	ESE	SSE	S	S	SSW	S	S	S	S	S	SSW	SSW	SE	ESE	SE	SE	SSE	166	SSE	
Aug 26	SSE	SSE	SSE	SSE	SSE	SSE	SE	S	SSW	SW	SW	SW	WSW	WSW	W	W	W	WNW	NW	NNE	NW	NNW	NNW	NNW	242	WSW	
Aug 27	NNW	NW	NW	W	W	WNW	NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	WSW	S	SW	SW	WSW	315	NW	
Aug 28	SW	SW	SW	SW	SW	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	238	SW	
Aug 29	SSW	SSW	S	SSE	SSE	SSE	SSE	S	S	SSW	S	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	221	SW	
Aug 30	S	SSE	SSE	SSE	S	SE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	241	WSW	
Aug 31	S	S	SSE	SSE	SE	SE	SE	SSE	S	SW	WSW	WSW	WSW	SW	SW	SSW	SSW	S	SSE	S	SSW	SSW	SSW	SSW	209	SSW	
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 - August 2022

Summary of Hourly Averages

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

WIND SPEED																													
Maximum Hourly Value:		27.1 kph on August 30 at hour 14										Hours in Service:		744															
Maximum Daily Value:		11.5 kph on August 6										Hours of Data:		742															
Minimum Hourly Value:		0.2 kph on August 14 at hour 20										Hours of Missing Data:		0															
Minimum Daily Value:		1.4 kph on August 2										Hours of Calibration:		2															
Monthly Average:		2.8 kph										Operational Uptime:		100															
WIND DIRECTION																													
Monthly Average:		220 (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		
Aug 1	5.4	6.6	3.1	2.8	4.7	4.7	7.3	6.2	6.7	3.4	0.4	9.2	11.0	11.9	8.7	12.0	8.8	7.0	7.0	6.5	6.3	3.0	7.5	9.6	0.4	12.0	3.9		
E	E	E	ENE	ESE	NNW	NE	E	E	E	N	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW		
Aug 2	8.8	8.6	7.0	8.0	7.8	8.3	10.8	9.1	6.9	6.1	3.2	1.5	3.4	4.5	4.5	2.8	4.4	4.1	5.1	7.6	5.6	5.2	6.4	4.5	1.5	10.8	1.4		
NW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	NW	WSW	SSW	SW	SW	SSW	SSW	S	S	SE	SSE	ESE	ESE	ESE	ESE	ESE	ESE	ESE		
Aug 3	3.3	4.6	5.8	7.3	6.3	8.2	7.9	6.9	8.7	9.7	11.0	11.4	10.3	5.6	5.7	6.3	C	C	1.2	0.3	0.3	1.4	2.2	1.4	0.3	11.4	4.0		
ESE	ESE	SE	SE	SSE	SSE	S	SSW	SSW	SW	SW	SW	SW	W	SW	C	C	S	E	ENE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE		
Aug 4	3.4	7.7	7.2	4.1	3.9	7.5	7.5	8.9	11.8	8.7	3.7	8.1	8.8	9.6	9.9	11.1	7.5	7.2	5.3	7.0	7.1	5.1	4.9	3.5	3.4	11.8	5.9		
WSW	WSW	W	W	WNW	NW	NW	NW	NW	NNW	NNE	N	NNE	N	N	NNE	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW		
Aug 5	1.3	1.9	2.5	2.8	3.9	1.8	1.3	3.6	5.7	5.1	6.8	7.7	7.9	7.9	10.1	10.1	10.0	12.4	12.5	6.8	7.0	8.5	9.0	11.0	1.3	12.5	5.5		
WNW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	SW	SW	WSW	WSW	WSW	WSW	SW	S	S	SSE	S	S	7.8	17.4	11.5	
Aug 6	12.4	9.9	10.9	11.9	12.2	14.7	17.4	16.5	14.1	12.5	13.9	10.7	12.4	12.6	10.6	7.8	12.5	13.9	10.6	9.0	11.0	9.4	10.6	11.3	7.8	17.4	11.5		
S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
Aug 7	8.5	9.4	7.0	7.6	9.2	10.8	10.1	11.3	12.3	13.8	16.3	17.2	17.7	16.5	18.9	18.6	18.5	15.2	13.2	9.0	3.7	4.1	8.6	9.6	3.7	18.9	11.1		
SSW	S	SSW	SSW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	
Aug 8	5.8	6.9	13.4	8.9	6.1	4.6	4.4	10.1	17.3	15.9	18.6	19.8	19.0	19.0	16.4	15.1	10.4	9.1	6.0	3.1	0.5	0.9	1.6	3.3	0.5	19.8	8.6		
SW	WNW	NNW	NW	NW	W	WSW	WNW	NW	NW	WNW	NW	WNW	NW	WNW	NW	NNW	NNW	NW	N	ENE	ENE	E	SE	E	SE	E	SE	E	
Aug 9	4.4	3.5	3.8	2.6	3.5	4.3	4.0	4.0	4.2	6.6	7.2	6.2	4.7	5.7	4.1	8.7	8.5	8.9	7.5	5.1	3.0	3.2	4.2	6.1	2.6	8.9	4.4		
SE	SE	SE	SE	ESE	ESE	SE	SE	SSW	SSW	SSW	S	SE	SSE	SE	SSE	SSE	SSE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	
Aug 10	7.3	3.7	3.4	3.8	5.2	6.0	8.2	8.4	6.0	7.3	7.9	10.5	11.4	11.8	9.8	8.7	7.8	6.0	6.1	2.7	2.4	3.7	4.0	9.0	2.4	11.8	4.7		
SE	E	ENE	E	ESE	SE	SSE	S	SW	SSW	SSW	SW	SW	SSW	SW	SW	SSW	S	SSE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	
Aug 11	10.8	8.9	8.2	9.6	6.1	2.7	4.4	10.1	13.6	14.3	15.0	14.6	12.6	10.7	16.0	14.3	11.4	11.2	8.6	8.6	5.8	2.9	3.3	5.3	2.7	16.0	4.8		
SSE	SSE	SSE	SSE	SSE	SSE	S	WNW	NNW	N	N	NNE	N	N	NNW	NNW	NNW	N	N	N	NNE	NE	ENE	E	E	2.7	16.0	4.8	E	
Aug 12	4.5	4.9	4.8	3.0	3.7	2.9	3.6	2.2	4.3	5.0	5.8	6.8	7.4	6.1	6.4	5.1	5.2	8.1	8.0	8.1	8.0	6.1	4.9	3.5	2.2	8.1	5.2		
ENE	ENE	E	ENE	ENE	ENE	E	NE	ENE	E	E	E	ENE	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	2.2	8.1	5.2	E	
Aug 13	3.6	4.8	5.6	4.2	5.0	1.8	4.2	4.2	3.4	3.8	4.4	5.2	4.0	4.2	3.4	3.6	4.6	4.1	2.9	24.9	23.6	9.2	1.2	5.8	1.2	24.9	2.4		
E	E	ENE	ENE	ENE	ENE	ENE	E	ESE	ESE	E	E	E	ENE	E	E	E	ESE	ESE	SSW	SW	WNW	WNW	SE	SE	1.2	24.9	2.4	SE	
Aug 14	12.4	8.0	7.3	7.4	7.7	8.0	9.9	8.5	10.8	14.4	14.8	18.2	19.1	20.2	20.6	18.1	16.1	13.9	9.8	6.6	0.2	1.4	2.2	6.0	0.2	20.6	9.8		
S	SSW	S	S	S	S	SSW	S	SSW	SW	SW	SW	SW	SW	SSW	SW	SSW	SW	SSW	S	ENE	NNE	ESE	S	S	0.2	20.6	9.8	SE	
Aug 15	8.5	8.6	9.0	9.6	9.0	9.6	10.3	11.2	13.4	13.8	14.5	14.4	14.1	14.5	15.0	13.8	14.0	10.2	5.8	1.3	0.9	2.4	4.3	2.9	0.9	15.0	8.5		
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	SW	ESE	SE	SE	SE	SE	0.9	15.0	8.5	SE
Aug 16	5.8	7.2	3.0	2.3	5.5	4.1	4.7	5.7	10.5	11.9	12.2	15.8	14.9	13.0	13.4	10.2	8.8	10.5	7.3	2.1	0.3	0.2	1.1	2.8	0.2	15.8	6.1		
SSE	SW	SW	SSW	SSE	SE	S	SSW	SW	WSW	SW	SW	SW	SSW	WSW	WSW	WSW	W	W	WSW	SSW	SE	ESE	SE	SE	SE	0.2	15.8	6.1	SE
Aug 17	3.0	3.0	3.7	4.6	5.1	5.3	5.7	6.0	8.8	9.8	10.6	12.4	12.1	9.6	9.3	8.3	9.1	8.0	6.5	1.9	1.9	2.7	3.7	6.5	1.9	12.4	5.3		
SE	SE	SE	SE	SE	SE	SE	SE	S	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	1.9	12.4	5.3	SE
Aug 18	8.2	8.8	8.6	7.1	6.3	2.7	5.1	6.9	8.8	9.4	9.4	11.2	11.6	10.4	11.0	10.1	9.8	7.3	6.7	1.7	1.0	1.9	2.9	6.9	1.0	11.6	6.0		
SE	SE	SE	SE	SE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	ESE	E	ESE	ESE	ESE	ESE	1.0	11.6	6.0	SE
Aug 19	6.1	6.3	5.2	3.3	3.9	2.9	4.1	3.1	3.2	5.2	1.8	7.1	7.6	5.7	4.9	0.4	3.9	3.9	1.2	1.8	1.6	1.4	2.0	1.3	0.4	7.6	2.1		
SE	SE	ESE	E	ESE	ESE	E	ESE	SSE	S	SSE	SSE	S	S	S	SSW	NW	NNW	NNW	NNE	NNE	ENE	ENE	E	E	0.4	7.6	2.1	E	
Aug 20	2.3	1.6	2.8	3.6	2.3	1.6	1.9	2.5	7.1	8.9	9.3	10.0	11.8	10.2	11.1	10.6	9.9	9.1	7.3	6.5	7.8	8.9	4.7	3.8	1.6	11.8	5.0		
ESE	SE	ESE	SE	ESE	E	SE	NW	N	N	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NE	ENE	ENE	1.6	11.8	5.0	ENE



PEACE RIVER AREA MONITORING PROGRAM

842b Station - August 2022

Summary of Hourly Averages

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

WIND SPEED		Maximum Hourly Value: 27.1 kph on August 30 at hour 14		Hours in Service: 744																																				
WIND DIRECTION		Maximum Daily Value: 11.5 kph on August 6		Hours of Data: 742																																				
		Minimum Hourly Value: 0.2 kph on August 14 at hour 20		Hours of Missing Data: 0																																				
		Minimum Daily Value: 1.4 kph on August 2		Hours of Calibration: 2																																				
		Monthly Average: 2.8 kph		Operational Uptime: 100																																				
		Monthly Average: 220 (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																
Aug 21	5.2	6.3	6.7	8.6	6.0	4.6	3.8	8.1	11.1	9.3	7.6	7.6	7.8	7.2	7.0	6.4	6.2	6.6	5.7	3.6	4.1	4.2	3.7	5.2	3.6	11.1	6.1													
	ENE	ENE	ENE	ENE	ENE	E	ENE	E	E	E	E	ESE	ESE	ESE	E	E	E	ESE	E	E	E	ESE	ESE	SE																
Aug 22	5.4	5.2	4.7	6.1	3.7	4.6	3.9	3.6	4.7	5.5	1.4	6.3	4.7	5.6	1.9	3.5	3.3	4.1	4.4	2.2	2.4	3.1	3.5	3.8	1.4	6.3	2.0													
	ESE	ESE	ESE	ESE	ESE	E	ESE	SSE	S	SE	SSE	S	SSW	SW	W	WNW	N	NNE	NE	ENE	NE	NE	ENE	ENE																
Aug 23	3.6	3.0	2.4	2.1	2.6	2.3	2.1	2.9	2.6	1.0	3.4	5.3	4.2	3.7	4.3	3.5	4.1	2.7	6.0	0.2	1.1	2.9	3.2	2.1	0.2	6.0	1.9													
	ENE	NE	ENE	ENE	NNE	ENE	ENE	ENE	E	NNW	NNW	NNE	ENE	ESE	N	ENE	ENE	ENE	SW	ESE	ENE	ESE	ESE	E																
Aug 24	1.9	4.2	3.3	2.2	3.6	3.1	2.4	7.7	4.9	6.3	9.5	7.9	7.8	9.3	9.6	8.3	6.5	5.7	3.5	4.4	4.3	5.5	5.9	1.9	9.6	4.7														
	ESE	E	ESE	ESE	ESE	ESE	SE	SSE	S	SSW	SSW	SSW	S	S	SSW	S	S	S	SE	ESE	SE	SE	SE	SE																
Aug 25	9.5	8.0	9.7	9.4	9.2	7.6	2.9	2.7	2.8	6.8	8.8	7.9	7.8	11.8	12.2	13.1	10.3	10.2	7.0	0.7	3.1	4.3	8.7	10.4	0.7	13.1	6.8													
	SE	SE	SE	SE	SE	SE	ESE	ESE	SSE	S	S	SSW	S	S	S	S	S	SSW	SSW	SE	ESE	SE	SE	SSE																
Aug 26	7.6	4.0	4.4	9.3	9.4	5.1	3.4	8.5	8.3	8.3	9.5	12.2	14.9	13.1	14.9	12.9	10.9	11.4	10.4	3.8	1.1	4.2	7.6	7.1	1.1	14.9	4.6													
	SSE	SSE	SSE	SSE	SSE	SE	S	SSW	SW	SW	SW	WSW	WSW	W	W	W	WNW	NW	NNE	NW	NNW	NNW	NNW	NNW																
Aug 27	6.7	4.4	3.2	3.8	3.2	4.0	6.5	7.0	8.6	8.1	7.7	8.0	8.6	10.1	8.9	8.8	10.0	6.7	3.9	2.0	0.6	5.0	4.0	3.3	0.6	10.1	5.2													
	NNW	NW	NW	W	W	WNW	NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	WSW	S	SW	SW	WSW																
Aug 28	5.8	4.8	4.5	5.3	3.7	5.2	5.0	7.4	8.4	12.2	12.5	16.2	15.5	15.2	13.8	8.9	10.8	9.1	10.1	4.4	3.6	3.5	4.1	2.3	2.3	16.2	7.3													
	SW	SW	SW	SW	SW	SSE	SSE	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	SW	SSW	SSW	SSW																
Aug 29	5.2	9.1	8.3	8.0	7.1	7.3	7.0	6.3	7.2	11.0	9.6	10.8	12.9	14.5	14.4	12.5	8.0	9.2	12.4	7.5	6.6	7.9	4.8	3.1	3.1	14.5	6.9													
	SSW	SSW	S	SSE	SSE	SSE	SSE	S	S	SSW	S	SSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	SW	SSW	SSW	S																
Aug 30	7.1	3.3	6.9	5.7	8.0	5.3	7.6	12.8	9.6	13.1	19.4	23.4	22.6	22.8	27.1	27.1	24.7	18.7	16.8	15.3	12.0	12.1	5.3	0.6	0.6	27.1	11.2													
	S	SSE	SSE	SSE	S	SE	SSE	SSW	SSW	SSW	SW	SW	W	W	W	W	W	WSW	WSW	W	W	WNW	SE	SE																
Aug 31	2.2	3.4	3.8	3.8	3.3	4.7	4.9	5.9	5.7	9.0	9.2	11.2	11.5	13.4	16.3	15.3	12.7	13.3	9.4	8.9	11.0	6.4	10.3	9.8	2.2	16.3	7.2													
	S	S	SSE	SSE	SE	SE	SE	SSE	S	SW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	S	SSE	S	SSW	SSW	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 (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

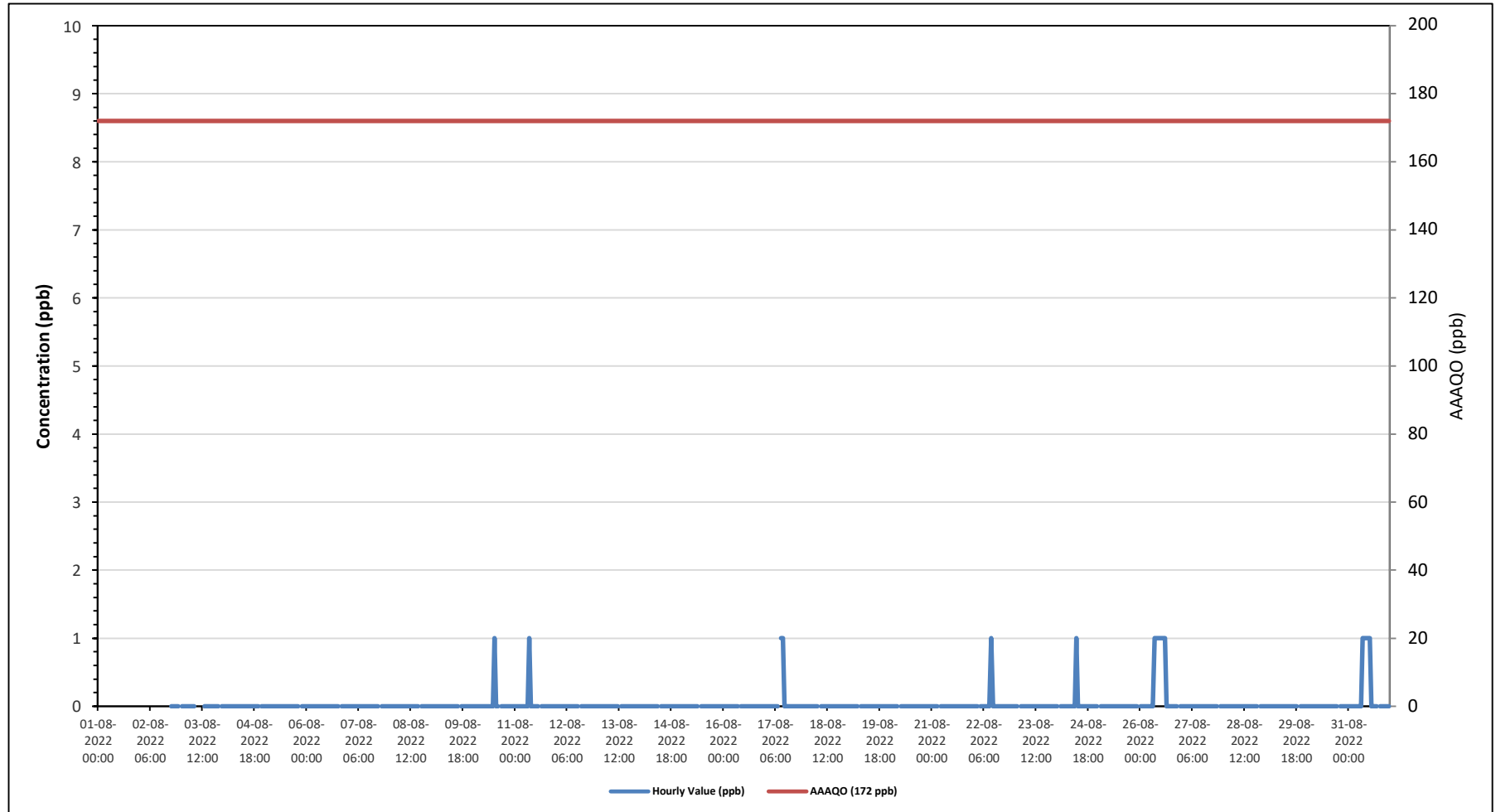
Reno Station - August 2022

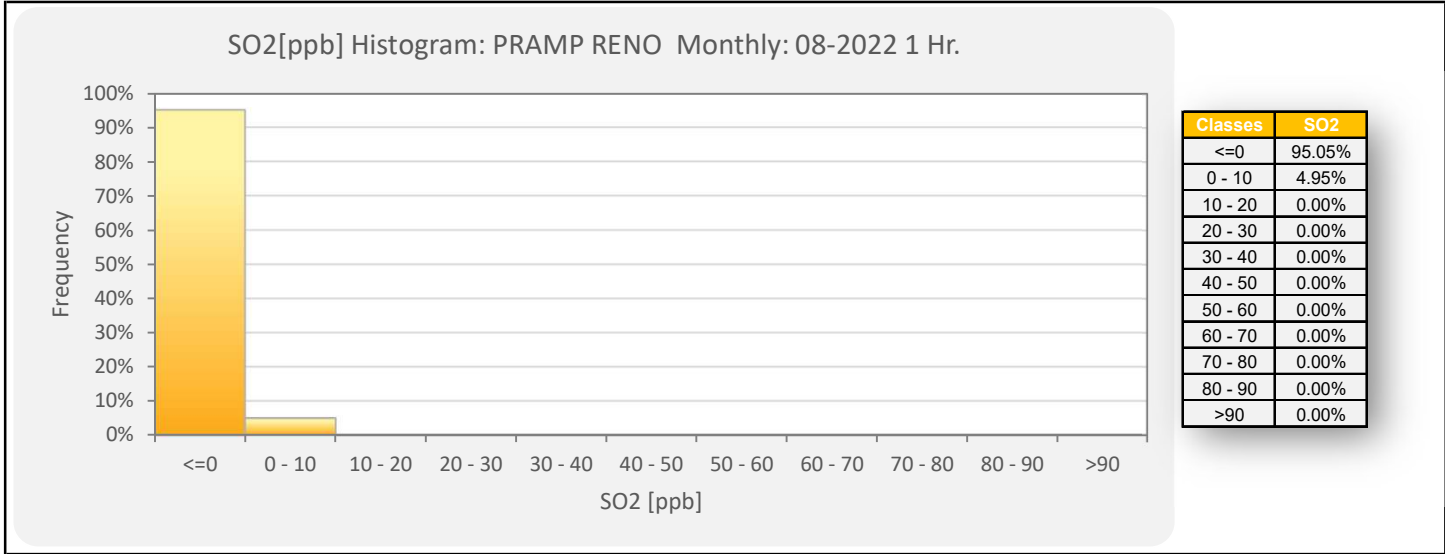
Summary of Hourly Averages

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 August 10 at hour 12					Hours in Service: 744																							
Maximum Daily Value: 0.3 ppb on August 26					Hours of Data: 666																							
Minimum Hourly Value: 0 ppb on August 1 at hour 18					Hours of Missing Data: 42																							
Minimum Daily Value: 0.0 ppb on August 3					Hours of Calibration: 36																							
Monthly Average: 0.0 ppb					Operational Uptime: 94.4																							
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	
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	-
Aug 3	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0	
Aug 4	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	0.0	
Aug 5	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	
Aug 6	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	
Aug 7	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	
Aug 8	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	
Aug 9	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	
Aug 10	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.0	
Aug 11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.0	
Aug 12	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	
Aug 13	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	
Aug 14	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	
Aug 15	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	
Aug 16	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	
Aug 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	1	0.1	
Aug 18	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	
Aug 19	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	
Aug 20	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	
Aug 21	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	
Aug 22	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	1	0.0	
Aug 23	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	
Aug 24	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	1	0.0	
Aug 25	S	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	
Aug 26	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	S	0	0	1	0.3	
Aug 27	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	
Aug 28	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	
Aug 29	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	
Aug 30	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	
Aug 31	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	1	0.2	
Diurnal Maximum	0	0	0	0	0	0	0	0	1	1	1	1	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	0.1	0.1	0.1	0.1	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	
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.																												

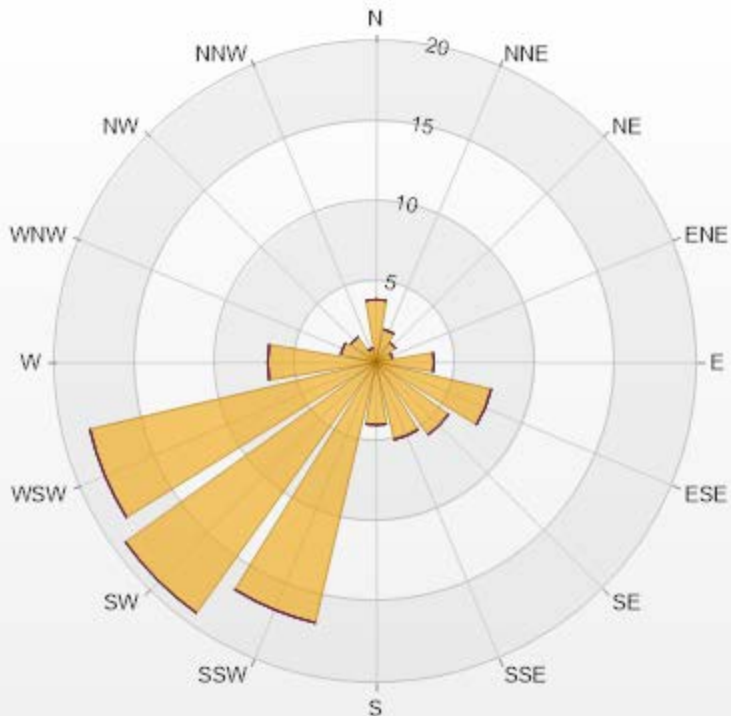
Timeseries Chart of Hourly Average for SO2 - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 89.52% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	3.9	0	0	0	0	3.9
NNE	2.1	0	0	0	0	2.1
NE	1.5	0	0	0	0	1.5
ENE	1.05	0	0	0	0	1.05
E	3.6	0	0	0	0	3.6
ESE	7.36	0	0	0	0	7.36
SE	5.56	0	0	0	0	5.56
SSE	4.95	0	0	0	0	4.95
S	3.9	0	0	0	0	3.9
SSW	16.67	0	0	0	0	16.67
SW	19.22	0	0	0	0	19.22
WSW	18.32	0	0	0	0	18.32
W	6.76	0	0	0	0	6.76
WNW	2.25	0	0	0	0	2.25
NW	1.95	0	0	0	0	1.95
NNW	0.9	0	0	0	0	0.9
Summary	100	0	0	0	0	100



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% 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 - August 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

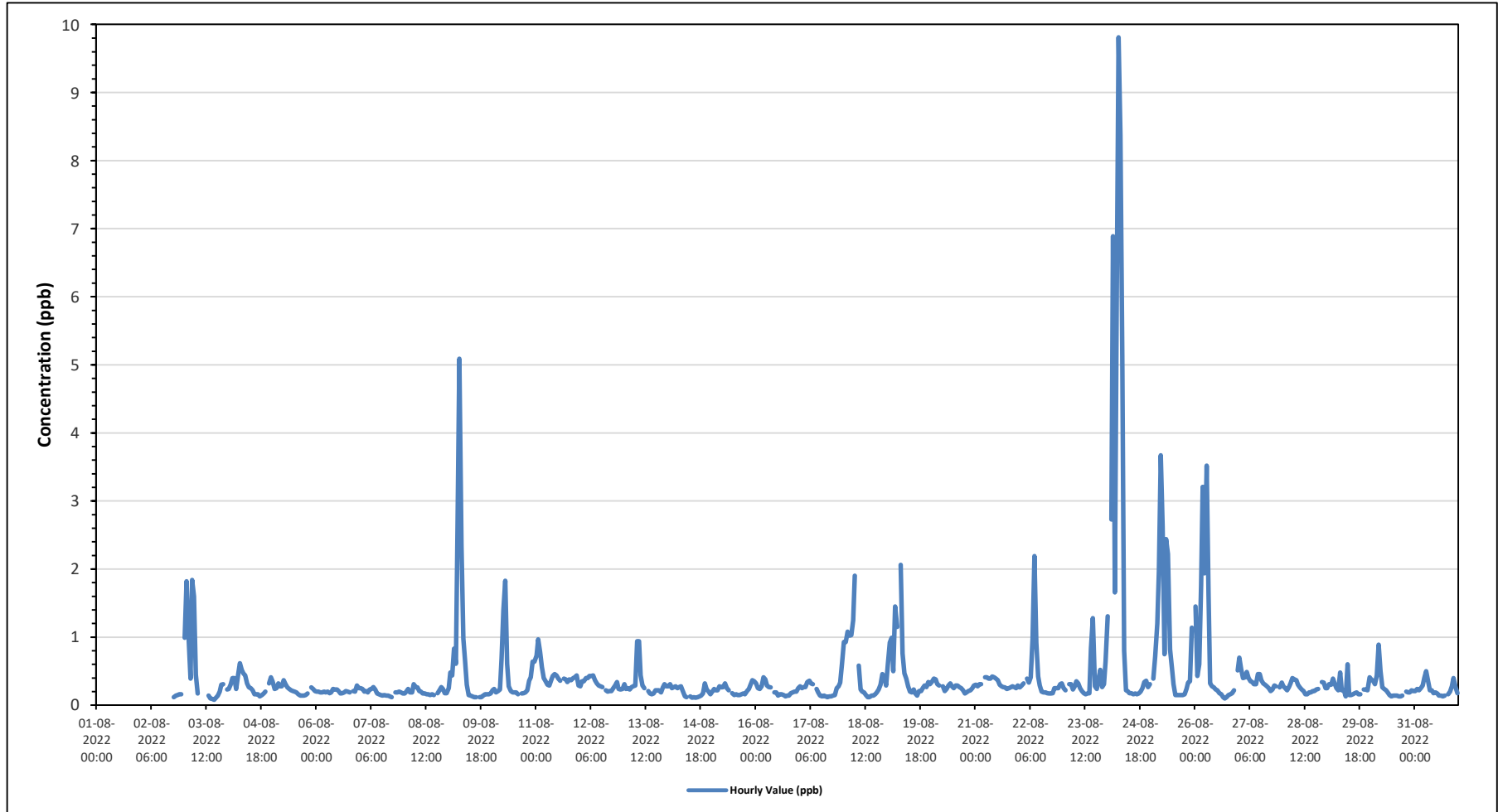
Maximum Hourly Value:	9.81 ppb on August 24 at hour 6	Hours in Service:	744
Maximum Daily Value:	1.99 ppb on August 24	Hours of Data:	666
Minimum Hourly Value:	0.08 ppb on August 3 at hour 16	Hours of Missing Data:	42
Minimum Daily Value:	0.19 ppb on August 7	Hours of Calibration:	36
Monthly Average:	0.42 ppb	Operational Uptime:	94.4

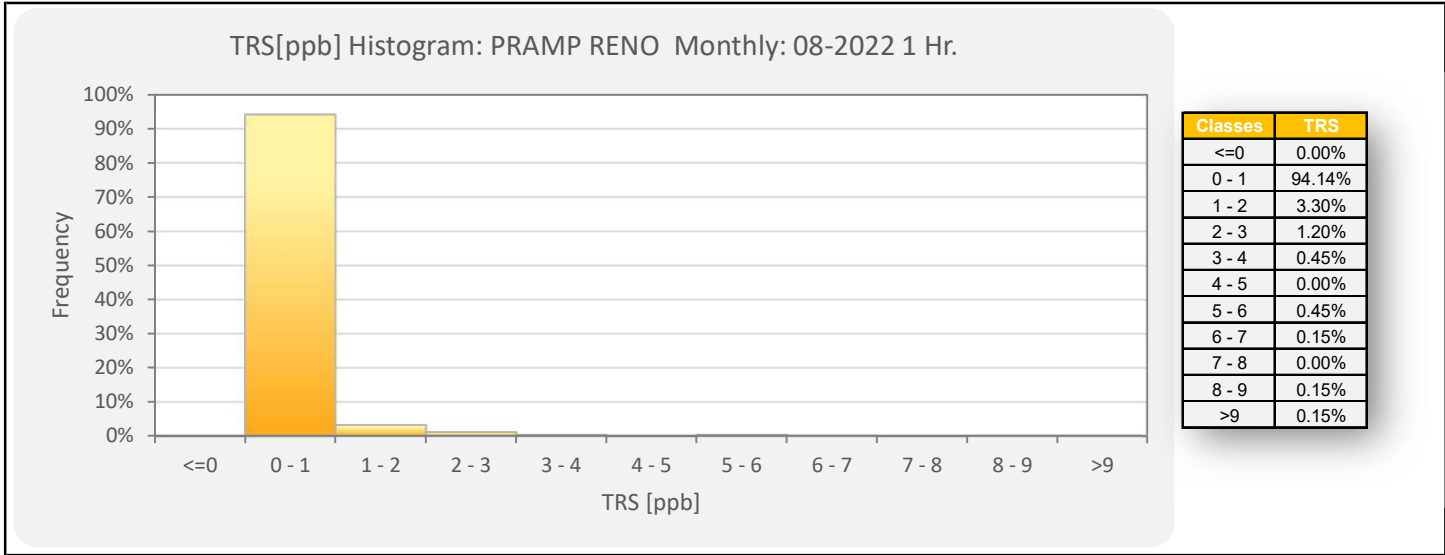
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23	
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 3	0.99	1.82	0.98	0.39	1.84	1.6	0.45	0.17	C	C	C	C	C	0.14	0.1	0.09	0.08	0.11	0.14	0.2	0.3	0.31	S	0.23	0.08	1.84	0.55	
Aug 4	0.24	0.3	0.4	0.4	0.24	0.44	0.62	0.52	0.47	0.44	0.32	0.26	0.25	0.22	0.16	0.16	0.16	0.13	0.15	0.17	0.2	S	0.32	0.41	0.13	0.62	0.30	
Aug 5	0.35	0.24	0.25	0.32	0.28	0.28	0.37	0.31	0.26	0.24	0.22	0.21	0.2	0.19	0.16	0.14	0.14	0.14	0.15	0.17	S	0.26	0.24	0.21	0.14	0.37	0.23	
Aug 6	0.2	0.2	0.19	0.19	0.2	0.19	0.2	0.18	0.19	0.24	0.23	0.23	0.21	0.17	0.18	0.19	0.21	0.2	0.19	S	0.21	0.2	0.29	0.25	0.17	0.29	0.21	
Aug 7	0.25	0.24	0.2	0.21	0.19	0.23	0.24	0.27	0.23	0.17	0.16	0.15	0.14	0.15	0.14	0.14	0.13	0.12	S	0.19	0.19	0.2	0.19	0.17	0.12	0.27	0.19	
Aug 8	0.17	0.2	0.24	0.19	0.19	0.31	0.27	0.26	0.21	0.2	0.17	0.17	0.16	0.16	0.15	0.16	0.15	S	S	0.18	0.22	0.27	0.24	0.18	0.18	0.15	0.31	0.20
Aug 9	0.25	0.48	0.44	0.83	0.61	2.57	5.09	2.34	0.98	0.68	0.3	0.15	0.14	0.13	0.12	S	S	0.12	0.12	0.14	0.16	0.16	0.16	0.17	0.12	5.09	0.71	
Aug 10	0.22	0.24	0.19	0.21	0.23	0.68	1.4	1.83	0.61	0.28	0.21	0.19	0.19	0.19	0.16	S	0.17	0.18	0.19	0.22	0.36	0.41	0.64	0.64	0.16	1.83	0.42	
Aug 11	0.73	0.97	0.79	0.56	0.4	0.36	0.3	0.29	0.37	0.43	0.46	0.44	0.39	0.36	S	S	0.39	0.38	0.34	0.38	0.37	0.4	0.41	0.44	0.29	0.97	0.45	
Aug 12	0.28	0.35	0.35	0.4	0.4	0.43	0.43	0.44	0.37	0.32	0.29	0.28	0.27	S	0.22	0.2	0.21	0.21	0.25	0.29	0.34	0.24	0.23	0.24	0.20	0.44	0.31	
Aug 13	0.31	0.24	0.25	0.23	0.27	0.28	0.29	0.94	0.94	0.44	0.29	0.25	S	0.21	0.17	0.16	0.17	0.22	0.22	0.22	0.19	0.26	0.31	0.28	0.16	0.94	0.31	
Aug 14	0.28	0.31	0.25	0.27	0.28	0.25	0.27	0.28	0.21	0.13	0.12	S	0.13	0.11	0.12	0.11	0.12	0.13	0.14	0.17	0.32	0.23	0.2	0.16	0.11	0.32	0.20	
Aug 15	0.2	0.24	0.22	0.22	0.28	0.26	0.27	0.32	0.25	0.22	S	0.18	0.15	0.16	0.15	0.15	0.16	0.17	0.16	0.21	0.24	0.31	0.37	0.35	0.15	0.37	0.23	
Aug 16	0.32	0.25	0.24	0.28	0.41	0.38	0.29	0.27	0.26	S	0.19	0.19	0.14	0.16	0.16	0.15	0.13	0.14	0.14	0.18	0.19	0.2	0.2	0.25	0.13	0.41	0.22	
Aug 17	0.28	0.25	0.27	0.27	0.34	0.36	0.32	0.31	S	0.24	0.19	0.14	0.13	0.14	0.13	0.12	0.13	0.13	0.14	0.15	0.25	0.28	0.33	0.62	0.12	0.62	0.24	
Aug 18	0.93	0.93	1.08	1.02	1.03	1.25	1.9	S	0.58	0.78	0.23	0.2	0.19	0.15	0.12	0.12	0.14	0.14	0.16	0.19	0.23	0.3	0.46	0.42	0.29	0.12	1.90	0.52
Aug 19	0.62	0.92	0.99	0.5	1.45	1.15	S	2.06	0.76	0.47	0.39	0.28	0.2	0.19	0.23	0.17	0.14	0.21	0.21	0.25	0.29	0.27	0.34	0.31	0.14	2.06	0.54	
Aug 20	0.34	0.39	0.38	0.31	0.29	S	0.28	0.21	0.24	0.29	0.32	0.28	0.25	0.29	0.29	0.27	0.25	0.22	0.17	0.19	0.21	0.22	0.25	0.29	0.17	0.39	0.27	
Aug 21	0.3	0.28	0.31	0.31	S	0.41	0.41	0.39	0.39	0.42	0.41	0.39	0.37	0.3	0.28	0.27	0.26	0.24	0.25	0.26	0.28	0.27	0.25	0.29	0.24	0.42	0.32	
Aug 22	0.26	0.29	0.32	S	0.39	0.33	0.41	0.98	2.19	0.92	0.42	0.29	0.2	0.19	0.19	0.18	0.17	0.17	0.18	0.25	0.25	0.25	0.31	0.32	0.17	2.19	0.41	
Aug 23	0.25	0.22	S	0.31	0.31	0.23	0.28	0.35	0.32	0.25	0.21	0.18	0.16	0.17	0.18	0.84	1.28	0.28	0.24	0.37	0.52	0.27	0.31	0.64	0.16	1.28	0.36	
Aug 24	1.31	S	2.73	6.89	1.66	5.95	9.81	8.37	5.13	0.8	0.22	0.21	0.18	0.18	0.16	0.17	0.16	0.17	0.2	0.25	0.34	0.36	0.27	0.31	0.16	9.81	1.99	
Aug 25	S	0.39	0.72	1.2	1.97	3.67	2.62	0.75	2.44	2.22	0.82	0.55	0.31	0.15	0.15	0.15	0.15	0.15	0.16	0.24	0.33	0.35	1.14	S	0.15	3.67	0.94	
Aug 26	1.45	0.43	0.6	1.76	3.21	1.94	3.52	1.63	0.32	0.28	0.26	0.23	0.22	0.18	0.16	0.12	0.1	0.12	0.15	0.16	0.18	0.22	S	0.51	0.10	3.52	0.77	
Aug 27	0.7	0.53	0.4	0.41	0.49	0.4	0.35	0.34	0.31	0.31	0.46	0.46	0.37	0.32	0.3	0.28	0.25	0.21	0.23	0.29	0.28	S	0.26	0.33	0.21	0.70	0.36	
Aug 28	0.28	0.25	0.22	0.27	0.32	0.4	0.38	0.37	0.3	0.26	0.23	0.21	0.16	0.16	0.19	0.19	0.21	0.21	0.23	0.24	S	0.34	0.33	0.25	0.16	0.40	0.26	
Aug 29	0.25	0.31	0.3	0.39	0.32	0.25	0.22	0.48	0.22	0.22	0.13	0.6	0.15	0.15	0.16	0.18	0.19	0.16	0.16	S	0.23	0.23	0.22	0.41	0.13	0.60	0.26	
Aug 30	0.38	0.36	0.31	0.44	0.89	0.5	0.26	0.24	0.22	0.19	0.15	0.13	0.14	0.14	0.14	0.13	0.13	0.14	S	0.2	0.19	0.19	0.22	0.21	0.13	0.89	0.26	
Aug 31	0.21	0.24	0.22	0.25	0.29	0.4	0.5	0.36	0.22	0.22	0.18	0.19	0.17	0.14	0.14	0.13	0.14	S	0.16	0.2	0.28	0.4	0.26	0.18	0.13	0.50	0.24	
Diurnal Maximum	1.45	1.82	2.73	6.89	3.21	5.95	9.81	8.37	5.13	2.22	0.82	0.60	0.39	0.36	0.30	0.84	1.28	0.34	0.38	0.37	0.52	0.46	1.14	0.64				
Diurnal Average	0.44	0.42	0.49	0.68	0.67	0.91	1.13	0.90	0.70	0.41	0.28	0.26	0.20	0.18	0.17	0.20	0.21	0.18	0.19	0.22	0.27	0.28	0.32	0.31				

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.

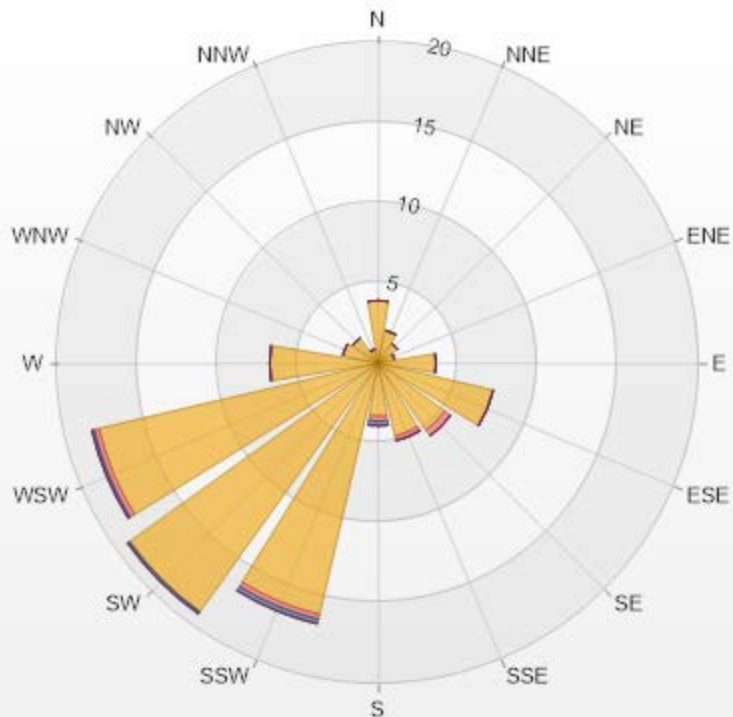
Timeseries Chart of Hourly Average for TRS - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 89.52% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.9	0	0	0	0	3.9
NNE	2.1	0	0	0	0	2.1
NE	1.5	0	0	0	0	1.5
ENE	1.05	0	0	0	0	1.05
E	3.6	0	0	0	0	3.6
ESE	7.36	0	0	0	0	7.36
SE	5.11	0.45	0	0	0	5.56
SSE	4.65	0.3	0	0	0	4.95
S	3.3	0.3	0.3	0	0	3.9
SSW	16.07	0.3	0.3	0	0	16.67
SW	19.07	0	0.15	0	0	19.22
WSW	17.87	0.3	0.15	0	0	18.32
W	6.76	0	0	0	0	6.76
WNW	2.25	0	0	0	0	2.25
NW	1.95	0	0	0	0	1.95
NNW	0.9	0	0	0	0	0.9
Summary	97.44	1.65	0.9	0	0	100



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% Icon Classes (ppb)

97 0-2

2 2-5

1 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

Summary of Hourly Averages

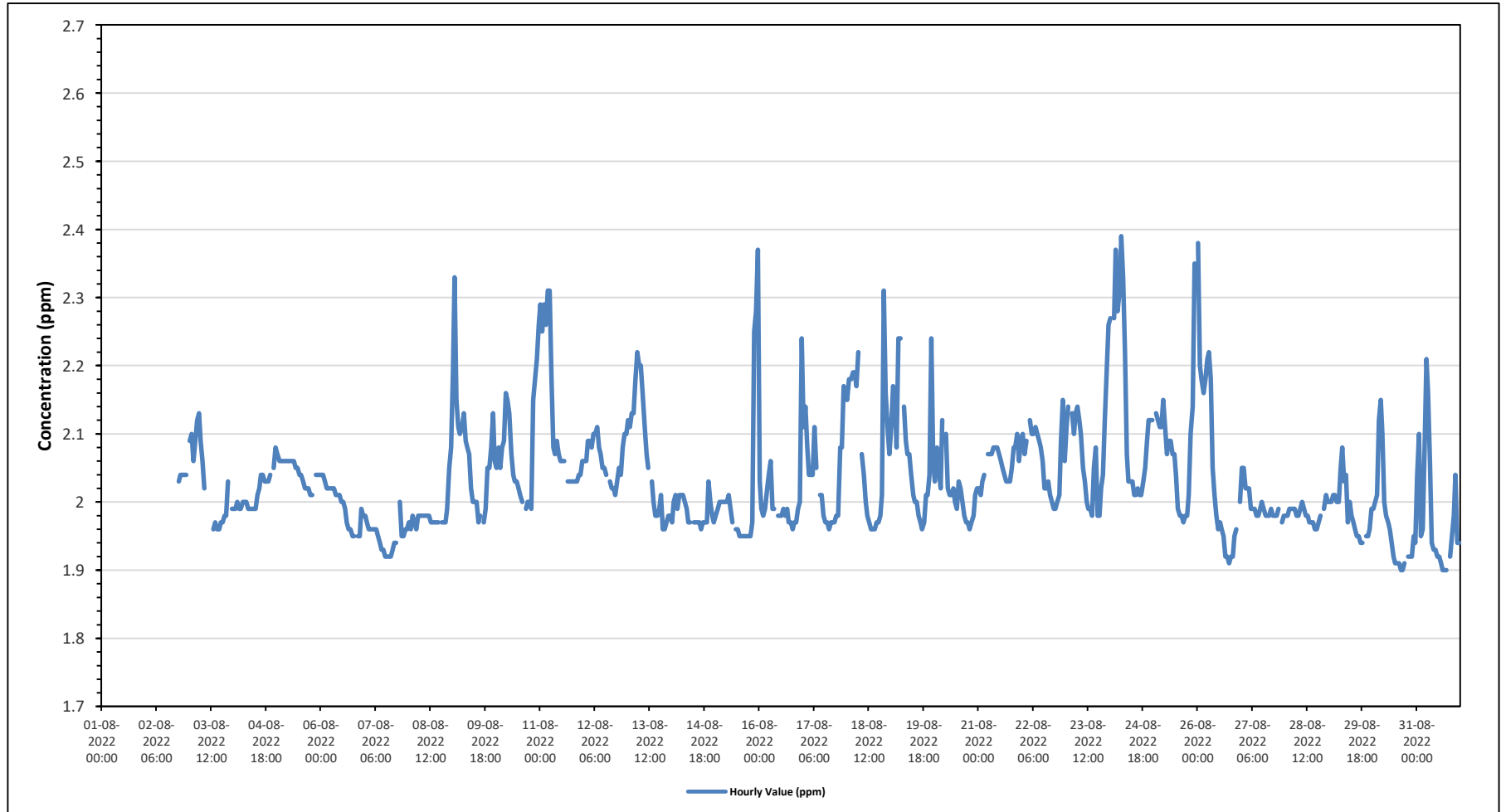
TOTAL HYDROCARBONS (THC) in ppm

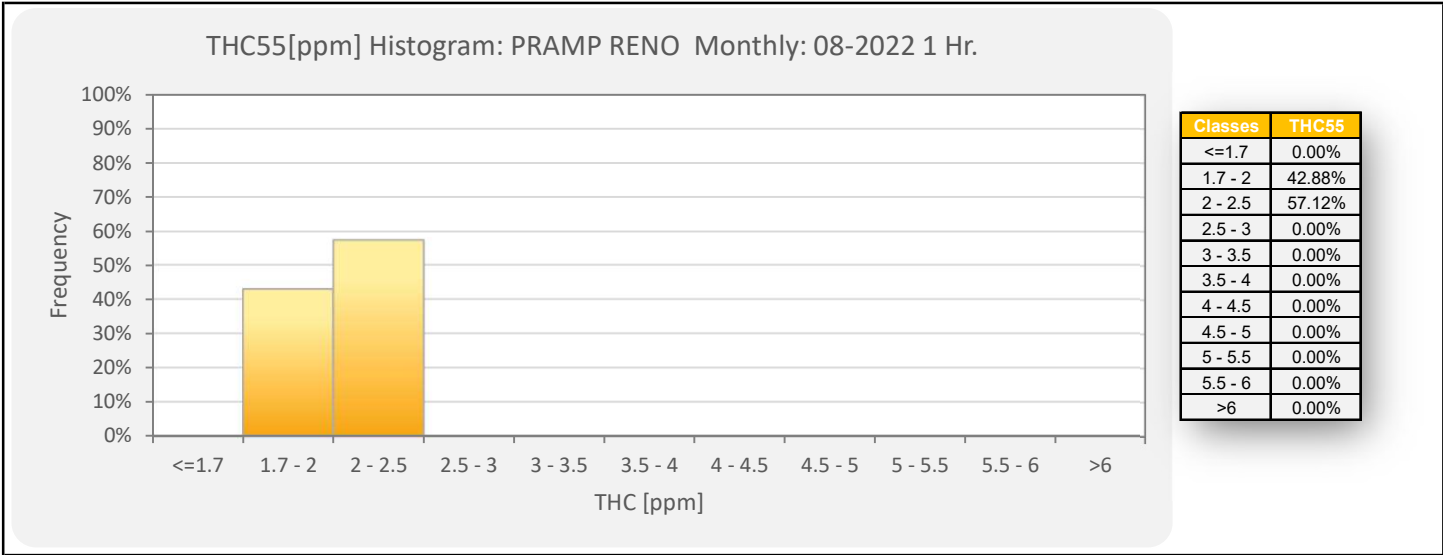
Maximum Hourly Value:	2.39 ppm on August 24 at hour 6	Hours in Service:	744
Maximum Daily Value:	2.14 ppm on August 24	Hours of Data:	667
Minimum Hourly Value:	1.90 ppm on August 30 at hour 15	Hours of Missing Data:	42
Minimum Daily Value:	1.95 ppm on August 7	Hours of Calibration:	35
Monthly Average:	2.03 ppm	Operational Uptime:	94.4

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																
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-																	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2.03	2.04	2.04																	
Aug 3	2.09	2.10	2.06	2.09	2.12	2.13	2.09	2.06	2.02	C	C	C	C	1.96	1.97	1.96	1.96	1.97	1.97	1.98	1.98	2.03	S	1.99	1.96	2.13	2.03																
Aug 4	1.99	1.99	2.00	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.01	2.02	2.04	2.04	2.03	2.03	2.03	2.04	S	2.05	2.08	1.99	2.08	2.01																
Aug 5	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.05	2.04	2.04	2.03	2.02	2.02	2.02	2.01	2.01	2.01	S	2.04	2.04	2.04	2.04																
Aug 6	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.00	2.00	1.99	1.97	1.96	1.96	1.95	1.95	S	1.95	1.95	1.99	1.98	1.95	2.04	2.00																
Aug 7	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.93	1.94	1.94	S	2.00	1.95	1.95	1.96	1.96	1.92	2.00	1.95																
Aug 8	1.97	1.96	1.98	1.97	1.96	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	S	1.97	1.97	1.97	1.99	1.99	2.05	2.08	1.96	2.08																
Aug 9	2.19	2.33	2.15	2.11	2.10	2.11	2.13	2.09	2.08	2.07	2.02	2.00	2.00	1.97	1.98	S	1.97	1.99	2.05	2.05	2.08	2.13	2.06	1.97	2.33	2.07	2.06																
Aug 10	2.05	2.08	2.05	2.08	2.09	2.16	2.15	2.13	2.07	2.04	2.03	2.03	2.02	2.01	2.00	S	1.99	2.00	1.99	2.15	2.18	2.21	2.26	1.99	2.26	2.08	2.07																
Aug 11	2.29	2.25	2.29	2.26	2.31	2.31	2.18	2.08	2.07	2.09	2.07	2.06	2.06	S	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.06	2.03	2.31	2.12	2.12																
Aug 12	2.06	2.06	2.09	2.09	2.08	2.10	2.10	2.11	2.08	2.07	2.05	2.05	2.04	S	2.03	2.02	2.02	2.01	2.03	2.05	2.04	2.08	2.10	2.10	2.01	2.11	2.06																
Aug 13	2.12	2.11	2.13	2.13	2.18	2.22	2.20	2.20	2.16	2.11	2.07	2.05	S	2.03	2.00	1.98	1.98	1.99	2.01	1.96	1.96	1.97	1.98	1.98	1.96	2.22	2.07																
Aug 14	1.97	2.00	2.01	1.99	2.01	2.01	2.01	2.00	1.99	1.97	1.97	S	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	2.03	2.00	1.98	1.97	1.96	2.03	1.99																
Aug 15	1.98	1.99	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.97	S	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.97	2.25	2.28	2.37	1.95	2.02																
Aug 16	2.03	1.99	1.98	1.99	2.02	2.04	2.06	1.99	1.99	S	1.98	1.98	1.98	1.99	1.98	1.99	1.97	1.97	1.96	1.97	1.97	1.99	2.00	2.24	1.96	2.24	2.00																
Aug 17	2.11	2.14	2.08	2.04	2.04	2.04	2.11	2.05	S	2.01	2.01	1.98	1.97	1.97	1.96	1.97	1.97	1.97	1.98	1.98	2.08	2.08	2.17	2.16	1.96	2.17	2.04																
Aug 18	2.15	2.18	2.18	2.19	2.19	2.17	2.22	S	2.07	2.04	2.00	1.98	1.97	1.96	1.96	1.96	1.97	1.97	1.98	2.01	2.31	2.16	2.11	2.07	1.96	2.31	2.08																
Aug 19	2.11	2.17	2.16	2.08	2.24	2.24	S	2.14	2.09	2.07	2.07	2.04	2.01	2.00	2.00	1.98	1.97	1.96	1.97	2.01	2.01	2.04	2.24	2.06	1.96	2.24	2.07																
Aug 20	2.03	2.08	2.05	2.02	2.12	S	2.10	2.02	2.01	2.01	2.02	2.00	1.99	2.03	2.02	2.00	1.98	1.97	1.97	1.96	1.97	1.98	2.01	2.02	1.96	2.12	2.02																
Aug 21	2.02	2.01	2.03	2.04	S	2.07	2.07	2.07	2.08	2.08	2.08	2.07	2.06	2.05	2.04	2.03	2.03	2.03	2.05	2.08	2.10	2.10	2.06	2.09	2.01	2.10	2.06																
Aug 22	2.10	2.07	2.09	S	2.12	2.10	2.10	2.11	2.10	2.09	2.08	2.06	2.02	2.02	2.03	2.01	2.00	1.99	1.99	2.00	2.01	2.09	2.15	2.06	1.99	2.15	2.06																
Aug 23	2.11	2.14	S	2.13	2.10	2.13	2.14	2.12	2.10	2.05	2.03	2.00	1.99	1.99	1.98	2.05	2.08	1.98	1.98	2.02	2.04	2.12	2.20	2.26	1.98	2.26	2.08																
Aug 24	2.27	S	2.27	2.37	2.28	2.31	2.39	2.33	2.22	2.07	2.03	2.03	2.03	2.01	2.01	2.02	2.01	2.01	2.03	2.05	2.09	2.12	2.12	2.12	2.01	2.39	2.14																
Aug 25	S	2.13	2.12	2.11	2.11	2.15	2.11	2.07	2.09	2.09	2.07	2.07	2.04	1.99	1.98	1.98	1.97	1.98	1.98	2.01	2.10	2.14	2.35	S	1.97	2.35	2.07																
Aug 26	2.38	2.20	2.18	2.16	2.18	2.21	2.22	2.18	2.05	2.01	1.98	1.96	1.97	1.96	1.95	1.92	1.92	1.91	1.92	1.92	1.95	1.96	S	2.00	1.91	2.38	2.05																
Aug 27	2.05	2.05	2.02	2.02	2.02	1.99	1.99	1.99	1.98	1.98	1.99	2.00	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.99	S	1.97	1.98	1.97	2.05	1.99																
Aug 28	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.99	2.00	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.97	1.98	S	1.99	2.01	2.00	1.96	2.01	1.98	1.98																
Aug 29	2.00	2.00	2.01	2.01	2.00	2.00	2.05	2.08	2.03	2.04	1.97	2.00	1.98	1.97	1.96	1.95	1.95	1.94	1.94	S	1.95	1.95	1.96	1.99	1.94	2.08	1.99																
Aug 30	1.99	2.00	2.01	2.12	2.15	2.10	2.00	1.98	1.97	1.96	1.94	1.92	1.91	1.91	1.91	1.90	1.90	1.91	S	1.92	1.92	1.92	1.95	1.94	1.90	2.15	1.97																
Aug 31	2.04	2.10	1.95	1.96	2.08	2.21	2.16	2.06	1.94	1.93	1.93	1.92	1.92	1.91	1.90	1.90	1.90	S	1.92	1.95	1.98	2.04	1.94	1.94	1.90	2.21	1.98																
Diurnal Maximum	2.38	2.33	2.29	2.37	2.31	2.31	2.39	2.33	2.22	2.11	2.08	2.07	2.06	2.06	2.04	2.05	2.08	2.03	2.05	2.08	2.31	2.25	2.35	2.37																			
Diurnal Average	2.08	2.08	2.07	2.07	2.09	2.10	2.09	2.07	2.04	2.03	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	2.00	2.02	2.05	2.07	2.07																			
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.

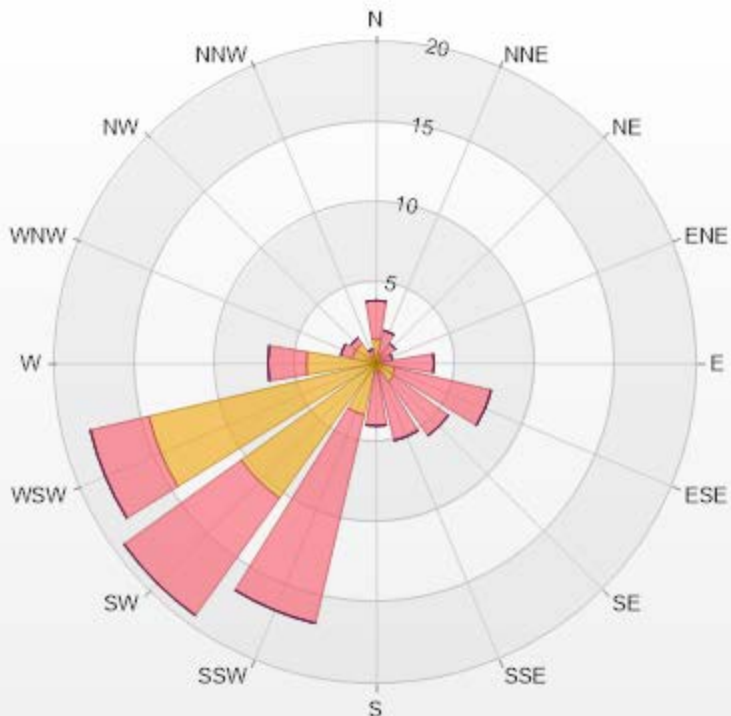
Timeseries Chart of Hourly Average for THC - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 89.65% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.5	2.4	0	0	0	3.9
NNE	0.6	1.5	0	0	0	2.1
NE	0.45	1.05	0	0	0	1.5
ENE	0.3	0.75	0	0	0	1.05
E	0.45	3.15	0	0	0	3.6
ESE	1.2	6.15	0	0	0	7.35
SE	1.35	4.2	0	0	0	5.55
SSE	0.6	4.35	0	0	0	4.95
S	0.45	3.45	0	0	0	3.9
SSW	3.3	13.34	0	0	0	16.64
SW	10.34	9	0	0	0	19.34
WSW	14.54	3.75	0	0	0	18.29
W	4.35	2.4	0	0	0	6.75
WNW	1.5	0.75	0	0	0	2.25
NW	1.5	0.45	0	0	0	1.95
NNW	0.45	0.45	0	0	0	0.9
Summary	42.88	57.14	0	0	0	100



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% Icon Classes (ppm)	43	0-2	57	2-5	0	5-10	0	10-40	0	>40.0
		■	■	■	■	■				



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

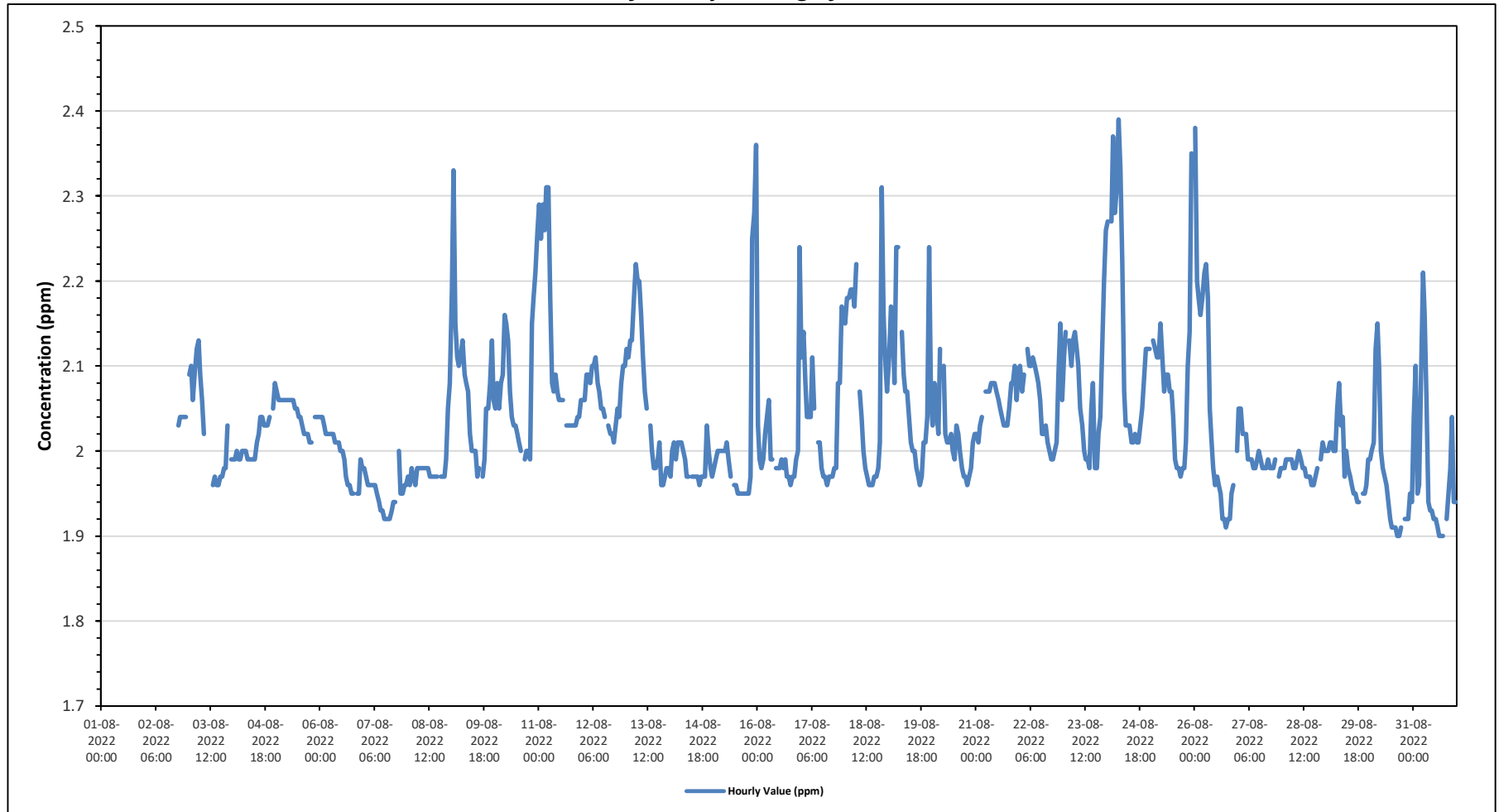
Maximum Hourly Value:	2.39 ppm on August 24 at hour 6	Hours in Service:	744
Maximum Daily Value:	2.14 ppm on August 24	Hours of Data:	667
Minimum Hourly Value:	1.90 ppm on August 30 at hour 15	Hours of Missing Data:	42
Minimum Daily Value:	1.95 ppm on August 7	Hours of Calibration:	35
Monthly Average:	2.03 ppm	Operational Uptime:	94.4

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	2.03	2.04	2.04
Aug 3	2.09	2.10	2.06	2.09	2.12	2.13	2.09	2.06	2.02	C	C	C	C	1.96	1.97	1.96	1.96	1.97	1.97	1.98	1.98	2.03	S	1.99	1.96	2.13	2.03
Aug 4	1.99	1.99	2.00	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.01	2.02	2.04	2.04	2.03	2.03	2.03	2.04	S	2.05	2.08	1.99	2.08	2.01
Aug 5	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.05	2.04	2.04	2.03	2.02	2.02	2.02	2.01	2.01	S	2.04	2.04	2.04	2.01	2.07	2.04
Aug 6	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.00	2.00	1.99	1.97	1.96	1.96	1.95	1.95	S	1.95	1.95	1.99	1.98	1.95	2.04	2.00
Aug 7	1.98	1.97	1.96	1.96	1.96	1.96	1.96	1.95	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.93	1.94	1.94	S	2.00	1.95	1.95	1.96	1.96	1.92	2.00	1.95
Aug 8	1.97	1.96	1.98	1.97	1.96	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	S	S	1.97	1.97	1.97	1.99	2.05	2.08	1.96	2.08	1.98
Aug 9	2.19	2.33	2.15	2.11	2.10	2.11	2.13	2.09	2.08	2.07	2.02	2.00	2.00	1.97	1.98	S	S	1.97	1.99	2.05	2.05	2.08	2.13	2.06	1.97	2.33	2.07
Aug 10	2.05	2.08	2.05	2.08	2.09	2.16	2.15	2.13	2.07	2.04	2.03	2.03	2.02	2.01	2.00	S	S	1.99	2.00	1.99	2.15	2.18	2.21	2.26	1.99	2.26	2.08
Aug 11	2.29	2.25	2.29	2.26	2.31	2.31	2.18	2.08	2.07	2.09	2.07	2.06	2.06	S	S	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.06	2.03	2.31	2.12
Aug 12	2.06	2.06	2.09	2.09	2.08	2.10	2.10	2.11	2.08	2.07	2.05	2.05	2.04	S	2.03	2.02	2.02	2.01	2.03	2.05	2.04	2.08	2.10	2.10	2.01	2.11	2.06
Aug 13	2.12	2.11	2.13	2.13	2.18	2.22	2.20	2.20	2.16	2.11	2.07	2.05	S	2.03	2.00	1.98	1.98	1.99	2.01	1.96	1.96	1.97	1.98	1.98	1.96	2.22	2.07
Aug 14	1.97	2.00	2.01	1.99	2.01	2.01	2.01	2.00	1.99	1.97	1.97	S	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	2.03	2.00	1.98	1.97	1.96	2.03	1.99
Aug 15	1.98	1.99	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.97	S	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.97	2.25	2.28	1.95	2.36	2.02
Aug 16	2.03	1.99	1.98	1.99	2.02	2.04	2.06	1.99	1.99	S	1.98	1.98	1.98	1.99	1.98	1.99	1.97	1.97	1.96	1.97	1.97	1.99	2.00	2.24	1.96	2.24	2.00
Aug 17	2.11	2.14	2.08	2.04	2.04	2.04	2.11	2.05	S	2.01	2.01	1.98	1.97	1.97	1.96	1.97	1.97	1.97	1.98	1.98	2.08	2.08	2.17	2.16	1.96	2.17	2.04
Aug 18	2.15	2.18	2.18	2.19	2.19	2.17	2.22	S	2.07	2.04	2.00	1.98	1.97	1.96	1.96	1.96	1.97	1.97	1.98	2.01	2.31	2.16	2.11	2.07	1.96	2.31	2.08
Aug 19	2.11	2.17	2.16	2.08	2.24	2.24	S	2.14	2.09	2.07	2.07	2.04	2.01	2.00	2.00	1.98	1.97	1.96	1.97	2.01	2.01	2.04	2.24	2.06	1.96	2.24	2.07
Aug 20	2.03	2.08	2.05	2.02	2.12	S	2.10	2.02	2.01	2.01	2.02	2.00	1.99	2.03	2.02	2.00	1.98	1.97	1.97	1.96	1.97	1.98	2.01	2.02	1.96	2.12	2.02
Aug 21	2.02	2.01	2.03	2.04	S	2.07	2.07	2.07	2.08	2.08	2.08	2.07	2.06	2.05	2.04	2.03	2.03	2.03	2.05	2.08	2.10	2.10	2.06	2.09	2.01	2.10	2.06
Aug 22	2.10	2.07	2.09	S	2.12	2.10	2.10	2.11	2.10	2.09	2.08	2.06	2.02	2.02	2.03	2.01	2.00	1.99	1.99	2.00	2.01	2.09	2.15	2.06	1.99	2.15	2.06
Aug 23	2.11	2.14	S	2.13	2.10	2.13	2.14	2.12	2.10	2.05	2.03	2.00	1.99	1.99	1.98	2.05	2.08	1.98	1.98	2.02	2.04	2.12	2.20	2.26	1.98	2.26	2.08
Aug 24	2.27	S	2.27	2.37	2.28	2.31	2.39	2.33	2.22	2.07	2.03	2.03	2.03	2.01	2.01	2.02	2.01	2.01	2.03	2.05	2.09	2.12	2.12	2.12	2.01	2.39	2.14
Aug 25	S	2.13	2.12	2.11	2.11	2.15	2.11	2.07	2.09	2.09	2.07	2.07	2.04	1.99	1.98	1.98	1.97	1.98	1.98	2.01	2.10	2.14	2.35	S	1.97	2.35	2.07
Aug 26	2.38	2.20	2.18	2.16	2.18	2.21	2.22	2.18	2.05	2.01	1.98	1.96	1.97	1.96	1.95	1.92	1.92	1.91	1.92	1.92	1.95	1.96	S	2.00	1.91	2.38	2.05
Aug 27	2.05	2.05	2.02	2.02	2.02	1.99	1.99	1.99	1.98	1.98	1.99	2.00	1.99	1.98	1.98	1.99	1.98	1.98	1.98	1.98	1.99	S	1.97	1.98	1.97	2.05	1.99
Aug 28	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.99	2.00	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.97	1.98	S	1.99	2.01	2.00	1.96	2.01	1.98	1.98
Aug 29	2.00	2.00	2.01	2.01	2.00	2.00	2.05	2.08	2.03	2.04	1.97	2.00	1.98	1.97	1.96	1.95	1.95	1.94	1.94	S	1.95	1.95	1.96	1.99	1.94	2.08	1.99
Aug 30	1.99	2.00	2.01	2.12	2.15	2.10	2.00	1.98	1.97	1.96	1.94	1.92	1.91	1.91	1.91	1.90	1.90	1.91	S	1.92	1.92	1.92	1.95	1.94	1.90	2.15	1.97
Aug 31	2.04	2.10	1.95	1.96	2.08	2.21	2.16	2.06	1.94	1.93	1.93	1.92	1.92	1.91	1.90	1.90	1.90	S	1.92	1.95	1.98	2.04	1.94	1.94	1.90	2.21	1.98
Diurnal Maximum	2.38	2.33	2.29	2.37	2.31	2.31	2.39	2.33	2.22	2.11	2.08	2.07	2.06	2.06	2.04	2.05	2.08	2.03	2.05	2.08	2.31	2.25	2.35	2.36			
Diurnal Average	2.08	2.08	2.07	2.07	2.09	2.10	2.09	2.07	2.04	2.03	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.98	2.00	2.02	2.05	2.07	2.07			

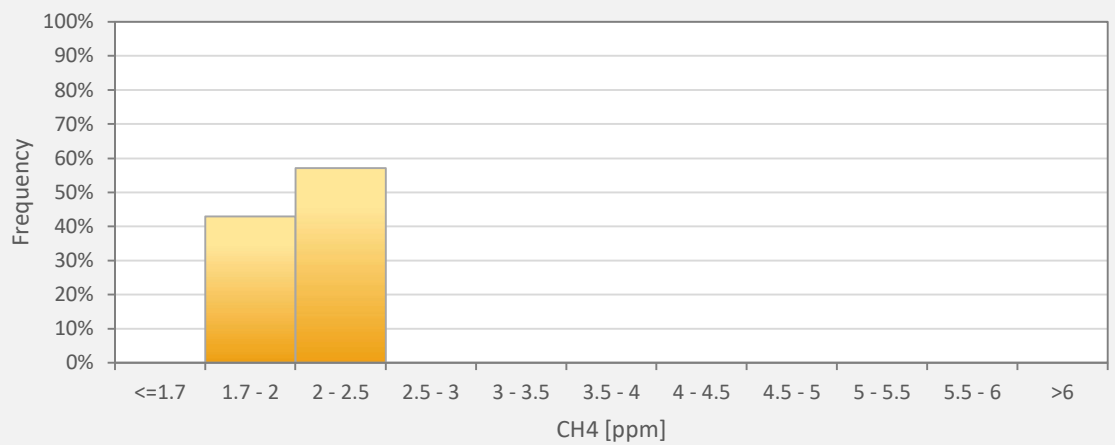
C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

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



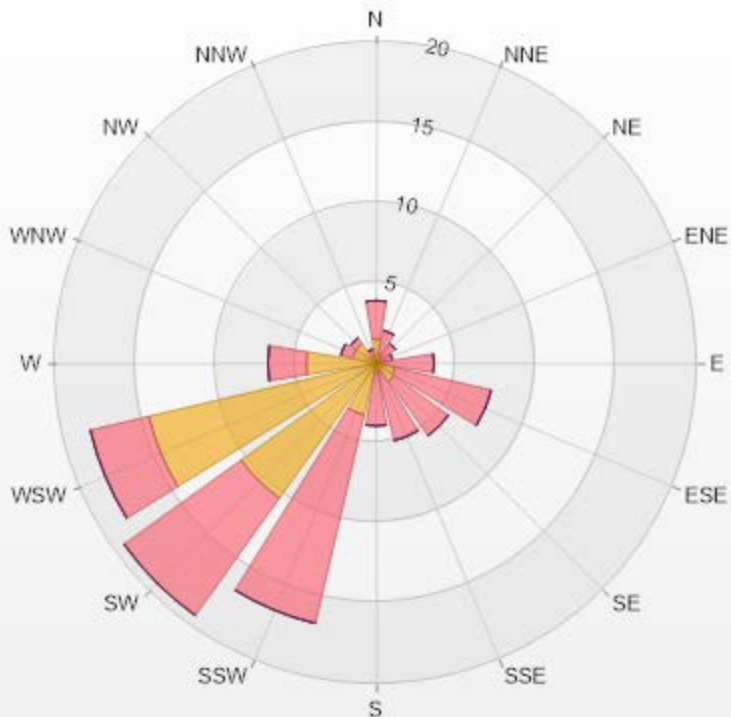
CH4[ppm] Histogram: PRAMP RENO Monthly: 08-2022 1 Hr.



Classes	CH4
<=1.7	0.00%
1.7 - 2	42.88%
2 - 2.5	57.12%
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: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 89.65% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.5	2.4	0	0	0	3.9
NNE	0.6	1.5	0	0	0	2.1
NE	0.45	1.05	0	0	0	1.5
ENE	0.3	0.75	0	0	0	1.05
E	0.45	3.15	0	0	0	3.6
ESE	1.2	6.15	0	0	0	7.35
SE	1.35	4.2	0	0	0	5.55
SSE	0.6	4.35	0	0	0	4.95
S	0.45	3.45	0	0	0	3.9
SSW	3.3	13.34	0	0	0	16.64
SW	10.34	9	0	0	0	19.34
WSW	14.54	3.75	0	0	0	18.29
W	4.35	2.4	0	0	0	6.75
WNW	1.5	0.75	0	0	0	2.25
NW	1.5	0.45	0	0	0	1.95
NNW	0.45	0.45	0	0	0	0.9
Summary	42.88	57.14	0	0	0	100



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% Icon Classes (ppm)	43	0-2	57	2-5	0	5-10	0	10-20	0	>20.0
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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

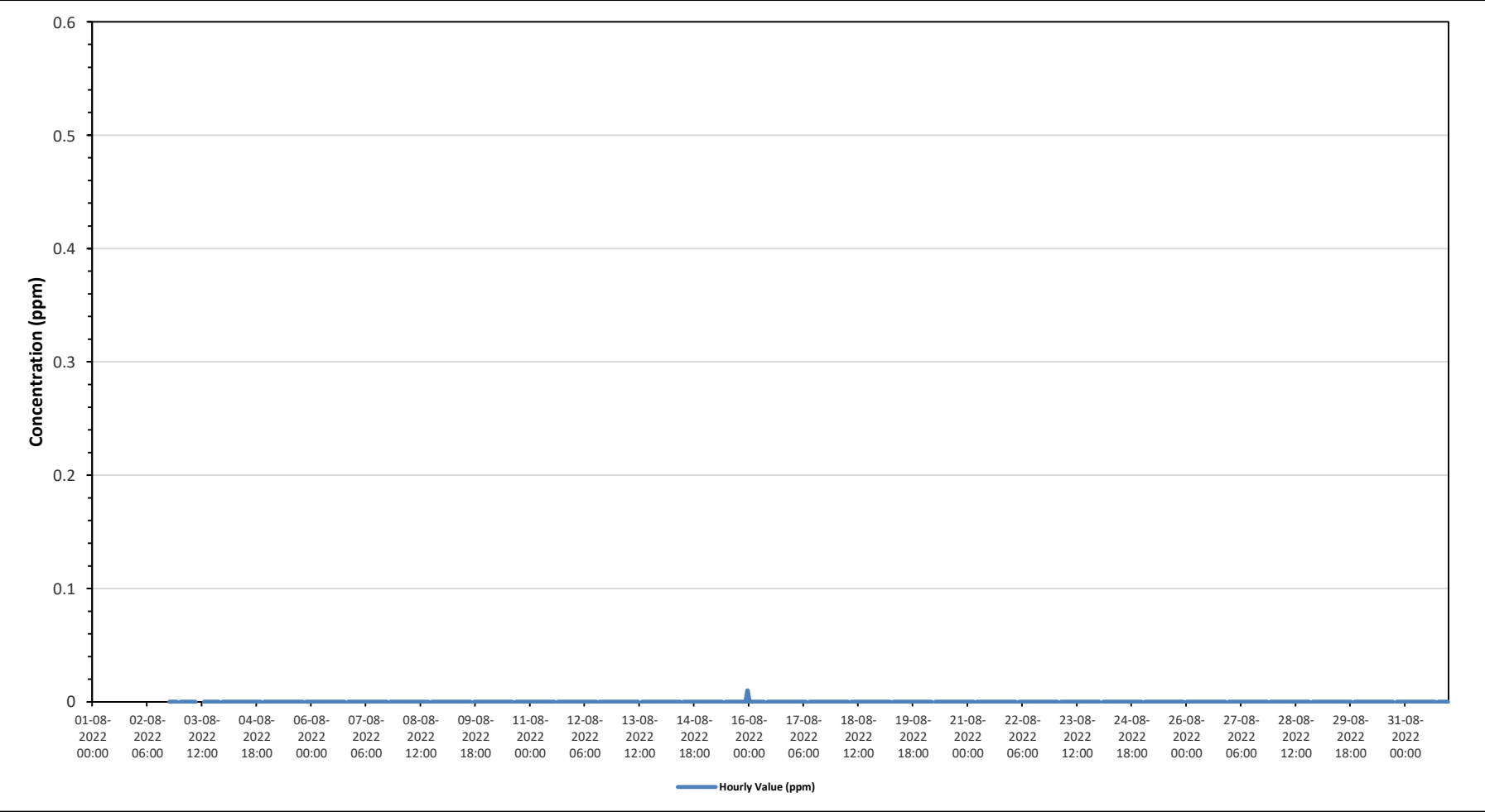
Maximum Hourly Value:	0.01 ppm on August 15 at hour 23	Hours in Service:	744
Maximum Daily Value:	0.00 ppm on August 15	Hours of Data:	667
Minimum Hourly Value:	0.00 ppm on August 2 at hour 18	Hours of Missing Data:	42
Minimum Daily Value:	0.00 ppm on August 3	Hours of Calibration:	35
Monthly Average:	0.00 ppm	Operational Uptime:	94.4

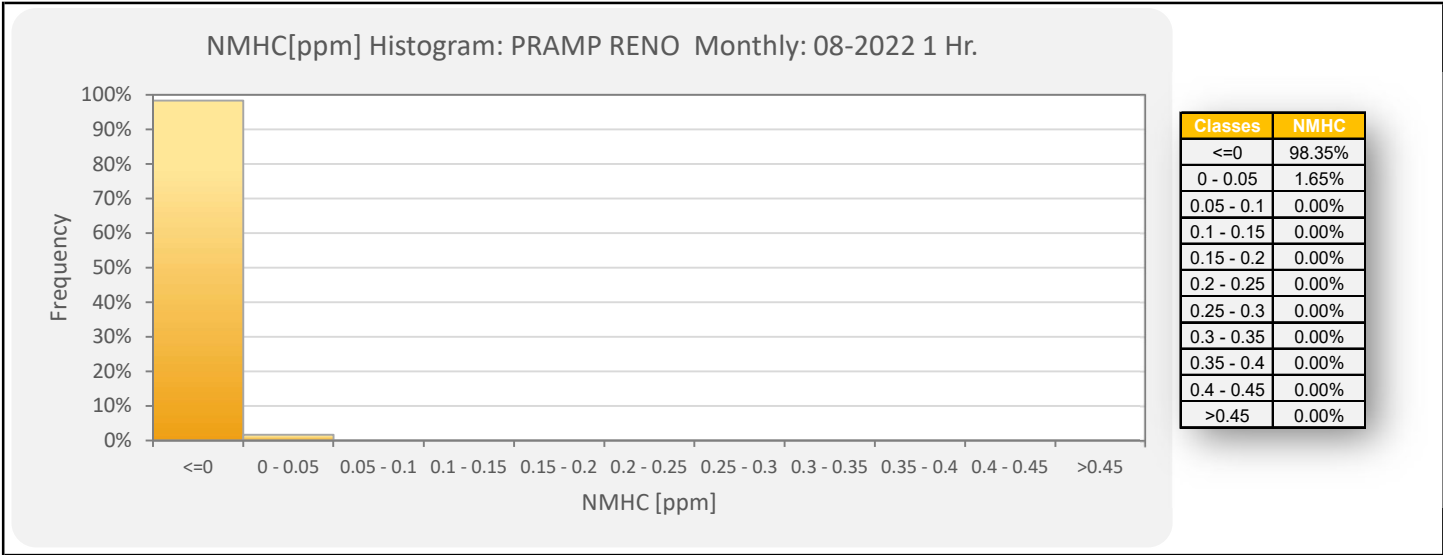
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.00	0.00	0.00
Aug 3	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	S	0.00	0.00	0.00	0.00
Aug 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	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Aug 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	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Aug 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 7	0.00	0.00	0.00	0.00	0.00	0.00	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
Aug 8	0.00	0.00	0.00	0.00	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
Aug 9	0.00	0.00	0.00	0.00	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
Aug 10	0.00	0.00	0.00	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
Aug 11	0.00	0.00	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
Aug 12	0.00	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
Aug 13	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
Aug 14	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
Aug 15	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	0.01	0.00	0.01	0.00
Aug 16	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
Aug 17	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
Aug 18	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
Aug 19	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
Aug 20	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
Aug 21	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
Aug 22	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
Aug 23	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
Aug 24	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
Aug 25	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	S	0.00	0.00	0.00
Aug 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	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Aug 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	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
Aug 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	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
Aug 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	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
Aug 30	0.00	0.00	0.00	0.00	0.00	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
Aug 31	0.00	0.00	0.00	0.00	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
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01			
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			

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.

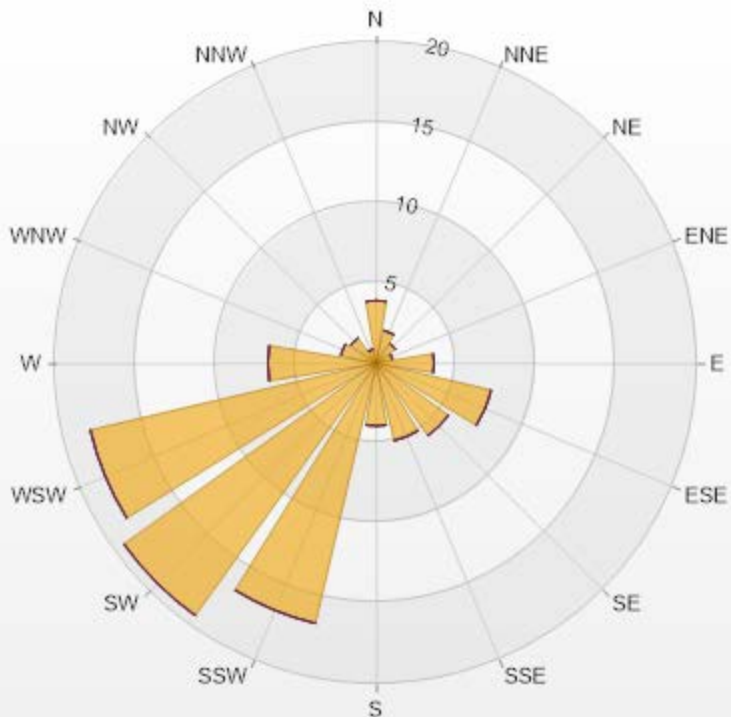
Timeseries Chart of Hourly Average for NMHC - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 89.65% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.9	0	0	0	0	3.9
NNE	2.1	0	0	0	0	2.1
NE	1.5	0	0	0	0	1.5
ENE	1.05	0	0	0	0	1.05
E	3.6	0	0	0	0	3.6
ESE	7.35	0	0	0	0	7.35
SE	5.55	0	0	0	0	5.55
SSE	4.95	0	0	0	0	4.95
S	3.9	0	0	0	0	3.9
SSW	16.64	0	0	0	0	16.64
SW	19.34	0	0	0	0	19.34
WSW	18.29	0	0	0	0	18.29
W	6.75	0	0	0	0	6.75
WNW	2.25	0	0	0	0	2.25
NW	1.95	0	0	0	0	1.95
NNW	0.9	0	0	0	0	0.9
Summary	100	0	0	0	0	100



PRAMP-202208

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% 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 - August 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

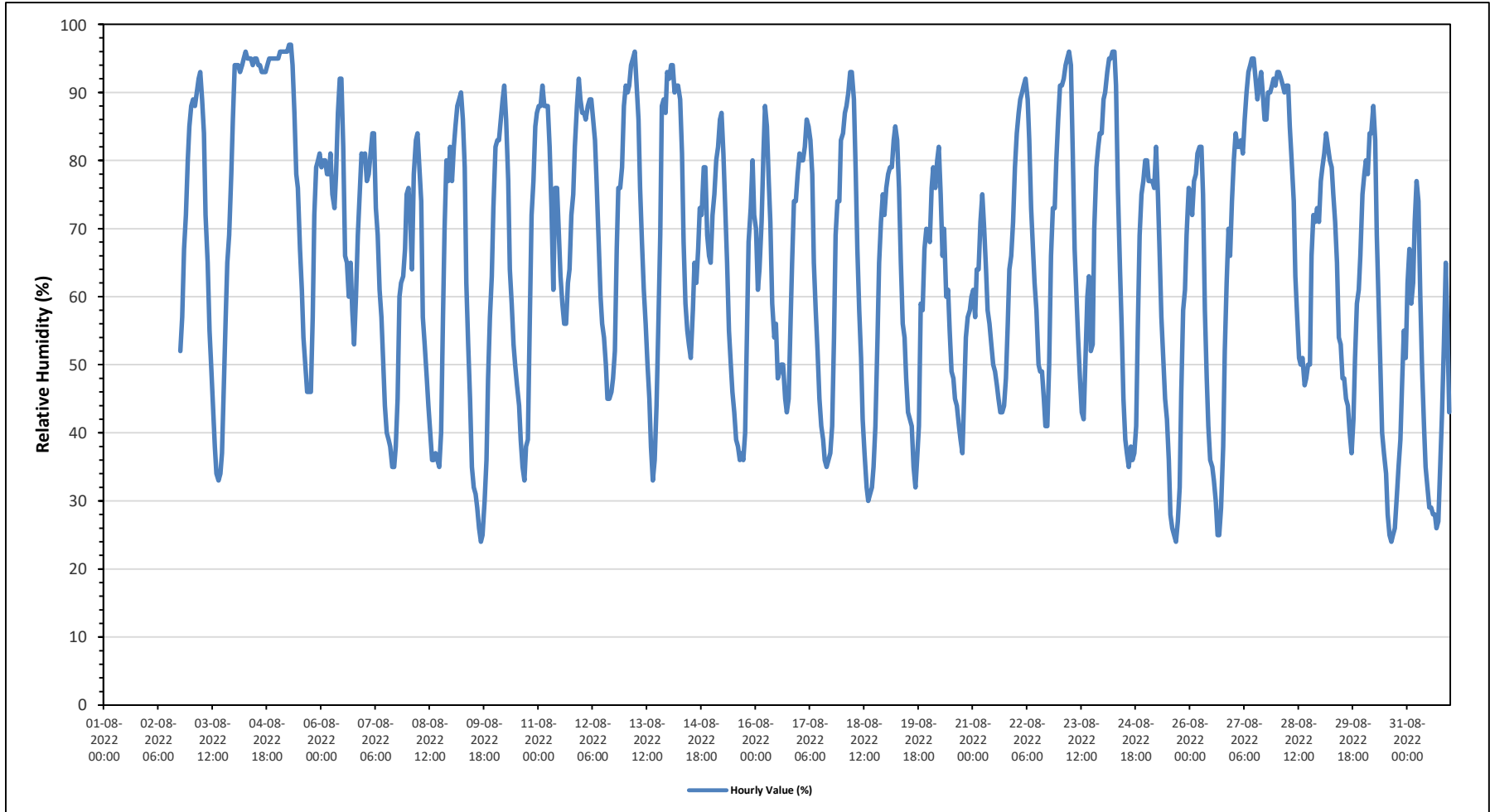
Maximum Hourly Value:	97 %	on August 5 at hour 6	Hours in Service:	744
Maximum Daily Value:	94.4 %	on August 4	Hours of Data:	702
Minimum Hourly Value:	24 %	on August 9 at hour 16	Hours of Missing Data:	42
Minimum Daily Value:	48.0 %	on August 31	Hours of Calibration:	0
Monthly Average:	65.9 %		Operational Uptime:	94.4

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-
Aug 3	88	89	88	90	92	93	89	84	72	65	55	50	44	38	34	33	34	37	47	57	65	69	78	86	33	93	65.7
Aug 4	94	94	94	93	94	95	96	95	95	94	95	95	94	94	94	93	93	93	94	95	95	95	95	95	93	96	94.4
Aug 5	95	96	96	96	96	96	97	97	94	87	78	76	67	61	54	50	46	46	46	57	72	79	80	81	46	97	76.8
Aug 6	79	80	80	78	78	81	75	73	78	87	92	92	82	66	65	60	65	58	53	60	69	75	81	80	53	92	74.5
Aug 7	81	77	78	81	84	84	73	69	61	57	50	44	40	39	38	35	35	38	45	60	62	63	67	75	35	84	59.8
Aug 8	76	71	64	78	83	84	79	74	57	53	48	44	40	36	36	37	36	35	40	57	70	80	77	82	35	84	59.9
Aug 9	77	82	85	88	89	90	86	79	62	53	45	35	32	31	29	26	24	25	30	36	48	57	63	73	24	90	56.0
Aug 10	82	83	83	86	89	91	86	77	64	59	53	50	47	44	39	35	33	38	39	56	72	77	85	87	33	91	64.8
Aug 11	88	88	91	88	88	88	82	73	61	76	70	63	59	56	56	62	64	72	75	82	88	92	89	56	92	89	76.1
Aug 12	87	87	86	88	89	89	86	83	77	69	60	56	54	50	45	45	46	48	52	67	76	76	79	88	45	89	70.1
Aug 13	91	90	91	94	95	96	91	86	76	68	61	56	50	45	38	33	36	44	56	69	88	89	87	93	33	96	71.8
Aug 14	92	94	94	90	91	91	89	81	68	59	55	53	51	58	65	62	67	73	72	79	79	69	66	65	51	94	73.5
Aug 15	72	75	80	82	86	87	81	73	65	55	50	46	43	39	38	36	37	36	40	55	68	73	80	72	36	87	61.2
Aug 16	70	61	64	71	81	88	85	77	71	59	54	56	48	49	50	50	45	43	45	56	65	74	74	78	43	88	63.1
Aug 17	81	80	80	82	86	85	83	78	65	58	52	45	41	39	36	35	36	37	41	54	69	74	74	83	35	86	62.3
Aug 18	84	87	88	90	93	93	89	78	67	58	51	42	37	32	30	31	32	35	41	54	65	71	75	72	30	93	62.3
Aug 19	76	78	79	79	83	85	83	76	65	56	54	48	43	42	41	35	32	36	41	59	58	67	70	69	32	85	60.6
Aug 20	68	76	79	76	80	82	75	66	70	60	61	55	49	48	45	44	41	39	37	46	54	57	58	60	37	82	59.4
Aug 21	61	57	64	64	71	75	70	64	58	56	53	50	49	47	45	43	43	44	48	56	64	66	71	79	43	79	58.3
Aug 22	84	87	89	90	91	92	89	83	73	67	62	58	50	49	49	45	41	41	50	66	73	73	80	86	41	92	69.5
Aug 23	91	91	92	94	95	96	94	81	67	60	54	48	43	42	51	60	63	52	53	70	79	82	84	84	42	96	71.9
Aug 24	89	90	93	95	95	96	96	91	76	64	56	45	39	37	35	38	36	37	41	55	69	75	77	80	35	96	66.9
Aug 25	80	77	77	77	76	82	75	67	57	51	45	42	36	28	26	25	24	27	32	46	58	61	69	76	24	82	54.8
Aug 26	75	72	77	78	81	82	82	75	58	48	41	36	35	33	30	25	25	29	38	52	62	70	66	74	25	82	56.0
Aug 27	80	84	82	82	83	81	86	90	93	94	95	95	92	89	91	93	90	86	86	90	90	91	92	91	80	95	88.6
Aug 28	93	93	92	91	90	91	91	85	80	74	63	57	51	50	51	47	48	50	50	66	72	71	73	71	47	93	70.8
Aug 29	77	79	81	84	82	80	79	75	71	65	54	53	48	48	45	44	40	37	42	51	59	61	66	75	37	84	62.3
Aug 30	78	80	78	84	84	88	83	69	59	49	40	37	34	28	25	24	25	26	31	35	39	48	55	51	24	88	52.1
Aug 31	62	67	59	62	71	77	74	60	49	41	35	32	29	29	28	28	26	27	35	43	53	65	56	43	26	77	48.0
Diurnal Maximum	95	96	96	96	96	96	97	97	95	95	95	95	95	94	94	93	93	93	94	95	95	95	95	95	95	95	95
Diurnal Average	81.1	81.6	82.2	83.8	86.1	87.5	84.3	77.9	69.3	63.6	58.2	54.0	49.4	46.6	45.1	43.7	43.5	44.2	48.3	59.3	68.1	72.3	75.0	77.4			

C	Monthly Calibration	S	Daily Zero-Span Check
K	Collection Error	N	No Data (Machine Not in Service)
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)
		Q	Quality Assurance
		Y	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 - August 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

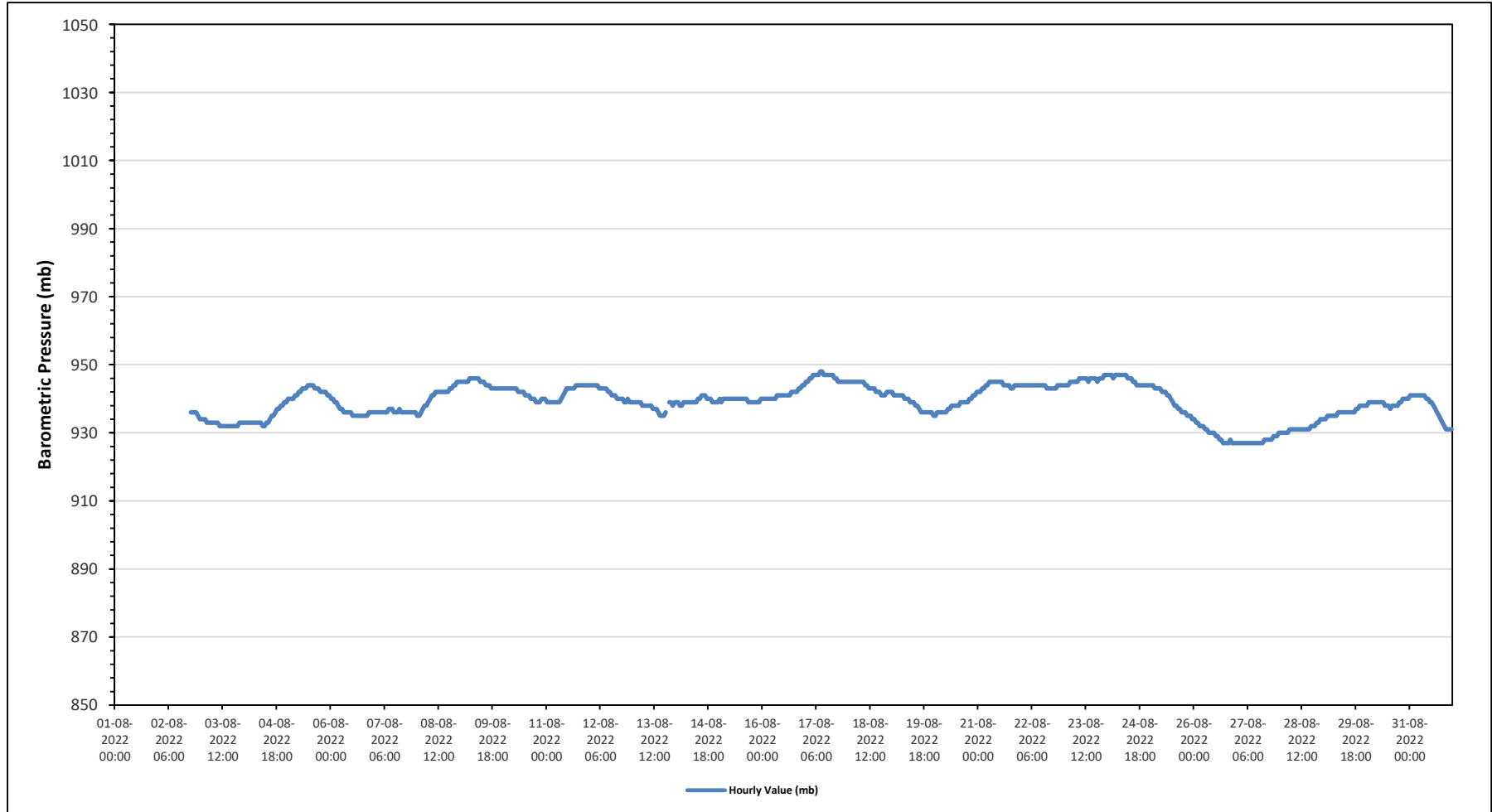
Maximum Hourly Value:	948 mb on August 17 at hour 8	Hours in Service:	744
Maximum Daily Value:	946 mb on August 17	Hours of Data:	701
Minimum Hourly Value:	927 mb on August 26 at hour 16	Hours of Missing Data:	43
Minimum Daily Value:	928 mb on August 27	Hours of Calibration:	0
Monthly Average:	939 mb	Operational Uptime:	94.2

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	
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-		
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	934	936	-	
Aug 3	934	934	934	933	933	933	933	933	933	933	932	932	932	932	932	932	932	932	932	932	932	933	933	933	932	934	932.7	
Aug 4	933	933	933	933	933	933	933	933	933	933	932	932	933	933	934	935	935	936	937	937	938	938	939	939	932	939	934.5	
Aug 5	940	940	940	940	941	941	942	942	943	943	943	944	944	944	944	943	943	943	942	942	942	941	941	941	940	944	942.1	
Aug 6	940	940	939	939	938	937	937	936	936	936	936	936	935	935	935	935	935	935	935	935	935	936	936	936	935	940	936.4	
Aug 7	936	936	936	936	936	936	936	936	936	937	937	937	936	936	936	937	936	936	936	936	936	936	936	936	936	937	936.2	
Aug 8	935	935	936	937	938	938	939	940	941	941	942	942	942	942	942	942	942	942	943	943	944	944	945	945	935	945	940.8	
Aug 9	945	945	945	945	945	946	946	946	946	946	946	945	945	945	944	944	944	943	943	943	943	943	943	943	943	946	944.5	
Aug 10	943	943	943	943	943	943	943	943	943	942	942	942	942	941	941	941	940	940	940	939	939	939	940	940	940	939	943	941.3
Aug 11	939	939	939	939	939	939	939	939	940	941	942	943	943	943	943	943	944	944	944	944	944	944	944	944	939	944	941.8	
Aug 12	944	944	944	944	944	943	943	943	943	943	942	942	942	941	941	941	940	940	940	939	939	940	939	939	939	944	941.6	
Aug 13	939	939	939	939	939	938	938	938	938	938	938	937	937	937	936	935	935	935	936	X	939	939	938	939	935	939	937.7	
Aug 14	939	939	938	938	939	939	939	939	939	939	939	939	940	940	941	941	941	940	940	940	940	939	939	939	938	941	939.4	
Aug 15	940	939	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	939	939	939	939	939	940	939	940	939.7		
Aug 16	940	940	940	940	940	940	940	940	941	941	941	941	941	941	941	941	941	942	942	942	942	943	943	944	944	940	941.3	
Aug 17	945	945	946	946	947	947	947	947	948	948	947	947	947	947	947	947	946	946	945	945	945	945	945	945	945	948	946.3	
Aug 18	945	945	945	945	945	945	945	945	945	944	944	943	943	943	943	942	942	942	941	941	941	942	942	942	941	945	943.3	
Aug 19	942	941	941	941	941	941	941	940	940	940	939	939	939	938	938	937	936	936	936	936	936	936	936	936	935	942	938.5	
Aug 20	935	936	936	936	936	936	936	937	937	938	938	938	938	938	939	939	939	939	939	939	940	940	941	941	942	935	942	938.1
Aug 21	942	942	943	943	944	944	945	945	945	945	945	945	945	944	944	944	944	944	943	943	943	944	944	944	944	942	945	944.0
Aug 22	944	944	944	944	944	944	944	944	944	944	944	944	944	944	943	943	943	943	943	943	944	944	944	944	943	944	943.8	
Aug 23	944	944	944	945	945	945	945	945	946	946	946	946	946	946	945	946	946	946	945	946	946	946	947	947	944	947	945.5	
Aug 24	947	947	947	946	947	947	947	947	947	947	946	946	946	945	945	944	944	944	944	944	944	944	944	944	944	944	947	945.7
Aug 25	944	944	943	943	943	943	942	942	942	941	941	940	939	938	938	937	937	936	936	936	936	935	935	934	934	944	939.3	
Aug 26	934	933	933	932	932	932	931	931	930	930	930	930	929	929	928	928	927	927	927	927	928	927	927	927	927	934	929.5	
Aug 27	927	927	927	927	927	927	927	927	927	927	927	927	927	927	927	928	928	928	928	928	929	929	929	930	927	930	927.6	
Aug 28	930	930	930	930	930	931	931	931	931	931	931	931	931	931	931	931	931	932	932	932	933	933	934	934	930	934	931.3	
Aug 29	934	934	935	935	935	935	935	935	936	936	936	936	936	936	936	936	936	936	937	937	938	938	938	938	934	938	936.0	
Aug 30	938	939	939	939	939	939	939	939	939	939	938	938	938	937	938	938	938	938	939	939	940	940	940	940	937	940	938.8	
Aug 31	941	941	941	941	941	941	941	941	941	940	940	939	939	938	937	936	935	934	933	932	931	931	931	931	931	941	937.3	
Diurnal Maximum	947	947	947	946	947	947	947	947	948	948	947	947	947	947	947	947	946	946	945	946	946	946	947	947	947	947	947	
Diurnal Average	939	939	939	939	939	939	939	939	940	940	939	939	939	939	939	939	939	939	938	938	939	939	939	939	939	939	939	

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 - August 2022

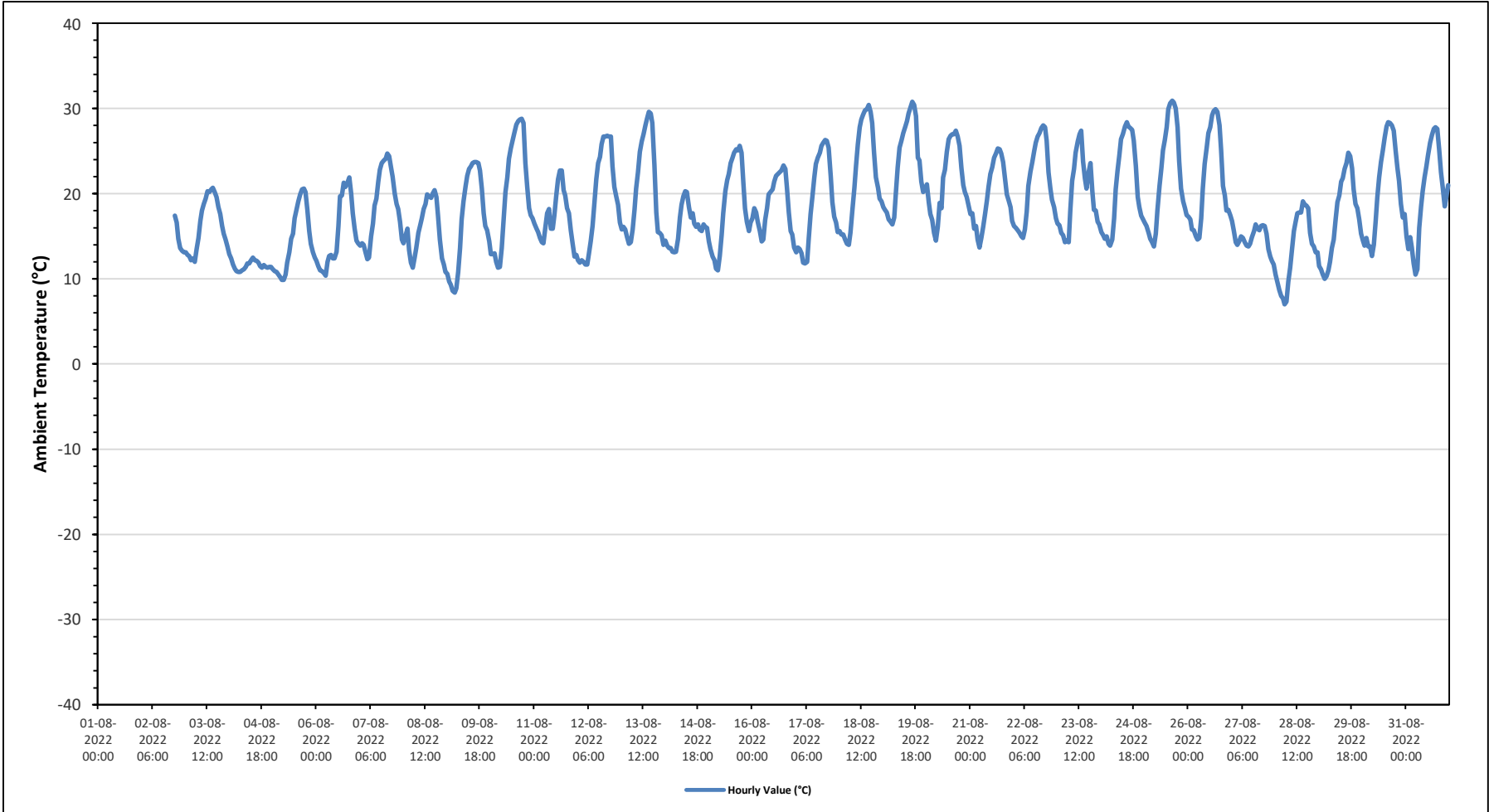
Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	30.9 °C	on August 25 at hour 15	Hours in Service:	744
Maximum Daily Value:	23.3 °C	on August 19	Hours of Data:	702
Minimum Hourly Value:	7.0 °C	on August 28 at hour 5	Hours of Missing Data:	42
Minimum Daily Value:	11.6 °C	on August 4	Hours of Calibration:	0
Monthly Average:	18.5 °C		Operational Uptime:	94.4

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13.1	17.4	-
Aug 3	13.1	12.8	12.7	12.2	12.4	12	13.5	14.8	16.8	18	18.8	19.4	20.3	20.2	20.5	20.7	20.2	19.6	18.4	17.6	16.2	15.3	14.6	13.8	12.0	20.7	16.4
Aug 4	12.9	12.4	11.7	11.2	10.9	10.8	10.8	11	11.1	11.4	11.8	11.8	12.2	12.5	12.2	12.1	11.9	11.5	11.3	11.6	11.4	11.3	11.4	11.4	10.8	12.9	11.6
Aug 5	11.1	10.9	10.8	10.5	10.2	9.9	9.9	10.5	11.9	13.1	14.7	15.3	17.1	18.1	19.1	19.9	20.5	20.6	20.2	18.1	15.6	14.1	13.1	12.5	9.9	20.6	14.5
Aug 6	12.1	11.5	11	10.9	10.7	10.4	12	12.7	12.8	12.4	12.4	13.2	16.2	19.7	19.8	21.3	20.8	21.3	21.9	20	17.7	15.9	14.5	14.2	10.4	21.9	15.2
Aug 7	13.9	14.2	14	13.1	12.3	12.5	15	16.5	18.6	19.4	21.4	22.8	23.6	23.9	24.1	24.7	24.4	23.1	22	20	18.8	18.2	16.7	14.6	12.3	24.7	18.7
Aug 8	14.2	15	15.9	13.4	11.9	11.3	12.5	13.6	15.4	16.3	17.1	18.2	18.8	19.9	19.7	19.5	20	20.4	19.6	17.4	14.6	12.4	11.7	10.8	10.8	20.4	15.8
Aug 9	10.6	9.7	9.3	8.6	8.4	8.9	10.8	13.6	17	19.1	20.9	22.1	22.9	23.2	23.6	23.7	23.7	23.6	22.7	20.6	17.7	16.2	15.7	14.4	8.4	23.7	17.0
Aug 10	12.9	12.9	13	12	11.3	11.4	13.6	16.9	20.2	21.9	24.1	25.3	26.4	27.2	28.1	28.5	28.7	28.8	28.3	23.6	20.8	18.3	17.5	17.1	11.3	28.8	20.4
Aug 11	16.5	15.9	15.5	14.8	14.3	14.2	16	17.7	18.2	15.9	15.9	17.4	19.7	21.7	22.7	22.7	20.4	19.8	18.3	17.7	15.7	14.1	12.6	12.8	12.6	22.7	17.1
Aug 12	12.2	11.9	12.2	12	11.7	11.7	12.9	14.4	16.2	18.9	21.7	23.6	24.3	25.8	26.7	26.7	26.8	26.7	26.7	23.2	20.8	19.7	18.7	16.6	11.7	26.8	19.3
Aug 13	15.8	16.1	15.8	14.9	14.1	14.3	15.8	18.1	20.6	22.5	24.9	26.1	27	28	28.8	29.6	29.4	28.3	23.3	17.8	15.5	15.4	15.1	14	14.0	29.6	20.5
Aug 14	14.5	13.9	13.6	13.6	13.2	13.1	13.2	14.7	17.2	18.7	19.7	20.3	20.2	18.4	17.2	17.7	16.5	16.1	16.4	15.8	15.6	16.4	16.1	16	13.1	20.3	16.2
Aug 15	14.4	13.5	12.6	12.2	11.2	11	12.7	15.1	17.7	20.3	21.6	22.3	23.6	24.2	24.8	25.2	25.1	25.6	24.8	21.2	18.3	16.7	15.6	16.6	11.0	25.6	18.6
Aug 16	17.1	18.3	17.8	16.7	15.6	14.4	14.6	16.9	18.3	19.9	20.2	20.5	21.4	22.1	22.3	22.5	22.7	23.3	22.9	20.7	17.8	15.6	15.2	13.7	13.7	23.3	18.8
Aug 17	13.1	13.7	13.5	13	11.9	11.8	12	14.7	17.6	19.7	21.9	23.5	24.2	24.8	25.6	26	26.3	26.2	25.4	22	19	17.3	16.6	15.5	11.8	26.3	19.0
Aug 18	15.6	15.2	15.2	14.6	14.1	14	15.4	17.9	20.7	23.2	25.8	27.8	28.7	29.3	29.8	29.9	30.4	29.6	28.3	24.8	21.9	20.7	19.4	19.1	14.0	30.4	22.1
Aug 19	18.4	18.1	17.8	17	16.7	16.4	17.2	20	23.1	25.4	26.2	27.1	27.8	28.5	29.4	30.1	30.8	30.4	29.1	24.2	23.9	21.4	20.2	20.5	16.4	30.8	23.3
Aug 20	21.1	19	17.6	16.9	15.4	14.5	16.1	18.9	18.3	21.9	22.8	24.9	26.4	26.8	27	27	27.4	26.7	25.6	23	21	20.2	19.6	18.6	14.5	27.4	21.5
Aug 21	17.6	17.7	15.9	16.2	14.6	13.7	14.8	16.1	17.6	19.2	20.8	22.3	23.1	24.2	24.7	25.3	25.2	24.7	23.7	21.8	19.9	19.2	18.4	16.8	13.7	25.3	19.7
Aug 22	16.2	16	15.7	15.4	15	14.8	15.8	17.9	20.9	22.6	23.7	25	26	26.7	27.1	27.7	28	27.8	26.2	22.5	20.6	19.3	18.4	17.1	14.8	28.0	21.1
Aug 23	16.5	16.3	15.4	15.1	14.3	14.5	14.3	18	21.5	22.9	24.8	26.1	27	27.4	23.8	21.8	20.6	22.5	23.6	20.3	18.1	18	16.7	16.4	14.3	27.4	19.8
Aug 24	15.5	15.1	14.7	15	14.1	13.9	14.6	17.1	20.5	22.7	24.6	26.4	27	27.9	28.4	27.9	27.7	27.5	26.2	23.2	19.6	18.4	17.4	17	13.9	28.4	20.9
Aug 25	16.6	16.2	15.4	14.7	14.3	13.8	15.3	18	20.9	23	25.1	26.3	27.8	29.9	30.6	30.9	30.7	30	27.8	23.8	20.6	19.1	18.3	17.5	13.8	30.9	21.9
Aug 26	17.3	17	15.8	15.7	15	14.6	14.8	17.1	20.6	23.5	25.5	27.1	27.8	29.2	29.7	29.9	29.6	28	25.1	20.9	19.8	18	18.1	17.4	14.6	29.9	21.6
Aug 27	16.8	15.6	14.3	14	14.4	15	14.8	14.3	13.9	13.8	14.1	14.9	15.6	16.4	15.9	15.7	16.2	16.3	16.2	15.3	13.5	12.6	12.1	11.7	11.7	16.8	14.7
Aug 28	10.5	9.6	8.7	8	7.7	7	7.3	9.7	11.3	13.5	15.6	16.6	17.7	17.8	17.8	19.1	18.7	18.6	18.3	15.4	14.1	13.8	13.1	13.1	7.0	19.1	13.5
Aug 29	11.5	11.1	10.5	10	10.3	11	12	13.6	14.6	16.9	19	19.8	21.4	21.8	22.9	23.6	24.8	24.4	23	20.5	18.8	18.3	17	15.3	10.0	24.8	17.2
Aug 30	14.5	13.9	14.8	13.8	13.8	12.7	14	16.8	19.5	21.9	23.7	25.1	26.6	27.9	28.4	28.3	28	27.4	25.1	23	21.5	18.8	17.2	17.6	12.7	28.4	20.6
Aug 31	15	13.5	14.9	13.7	11.8	10.5	11.1	16	18.5	20.3	21.9	23.2	24.5	26	26.9	27.6	27.8	27.6	25.2	22.5	20.6	18.5	19.6	21	10.5	27.8	19.9
Diurnal Maximum	21.1	19.0	17.8	17.0	16.7	16.4	17.2	20.0	23.1	25.4	26.2	27.8	28.7	29.9	30.6	30.9	30.8	30.4	29.1	24.8	23.9	21.4	20.2	21.0			
Diurnal Average	14.7	14.4	14.0	13.4	12.8	12.6	13.5	15.6	17.6	19.3	20.7	21.9	22.9	23.8	24.1	24.3	24.3	24.0	22.8	20.2	18.1	16.9	16.1	15.5			
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 - August 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

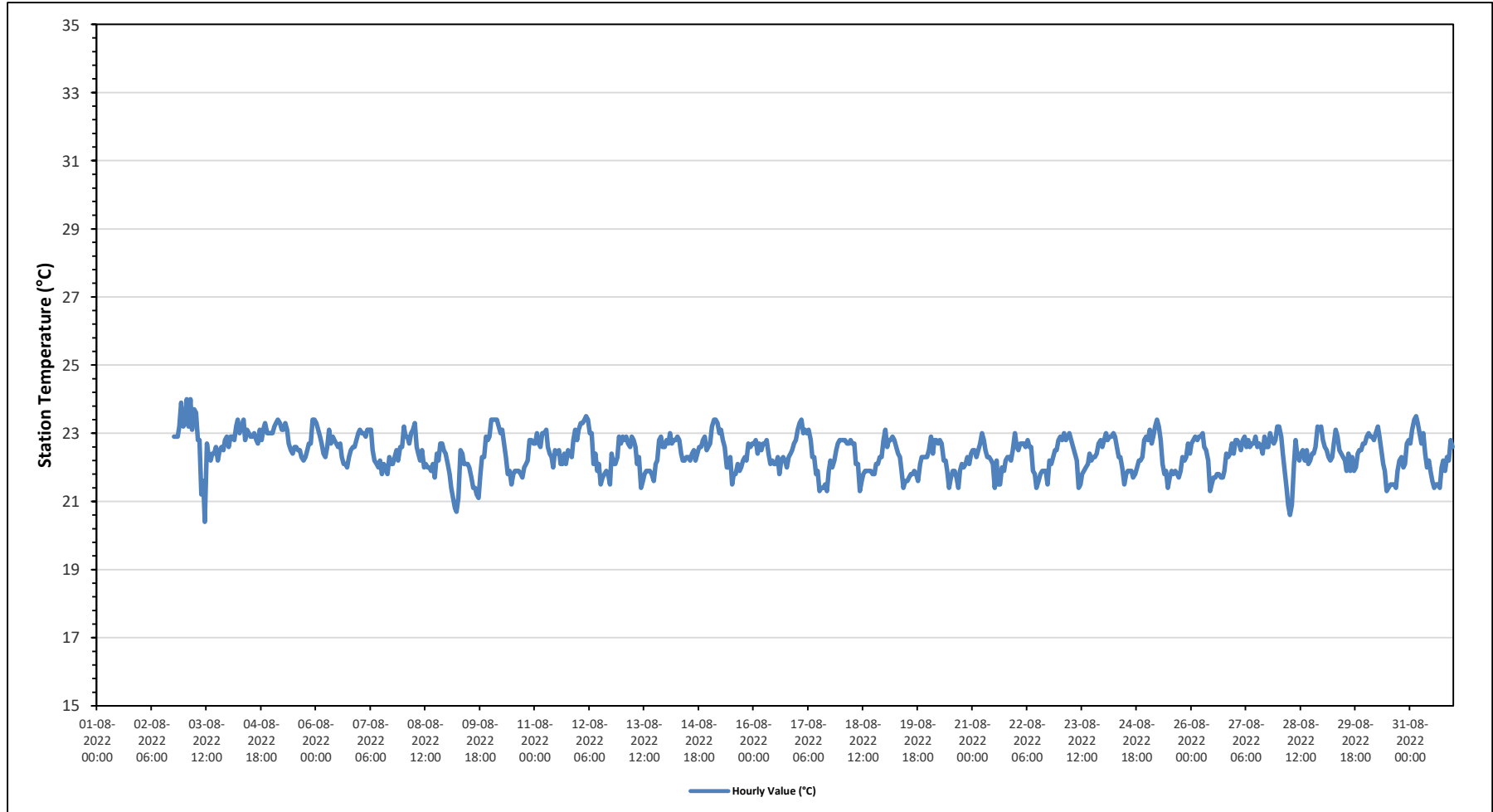
Maximum Hourly Value:	24.0 °C	on August 3 at hour 1	Hours in Service:	744
Maximum Daily Value:	23.0 °C	on August 4	Hours of Data:	702
Minimum Hourly Value:	20.4 °C	on August 3 at hour 11	Hours of Missing Data:	42
Minimum Daily Value:	21.8 °C	on August 9	Hours of Calibration:	0
Monthly Average:	22.4 °C		Operational Uptime:	94.4

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	22.9	23.9	-
Aug 3	23.3	24.0	23.2	24.0	23.1	23.7	23.6	22.8	22.8	21.2	21.6	20.4	22.7	22.3	22.2	22.4	22.4	22.6	22.2	22.5	22.6	22.5	22.8	22.9	20.4	24.0	22.7
Aug 4	22.6	22.9	22.9	22.8	23.2	23.4	23.0	23.2	23.4	22.8	23.1	23.0	22.9	22.9	23.0	22.8	22.7	23.1	22.8	23.1	23.3	23.0	23.0	23.0	22.6	23.4	23.0
Aug 5	23.0	23.2	23.3	23.4	23.3	23.1	23.1	23.3	23.1	22.7	22.5	22.4	22.6	22.6	22.5	22.5	22.3	22.2	22.3	22.5	22.7	22.7	23.4	23.4	22.2	23.4	22.8
Aug 6	23.3	23.1	22.9	22.7	22.4	22.3	22.6	23.1	22.7	22.9	22.8	22.7	22.6	22.7	22.3	22.1	22.1	22.0	22.3	22.5	22.6	22.6	22.8	23.0	22.0	23.3	22.6
Aug 7	23.1	23.0	23.0	22.9	23.1	23.1	23.1	22.5	22.2	22.1	22.0	22.2	21.8	22.1	22.0	21.8	22.3	22.1	22.1	22.3	22.5	22.2	22.6	22.6	21.8	23.1	22.4
Aug 8	23.2	22.9	22.9	22.7	23.0	23.1	23.3	22.6	22.4	22.2	22.5	22.0	22.1	22.0	22.0	21.9	22.1	21.7	22.4	22.2	22.7	22.7	22.5	22.4	21.7	23.3	22.5
Aug 9	22.1	21.8	21.4	21.1	20.8	20.7	21.1	22.5	22.4	22.1	22.1	22.1	22.0	21.7	21.4	21.4	21.2	21.1	21.8	22.3	22.3	22.9	22.8	22.9	20.7	22.9	21.8
Aug 10	23.4	23.4	23.4	23.4	23.2	23.0	23.1	22.7	22.3	21.8	21.9	21.5	21.8	21.9	21.9	21.9	21.8	21.7	22.0	22.1	22.2	22.8	22.8	22.7	21.5	23.4	22.4
Aug 11	22.7	23.0	22.7	22.6	23.0	23.0	23.1	22.6	22.4	22.3	22.0	22.5	22.4	22.5	22.1	22.1	22.4	22.1	22.5	22.4	22.3	22.8	23.1	22.8	22.0	23.1	22.6
Aug 12	23.1	23.3	23.3	23.4	23.5	23.4	23.0	23.0	22.1	22.4	21.9	22.1	21.5	21.7	21.8	21.9	21.8	21.5	22.4	22.1	22.1	22.3	22.9	22.7	21.5	23.5	22.5
Aug 13	22.9	22.8	22.9	22.7	22.6	22.9	22.8	22.6	22.1	22.3	21.4	21.6	21.8	21.9	21.9	21.9	21.8	21.6	22.1	22.2	22.8	22.9	22.6	22.6	21.4	22.9	22.3
Aug 14	22.8	22.7	23.0	22.7	22.8	22.8	22.9	22.8	22.4	22.2	22.2	22.3	22.3	22.2	22.4	22.5	22.2	22.4	22.6	22.6	22.8	22.9	22.5	22.6	22.2	23.0	22.6
Aug 15	22.7	23.2	23.4	23.4	23.3	23.0	23.1	22.8	22.6	22.0	22.0	22.3	21.5	21.8	21.8	22.1	21.9	22.0	22.2	22.3	22.2	22.7	22.6	22.7	21.5	23.4	22.5
Aug 16	22.7	22.8	22.4	22.7	22.5	22.7	22.7	22.8	22.4	22.1	22.2	22.1	22.1	22.3	21.8	22.2	22.3	22.2	22.0	22.3	22.4	22.5	22.7	22.8	21.8	22.8	22.4
Aug 17	23.1	23.3	23.4	23.0	23.1	23.0	23.1	22.8	22.3	22.3	21.8	21.9	21.3	21.4	21.4	21.5	21.3	21.9	22.2	22.0	22.2	22.5	22.7	22.8	21.3	23.4	22.3
Aug 18	22.8	22.8	22.8	22.7	22.7	22.8	22.7	22.7	22.1	21.3	21.6	21.8	21.9	21.9	21.9	21.8	21.8	21.8	21.6	22.1	22.1	22.3	22.3	22.8	21.3	22.8	22.2
Aug 19	23.1	22.6	22.8	22.8	22.9	22.8	22.6	22.4	22.3	21.9	21.4	21.6	21.6	21.7	21.8	21.8	21.9	21.8	21.6	22.1	22.3	22.3	22.3	22.3	21.4	23.1	22.2
Aug 20	22.5	22.9	22.4	22.8	22.8	22.7	22.8	22.7	22.2	22.2	21.9	21.4	21.7	21.9	21.9	21.7	21.4	21.9	22.1	22.0	22.1	22.3	22.1	22.4	21.4	22.9	22.2
Aug 21	22.5	22.5	22.3	22.5	22.7	23.0	22.8	22.5	22.3	22.3	22.2	22.1	21.4	22.2	21.5	21.5	22.0	21.9	22.2	22.3	22.3	22.2	22.5	23.0	21.4	23.0	22.3
Aug 22	22.6	22.5	22.7	22.7	22.7	22.6	22.8	22.6	22.6	21.9	21.8	21.4	21.6	21.8	21.9	21.9	21.9	21.5	22.2	22.1	22.3	22.5	22.5	22.8	21.4	22.8	22.2
Aug 23	22.9	22.8	23.0	22.8	22.9	23.0	22.8	22.6	22.4	22.2	21.4	21.5	21.8	21.9	22.0	22.1	22.4	22.2	22.3	22.3	22.4	22.7	22.8	22.6	21.4	23.0	22.4
Aug 24	22.8	23.0	22.8	22.9	22.9	23.0	22.9	22.6	22.3	22.3	22.0	21.5	21.8	21.9	21.9	21.9	21.7	21.8	22.0	22.2	22.2	22.3	22.8	22.9	21.5	23.0	22.4
Aug 25	22.8	23.1	22.7	22.9	23.2	23.4	23.2	22.8	22.1	21.8	21.9	21.4	21.7	21.9	21.8	21.9	21.8	21.7	21.9	22.3	22.2	22.3	22.7	22.4	21.4	23.4	22.3
Aug 26	22.7	22.8	22.9	22.8	22.9	22.9	23.0	22.6	22.5	22.2	21.3	21.5	21.7	21.7	21.8	21.8	21.7	21.7	21.9	22.4	22.3	22.4	22.7	22.4	21.3	23.0	22.3
Aug 27	22.8	22.8	22.7	22.5	22.8	22.9	22.6	22.8	22.6	22.7	22.7	22.9	22.6	22.7	22.6	22.4	22.9	22.6	22.6	23.0	22.8	22.7	22.8	23.2	22.4	23.2	22.7
Aug 28	23.2	22.9	22.4	21.9	21.4	20.9	20.6	20.9	22.1	22.8	22.3	22.2	22.4	22.5	22.2	22.5	22.1	22.2	22.4	22.4	22.6	23.2	23.1	23.2	20.6	23.2	22.3
Aug 29	22.8	22.6	22.5	22.3	22.2	22.3	22.7	23.1	22.9	22.5	22.4	22.3	22.2	21.9	22.4	21.9	22.3	21.9	22.0	22.4	22.5	22.5	22.7	22.7	21.9	23.1	22.4
Aug 30	22.9	23.0	22.9	22.9	22.8	23.0	23.2	22.9	22.5	22.1	21.9	21.3	21.4	21.5	21.5	21.5	21.4	21.9	22.2	22.3	22.0	22.1	22.7	22.8	21.3	23.2	22.3
Aug 31	22.7	23.1	23.4	23.5	23.3	23.0	22.7	23.0	22.4	22.0	22.2	21.9	21.6	21.4	21.5	21.5	21.4	22.0	22.2	21.9	22.3	22.2	22.8	22.6	21.4	23.5	22.4
Diurnal Maximum	23.4	24.0	23.4	24.0	23.5	23.7	23.6	23.3	23.4	22.9	23.1	23.0	22.9	22.9	23.0	22.8	22.9	23.1	22.9	23.1	23.3	23.2	23.9	23.4			
Diurnal Average	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.7	22.4	22.2	22.0	21.9	22.0	22.0	22.0	22.0	22.0	22.2	22.3	22.4	22.6	22.8	22.8				

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 ST - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

Summary of Hourly Averages

PRECIPITATION in mm

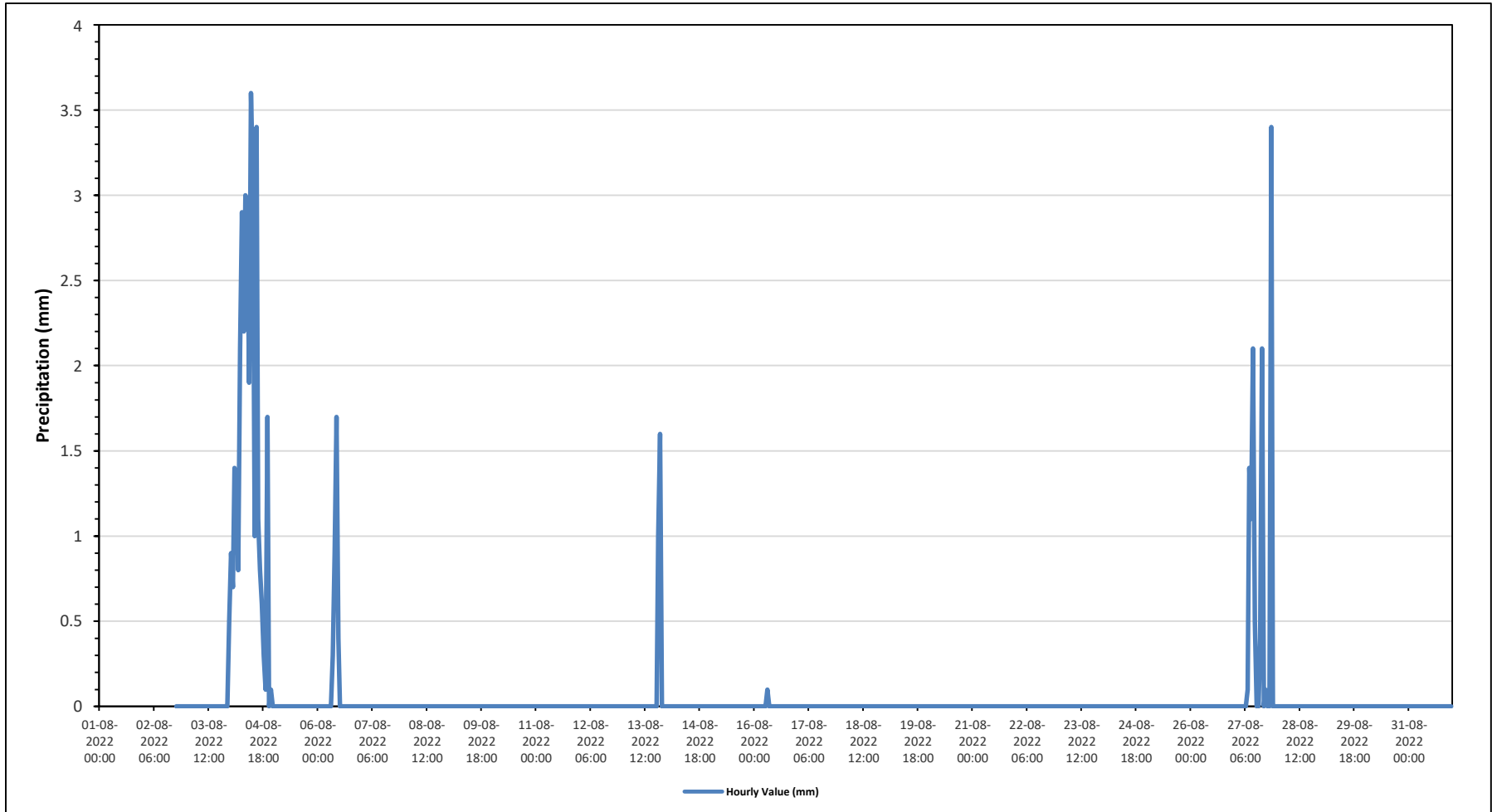
Maximum Hourly Value:	3.6 mm on August 4 at hour 11	Hours in Service:	744
Maximum Daily Value:	35.9 mm on August 4	Hours of Data:	702
Minimum Hourly Value:	0.0 mm on August 2 at hour 18	Hours of Missing Data:	42
Minimum Daily Value:	0.0 mm on August 5	Hours of Calibration:	0
Monthly Total:	53.6 mm	Operational Uptime:	94.4

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	0	
Aug 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.0	0.5	0.5
Aug 4	0.9	0.7	1.4	1.3	0.8	2.1	2.9	2.2	3	2.9	1.9	3.6	3.1	1	3.4	1.1	0.8	0.6	0.3	0.1	1.7	0	0.1	0	0.0	3.6	35.9
Aug 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
Aug 6	0	0	0	0	0	0	0	0	0.3	0.9	1.7	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.7	3.3
Aug 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
Aug 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 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
Aug 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
Aug 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.6	0	0	0	0.0	1.6	2.6
Aug 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Aug 16	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	0.1	0.1
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 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
Aug 27	0	0	0	0	0	0	0.1	1.4	1.1	2.1	0.5	0	0	0.4	2.1	0	0.1	0	0	3.4	0	0	0	0	0.0	3.4	11.2
Aug 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
Aug 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
Aug 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
Aug 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.9	0.7	1.4	1.3	0.8	2.1	2.9	2.2	3.0	2.9	2.1	3.6	3.1	1.0	3.4	2.1	0.8	0.6	0.3	1.0	3.4	0.0	0.1	0.5			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	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 - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

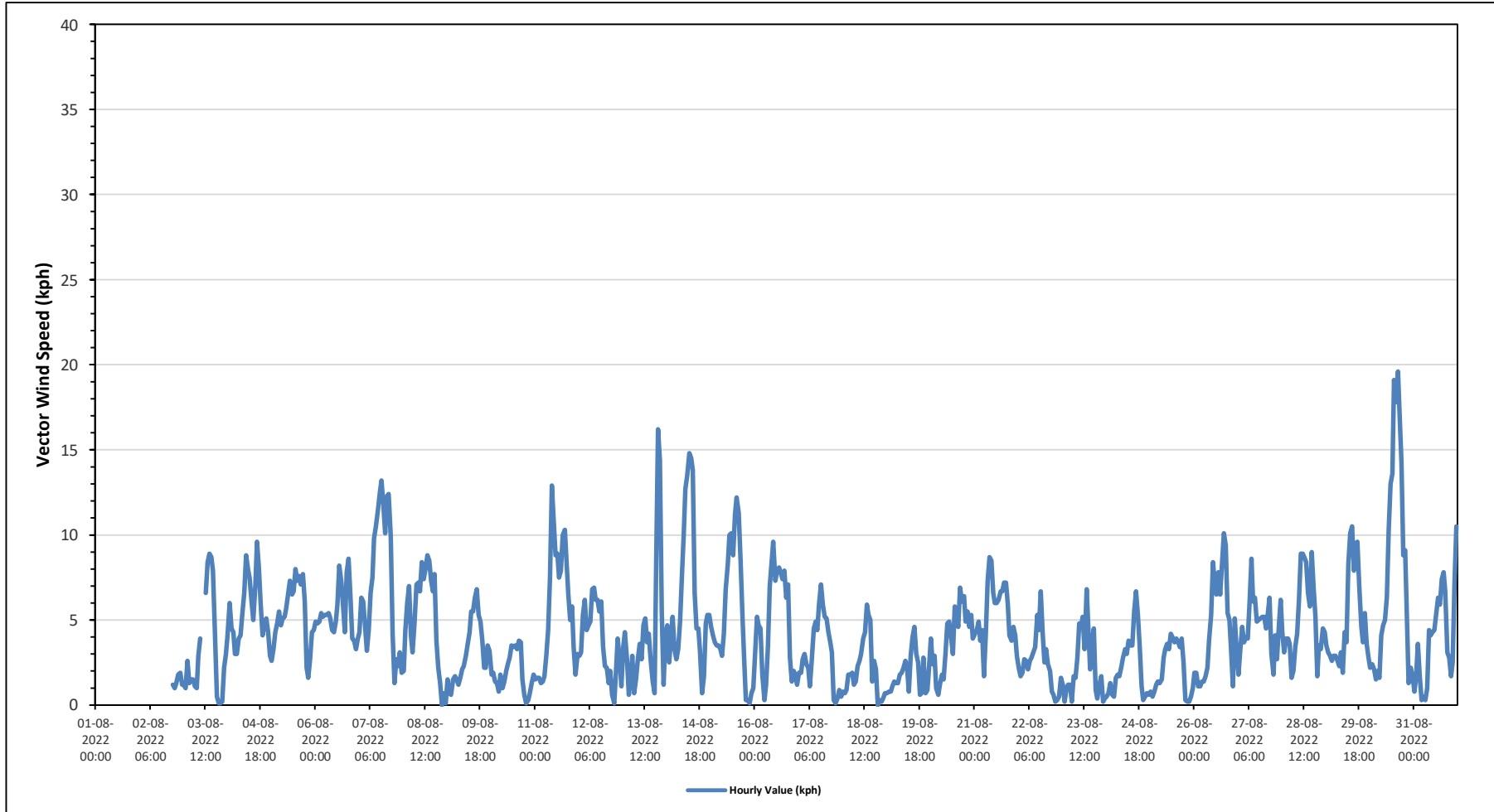
Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	19.6 kph on August 30 at hour 15	Hours in Service:	744
Maximum Daily Value:	7.4 kph on August 30	Hours of Data:	700
Minimum Hourly Value:	0.0 kph on August 8 at hour 21	Hours of Missing Data:	42
Minimum Daily Value:	0.7 kph on August 19	Hours of Calibration:	2
Monthly Average:	2.1 kph	Operational Uptime:	94.4

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
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.0	1.9	-
Aug 3	1.2	1.0	2.6	1.3	1.5	1.5	1.1	1.0	2.9	3.9	C	C	6.6	8.4	8.9	8.7	7.9	4.5	0.5	0.1	0.1	0.2	2.2	3.0	0.1	8.9	2.8
Aug 4	4.1	6.0	4.5	4.3	3.0	3.0	3.9	4.1	5.4	6.6	8.8	8.0	7.5	6.2	5.0	7.1	9.6	8.1	5.9	4.1	4.6	5.1	4.3	2.9	2.9	9.6	4.3
Aug 5	2.6	3.3	4.3	4.8	5.5	4.7	5.1	5.2	5.7	6.5	7.3	6.5	6.7	8.0	7.3	7.6	7.1	7.7	6.1	2.2	1.6	2.7	4.3	4.4	1.6	8.0	5.1
Aug 6	4.9	4.8	4.9	5.4	5.2	5.3	5.3	5.4	5.1	4.4	4.3	4.9	5.9	8.2	7.2	5.7	4.3	7.8	8.6	6.4	3.9	3.8	3.3	3.9	3.3	8.6	5.2
Aug 7	4.3	6.3	6.1	4.7	3.2	4.4	6.6	7.5	9.8	10.5	11.5	12.5	13.2	11.8	10.1	12.3	12.4	9.9	4.2	1.3	2.7	2.3	3.1	1.9	1.3	13.2	7.0
Aug 8	2.0	4.4	6.0	7.0	4.1	3.1	4.7	7.1	7.2	6.7	8.4	7.4	8.0	8.8	8.5	7.3	6.7	7.7	3.8	2.2	1.3	0.0	0.7	0.1	0.0	8.8	4.4
Aug 9	1.5	0.7	0.6	1.5	1.7	1.5	1.2	1.6	2.1	2.3	2.9	3.6	4.3	5.5	5.5	6.3	6.8	5.3	4.9	3.8	2.2	2.2	3.5	3.2	0.6	6.8	2.6
Aug 10	1.8	1.9	1.4	1.3	0.8	1.8	1.0	1.4	2.0	2.4	2.8	3.5	3.4	3.5	3.3	3.8	3.7	1.5	0.6	0.1	0.3	0.7	1.3	1.8	0.1	3.8	1.7
Aug 11	1.5	1.6	1.6	1.3	1.4	1.7	2.9	4.4	7.5	12.9	10.8	8.8	8.9	7.5	7.9	10.0	10.3	8.5	6.5	5.0	5.8	3.4	1.8	3.0	1.3	12.9	4.1
Aug 12	2.9	3.1	5.3	6.2	4.4	4.7	4.9	6.8	6.9	6.2	6.2	5.5	6.1	3.4	2.3	2.2	1.3	2.0	0.6	0.1	2.1	3.9	2.7	1.1	0.1	6.9	3.3
Aug 13	3.4	4.3	2.7	0.6	1.6	2.9	0.7	1.5	2.7	3.6	2.7	4.7	5.1	3.7	4.2	2.7	1.4	0.7	8.3	16.2	14.4	5.5	1.2	4.2	0.6	16.2	2.0
Aug 14	4.7	2.5	3.8	5.2	3.3	2.7	3.3	4.9	7.6	10.1	12.7	13.5	14.8	14.5	13.8	6.6	4.5	4.5	3.2	0.7	1.7	4.8	5.3	5.3	0.7	14.8	6.0
Aug 15	4.6	4.1	3.7	3.5	3.5	3.3	2.9	4.2	6.8	8.3	10.0	10.1	8.8	11.2	12.2	11.3	8.5	5.3	2.9	0.3	0.3	0.1	0.7	1.0	0.1	12.2	5.1
Aug 16	3.1	5.2	4.7	4.5	1.8	0.3	1.2	3.4	7.0	8.4	9.6	7.3	7.9	8.1	7.8	7.4	7.9	6.3	7.1	2.8	1.4	2.0	1.8	1.2	0.3	9.6	4.9
Aug 17	1.9	1.9	2.7	3.0	2.4	2.2	1.1	2.6	4.5	4.9	4.4	6.0	7.1	5.9	5.2	5.1	4.3	3.7	3.1	0.3	0.1	0.4	0.9	0.5	0.1	7.1	3.0
Aug 18	0.8	0.7	0.9	1.8	1.8	1.9	1.2	1.4	2.3	2.6	3.0	3.9	4.3	5.9	5.3	5.0	1.4	2.6	2.1	0.0	0.3	0.2	0.4	0.7	0.0	5.9	1.7
Aug 19	0.7	0.8	0.8	1.1	1.4	1.3	1.3	1.8	1.9	2.2	2.6	2.3	0.8	2.9	4.0	4.6	3.0	2.5	0.6	0.7	2.8	0.7	0.9	2.2	0.6	4.6	0.7
Aug 20	3.9	2.4	2.9	1.0	0.6	1.3	1.8	1.5	3.0	4.8	4.9	4.0	3.0	5.8	5.5	4.6	6.9	6.1	6.4	4.9	5.5	4.6	5.3	3.9	0.6	6.9	2.5
Aug 21	4.2	4.4	4.9	3.8	4.4	1.7	4.2	7.3	8.7	8.5	6.6	6.0	6.0	6.2	6.7	6.7	7.2	7.2	5.9	4.1	3.8	4.6	4.1	2.9	1.7	8.7	5.1
Aug 22	2.2	1.7	1.9	2.7	2.6	2.1	2.6	2.8	3.1	3.4	5.3	4.4	6.7	4.3	2.5	3.3	2.4	2.0	0.8	0.6	0.2	0.3	0.5	1.6	0.2	6.7	2.3
Aug 23	1.2	0.2	1.0	1.2	1.2	0.2	1.7	1.6	2.8	4.8	4.6	5.2	3.3	6.8	4.3	2.1	3.7	4.5	0.9	0.4	1.2	1.7	0.2	0.4	0.2	6.8	1.4
Aug 24	0.5	0.7	1.3	0.6	0.5	1.6	1.8	1.7	2.2	2.8	3.3	3.0	3.8	3.5	3.5	5.5	6.7	5.3	3.4	1.1	0.3	0.5	0.7	0.6	0.3	6.7	1.8
Aug 25	0.8	0.5	0.8	1.2	1.4	1.3	1.5	2.8	3.3	3.6	3.3	4.2	4.0	3.7	3.9	3.7	3.4	3.9	2.5	0.3	0.2	0.2	0.5	1.0	0.2	4.2	1.8
Aug 26	1.9	1.9	1.1	1.1	1.4	1.4	1.7	2.2	3.8	5.3	8.4	7.1	6.5	7.8	6.5	8.3	10.1	9.4	5.4	5.0	3.3	1.1	5.1	3.0	1.1	10.1	3.8
Aug 27	1.8	3.3	4.6	3.7	4.0	3.9	6.1	8.6	6.1	6.3	4.9	5.0	5.1	5.2	5.2	4.5	5.3	6.3	3.0	1.8	4.1	2.7	4.6	6.2	1.8	8.6	4.1
Aug 28	4.3	3.1	3.9	3.9	3.6	1.6	2.0	3.4	4.2	6.2	8.9	8.9	8.7	8.4	6.6	5.8	9.0	6.9	5.2	1.7	3.5	3.3	4.5	4.3	1.6	9.0	5.0
Aug 29	3.5	3.1	2.9	2.6	2.9	2.9	2.6	2.3	3.1	1.9	4.3	3.7	8.3	10.1	10.5	7.9	9.5	9.6	7.0	4.6	3.7	5.4	3.6	2.8	1.9	10.5	4.7
Aug 30	2.2	2.4	2.1	1.5	2.0	1.6	4.1	4.7	5.0	6.3	10.3	13.0	13.6	19.1	17.8	19.6	16.7	14.3	8.8	9.1	4.9	1.3	2.2	1.7	1.3	19.6	7.4
Aug 31	0.8	1.6	3.6	1.7	0.3	0.5	0.3	1.0	4.4	4.1	4.3	4.4	5.5	6.3	5.9	7.4	7.8	6.7	3.1	2.8	1.7	2.5	7.2	10.5	0.3	10.5	3.8
Diurnal Maximum	5	6	6	7	6	5	7	9	10	13	13	14	15	19	18	20	17	14	9	16	14	6	7	11			
Diurnal Average	2.5	2.7	3.0	2.8	2.5	2.3	2.7	3.6	4.7	5.5	6.3	6.3	6.7	7.3	6.8	6.7	6.5	5.9	4.1	2.8	2.6	2.3	2.6	2.7			
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.																											

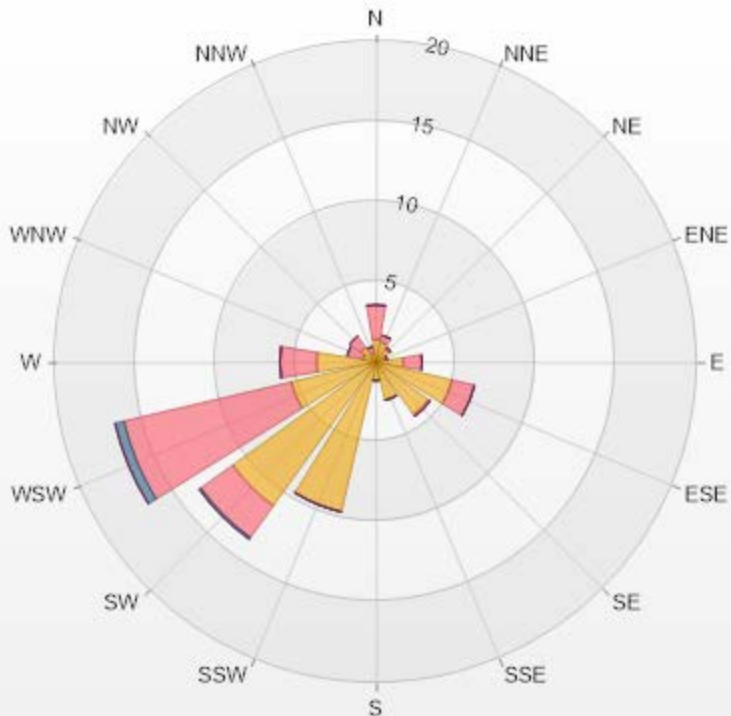
Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 08-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.

Calm: 25.29% Valid Data: 94.09%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.43	2.14	0	0	0	3.57
NNE	1.29	0.43	0	0	0	1.72
NE	1	0.14	0	0	0	1.14
ENE	0.57	0.14	0	0	0	0.71
E	1.71	1.14	0	0	0	2.85
ESE	4.86	1.43	0	0	0	6.29
SE	4	0.14	0	0	0	4.14
SSE	2.43	0	0	0	0	2.43
S	1.14	0	0	0	0	1.14
SSW	9.57	0	0	0	0	9.57
SW	11	2.43	0.14	0	0	13.57
WSW	5.43	10.71	0.57	0	0	16.71
W	3.71	2.29	0	0	0	6
WNW	0.86	1	0	0	0	1.86
NW	1.14	0.86	0	0	0	2
NNW	0.57	0.43	0	0	0	1
Summary	50.71	23.28	0.71	0	0	74.7



PRAMP-202208

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% Icon Classes (KPH)	51	23	1	0	0
1.8-6.0	51				
6.0-15.0		23			
15.0-29.0			1		
29.0-39.0				0	
>39.0					0



PEACE RIVER AREA MONITORING PROGRAM

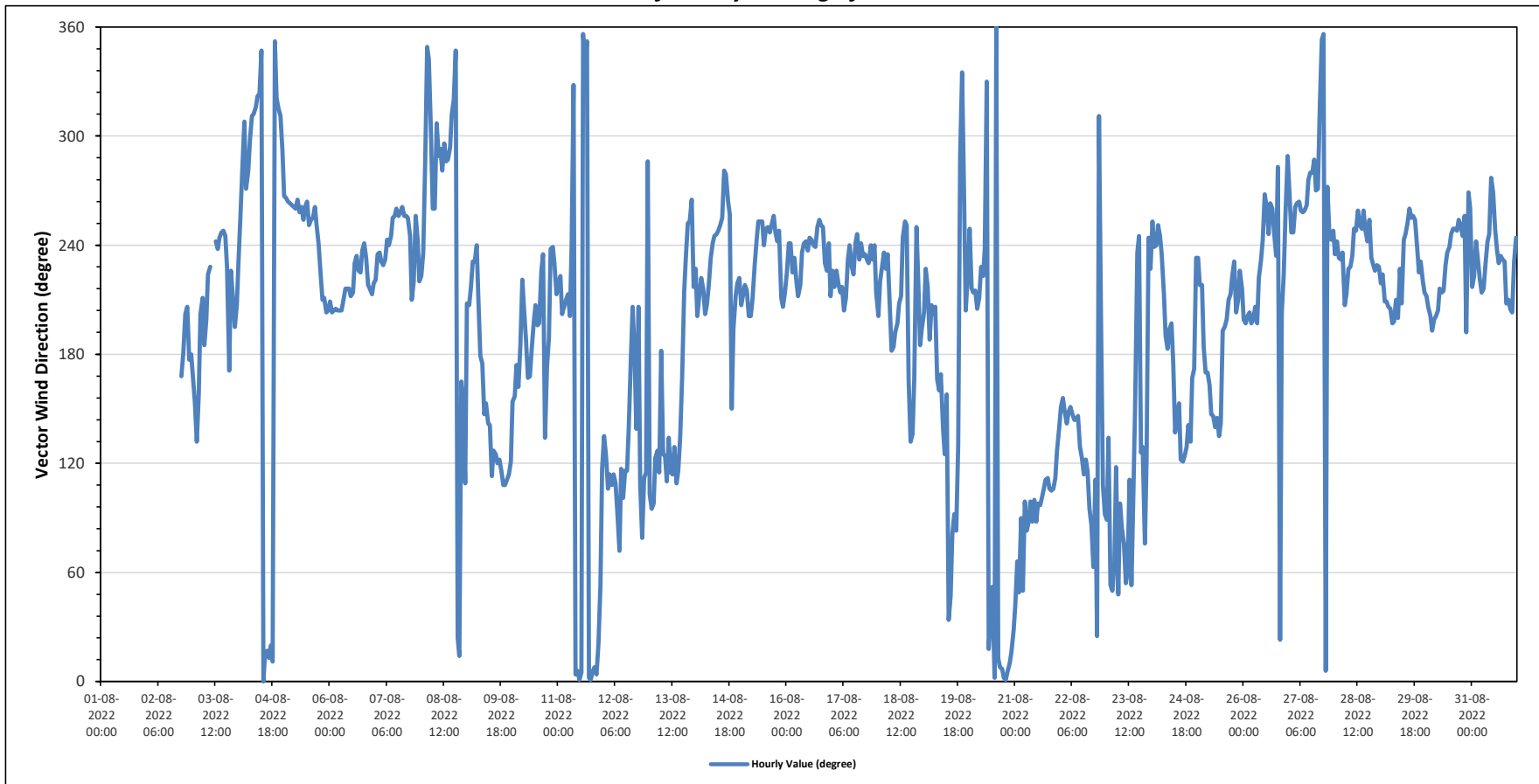
Reno Station - August 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average: 237 (SW) degree										Hours in Service: 744										Daily Average							
										Hours of Data: 700										Degree		Quadrant					
										Hours of Missing Data: 42																	
										Hours of Calibration: 2																	
										Operational Uptime: 94.4																	
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	
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	
Aug 3	SSE	SSE	SE	SSE	SSW	SSW	S	SSW	SW	SW	C	C	WSW	SW	WSW	WSW	WSW	WSW	SW	S	SW	SSW	SSW	SSW	230	SW	
Aug 4	SW	WSW	W	NW	W	W	WNW	NW	NW	NW	NW	NNW	N	NNE	NNE	NNE	NNE	NNE	N	NW	NW	NW	WNW	329	NNW		
Aug 5	W	W	W	W	W	W	WSW	W	WSW	W	WSW	W	W	WSW	WSW	WSW	W	WSW	WSW	SW	SSW	SSW	SSW	253	WSW		
Aug 6	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SSW	SW	219	SW	
Aug 7	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SSW	SW	WSW	WSW	SW	249	WSW		
Aug 8	SW	SW	WNW	NNW	NNW	WNW	WSW	NW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNE	NNE	SSE	SSE	ESE	297	WNW	
Aug 9	SSW	SSW	SW	SW	SW	WSW	SSW	S	S	SE	SSE	SE	SE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	134	SE		
Aug 10	SSE	SSE	S	SSE	S	SW	SSW	S	SSE	SSE	S	SSW	SSW	SSW	SW	SW	SE	S	S	SW	WSW	SW	SSW	195	SSW		
Aug 11	SW	SW	SSW	SSW	SSW	SSW	SSW	WSW	NNW	N	N	N	N	NNW	N	N	N	N	N	N	NNE	NE	ESE	356	N		
Aug 12	SE	ESE	ESE	ESE	ESE	ESE	ESE	E	ENE	ESE	E	ESE	ESE	SE	S	SSW	S	SE	SSW	ESE	ENE	ESE	ESE	WNW	114	ESE	
Aug 13	ESE	E	E	ESE	SE	ESE	S	SE	ESE	ESE	SE	ESE	ESE	SE	ESE	ESE	SE	SSE	SSW	SW	WSW	WSW	W	SW	177	S	
Aug 14	SW	SSW	SSW	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	SSE	SSW	SSW	SSW	SW	SW	240	WSW	
Aug 15	SSW	SSW	SW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	240	WSW	
Aug 16	SW	WSW	WSW	SW	SW	SW	SSW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	SSW	240	WSW	
Aug 17	SW	SW	SW	SW	SSW	SW	SSW	SSW	SW	WSW	SW	SW	WSW	WSW	SW	WSW	SW	SW	SW	SW	WSW	SW	WSW	SSW	231	SW	
Aug 18	SSW	SW	SW	SW	SW	SW	SSW	S	S	S	SSW	SSW	SSW	WSW	WSW	SSW	SE	SE	SSE	WSW	SW	S	SSW	215	SSW		
Aug 19	SSW	SW	SW	S	SSW	SSW	SSW	SSE	SSE	SE	SE	SSE	NE	NE	E	E	E	SE	SE	WNW	NNW	W	SSW	SW	129	SE	
Aug 20	WSW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	NNW	NNE	NE	NE	N	N	NNE	N	N	N	N	N	N	NNE	NNE	359	N	
Aug 21	NE	ENE	NE	E	NE	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	95	E	
Aug 22	SSE	SSE	SSE	SE	SE	SSE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	E	E	ENE	ESE	NNE	NW	SSW	ESE	E	126	SE	
Aug 23	E	SE	NE	NE	ENE	ESE	NE	E	E	ENE	NE	ENE	ESE	NE	ESE	SSE	SW	WSW	SE	SE	ENE	ESE	WSW	SW	84	E	
Aug 24	WSW	WSW	WSW	WSW	WSW	SW	SSW	S	S	SSW	SSW	S	SE	SE	SE	SSE	ESE	ESE	SE	SE	SE	SSE	S	SW	157	SSE	
Aug 25	SW	SW	SW	S	SSE	SSE	SE	SE	SE	SE	SE	SE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	177	S	
Aug 26	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	W	W	WSW	W	WSW	WSW	SW	W	NNE	SSW	SW	WSW	WNW	246	WSW	
Aug 27	W	WSW	WSW	W	W	W	WSW	WSW	WSW	W	W	W	W	WNW	W	W	NW	N	N	N	W	WSW	WSW	WSW	272	W	
Aug 28	SW	WSW	SW	SW	SW	SSW	SSW	SW	SW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	242	WSW	
Aug 29	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	236	SW	
Aug 30	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	S	W	WSW	239	SW	
Aug 31	SW	SW	WSW	SW	SW	SSW	SW	SW	WSW	WSW	W	W	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	237	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		
X	Invalid Data (Machine 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 VWD - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

Summary of Hourly Averages

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

WIND SPEED																												
Maximum Hourly Value: 19.6 kph on August 30 at hour 15													Hours in Service: 744															
Maximum Daily Value: 7.4 kph on August 30													Hours of Data: 700															
Minimum Hourly Value: 0.0 kph on August 8 at hour 21													Hours of Missing Data: 42															
Minimum Daily Value: 0.7 kph on August 19													Hours of Calibration: 2															
Monthly Average: 2.1 kph													Operational Uptime: 94.4															
WIND DIRECTION																												
Monthly Average: 237 (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				
Aug 1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Aug 2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.0	1.9	-
Aug 3	1.2	1.0	2.6	1.3	1.5	1.5	1.1	1.0	2.9	3.9	C	C	6.6	8.4	8.9	8.7	7.9	4.5	0.5	0.1	0.1	0.2	2.2	3.0	0.1	8.9	2.8	
Aug 4	4.1	6.0	4.5	4.3	3.0	3.0	3.9	4.1	5.4	6.6	8.8	8.0	7.5	6.2	5.0	7.1	9.6	8.1	5.9	4.1	4.6	5.1	4.3	2.9	2.9	9.6	4.3	
Aug 5	2.6	3.3	4.3	4.8	5.5	4.7	5.1	5.2	5.7	6.5	7.3	6.5	6.7	8.0	7.3	7.6	7.1	7.7	6.1	2.2	1.6	2.7	4.3	4.4	1.6	8.0	5.1	
Aug 6	4.9	4.8	4.9	5.4	5.2	5.3	5.3	5.4	5.1	4.4	4.3	4.9	5.9	8.2	7.2	5.7	4.3	7.8	8.6	6.4	3.9	3.8	3.3	3.9	3.3	8.6	5.2	
Aug 7	4.3	6.3	6.1	4.7	3.2	4.4	6.6	7.5	9.8	10.5	11.5	12.5	13.2	11.8	10.1	12.3	12.4	9.9	4.2	1.3	2.7	2.3	3.1	1.9	1.3	13.2	7.0	
Aug 8	2.0	4.4	6.0	7.0	4.1	3.1	4.7	7.1	7.2	6.7	8.4	7.4	8.0	8.8	8.5	7.3	6.7	7.7	3.8	2.2	1.3	0.0	0.7	0.1	0.0	8.8	4.4	
Aug 9	1.5	0.7	0.6	1.5	1.7	1.5	1.2	1.6	2.1	2.3	2.9	3.6	4.3	5.5	5.5	6.3	6.8	5.3	4.9	3.8	2.2	2.2	3.5	3.2	0.6	6.8	2.6	
Aug 10	1.8	1.9	1.4	1.3	0.8	1.8	1.0	1.4	2.0	2.4	2.8	3.5	3.4	3.5	3.3	3.8	3.7	1.5	0.6	0.1	0.3	0.7	1.3	1.8	0.1	3.8	1.7	
Aug 11	1.5	1.6	1.6	1.3	1.4	1.7	2.9	4.4	7.5	12.9	10.8	8.8	8.9	7.5	7.9	10.0	10.3	8.5	6.5	5.0	5.8	3.4	1.8	3.0	1.3	12.9	4.1	
Aug 12	2.9	3.1	5.3	6.2	4.4	4.7	4.9	6.8	6.9	6.2	6.2	5.5	6.1	3.4	2.3	2.2	1.3	2.0	0.6	0.1	2.1	3.9	2.7	1.1	0.1	6.9	3.3	
Aug 13	3.4	4.3	2.7	0.6	1.6	2.9	0.7	1.5	2.7	3.6	2.7	4.7	5.1	3.7	4.2	2.7	1.4	0.7	8.3	16.2	14.4	5.5	1.2	4.2	0.6	16.2	2.0	
Aug 14	4.7	2.5	3.8	5.2	3.3	2.7	3.3	4.9	7.6	10.1	12.7	13.5	14.8	14.5	13.8	6.6	4.5	4.5	3.2	0.7	1.7	4.8	5.3	5.3	0.7	14.8	6.0	
Aug 15	4.6	4.1	3.7	3.5	3.5	3.3	2.9	4.2	6.8	8.3	10.0	10.1	8.8	11.2	12.2	11.3	8.5	5.3	2.9	0.3	0.3	0.1	0.7	1.0	0.1	12.2	5.1	
Aug 16	3.1	5.2	4.7	4.5	1.8	0.3	1.2	3.4	7.0	8.4	9.6	7.3	7.9	8.1	7.8	7.4	7.9	6.3	7.1	2.8	1.4	2.0	1.8	1.2	0.3	9.6	4.9	
Aug 17	1.9	1.9	2.7	3.0	2.4	2.2	1.1	2.6	4.5	4.9	4.4	6.0	7.1	5.9	5.2	5.1	4.3	3.7	3.1	0.3	0.1	0.4	0.9	0.5	0.1	7.1	3.0	
Aug 18	0.8	0.7	0.9	1.8	1.8	1.9	1.2	1.4	2.3	2.6	3.0	3.9	4.3	5.9	5.3	5.0	1.4	2.6	2.1	0.0	0.3	0.2	0.4	0.7	0.0	5.9	1.7	
Aug 19	0.7	0.8	0.8	1.1	1.4	1.3	1.3	1.8	1.9	2.2	2.6	2.3	0.8	2.9	4.0	4.6	3.0	2.5	0.6	0.7	2.8	0.7	0.9	2.2	0.6	4.6	0.7	
Aug 20	3.9	2.4	2.9	1.0	0.6	1.3	1.8	1.5	3.0	4.8	4.9	4.0	3.0	5.8	5.5	4.6	6.9	6.1	6.4	4.9	5.5	4.6	5.3	3.9	0.6	6.9	2.5	



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - August 2022

Summary of Hourly Averages

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

WIND SPEED		WIND DIRECTION																																																	
Maximum Hourly Value:	19.6 kph on August 30 at hour 15	Hours in Service:	744																																																
Maximum Daily Value:	7.4 kph on August 30	Hours of Data:	700																																																
Minimum Hourly Value:	0.0 kph on August 8 at hour 21	Hours of Missing Data:	42																																																
Minimum Daily Value:	0.7 kph on August 19	Hours of Calibration:	2																																																
Monthly Average:	2.1 kph	Operational Uptime:	94.4																																																
Monthly Average: 237 (SW) degree																																																			
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average																									
Aug 21	4.2	4.4	4.9	3.8	4.4	1.7	4.2	7.3	8.7	8.5	6.6	6.0	6.0	6.2	6.7	6.7	7.2	7.2	5.9	4.1	3.8	4.6	4.1	2.9	1.7	8.7	5.1																								
Aug 22	2.2	1.7	1.9	2.7	2.6	2.1	2.6	2.8	3.1	3.4	5.3	4.4	6.7	4.3	2.5	3.3	2.4	2.0	0.8	0.6	0.2	0.3	0.5	1.6	0.2	6.7	2.3																								
Aug 23	1.2	0.2	1.0	1.2	1.2	0.2	1.7	1.6	2.8	4.8	4.6	5.2	3.3	6.8	4.3	2.1	3.7	4.5	0.9	0.4	1.2	1.7	0.2	0.4	0.2	6.8	1.4																								
Aug 24	0.5	0.7	1.3	0.6	0.5	1.6	1.8	1.7	2.2	2.8	3.3	3.0	3.8	3.5	3.5	5.5	6.7	5.3	3.4	1.1	0.3	0.5	0.7	0.6	0.3	6.7	1.8																								
Aug 25	0.8	0.5	0.8	1.2	1.4	1.3	1.5	2.8	3.3	3.6	3.3	4.2	4.0	3.7	3.9	3.7	3.4	3.9	2.5	0.3	0.2	0.2	0.5	1.0	0.2	4.2	1.8																								
Aug 26	1.9	1.9	1.1	1.1	1.4	1.4	1.7	2.2	3.8	5.3	8.4	7.1	6.5	7.8	6.5	8.3	10.1	9.4	5.4	5.0	3.3	1.1	5.1	3.0	1.1	10.1	3.8																								
Aug 27	1.8	3.3	4.6	3.7	4.0	3.9	6.1	8.6	6.1	6.3	4.9	5.0	5.1	5.2	5.2	4.5	5.3	6.3	3.0	1.8	4.1	2.7	4.6	6.2	1.8	8.6	4.1																								
Aug 28	4.3	3.1	3.9	3.9	3.6	1.6	2.0	3.4	4.2	6.2	8.9	8.9	8.7	8.4	6.6	5.8	9.0	6.9	5.2	1.7	3.5	3.3	4.5	4.3	1.6	9.0	5.0																								
Aug 29	3.5	3.1	2.9	2.6	2.9	2.9	2.6	2.3	3.1	1.9	4.3	3.7	8.3	10.1	10.5	7.9	9.5	9.6	7.0	4.6	3.7	5.4	3.6	2.8	1.9	10.5	4.7																								
Aug 30	2.2	2.4	2.1	1.5	2.0	1.6	4.1	4.7	5.0	6.3	10.3	13.0	13.6	19.1	17.8	19.6	16.7	14.3	8.8	9.1	4.9	1.3	2.2	1.7	1.3	19.6	7.4																								
Aug 31	0.8	1.6	3.6	1.7	0.3	0.5	0.3	1.0	4.4	4.1	4.3	4.4	5.5	6.3	5.9	7.4	7.8	6.7	3.1	2.8	1.7	2.5	7.2	10.5	0.3	10.5	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										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

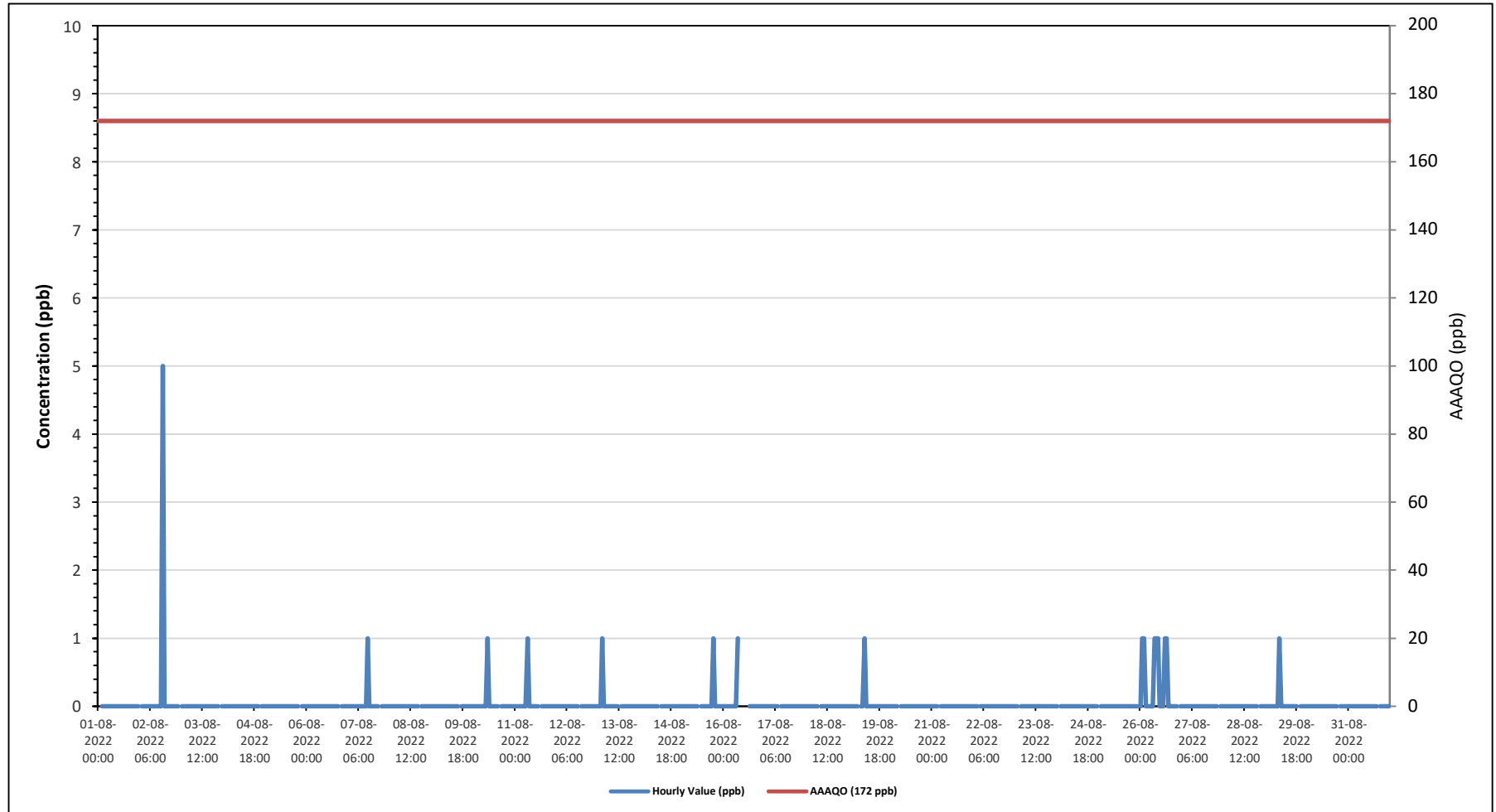
Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

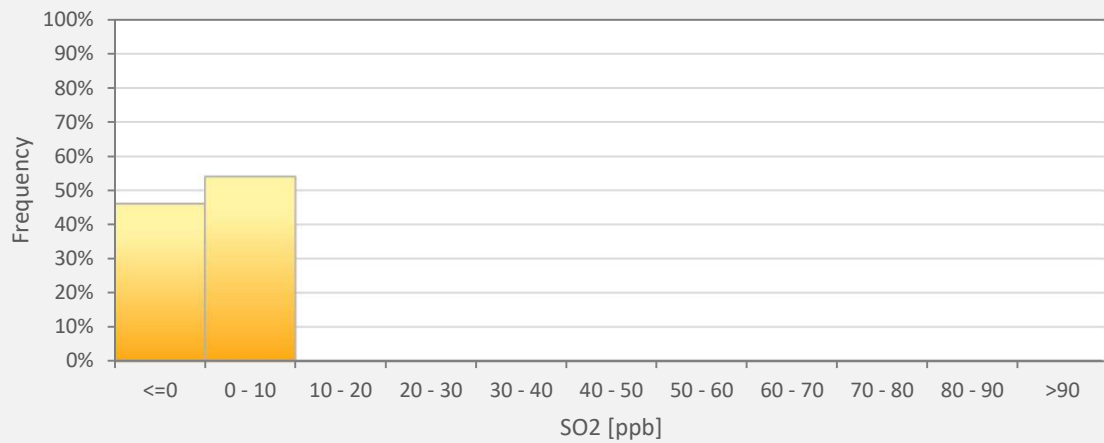
SULPHUR DIOXIDE (SO₂) in ppb

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: 5 ppb on August 2 at hour 13												Hours in Service: 744																			
Maximum Daily Value: 0.3 ppb on August 26												Hours of Data: 706																			
Minimum Hourly Value: 0 ppb on August 1 at hour 0												Hours of Missing Data: 0																			
Minimum Daily Value: 0.0 ppb on August 1												Hours of Calibration: 38																			
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							
Aug 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	0	0	0.0			
Aug 2	S	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	S	0	0	5	0.2	
Aug 3	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	0	0	0	0.0	
Aug 4	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	0	0.0	
Aug 5	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	0.0	
Aug 6	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	0.0	
Aug 7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0	
Aug 8	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	0	0	0.0	
Aug 9	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	
Aug 10	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 11	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 12	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	
Aug 13	0	0	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 14	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	
Aug 15	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	1	0.0		
Aug 16	0	0	0	0	0	0	0	1	S	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1		
Aug 17	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	
Aug 18	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	
Aug 19	0	0	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
Aug 20	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	
Aug 21	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	
Aug 22	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	
Aug 23	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	
Aug 24	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	
Aug 25	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	
Aug 26	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	S	0	0	0	1	0.3		
Aug 27	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	0	0.0	
Aug 28	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	0.0	
Aug 29	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0.0		
Aug 30	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	0.0	
Aug 31	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	0.0	
Diurnal Maximum	0	1	1	0	0	0	0	1	1	1	1	1	0	5	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.0	
Diurnal Average	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
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



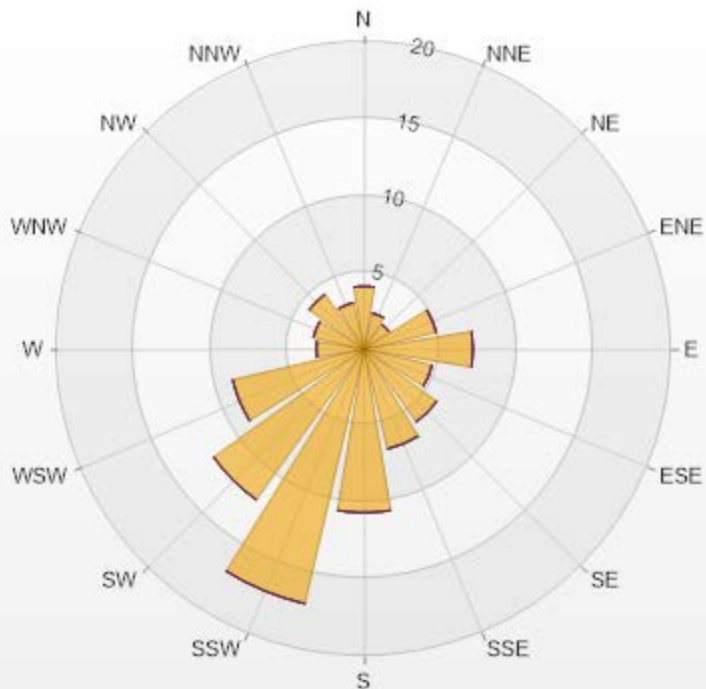
SO2[ppb] Histogram: Peace River Complex [PRC] Monthly: 08-2022 1 Hr.



Classes	SO2
<=0	46.03%
0 - 10	53.97%
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: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	4.11	0	0	0	0	4.11
NNE	2.41	0	0	0	0	2.41
NE	1.99	0	0	0	0	1.99
ENE	4.82	0	0	0	0	4.82
E	7.09	0	0	0	0	7.09
ESE	4.54	0	0	0	0	4.54
SE	5.82	0	0	0	0	5.82
SSE	6.67	0	0	0	0	6.67
S	10.64	0	0	0	0	10.64
SSW	17.02	0	0	0	0	17.02
SW	12.06	0	0	0	0	12.06
WSW	8.79	0	0	0	0	8.79
W	3.12	0	0	0	0	3.12
WNW	3.4	0	0	0	0	3.4
NW	4.4	0	0	0	0	4.4
NNW	3.12	0	0	0	0	3.12
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

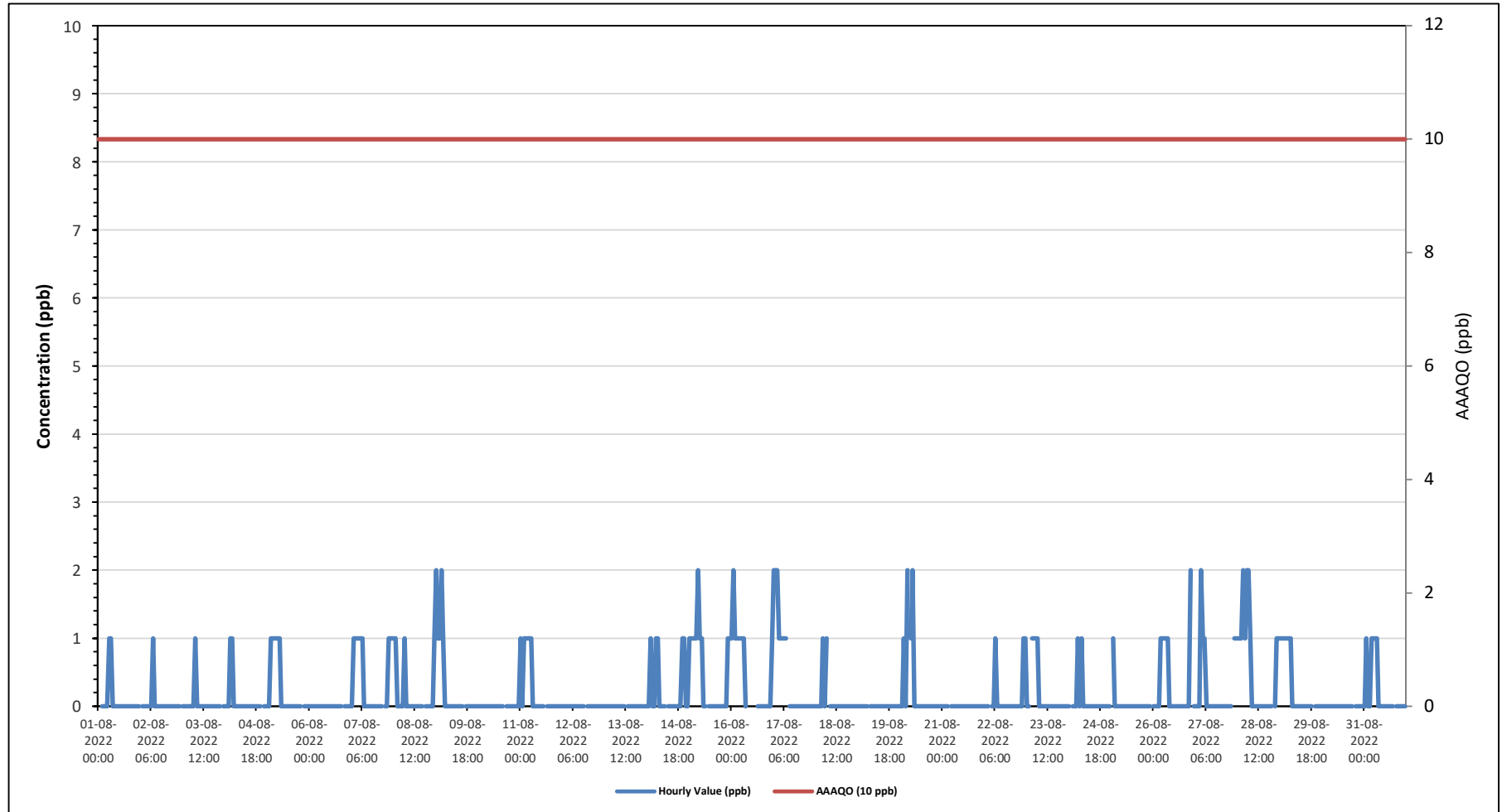
HYDROGEN SULPHIDE (H₂S) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb																																			
Number of 1-Hour Exceedances:						0						Number of 24-Hour Exceedances:						0																	
Maximum Hourly Value:												2 ppb on August 9 at hour 0												Hours in Service:						744					
Maximum Daily Value:												0.6 ppb on August 28												Hours of Data:						706					
Minimum Hourly Value:												0 ppb on August 1 at hour 0												Hours of Missing Data:						0					
Minimum Daily Value:												0.0 ppb on August 6												Hours of Calibration:						38					
Monthly Average:												0.2 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								
Aug 1	0	S	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1								
Aug 2	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.0								
Aug 3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.0								
Aug 4	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0.1								
Aug 5	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.3								
Aug 6	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								
Aug 7	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	1	1	0	1	0.4							
Aug 8	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.2								
Aug 9	2	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3								
Aug 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
Aug 11	1	0	1	1	1	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.3								
Aug 12	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								
Aug 13	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								
Aug 14	0	0	1	0	0	1	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.2							
Aug 15	1	1	1	1	1	2	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0.5								
Aug 16	1	2	1	1	1	1	1	1	0	S	C	C	C	C	C	C	0	0	0	0	0	0	0	1	0	2	0.6								
Aug 17	2	2	2	1	1	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.5								
Aug 18	0	0	0	0	1	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1								
Aug 19	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								
Aug 20	0	0	1	0	2	S	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3								
Aug 21	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								
Aug 22	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.1								
Aug 23	0	0	S	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2								
Aug 24	0	S	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1								
Aug 25	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.0								
Aug 26	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	S	0	0	2	0.3								
Aug 27	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	0	2	0.3								
Aug 28	1	1	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	1	0	2	0.6								
Aug 29	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.3								
Aug 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								
Aug 31	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.2								
Diurnal Maximum	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1											
Diurnal Average	0.3	0.4	0.4	0.5	0.6	0.5	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2											

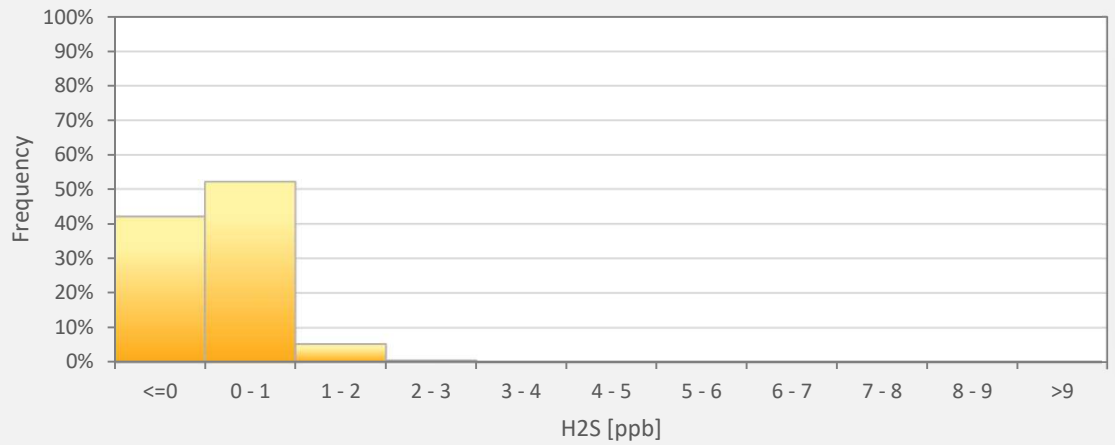
C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

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 H2S - Peace River Complex (PRC) Station



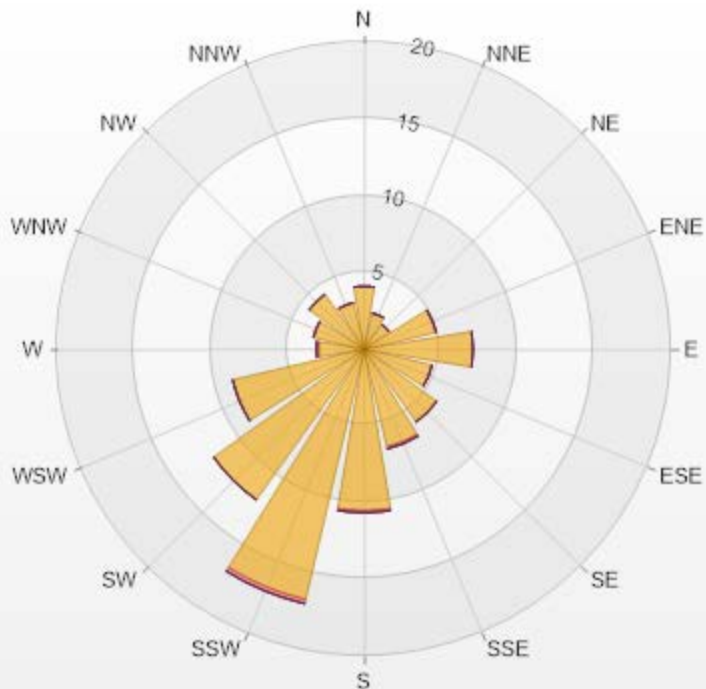
H2S[ppb] Histogram: Peace River Complex [PRC] Monthly: 08-2022 1 Hr.



Classes	H2S
<=0	42.07%
0 - 1	52.12%
1 - 2	5.24%
2 - 3	0.57%
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: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.11	0	0	0	0	4.11
NNE	2.41	0	0	0	0	2.41
NE	1.99	0	0	0	0	1.99
ENE	4.82	0	0	0	0	4.82
E	7.09	0	0	0	0	7.09
ESE	4.54	0	0	0	0	4.54
SE	5.82	0	0	0	0	5.82
SSE	6.52	0.14	0	0	0	6.66
S	10.5	0.14	0	0	0	10.64
SSW	16.74	0.28	0	0	0	17.02
SW	12.06	0	0	0	0	12.06
WSW	8.79	0	0	0	0	8.79
W	2.98	0.14	0	0	0	3.12
WNW	3.4	0	0	0	0	3.4
NW	4.4	0	0	0	0	4.4
NNW	3.12	0	0	0	0	3.12
Summary	99.29	0.7	0	0	0	100



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% Icon Classes (ppb)

99 0-2

1 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

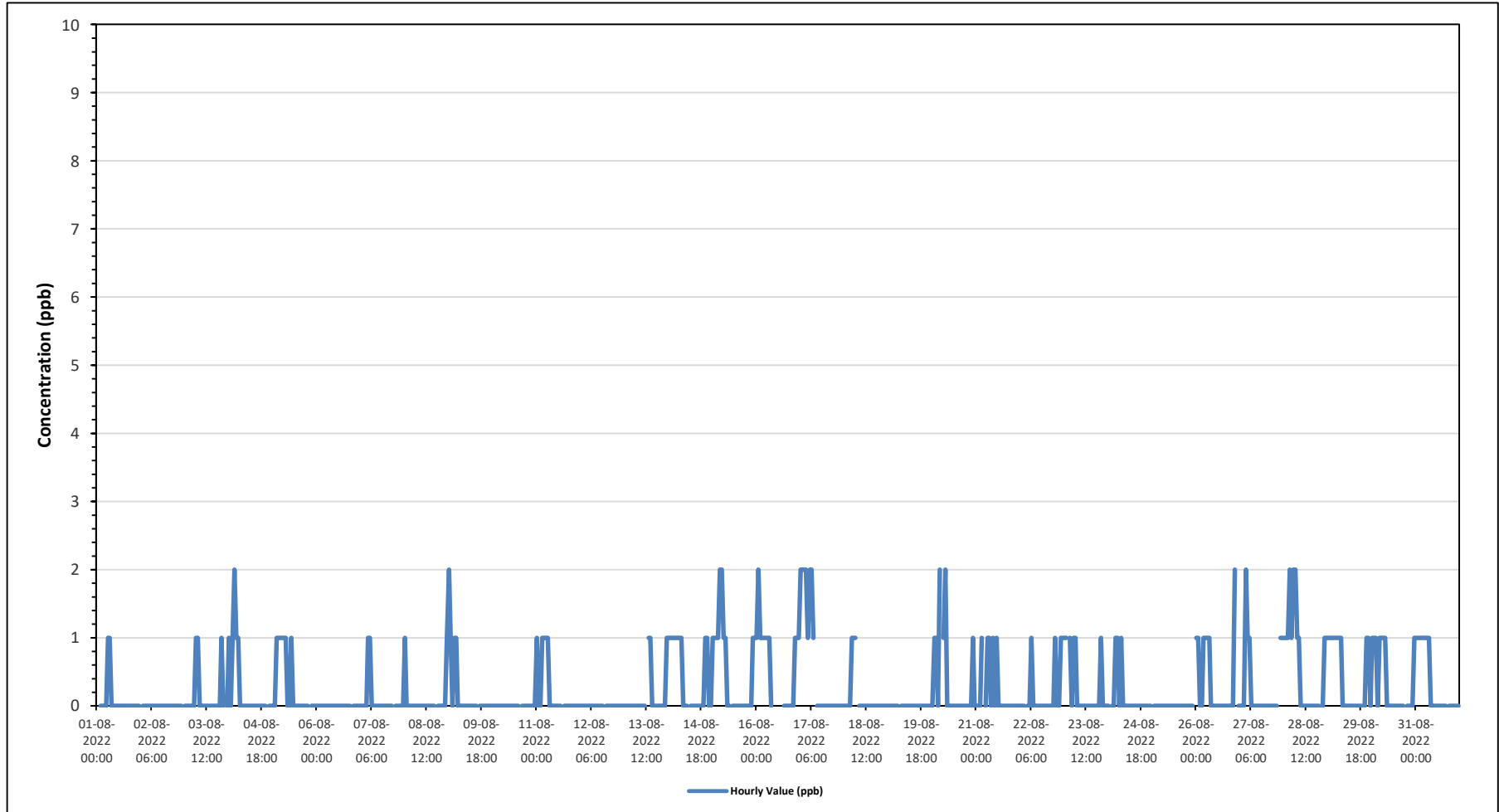
Maximum Hourly Value:	2 ppb on August 4 at hour 3	Hours in Service:	744
Maximum Daily Value:	0.7 ppb on August 16	Hours of Data:	706
Minimum Hourly Value:	0 ppb on August 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 ppb on August 2	Hours of Calibration:	38
Monthly Average:	0.2 ppb	Operational 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	
Aug 1	0	S	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 2	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	0.0
Aug 3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	S	0	0	0	1	0.1
Aug 4	1	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	2	0.3
Aug 5	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	1	0.3
Aug 6	0	0	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
Aug 7	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	1	0.1
Aug 8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	1	0	0.1	
Aug 9	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	0	0	2	0.2
Aug 10	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	0	0.0
Aug 11	1	0	0	1	1	1	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Aug 12	0	0	0	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
Aug 13	0	0	0	0	0	0	0	0	0	0	0	S	S	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0.1
Aug 14	1	1	1	1	1	1	1	1	0	0	0	S	S	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.4
Aug 15	1	1	1	1	2	2	1	1	0	0	S	C	C	C	C	C	0	0	0	0	0	0	0	1	1	1	2	0.5
Aug 16	1	2	1	1	1	1	1	1	0	S	C	C	C	C	C	0	0	0	0	0	0	1	1	1	0	2	0.7	
Aug 17	2	2	2	2	1	2	2	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.6
Aug 18	0	0	0	0	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 19	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
Aug 20	0	1	1	0	2	S	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0.3
Aug 21	0	0	0	1	S	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Aug 22	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1	0.2
Aug 23	1	1	S	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.3
Aug 24	0	S	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Aug 25	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	0.0
Aug 26	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	S	0	0	2	0.3	
Aug 27	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	0	2	0.3	
Aug 28	1	1	1	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	1	0	2	0.6	
Aug 29	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	S	0	1	1	0	0	1	1	0.4
Aug 30	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	1	0	1	0.3
Aug 31	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.3
Diurnal Maximum	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	2.00	1.00	1.00	0	0	1.00
Diurnal Average	0.55	0.48	0.40	0.60	0.67	0.67	0.67	0.53	0.03	0.03	0.03	0.03	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.03	0.10	0.17	0.24	0.28	0	0	0.28	

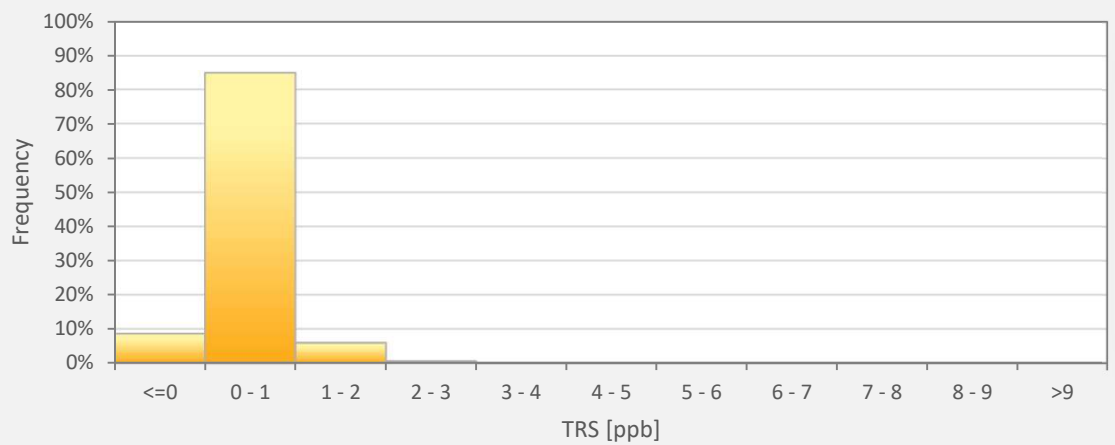
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

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 - Peace River Complex (PRC) Station



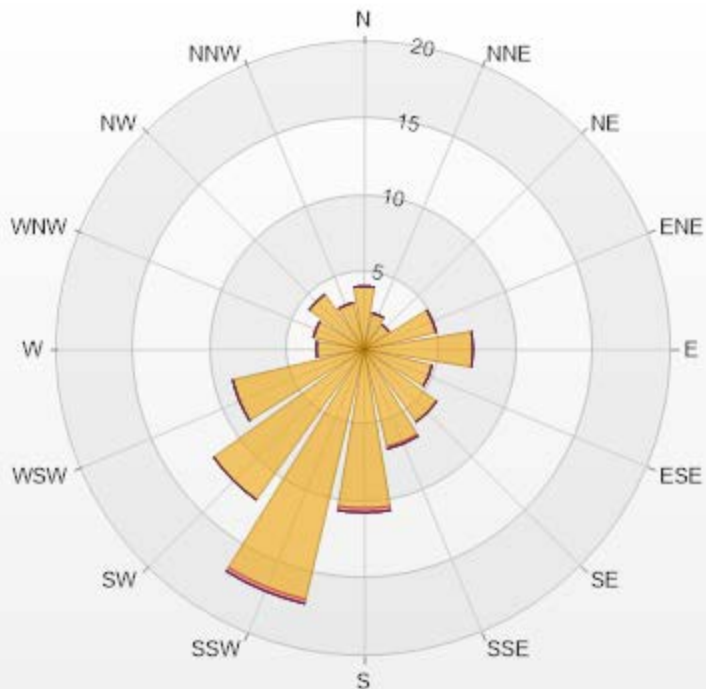
TRS[ppb] Histogram: Peace River Complex [PRC] Monthly: 08-2022 1 Hr.



Classes	TRS
<=0	8.64%
0 - 1	84.84%
1 - 2	5.95%
2 - 3	0.57%
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: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.11	0	0	0	0	4.11
NNE	2.41	0	0	0	0	2.41
NE	1.99	0	0	0	0	1.99
ENE	4.82	0	0	0	0	4.82
E	7.09	0	0	0	0	7.09
ESE	4.54	0	0	0	0	4.54
SE	5.82	0	0	0	0	5.82
SSE	6.52	0.14	0	0	0	6.66
S	10.35	0.28	0	0	0	10.63
SSW	16.74	0.28	0	0	0	17.02
SW	12.06	0	0	0	0	12.06
WSW	8.79	0	0	0	0	8.79
W	3.12	0	0	0	0	3.12
WNW	3.4	0	0	0	0	3.4
NW	4.4	0	0	0	0	4.4
NNW	3.12	0	0	0	0	3.12
Summary	99.28	0.7	0	0	0	100



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% Icon Classes (ppb)

99 0-2

1 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

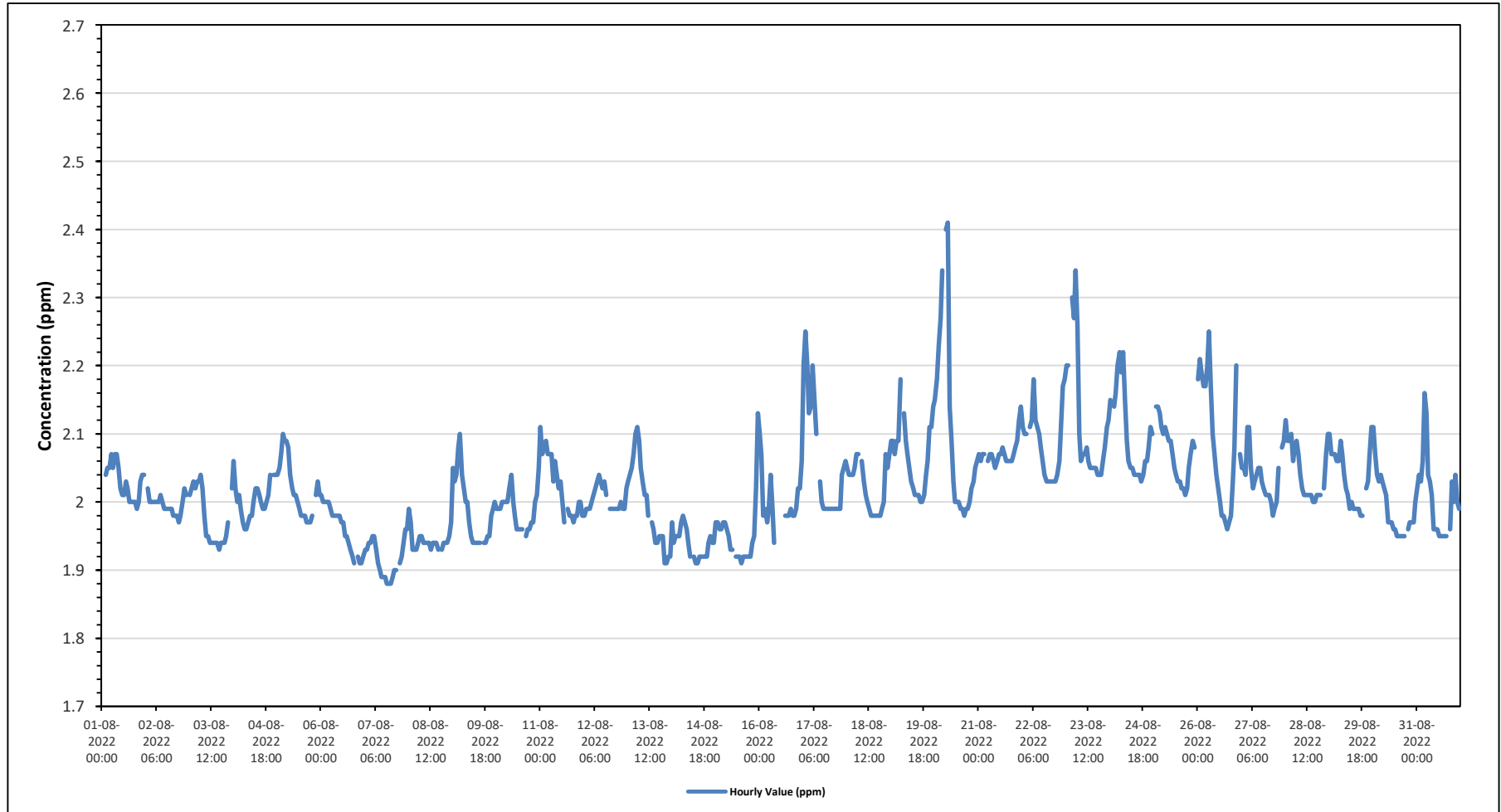
TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:	2.41 ppm on August 20 at hour 7	Hours in Service:	744
Maximum Daily Value:	2.12 ppm on August 23	Hours of Data:	707
Minimum Hourly Value:	1.88 ppm on August 7 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.92 ppm on August 7	Hours of Calibration:	37
Monthly Average:	2.02 ppm	Operational Uptime:	100.0

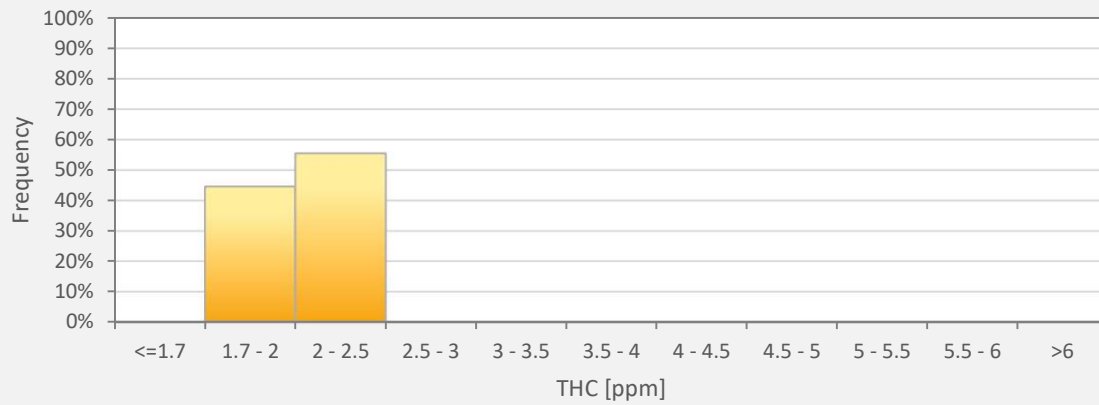
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average																	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23																
Aug 1	2.02	S	2.04	2.05	2.05	2.07	2.05	2.07	2.07	2.05	2.02	2.01	2.01	2.03	2.02	2.00	2.00	2.00	2.00	1.99	2.00	2.03	2.04	2.04	1.99	2.07	2.03																
Aug 2	S	2.02	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.98	2.00	2.02	2.01	S	1.97	2.02	2.00																	
Aug 3	2.01	2.02	2.03	2.02	2.03	2.03	2.04	2.02	1.98	1.95	1.95	1.94	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.95	1.97	S	2.02	1.93	2.04	1.98																	
Aug 4	2.06	2.02	2.00	2.01	1.99	1.97	1.96	1.96	1.97	1.98	1.98	2.00	2.02	2.02	2.01	2.00	1.99	1.99	2.00	2.01	2.04	S	2.04	2.04	1.96	2.06	2.00																
Aug 5	2.04	2.05	2.07	2.10	2.09	2.09	2.08	2.04	2.02	2.01	2.00	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.98	S	2.01	2.03	2.01	1.97	2.10	2.02																	
Aug 6	2.01	2.00	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.95	1.95	1.94	1.93	1.92	1.91	S	1.92	1.91	1.91	1.92	1.91	2.01	1.96																
Aug 7	1.93	1.93	1.94	1.94	1.95	1.95	1.93	1.91	1.90	1.89	1.89	1.89	1.88	1.88	1.88	1.89	1.90	1.90	S	1.91	1.92	1.94	1.96	1.96	1.88	1.96	1.92																
Aug 8	1.99	1.97	1.93	1.93	1.93	1.94	1.95	1.95	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.93	S	1.93	1.94	1.94	1.94	1.94	1.95	1.97	1.93	1.99	1.94																
Aug 9	2.05	2.03	2.04	2.08	2.10	2.04	2.02	2.00	2.00	1.97	1.95	1.94	1.94	1.94	1.94	1.94	S	1.94	1.95	1.95	1.98	1.99	2.00	1.94	2.10	1.99	1.99																
Aug 10	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.04	2.00	1.98	1.96	1.96	1.96	1.96	S	1.95	1.96	1.96	1.97	1.97	2.00	2.01	2.05	1.95	2.05	1.99																
Aug 11	2.11	2.07	2.08	2.09	2.07	2.07	2.07	2.03	2.06	2.04	2.02	2.03	2.00	1.97	S	1.99	1.98	1.98	1.97	1.98	1.98	2.00	2.00	1.98	1.97	2.11	2.02																
Aug 12	1.98	1.99	1.99	1.99	2.00	2.01	2.02	2.03	2.04	2.03	2.02	2.03	2.01	S	1.99	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	2.02	1.98	2.04	2.00																
Aug 13	2.03	2.04	2.05	2.07	2.10	2.11	2.09	2.05	2.03	2.01	2.01	1.98	S	1.97	1.96	1.94	1.94	1.95	1.95	1.95	1.91	1.91	1.92	1.92	1.91	2.11	2.00																
Aug 14	1.97	1.94	1.95	1.95	1.95	1.97	1.98	1.97	1.96	1.94	1.92	S	1.92	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.95	1.94	1.94	1.91	1.98	1.94															
Aug 15	1.97	1.97	1.96	1.96	1.97	1.97	1.96	1.95	1.93	1.93	S	1.92	1.92	1.92	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.95	2.02	2.13	1.91	1.95																
Aug 16	2.10	2.07	1.98	1.99	1.97	1.99	2.04	1.99	1.94	S	C	C	C	C	1.98	1.98	1.98	1.99	1.98	1.98	1.99	2.02	2.02	2.06	1.94	2.10	2.00																
Aug 17	2.20	2.25	2.20	2.13	2.14	2.20	2.15	2.10	S	2.03	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.04	2.05	2.06	1.99	2.25	2.06																
Aug 18	2.05	2.04	2.04	2.04	2.05	2.07	2.07	S	2.06	2.03	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.07	2.05	2.07	1.98	2.07	2.02																
Aug 19	2.09	2.09	2.07	2.09	2.09	2.18	S	2.13	2.09	2.07	2.05	2.03	2.02	2.01	2.01	2.00	2.00	2.01	2.00	2.01	2.04	2.06	2.11	2.11	2.14	2.00	2.18	2.07															
Aug 20	2.15	2.18	2.23	2.27	2.34	S	2.40	2.41	2.14	2.09	2.03	2.00	2.00	2.00	1.99	1.99	1.98	1.99	1.99	2.00	2.02	2.03	2.05	2.06	1.98	2.41	2.10																
Aug 21	2.07	2.06	2.07	2.07	S	2.06	2.07	2.07	2.06	2.05	2.06	2.07	2.07	2.08	2.07	2.06	2.06	2.06	2.06	2.06	2.07	2.08	2.09	2.12	2.14	2.05	2.14	2.07															
Aug 22	2.11	2.10	2.10	S	2.11	2.12	2.18	2.12	2.11	2.10	2.08	2.06	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.06	2.11	2.17	2.18	2.03	2.18	2.09															
Aug 23	2.20	2.20	S	2.30	2.27	2.34	2.26	2.10	2.06	2.07	2.07	2.08	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.06	2.08	2.11	2.12	2.04	2.34	2.12															
Aug 24	2.15	S	2.14	2.16	2.20	2.22	2.19	2.22	2.15	2.09	2.06	2.05	2.05	2.04	2.04	2.04	2.03	2.04	2.06	2.06	2.08	2.11	2.10	2.10	2.03	2.22	2.10																
Aug 25	S	2.14	2.14	2.13	2.11	2.10	2.11	2.10	2.09	2.09	2.07	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.02	2.05	2.07	2.09	2.08	S	2.01	2.14	2.07																
Aug 26	2.18	2.21	2.19	2.17	2.17	2.20	2.25	2.17	2.10	2.07	2.04	2.02	2.00	1.98	1.98	1.97	1.96	1.97	1.98	2.03	2.08	2.20	S	2.07	1.96	2.25	2.09																
Aug 27	2.05	2.05	2.04	2.11	2.11	2.05	2.02	2.03	2.04	2.05	2.05	2.03	2.02	2.01	2.01	2.01	2.00	1.98	1.99	2.00	2.05	S	2.08	2.09	1.98	2.11	2.04																
Aug 28	2.12	2.09	2.09	2.10	2.06	2.08	2.09	2.07	2.04	2.02	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.01	S	2.02	2.07	2.10	2.00	2.12	2.04															
Aug 29	2.10	2.07	2.07	2.07	2.06	2.06	2.09	2.07	2.04	2.02	2.01	1.99	2.00	1.99	1.99	1.99	1.99	1.98	1.98	S	2.02	2.03	2.07	2.11	1.98	2.11	2.03																
Aug 30	2.11	2.07	2.04	2.03	2.04	2.03	2.02	2.01	1.97	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	S	1.96	1.97	1.97	1.97	2.00	1.95	2.11	1.99																
Aug 31	2.02	2.04	2.03	2.06	2.16	2.13	2.04	2.03	2.01	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	S	1.96	2.03	2.00	2.04	2.00	1.99	1.95	2.16	2.01																
Diurnal Maximum	2.20	2.25	2.23	2.30	2.34	2.34	2.40	2.41	2.15	2.10	2.08	2.08	2.07	2.08	2.07	2.06	2.06	2.06	2.06	2.07	2.08	2.20	2.20	2.17	2.18																		
Diurnal Average	2.06	2.06	2.05	2.06	2.07	2.07	2.07	2.05	2.03	2.01	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	2.03	2.04																			
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 THC - Peace River Complex (PRC) Station



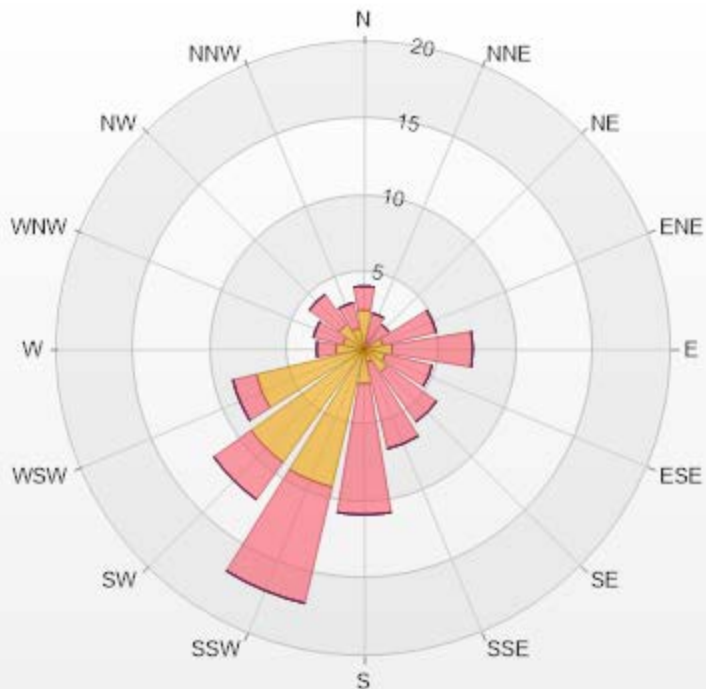
THC55[ppm] Histogram: Peace River Complex [PRC] Monthly: 08-2022 1 Hr.



Classes	THC55
<=1.7	0.00%
1.7 - 2	44.55%
2 - 2.5	55.45%
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: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.55	1.56	0	0	0	4.11
NNE	0.42	1.98	0	0	0	2.4
NE	0	1.98	0	0	0	1.98
ENE	1.27	3.54	0	0	0	4.81
E	1.84	5.24	0	0	0	7.08
ESE	1.42	3.12	0	0	0	4.54
SE	1.84	3.97	0	0	0	5.81
SSE	0.85	5.81	0	0	0	6.66
S	2.27	8.5	0	0	0	10.77
SSW	9.21	7.79	0	0	0	17
SW	9.07	2.97	0	0	0	12.04
WSW	7.22	1.56	0	0	0	8.78
W	1.84	1.27	0	0	0	3.11
WNW	1.42	1.98	0	0	0	3.4
NW	1.98	2.41	0	0	0	4.39
NNW	1.42	1.7	0	0	0	3.12
Summary	44.62	55.38	0	0	0	100



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% Icon Classes (ppm)

45 0-2

55 2-5

0 5-10

0 10-40

0 >40.0



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

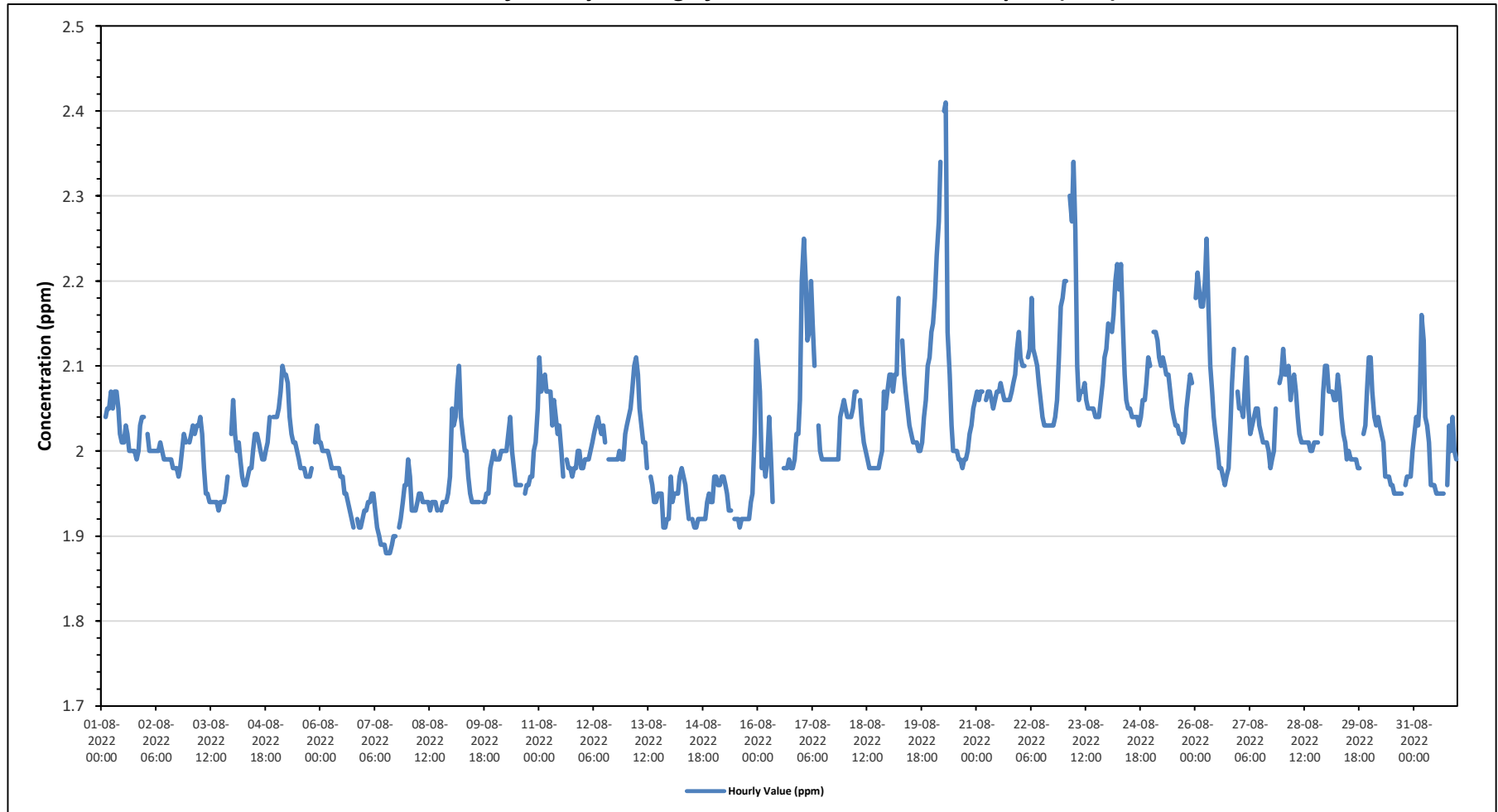
Summary of Hourly Averages

METHANE (CH4) in ppm

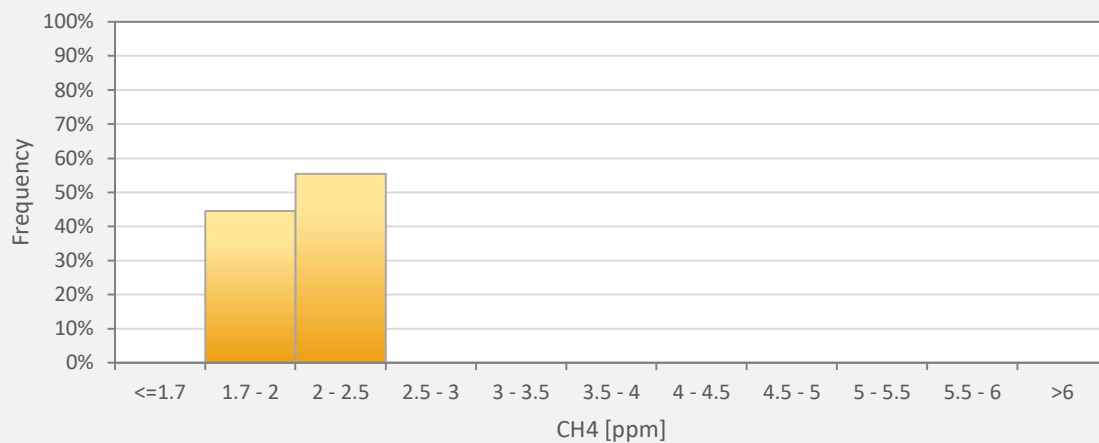
Maximum Hourly Value:	2.41 ppm on August 20 at hour 7	Hours in Service:	744
Maximum Daily Value:	2.12 ppm on August 23	Hours of Data:	707
Minimum Hourly Value:	1.88 ppm on August 7 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.92 ppm on August 7	Hours of Calibration:	37
Monthly Average:	2.02 ppm	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	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	
Aug 1	2.02	S	2.04	2.05	2.05	2.07	2.05	2.07	2.07	2.05	2.02	2.01	2.01	2.03	2.02	2.00	2.00	2.00	2.00	1.99	2.00	2.03	2.04	2.04	1.99	2.07	2.03	
Aug 2	S	2.02	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.98	2.00	2.02	2.01	S	1.97	2.02	2.00		
Aug 3	2.01	2.02	2.03	2.02	2.03	2.03	2.04	2.02	1.98	1.95	1.95	1.94	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.95	1.97	S	2.02	1.93	2.04	1.98		
Aug 4	2.06	2.02	2.00	2.01	1.99	1.97	1.96	1.96	1.97	1.98	1.98	2.00	2.02	2.02	2.01	2.00	1.99	1.99	2.00	2.01	2.04	S	2.04	1.96	2.06	2.00		
Aug 5	2.04	2.05	2.07	2.10	2.09	2.09	2.08	2.04	2.02	2.01	2.00	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.98	S	2.01	2.03	2.01	1.97	2.10	2.02		
Aug 6	2.01	2.00	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.95	1.95	1.94	1.93	1.92	1.91	S	1.92	1.91	1.91	1.92	1.91	2.01	1.96	
Aug 7	1.93	1.93	1.94	1.94	1.95	1.95	1.93	1.91	1.90	1.89	1.89	1.89	1.88	1.88	1.88	1.89	1.90	1.90	S	1.91	1.92	1.94	1.96	1.96	1.88	1.96	1.92	
Aug 8	1.99	1.97	1.93	1.93	1.93	1.94	1.95	1.95	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.93	S	1.93	1.94	1.94	1.94	1.94	1.95	1.97	1.93	1.99	1.94	
Aug 9	2.05	2.03	2.04	2.08	2.10	2.04	2.02	2.00	2.00	1.97	1.95	1.94	1.94	1.94	1.94	1.94	S	1.94	1.95	1.95	1.98	1.99	2.00	1.94	2.10	1.99	1.99	
Aug 10	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.04	2.00	1.98	1.96	1.96	1.96	1.96	S	1.95	1.96	1.96	1.97	1.97	2.00	2.01	2.05	1.95	2.05	1.99	
Aug 11	2.11	2.07	2.08	2.09	2.07	2.07	2.07	2.03	2.06	2.04	2.02	2.03	2.00	1.97	S	1.99	1.98	1.98	1.97	1.98	1.98	2.00	2.00	1.98	1.97	2.11	2.02	
Aug 12	1.98	1.99	1.99	1.99	2.00	2.01	2.02	2.03	2.04	2.03	2.02	2.03	2.01	S	1.99	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	2.02	1.98	2.04	2.00	
Aug 13	2.03	2.04	2.05	2.07	2.10	2.11	2.09	2.05	2.03	2.01	2.01	1.98	S	1.97	1.96	1.94	1.94	1.95	1.95	1.95	1.91	1.91	1.92	1.92	1.91	2.11	2.00	
Aug 14	1.97	1.94	1.95	1.95	1.95	1.97	1.98	1.97	1.96	1.94	1.92	S	1.92	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.94	1.95	1.94	1.94	1.91	1.98	1.94	
Aug 15	1.97	1.97	1.96	1.96	1.97	1.97	1.96	1.95	1.93	1.93	S	1.92	1.92	1.92	1.91	1.92	1.92	1.92	1.92	1.92	1.94	1.95	2.02	2.13	1.91	2.13	1.95	
Aug 16	2.10	2.07	1.98	1.99	1.97	1.99	2.04	1.99	1.94	S	C	C	C	C	1.98	1.98	1.98	1.99	1.98	1.98	1.99	2.02	2.02	2.06	1.94	2.10	2.00	
Aug 17	2.20	2.25	2.20	2.13	2.14	2.20	2.15	2.10	S	2.03	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.04	2.05	2.06	1.99	2.25	2.06		
Aug 18	2.05	2.04	2.04	2.04	2.05	2.07	2.07	S	2.06	2.03	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.07	2.05	2.07	1.98	2.07	2.02	
Aug 19	2.09	2.09	2.07	2.09	2.09	2.18	S	2.13	2.09	2.07	2.05	2.03	2.02	2.01	2.01	2.00	2.00	2.01	2.00	2.01	2.06	2.10	2.11	2.14	2.00	2.18	2.06	
Aug 20	2.15	2.18	2.23	2.27	2.34	S	2.40	2.41	2.14	2.09	2.03	2.00	2.00	2.00	1.99	1.99	1.98	1.99	1.99	2.00	2.02	2.03	2.05	2.06	1.98	2.41	2.10	
Aug 21	2.07	2.06	2.07	2.07	S	2.06	2.07	2.07	2.06	2.05	2.06	2.07	2.07	2.08	2.07	2.06	2.06	2.06	2.06	2.07	2.08	2.09	2.12	2.14	2.05	2.14	2.07	
Aug 22	2.11	2.10	2.10	S	2.11	2.12	2.18	2.12	2.11	2.10	2.08	2.06	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.06	2.11	2.17	2.18	2.03	2.18	2.09	
Aug 23	2.20	2.20	S	2.30	2.27	2.34	2.26	2.10	2.06	2.07	2.07	2.08	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.06	2.08	2.11	2.12	2.04	2.34	2.12	
Aug 24	2.15	S	2.14	2.16	2.20	2.22	2.19	2.22	2.15	2.09	2.06	2.05	2.05	2.04	2.04	2.04	2.03	2.04	2.06	2.06	2.08	2.11	2.10	2.03	2.22	2.10	2.10	
Aug 25	S	2.14	2.14	2.13	2.11	2.10	2.11	2.10	2.09	2.09	2.07	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.02	2.05	2.07	2.09	2.08	S	2.01	2.14	2.07	
Aug 26	2.18	2.21	2.19	2.17	2.17	2.20	2.25	2.17	2.10	2.07	2.04	2.02	2.00	1.98	1.98	1.97	1.96	1.97	1.98	2.03	2.08	2.12	S	2.07	1.96	2.25	2.08	
Aug 27	2.05	2.05	2.04	2.08	2.11	2.05	2.02	2.03	2.04	2.05	2.05	2.03	2.02	2.01	2.01	2.01	2.00	1.98	1.99	2.00	2.05	S	2.08	2.09	1.98	2.11	2.04	
Aug 28	2.12	2.09	2.09	2.10	2.06	2.08	2.09	2.07	2.04	2.02	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.01	S	2.02	2.07	2.10	2.00	2.12	2.04
Aug 29	2.10	2.07	2.07	2.07	2.06	2.06	2.09	2.07	2.04	2.02	2.01	1.99	2.00	1.99	1.99	1.99	1.98	1.98	1.98	S	2.02	2.03	2.07	2.11	1.98	2.11	2.03	
Aug 30	2.11	2.07	2.04	2.03	2.04	2.03	2.02	2.01	1.97	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	S	1.96	1.97	1.97	1.97	2.00	1.95	2.11	1.99	
Aug 31	2.02	2.04	2.03	2.06	2.16	2.13	2.04	2.03	2.01	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	S	1.96	2.03	2.00	2.04	2.00	1.99	1.95	2.16	2.01	
Diurnal Maximum	2.20	2.25	2.23	2.30	2.34	2.34	2.40	2.41	2.15	2.10	2.08	2.08	2.07	2.08	2.07	2.06	2.06	2.06	2.06	2.07	2.08	2.12	2.17	2.18				
Diurnal Average	2.06	2.06	2.05	2.06	2.07	2.07	2.07	2.05	2.03	2.01	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	2.03	2.04				
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



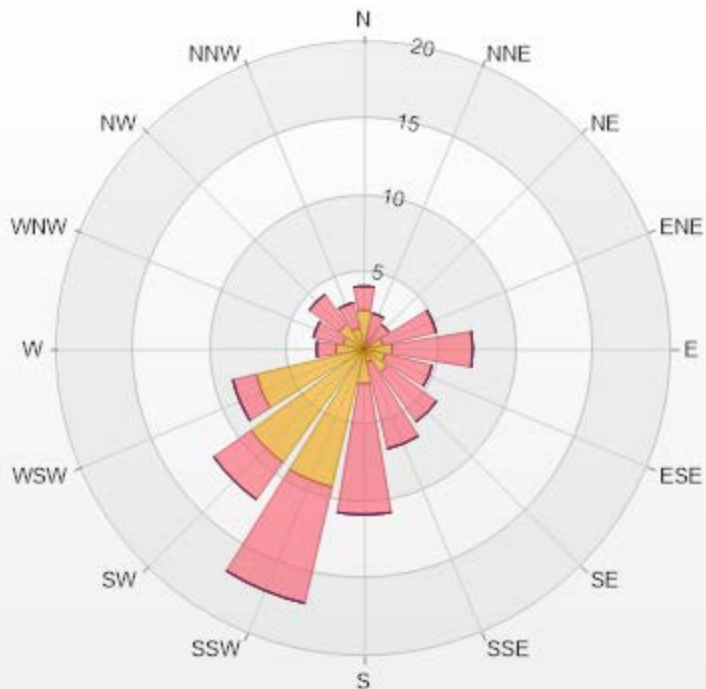
CH4[ppm] Histogram: Peace River Complex [PRC] Monthly: 08-2022 1 Hr.



Classes	CH4
<=1.7	0.00%
1.7 - 2	44.55%
2 - 2.5	55.45%
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: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.55	1.56	0	0	0	4.11
NNE	0.42	1.98	0	0	0	2.4
NE	0	1.98	0	0	0	1.98
ENE	1.27	3.54	0	0	0	4.81
E	1.84	5.24	0	0	0	7.08
ESE	1.42	3.12	0	0	0	4.54
SE	1.84	3.97	0	0	0	5.81
SSE	0.85	5.81	0	0	0	6.66
S	2.27	8.5	0	0	0	10.77
SSW	9.21	7.79	0	0	0	17
SW	9.07	2.97	0	0	0	12.04
WSW	7.22	1.56	0	0	0	8.78
W	1.84	1.27	0	0	0	3.11
WNW	1.42	1.98	0	0	0	3.4
NW	1.98	2.41	0	0	0	4.39
NNW	1.42	1.7	0	0	0	3.12
Summary	44.62	55.38	0	0	0	100



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% Icon Classes (ppm)

45 0-2

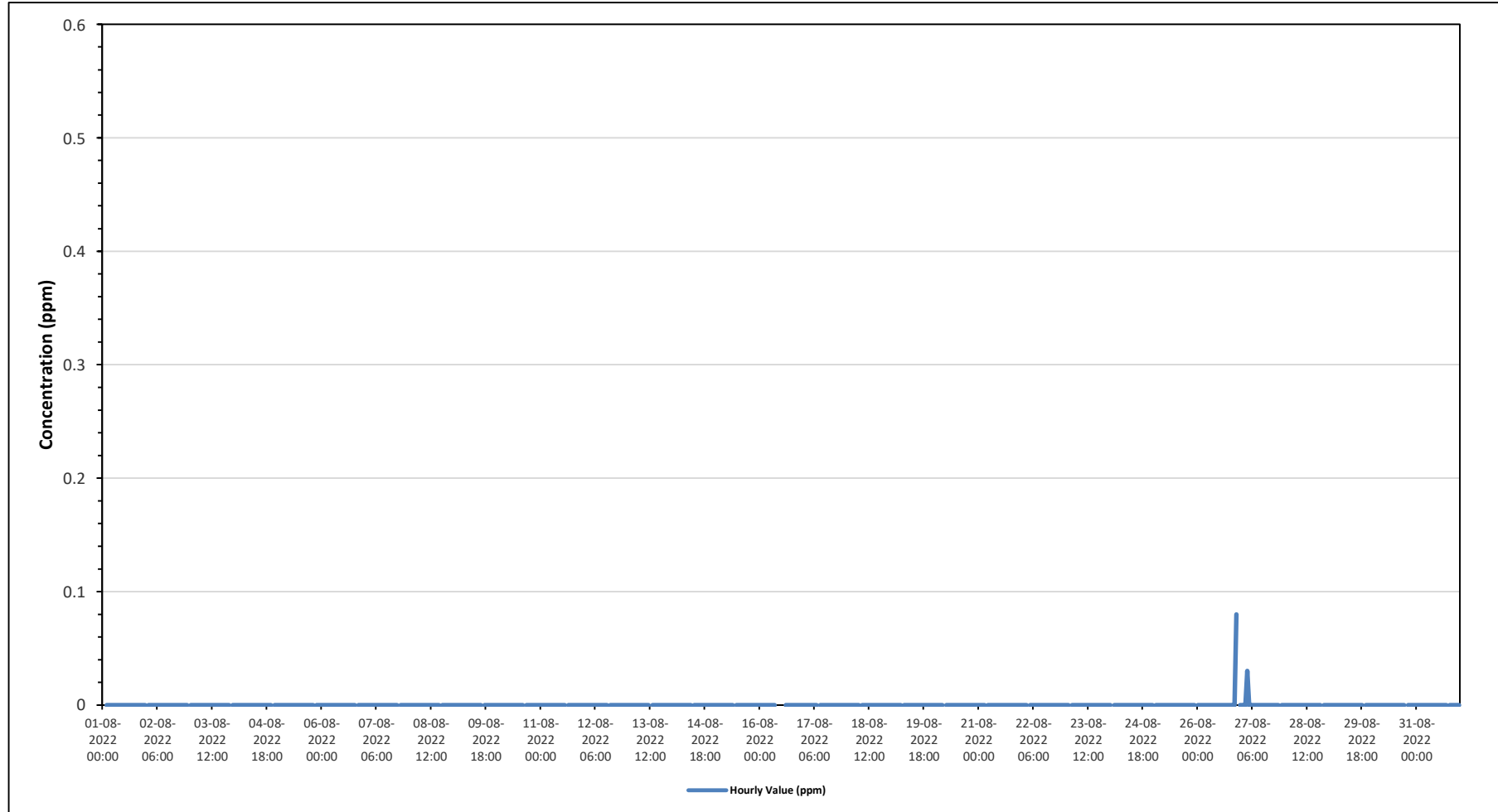
55 2-5

0 5-10

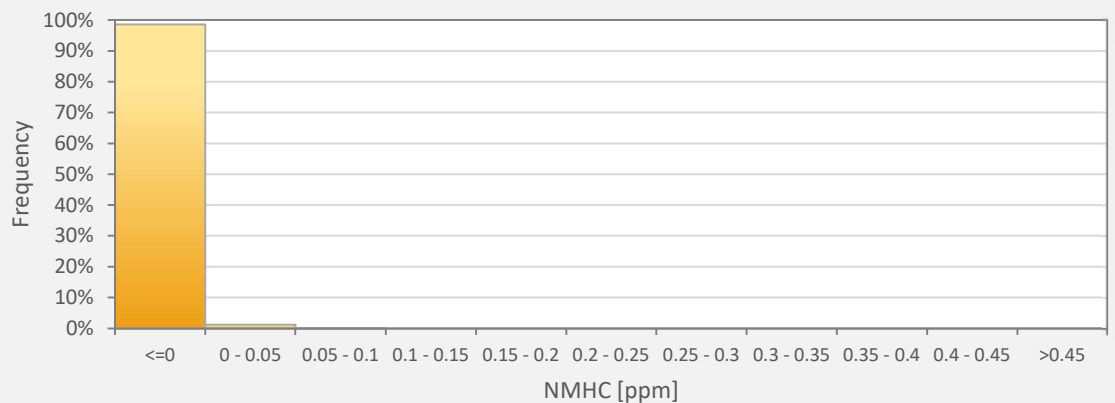
0 10-20

0 >20.0

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



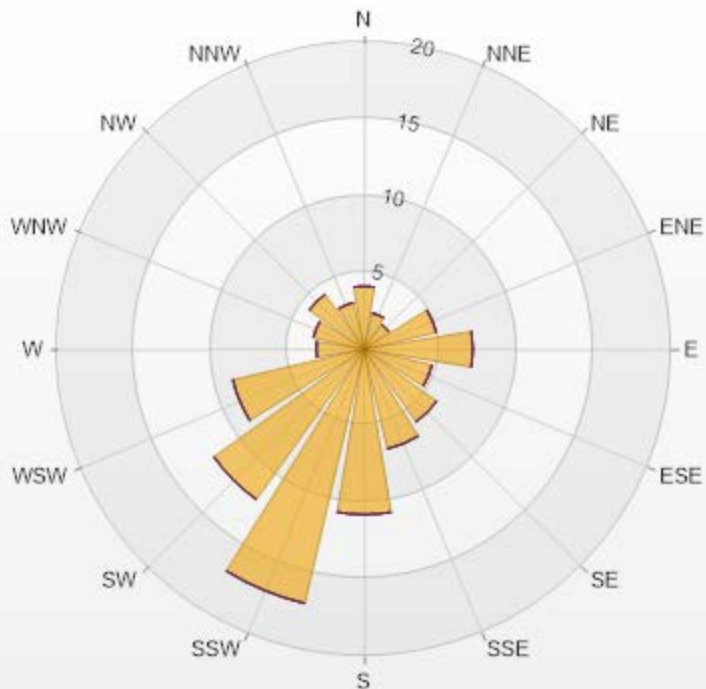
NMHC[ppm] Histogram: Peace River Complex [PRC] Monthly: 08-2022 1 Hr.



Classes	NMHC
<=0	98.59%
0 - 0.05	1.27%
0.05 - 0.1	0.14%
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: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	4.11	0	0	0	0	4.11
NNE	2.41	0	0	0	0	2.41
NE	1.98	0	0	0	0	1.98
ENE	4.82	0	0	0	0	4.82
E	7.08	0	0	0	0	7.08
ESE	4.53	0	0	0	0	4.53
SE	5.81	0	0	0	0	5.81
SSE	6.66	0	0	0	0	6.66
S	10.76	0	0	0	0	10.76
SSW	17	0	0	0	0	17
SW	12.04	0	0	0	0	12.04
WSW	8.78	0	0	0	0	8.78
W	3.12	0	0	0	0	3.12
WNW	3.4	0	0	0	0	3.4
NW	4.39	0	0	0	0	4.39
NNW	3.12	0	0	0	0	3.12
Summary	100	0	0	0	0	100



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% 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 - August 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

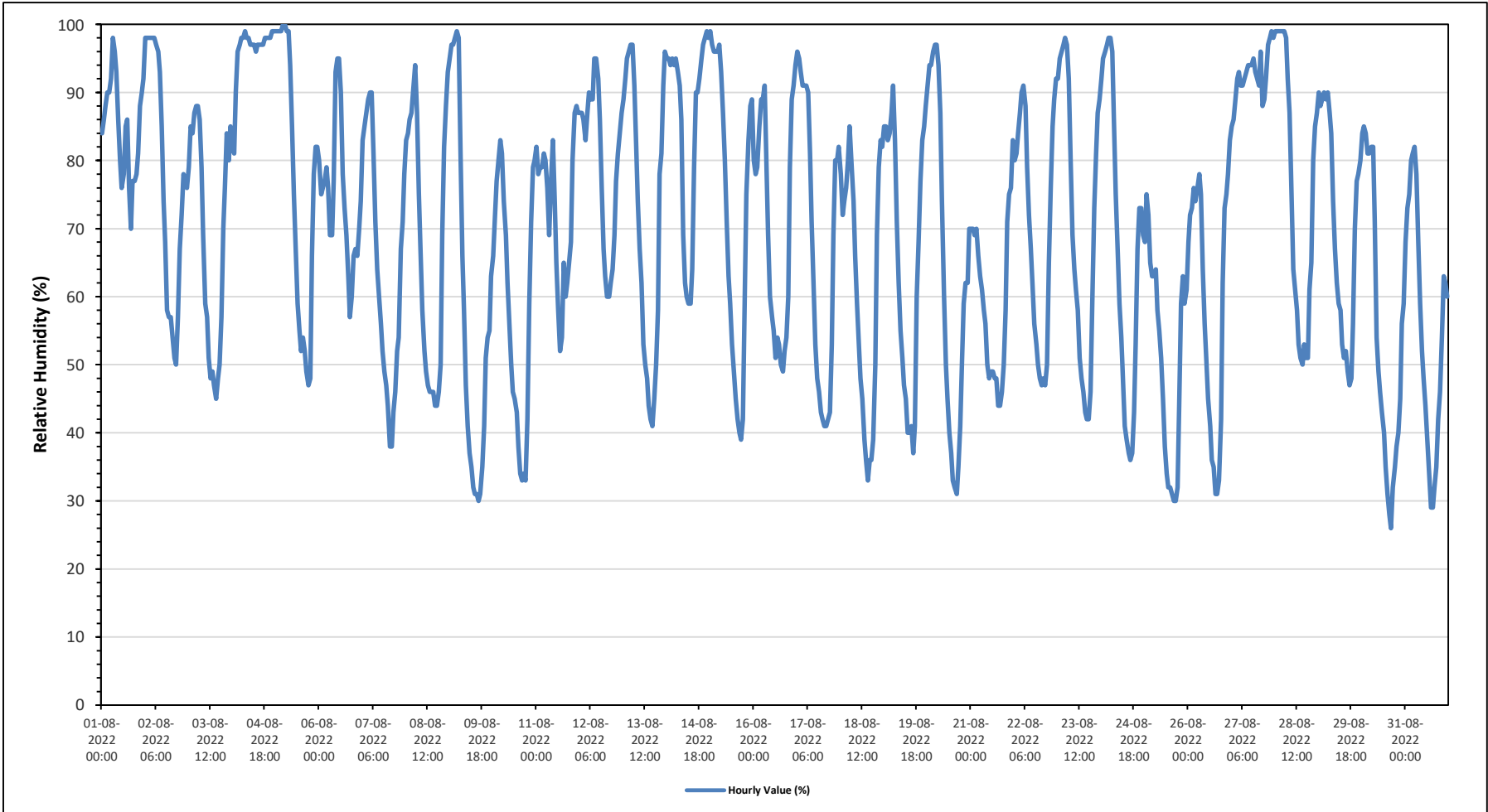
Maximum Hourly Value:	100 %	on August 5 at hour 4	Hours in Service:	744
Maximum Daily Value:	95.9 %	on August 4	Hours of Data:	744
Minimum Hourly Value:	26 %	on August 30 at hour 16	Hours of Missing Data:	0
Minimum Daily Value:	51.0 %	on August 25	Hours of Calibration:	0
Monthly Average:	69.9 %		Operational 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	
Aug 1	84	86	88	90	90	92	98	96	93	86	80	76	78	85	86	76	70	77	77	78	81	88	90	92	70	98	84.9	
Aug 2	98	98	98	98	98	98	98	97	96	93	85	74	68	58	57	57	54	51	50	57	67	72	78	77	76	50	98	77.3
Aug 3	79	85	84	87	88	88	86	79	69	59	57	51	48	49	47	45	48	50	57	70	76	84	80	85	45	88	68.8	
Aug 4	82	81	90	96	97	98	98	99	98	98	97	97	97	96	97	97	97	97	98	98	98	98	99	99	81	99	95.9	
Aug 5	99	99	99	99	100	100	99	99	94	85	75	68	59	55	52	54	52	49	47	48	66	78	82	82	47	100	76.7	
Aug 6	80	75	76	77	79	76	69	69	77	93	95	95	90	78	73	69	63	57	60	66	67	66	70	74	57	95	74.8	
Aug 7	83	85	87	89	90	90	81	71	64	60	56	52	49	47	44	38	38	43	46	52	54	67	71	78	38	90	64.0	
Aug 8	83	84	86	87	91	94	87	75	67	58	52	49	47	46	46	44	44	46	50	69	82	88	93	44	94	67.3		
Aug 9	95	97	97	98	99	98	81	66	58	47	41	37	35	32	31	31	30	31	35	41	51	54	55	63	30	99	58.5	
Aug 10	66	72	77	80	83	81	74	69	62	56	50	46	45	43	38	34	33	34	33	42	59	71	79	80	33	83	58.6	
Aug 11	82	78	79	79	81	80	76	69	77	83	74	65	58	52	54	65	60	62	65	68	80	87	88	87	52	88	72.9	
Aug 12	87	87	86	83	87	90	89	89	95	95	92	86	76	67	63	60	60	62	64	69	77	81	84	87	60	95	79.8	
Aug 13	89	92	95	96	97	97	91	82	74	67	62	53	50	48	44	42	41	45	50	58	78	81	91	96	41	97	71.6	
Aug 14	95	95	94	95	94	95	93	91	86	69	62	60	59	59	64	79	90	90	92	95	97	98	99	98	59	99	85.4	
Aug 15	99	97	96	96	96	97	93	87	80	71	63	59	53	49	45	42	40	39	42	60	75	83	88	89	39	99	72.5	
Aug 16	80	78	79	85	89	89	91	79	69	60	57	55	51	54	53	50	49	52	54	60	79	89	91	94	49	94	70.3	
Aug 17	96	95	93	91	91	90	81	71	62	53	48	46	43	42	41	41	42	43	53	69	80	80	82	41	96	67.7		
Aug 18	78	72	74	76	80	85	79	74	66	59	53	48	45	39	36	33	36	39	50	69	79	83	82	33	85	61.3		
Aug 19	85	85	83	84	87	91	83	71	62	55	51	47	45	40	40	41	37	41	60	68	77	83	85	88	37	91	66.2	
Aug 20	91	94	94	96	97	97	94	87	74	60	50	45	40	37	33	32	31	35	41	51	59	62	62	70	31	97	63.8	
Aug 21	70	70	69	70	66	63	61	58	56	50	48	49	49	48	48	44	44	46	50	58	71	75	76	83	44	83	59.3	
Aug 22	80	81	84	87	90	91	88	79	72	67	62	56	53	50	48	47	48	47	50	65	76	85	89	92	47	92	70.3	
Aug 23	92	95	96	97	98	97	92	80	69	64	61	58	51	48	46	43	42	42	46	58	73	81	87	89	42	98	71.0	
Aug 24	92	95	96	97	98	98	96	86	75	66	59	54	47	41	39	37	36	37	43	53	67	73	73	69	36	98	67.8	
Aug 25	68	75	72	65	63	63	64	58	55	51	45	38	34	32	32	31	30	30	32	44	59	63	59	61	30	75	51.0	
Aug 26	68	72	73	76	74	76	78	75	64	56	51	45	41	36	35	31	31	33	42	62	73	75	78	83	31	83	59.5	
Aug 27	85	86	89	92	93	91	91	92	93	94	94	94	95	93	92	91	96	88	89	92	97	98	99	98	85	99	92.6	
Aug 28	99	99	99	99	99	98	92	87	74	64	61	58	53	51	50	53	51	51	61	65	80	85	87	50	99	99	75.6	
Aug 29	90	88	89	90	89	90	87	84	74	67	62	59	58	53	51	52	49	47	48	56	70	77	78	80	47	90	70.3	
Aug 30	84	85	84	81	81	82	82	71	54	49	46	43	40	35	31	28	26	32	35	38	40	45	56	59	26	85	54.5	
Aug 31	68	73	75	80	81	82	78	68	59	52	48	44	39	34	29	29	32	35	42	46	54	63	62	60	29	82	55.5	
Diurnal Maximum	99	99	99	99	100	100	99	99	98	98	97	97	97	96	97	97	97	97	97	98	98	98	99	99				
Diurnal Average	84.7	85.6	86.5	87.6	88.6	89.0	85.9	79.7	73.8	67.7	62.4	58.3	54.6	51.6	49.9	48.8	48.3	49.2	52.7	60.5	70.9	77.5	80.1	82.5				

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 RH - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

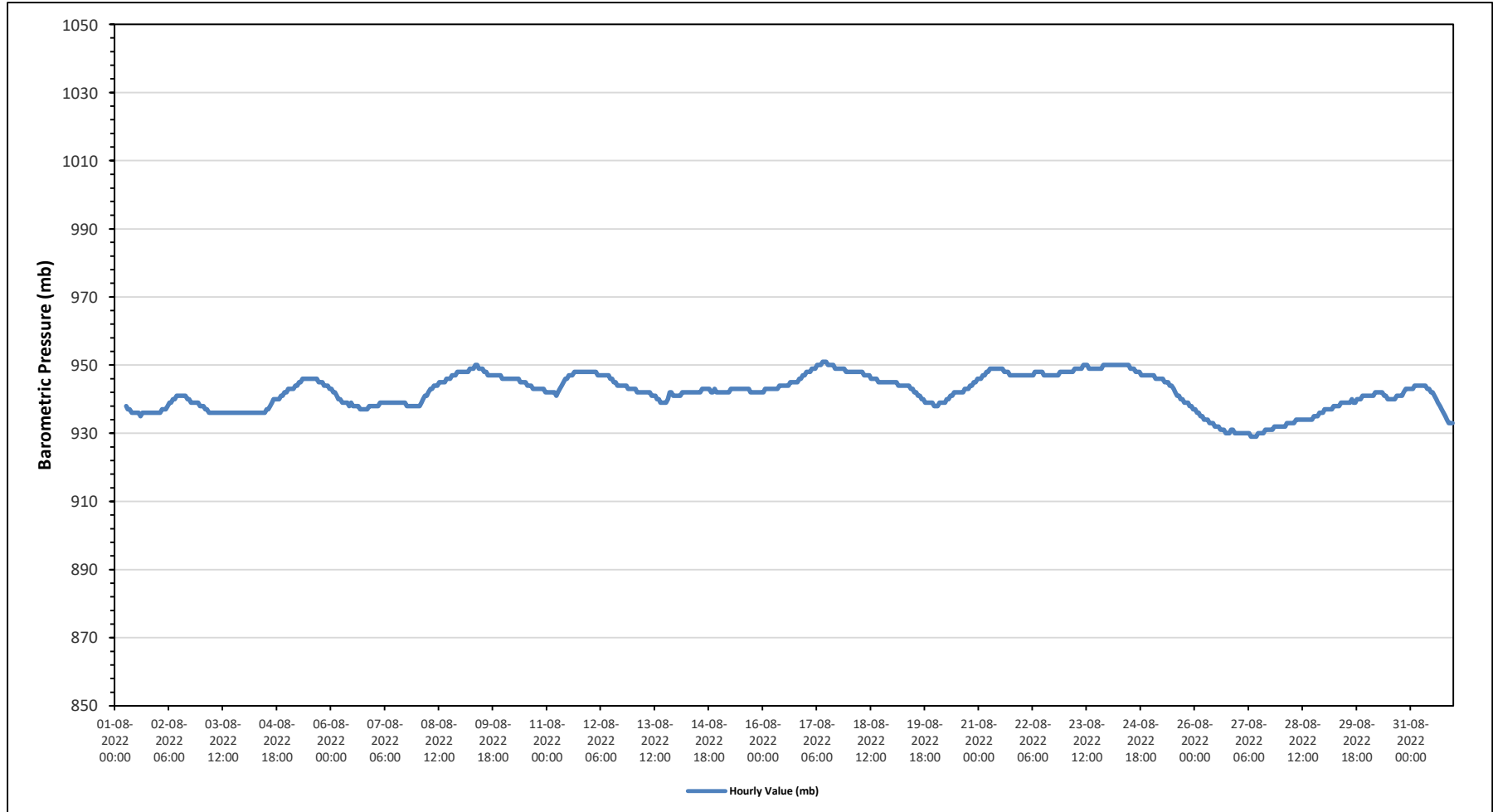
Maximum Hourly Value:	951 mb on August 17 at hour 9	Hours in Service:	744
Maximum Daily Value:	949 mb on August 17	Hours of Data:	738
Minimum Hourly Value:	929 mb on August 27 at hour 7	Hours of Missing Data:	6
Minimum Daily Value:	930 mb on August 27	Hours of Calibration:	0
Monthly Average:	942 mb	Operational Uptime:	99.2

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	
Aug 1	X	X	X	X	X	X	938	937	937	936	936	936	936	935	936	936	936	936	936	936	936	936	936	935	938	936.2		
Aug 2	936	936	937	937	937	938	939	939	940	940	941	941	941	941	941	941	940	940	939	939	939	939	939	939	938	936	941	939.1
Aug 3	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	936	938	936.3
Aug 4	936	936	936	936	936	936	936	936	936	936	936	936	937	937	938	939	940	940	940	941	941	941	942	942	942	936	942	937.9
Aug 5	943	943	943	943	944	944	945	945	946	946	946	946	946	946	946	946	945	945	945	944	944	944	943	943	943	943	946	944.8
Aug 6	943	942	942	941	940	940	939	939	939	939	938	939	938	938	938	938	937	937	937	937	938	938	938	938	938	937	943	938.8
Aug 7	938	938	938	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	938	938	938	938	938	938	938	938	939	938.6
Aug 8	938	938	939	940	941	941	942	943	943	944	944	945	945	945	945	946	946	946	947	947	947	947	948	948	948	938	948	943.8
Aug 9	948	948	948	948	948	949	949	949	950	950	949	949	949	948	948	947	947	947	947	947	947	947	947	947	946	946	950	948.0
Aug 10	946	946	946	946	946	946	946	946	946	946	945	945	945	945	944	944	944	943	943	943	943	943	943	943	942	942	946	944.5
Aug 11	942	942	942	942	942	941	942	943	944	944	945	946	946	947	947	947	948	948	948	948	948	948	948	948	948	941	948	945.4
Aug 12	948	948	948	948	947	947	947	947	947	947	947	946	946	945	945	944	944	944	944	944	944	943	943	943	943	943	948	945.7
Aug 13	943	943	942	942	942	942	942	942	942	942	941	941	941	940	940	939	939	939	939	940	942	942	941	941	939	943	941.1	
Aug 14	941	941	941	942	942	942	942	942	942	942	942	942	942	942	943	943	943	943	943	942	942	942	943	942	941	943	942.1	
Aug 15	942	942	942	942	942	942	943	943	943	943	943	943	943	943	943	943	942	942	942	942	942	942	942	942	942	942	943	942.5
Aug 16	942	943	943	943	943	943	943	943	943	944	944	944	944	944	944	945	945	945	945	945	945	946	946	947	947	942	947	944.2
Aug 17	948	948	948	949	949	949	950	950	950	951	951	951	950	950	950	950	949	949	949	949	949	949	949	948	948	948	951	949.3
Aug 18	948	948	948	948	948	948	948	948	947	947	947	946	946	946	946	945	945	945	945	945	945	945	945	945	945	945	948	946.5
Aug 19	945	945	945	944	944	944	944	944	944	944	943	943	942	942	941	941	940	940	939	939	939	939	938	938	938	938	945	942.0
Aug 20	938	938	939	939	939	939	940	940	941	941	942	942	942	942	942	942	943	943	943	944	944	945	945	946	938	946	941.6	
Aug 21	946	946	947	947	948	948	949	949	949	949	949	949	949	948	948	948	947	947	947	947	947	947	947	947	946	949	947.8	
Aug 22	947	947	947	947	947	947	947	948	948	948	948	948	947	947	947	947	947	947	947	947	947	947	948	948	947	948	947.3	
Aug 23	948	948	948	948	948	949	949	949	949	949	950	950	950	949	949	949	949	949	949	949	949	950	950	950	948	950	949.0	
Aug 24	950	950	950	950	950	950	950	950	950	950	950	950	949	949	948	948	948	947	947	947	947	947	947	947	947	947	950	948.9
Aug 25	947	947	946	946	946	946	946	945	945	945	944	944	943	942	941	941	940	940	939	939	939	938	937	937	937	947	942.7	
Aug 26	937	936	936	935	935	934	934	934	933	933	933	932	932	932	931	931	931	930	930	930	931	931	930	930	930	930	937	932.5
Aug 27	930	930	930	930	930	930	930	929	929	929	929	930	930	930	931	931	931	931	931	931	932	932	932	932	929	932	930.4	
Aug 28	932	932	932	933	933	933	933	934	934	934	934	934	934	934	934	934	934	934	935	935	935	936	936	936	932	936	933.9	
Aug 29	937	937	937	937	937	938	938	938	938	939	939	939	939	939	939	940	939	939	940	940	940	941	941	941	937	941	938.8	
Aug 30	941	941	941	941	942	942	942	942	942	941	941	940	940	940	940	940	941	941	941	941	942	943	943	943	940	943	941.3	
Aug 31	943	943	944	944	944	944	944	944	944	943	943	942	942	941	940	939	938	937	936	935	934	933	933	933	933	944	940.1	
Diurnal Maximum	950	950	950	950	950	950	950	950	950	951	951	951	950	950	950	950	949	949	949	949	949	950	950	950	950	950	950	950
Diurnal Average	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	941	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 - August 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

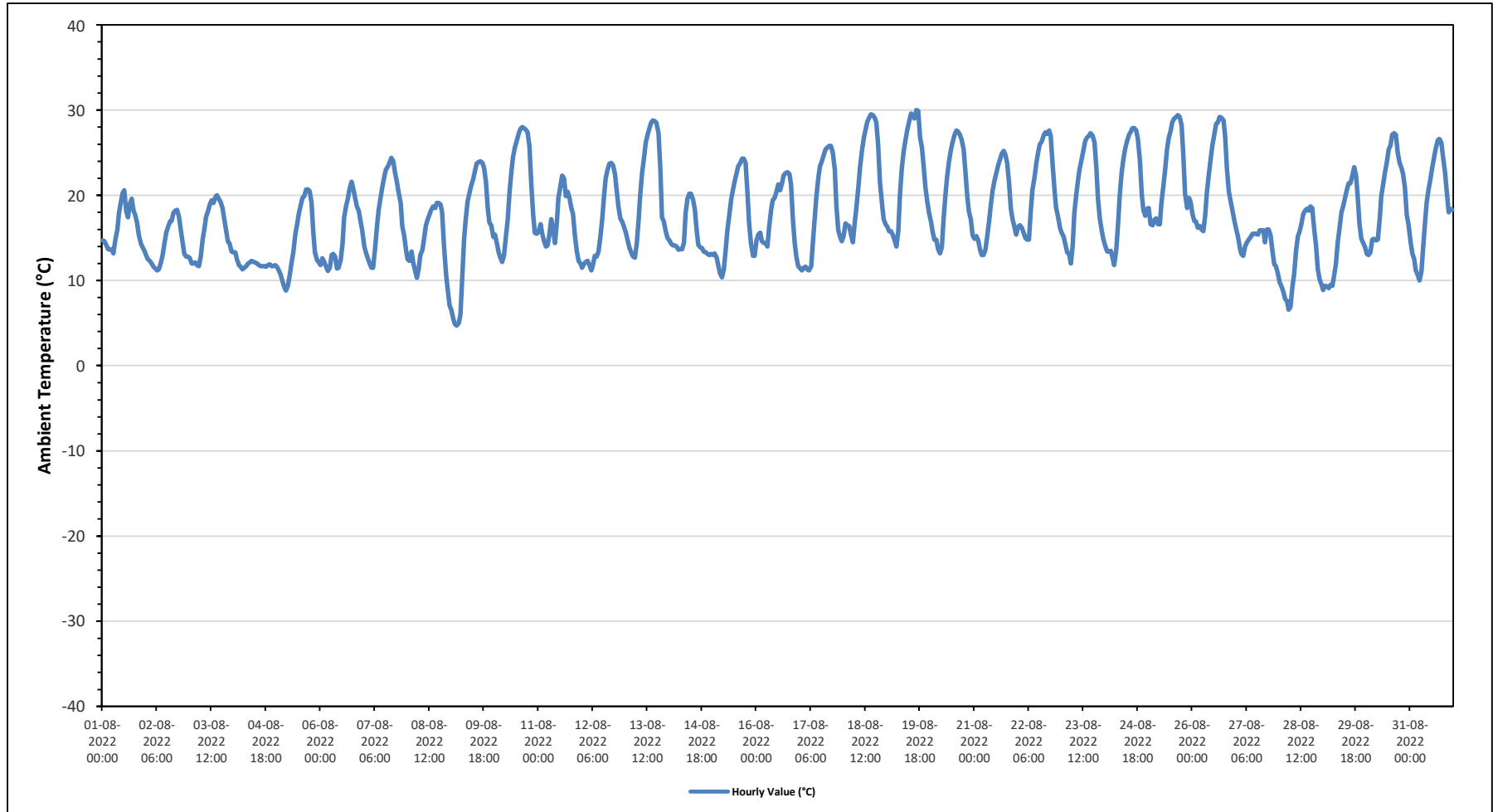
Maximum Hourly Value:	30.0 °C	on August 19 at hour 16	Hours in Service:	744
Maximum Daily Value:	22.5 °C	on August 19	Hours of Data:	744
Minimum Hourly Value:	4.7 °C	on August 9 at hour 3	Hours of Missing Data:	0
Minimum Daily Value:	12.0 °C	on August 4	Hours of Calibration:	0
Monthly Average:	17.8 °C		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
Aug 1	14.7	14.6	14.2	13.7	13.6	13.7	13.2	14.7	16	17.9	19.2	20.3	20.6	18.2	17.4	19	19.6	18.2	17.7	16.8	15.3	14.3	13.9	13.5	13.2	20.6	16.3
Aug 2	12.9	12.5	12.3	12	11.6	11.4	11.2	11.3	12	12.9	14.3	15.6	16.3	16.9	17	17.9	18.2	18.3	17.5	15.9	14.6	13.1	12.8	12.8	11.2	18.3	14.2
Aug 3	12.6	12	12	12.1	11.8	11.7	12.8	14.8	16.1	17.5	18.1	18.9	19.4	19.1	19.8	20	19.6	19.2	18.5	17.1	15.8	14.6	14.3	13.4	11.7	20.0	15.9
Aug 4	13.3	13.3	12.4	11.8	11.6	11.3	11.5	11.7	12	12.1	12.3	12.2	12.1	12	11.8	11.7	11.7	11.6	11.8	11.9	11.7	11.7	11.8	11.8	11.3	13.3	12.0
Aug 5	11.6	11.2	10.7	9.9	9.2	8.8	9.4	10.6	11.9	13.4	15.4	16.6	17.8	18.8	19.7	19.9	20.7	20.7	20.5	19.2	15.6	13.3	12.4	12.1	8.8	20.7	14.6
Aug 6	11.8	12.6	12.2	11.6	11.1	11.5	13	13.1	12.8	11.4	11.5	12.4	14.3	17.4	18.7	19.6	20.7	21.6	20.7	19.6	18.7	18.2	16.9	15.9	11.1	21.6	15.3
Aug 7	14	13.2	12.6	12	11.5	11.5	13.9	16.5	18.3	19.7	21	22	23	23.4	23.9	24.4	24	22.6	21.7	20.2	19.1	16.4	15.3	13.6	11.5	24.4	18.1
Aug 8	12.5	12.3	13.4	12.1	11.2	10.3	11.4	13	13.6	15.1	16.5	17.2	17.8	18.3	18.7	18.5	19.1	19.1	18.9	18	14.1	10.7	8.7	7.1	7.1	19.1	14.5
Aug 9	6.5	5.5	4.9	4.7	5	6	10.5	15	17.2	19.3	20.4	21.2	21.9	22.9	23.7	23.9	24	23.8	23.2	21.6	18.4	16.8	16.5	15.1	4.7	24.0	16.2
Aug 10	15.4	14.4	13.3	12.7	12.2	12.9	15.1	17.1	20.4	22.8	24.5	25.6	26.5	27.2	27.8	28	27.9	27.7	27.4	25.7	21.2	17.7	15.6	15.5	12.2	28.0	20.6
Aug 11	15.7	16.6	15.5	14.6	14	14.1	15.4	17.2	16	14.4	16.8	19.7	21	22.3	22	19.9	20.4	19.8	18.6	17.8	15.3	13.5	12.3	12	12.0	22.3	16.9
Aug 12	11.5	11.9	12.2	12.3	11.8	11.2	11.8	12.9	12.8	13.4	15.1	17.2	20	22	23	23.7	23.8	23.5	22.5	20.7	18.7	17.3	16.9	16.3	11.2	23.8	16.8
Aug 13	15.6	14.8	13.9	13.3	12.8	12.7	14.3	17.1	20	22.6	24.3	26.2	27.1	27.9	28.5	28.8	28.7	28.5	27.3	23	17.4	16.9	15.8	15	12.7	28.8	20.5
Aug 14	14.7	14.3	14.1	14.1	14	13.6	13.7	13.7	14.5	17.9	19.6	20.2	20.2	19.5	18.3	15.8	14.2	13.9	13.8	13.4	13.3	13.1	13	13.1	13.0	20.2	15.3
Aug 15	13	13.2	12.7	11.6	10.8	10.4	11.3	13.6	15.8	17.8	19.6	20.6	21.7	22.6	23.4	23.8	24.3	24.3	23.8	20.3	16.8	14.4	12.9	12.9	10.4	24.3	17.2
Aug 16	14.7	15.4	15.6	14.6	14.4	14.4	14	16.4	18.3	19.4	19.7	20.5	21.3	20.6	21.4	22.3	22.6	22.7	22.5	21.3	17.2	14.4	12.8	11.7	11.7	22.7	17.8
Aug 17	11.4	11.2	11.5	11.6	11.3	11.2	11.7	14.3	17.2	20	22.1	23.4	24	24.8	25.4	25.6	25.8	25.8	25.1	23	18.7	15.9	15.1	14.6	11.2	25.8	18.4
Aug 18	15.2	16.7	16.5	16.4	15.4	14.5	16.5	18.5	21.1	23.3	25.2	26.7	27.6	28.6	29.1	29.5	29.4	29.1	28.6	26	21.5	18.9	17.2	16.6	14.5	29.5	22.0
Aug 19	16.3	15.8	15.8	15.4	14.7	14	15.8	19.9	23.1	25.1	26.5	27.7	28.7	29.6	29.4	29	30	29.9	26.8	25.6	23.6	21	19.3	17.9	14.0	30.0	22.5
Aug 20	16.9	15.6	14.8	14.8	13.7	13.2	13.9	17.4	20.2	22.2	24	25.3	26.3	27.1	27.6	27.5	27.1	26.5	25.4	22.7	19.8	18.1	17.2	15.3	13.2	27.6	20.5
Aug 21	14.9	15.2	14.7	13.6	13	13	13.6	15.2	17	19	20.5	21.7	22.6	23.5	24.2	24.9	25.2	24.8	23.8	21.5	18.4	17.1	16.2	15.4	13.0	25.2	18.7
Aug 22	16.3	16.5	16.2	15.6	15	14.8	14.8	18.2	20.6	22.1	23.8	25.1	26	26.3	27	27.4	27.2	27.6	27	23.7	20.8	18.6	17.4	16.2	14.8	27.6	21.0
Aug 23	15.6	15.2	14.3	13.3	13.2	12	14.2	17.9	20	21.8	23.1	24.3	25.4	26.4	26.8	27	27.3	27	26.2	23.2	19.6	17.3	15.9	14.9	12.0	27.3	20.1
Aug 24	14	13.4	13.4	13.5	12.7	11.8	13.6	16.8	20	22.6	24.3	25.4	26.3	27.1	27.5	27.9	27.9	27.6	26.7	24.1	20.1	18.3	17.6	18.4	11.8	27.9	20.5
Aug 25	18.5	16.6	16.5	17.1	17.3	16.6	16.6	19.1	21.3	23.3	25.4	26.8	27.6	28.6	29	29.2	29.4	29.2	28.2	25	20.2	18.5	19.7	19.2	16.5	29.4	22.5
Aug 26	17.8	17	16.9	16.2	16.4	16	15.8	17.7	20.3	22.3	24.4	25.9	27.1	28.4	28.5	29.2	29.1	28.8	26.9	23	20.4	19.4	18.3	17	15.8	29.2	21.8
Aug 27	16.1	15.2	13.9	13.1	12.9	14	14.5	14.8	15.1	15.5	15.5	15.5	15.4	15.9	15.9	14.5	16	16	15.3	13.5	11.9	11.7	10.9	10.9	16.1	14.5	14.5
Aug 28	9.8	9.3	8.7	7.8	7.6	6.6	6.9	9.2	10.8	13.5	15.2	15.7	16.6	17.8	18.2	18.4	18.2	18.7	18.5	16.1	14.2	11.3	10.1	9.5	6.6	18.7	12.9
Aug 29	8.9	9.4	9.3	9.1	9.5	9.4	10.5	11.9	14.5	16.2	18	18.8	19.8	20.6	21.4	21.4	22.3	23.3	22.3	19.9	16.6	14.9	14.4	13.9	8.9	23.3	15.7
Aug 30	13.1	13	13.3	14.8	14.9	14.7	14.8	17.2	19.9	21.3	22.7	23.9	25.4	25.9	27.1	27.3	27.1	25	23.8	23.2	22.5	20.9	17.7	16.5	13.0	27.3	20.3
Aug 31	14.6	13.2	12.5	11.2	10.7	10	11	14	16.9	19.2	20.7	21.9	23.1	24.5	25.6	26.5	26.6	26.2	24.4	22.7	20.3	18	18.4	18.3	10.0	26.6	18.8
Diurnal Maximum	18.5	17.0	16.9	17.1	17.3	16.6	16.6	19.9	23.1	25.1	26.5	27.7	28.7	29.6	29.4	29.5	30.0	29.9	28.6	26.0	23.6	21.0	19.7	19.2			
Diurnal Average	13.9	13.6	13.2	12.8	12.4	12.2	13.1	15.2	17.0	18.5	20.0	21.1	22.0	22.7	23.2	23.4	23.4	23.3	22.4	20.6	17.9	16.0	15.1	14.4			

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 - August 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

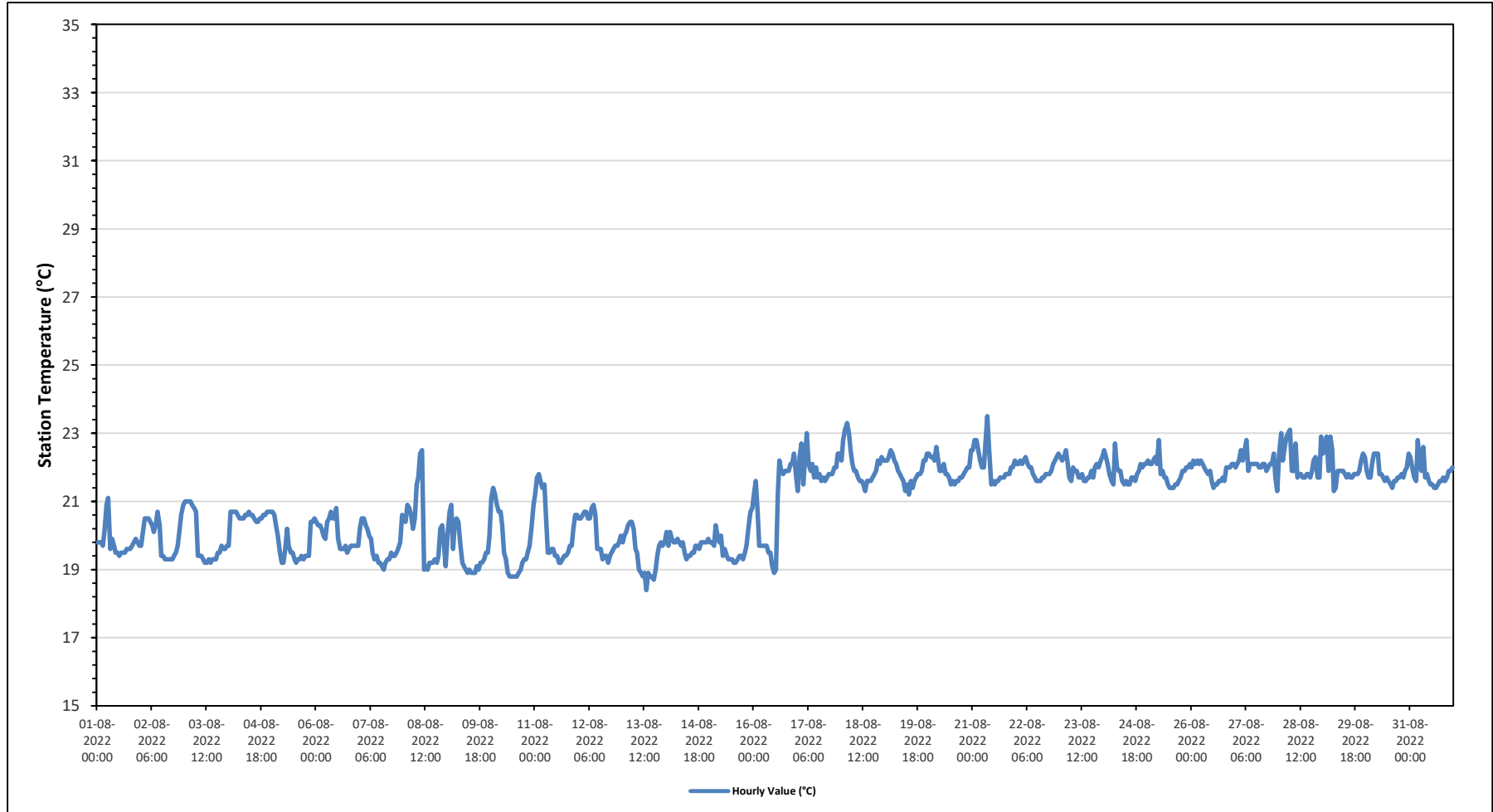
Maximum Hourly Value:	23.5 °C	on August 21 at hour 8	Hours in Service:	744
Maximum Daily Value:	22.2 °C	on August 28	Hours of Data:	744
Minimum Hourly Value:	18.4 °C	on August 13 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	19.5 °C	on August 13	Hours of Calibration:	0
Monthly Average:	20.9 °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	
Aug 1	19.8	19.8	19.8	19.7	20.2	20.9	21.1	19.6	19.9	19.7	19.5	19.5	19.4	19.5	19.5	19.5	19.6	19.6	19.6	19.7	19.8	19.9	19.8	19.7	19.4	21.1	19.8	
Aug 2	19.7	20.1	20.5	20.5	20.5	20.4	20.3	20.1	20.3	20.7	20.3	19.4	19.4	19.3	19.3	19.3	19.3	19.3	19.4	19.5	19.7	20.1	20.6	20.9	19.3	20.9	20.0	
Aug 3	21.0	21.0	21.0	21.0	20.9	20.8	20.7	19.4	19.4	19.4	19.3	19.2	19.2	19.3	19.2	19.3	19.3	19.3	19.5	19.5	19.7	19.6	19.6	19.7	19.2	21.0	19.8	
Aug 4	19.7	20.7	20.7	20.7	20.7	20.6	20.5	20.5	20.5	20.6	20.6	20.7	20.6	20.6	20.5	20.4	20.4	20.5	20.5	20.6	20.6	20.7	20.7	20.7	19.7	20.7	20.6	
Aug 5	20.7	20.6	20.3	20.0	19.5	19.2	19.2	19.6	20.2	19.7	19.5	19.5	19.3	19.2	19.3	19.3	19.4	19.3	19.4	19.4	19.4	20.4	20.4	20.5	19.2	20.7	19.7	
Aug 6	20.4	20.3	20.3	20.2	20.0	19.9	20.4	20.5	20.7	20.5	20.5	20.8	19.9	19.6	19.6	19.6	19.7	19.5	19.6	19.7	19.7	19.7	19.7	19.7	19.5	20.8	20.0	
Aug 7	20.2	20.5	20.5	20.3	20.2	20.0	19.9	19.5	19.3	19.4	19.2	19.2	19.1	19.0	19.2	19.3	19.3	19.5	19.4	19.4	19.5	19.6	19.8	20.6	19.0	20.6	19.7	
Aug 8	20.5	20.4	20.9	20.8	20.6	20.2	20.5	21.5	21.7	22.4	22.5	19.0	19.1	19.0	19.2	19.2	19.2	19.3	19.2	19.4	20.2	20.3	19.8	19.1	19.0	22.5	20.2	
Aug 9	20.1	20.7	20.9	19.6	20.4	20.5	20.4	19.7	19.2	19.1	19.0	18.9	19.0	18.9	18.9	18.9	19.1	19.0	19.2	19.2	19.3	19.5	19.5	20.0	18.9	20.9	19.5	
Aug 10	21.1	21.4	21.2	20.9	20.7	20.7	20.3	19.5	19.3	18.9	18.8	18.8	18.8	18.8	18.8	18.9	19.0	19.2	19.3	19.3	19.5	19.7	20.2	20.9	18.8	21.4	19.8	
Aug 11	21.2	21.7	21.8	21.6	21.4	21.5	20.4	19.5	19.6	19.6	19.6	19.4	19.4	19.2	19.2	19.3	19.4	19.4	19.5	19.7	19.7	20.2	20.6	20.6	19.2	21.8	20.1	
Aug 12	20.5	20.5	20.6	20.7	20.7	20.5	20.5	20.8	20.9	20.6	19.6	19.6	19.6	19.6	19.3	19.4	19.4	19.2	19.4	19.5	19.6	19.7	19.7	19.8	20.0	19.2	20.9	20.0
Aug 13	19.8	20.0	20.1	20.3	20.4	20.4	20.2	19.6	19.5	19.0	18.9	18.8	18.9	18.4	18.9	18.8	18.8	18.7	19.0	19.4	19.7	19.8	19.7	19.8	19.3	18.4	20.4	19.5
Aug 14	20.1	19.7	20.1	19.9	19.8	19.8	19.9	19.8	19.7	19.8	19.5	19.3	19.4	19.4	19.5	19.5	19.7	19.7	19.6	19.8	19.8	19.8	19.8	19.9	19.3	20.1	19.7	
Aug 15	19.8	19.8	19.7	20.3	20.0	19.8	20.0	19.4	19.6	19.4	19.3	19.3	19.3	19.2	19.2	19.3	19.4	19.4	19.3	19.5	19.5	20.2	20.7	20.8	19.2	20.8	19.7	
Aug 16	21.2	21.6	20.7	19.7	19.7	19.7	19.7	19.7	19.5	19.5	19.1	18.9	19.0	21.2	22.2	21.9	21.8	21.9	21.9	21.9	22.1	22.1	22.4	21.8	18.9	22.4	20.8	
Aug 17	21.3	22.3	22.7	21.5	22.2	23.0	22.1	21.9	22.1	21.7	22.0	21.7	21.8	21.6	21.7	21.6	21.7	21.8	21.8	21.8	22.0	22.0	22.4	22.4	21.3	23.0	22.0	
Aug 18	22.2	22.8	23.1	23.3	23.0	22.5	22.1	21.9	21.9	21.7	21.6	21.6	21.5	21.3	21.6	21.6	21.6	21.7	21.8	21.8	21.9	22.2	22.1	22.3	22.2	21.3	23.3	22.1
Aug 19	22.2	22.2	22.3	22.5	22.4	22.2	22.1	21.9	21.8	21.7	21.6	21.3	21.5	21.2	21.6	21.4	21.6	21.7	21.8	21.8	21.9	22.2	22.2	22.4	21.2	22.5	21.9	
Aug 20	22.4	22.3	22.3	22.2	22.6	22.2	21.9	21.9	22.1	21.8	21.8	21.7	21.5	21.6	21.5	21.6	21.6	21.7	21.7	21.8	21.9	22.0	22.0	22.5	21.5	22.6	21.9	
Aug 21	22.5	22.8	22.8	22.5	22.2	22.0	22.0	22.7	23.5	22.5	21.5	21.6	21.5	21.6	21.6	21.7	21.7	21.7	21.7	21.8	21.8	22.0	22.0	22.2	21.5	23.5	22.1	
Aug 22	22.1	22.1	22.2	22.1	22.2	22.3	22.1	22.0	22.0	21.8	21.7	21.6	21.6	21.6	21.7	21.7	21.8	21.8	21.8	21.9	22.1	22.2	22.3	22.4	21.6	22.4	22.0	
Aug 23	22.3	22.2	22.3	22.5	22.1	21.7	21.6	22.0	21.9	21.9	21.7	21.7	21.8	21.6	21.6	21.7	21.7	21.9	21.7	22.0	22.1	22.0	22.2	22.3	21.6	22.5	21.9	
Aug 24	22.5	22.3	22.1	21.8	21.6	21.5	22.7	22.0	21.9	21.9	21.6	21.5	21.6	21.5	21.5	21.7	21.7	21.6	21.8	21.9	22.1	22.0	22.1	22.1	21.5	22.7	21.9	
Aug 25	22.2	22.1	22.1	22.2	22.3	22.1	22.8	21.8	21.9	21.7	21.7	21.5	21.4	21.4	21.4	21.5	21.5	21.6	21.7	21.9	21.9	22.0	22.0	22.1	21.4	22.8	21.9	
Aug 26	22.0	22.2	22.1	22.2	22.1	22.2	22.1	22.0	21.9	21.8	21.9	21.6	21.4	21.5	21.5	21.6	21.6	21.7	21.6	22.0	22.0	22.0	22.1	22.1	21.4	22.2	21.9	
Aug 27	22.0	22.1	22.2	22.5	22.2	22.5	22.8	21.9	22.1	22.1	22.1	22.1	22.1	22.0	22.0	22.1	22.1	21.9	22.0	22.1	22.1	22.4	21.7	21.3	21.3	22.8	22.1	
Aug 28	22.4	23.0	22.2	22.6	22.9	23.0	23.1	21.9	21.9	22.7	21.7	21.8	21.8	21.7	21.7	21.8	21.8	21.7	21.9	22.2	22.3	21.7	21.7	22.9	21.7	23.1	22.2	
Aug 29	22.4	22.5	22.9	21.9	22.9	22.5	21.3	21.4	21.9	21.9	21.9	21.9	21.8	21.7	21.8	21.7	21.7	21.8	21.8	21.8	21.9	22.2	22.4	22.3	21.3	22.9	22.0	
Aug 30	21.9	21.7	21.7	22.1	22.4	22.4	22.4	21.8	21.8	21.7	21.6	21.7	21.6	21.5	21.4	21.6	21.6	21.7	21.7	21.8	21.7	21.9	22.0	22.4	21.4	22.4	21.8	
Aug 31	22.3	22.0	21.7	21.6	22.8	22.2	21.9	22.6	21.7	21.8	21.6	21.5	21.5	21.4	21.4	21.5	21.6	21.6	21.7	21.6	21.7	21.9	22.0	21.4	22.8	21.8	21.8	
Diurnal Maximum	22.5	23.0	23.1	23.3	23.0	23.0	23.1	22.7	23.5	22.7	22.5	22.1	22.1	22.0	22.2	22.1	22.1	21.9	22.0	22.2	22.3	22.4	22.4	22.9				
Diurnal Average	21.2	21.4	21.4	21.3	21.3	21.3	21.2	20.9	21.0	20.9	20.7	20.5	20.4	20.4	20.5	20.5	20.6	20.6	20.7	20.8	20.9	21.0	21.1	21.2				

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 ST - Peace River Complex (PRC) Station





PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

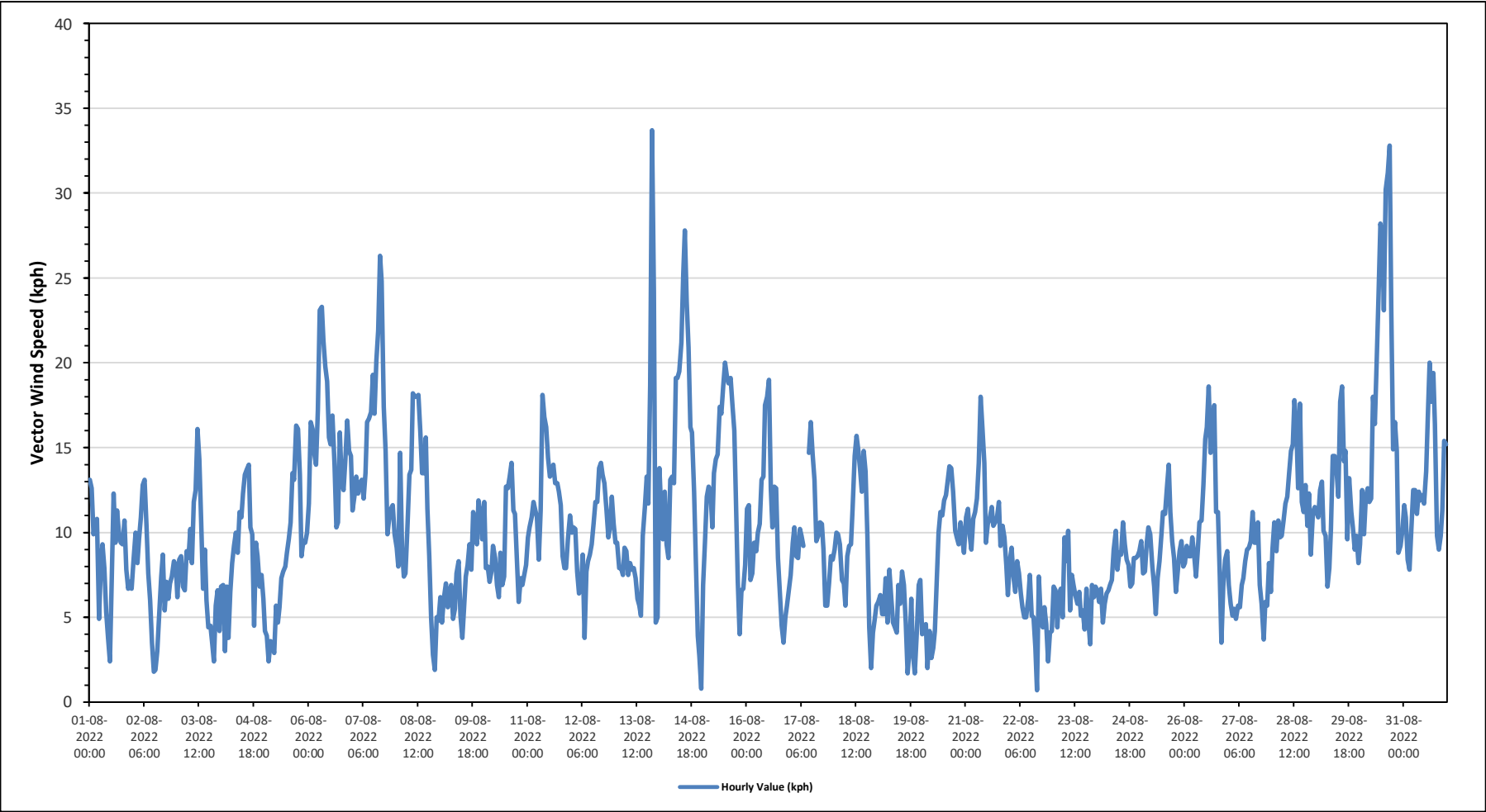
Maximum Hourly Value:	33.7 kph on August 13 at hour 20	Hours in Service:	744
Maximum Daily Value:	16.6 kph on August 30	Hours of Data:	742
Minimum Hourly Value:	0.7 kph on August 22 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	1.2 kph on August 2	Hours of Calibration:	2
Monthly Average:	4.3 kph	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	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
Aug 1	13.1	12.6	9.9	10.5	10.8	4.9	8.2	9.3	7.9	5.3	3.8	2.4	7.3	12.3	9.4	11.3	10.0	9.4	9.3	10.7	7.8	6.7	7.1	6.7	2.4	13.1	3.1
Aug 2	8.3	10.0	8.2	9.6	10.9	12.8	13.1	10.5	7.6	6.0	3.5	1.8	1.9	3.0	5.1	7.4	8.7	5.4	7.1	6.1	7.0	7.4	8.3	8.1	1.8	13.1	1.2
Aug 3	6.2	8.4	8.6	6.8	6.6	8.9	8.5	10.2	8.2	11.8	12.5	16.1	14.3	10.6	6.7	9.0	6.0	4.4	4.5	3.4	2.4	5.7	6.6	4.2	2.4	16.1	5.5
Aug 4	6.8	6.9	3.0	6.8	3.8	6.5	8.2	9.2	10.0	8.8	11.2	10.9	12.3	13.4	13.7	14.0	10.3	9.9	4.5	9.4	8.6	6.8	7.5	6.1	3.0	14.0	7.2
Aug 5	4.2	3.9	2.4	3.6	3.3	2.9	5.7	4.7	5.6	7.3	7.7	8.0	8.8	9.6	10.6	13.5	13.1	16.3	16.1	13.4	8.6	9.5	9.4	10.0	2.4	16.3	7.2
Aug 6	11.7	16.5	16.1	14.6	14.0	17.2	23.1	23.3	21.3	19.8	18.9	15.6	15.2	16.9	14.0	10.3	10.6	15.9	13.0	12.5	14.3	16.6	14.8	14.5	10.3	23.3	15.7
Aug 7	11.3	12.1	13.3	12.3	12.9	13.1	12.0	13.5	16.5	16.7	17.1	19.3	17.0	20.1	21.9	26.3	24.8	17.4	14.8	9.9	10.9	11.4	11.6	9.9	9.9	26.3	14.3
Aug 8	9.1	8.0	14.7	9.1	7.4	7.6	10.1	13.4	13.7	18.2	18.0	18.0	18.1	16.0	13.5	13.5	15.6	11.4	8.6	5.0	2.8	1.9	5.0	4.8	1.9	18.2	9.1
Aug 9	6.2	4.7	6.1	7.0	5.6	6.5	6.9	4.9	5.5	7.6	8.3	5.1	3.8	5.4	7.4	8.1	9.3	7.8	11.2	10.0	9.3	11.9	11.2	9.6	3.8	11.9	6.5
Aug 10	11.8	7.9	8.0	7.1	7.7	9.2	8.5	6.9	6.2	8.8	6.9	7.4	12.7	12.6	13.3	14.1	11.3	11.1	8.5	5.9	7.3	6.9	7.5	8.1	5.9	14.1	7.2
Aug 11	9.7	10.3	10.9	11.8	11.3	10.9	8.4	11.3	18.1	16.8	16.2	14.4	13.3	13.5	14.0	12.9	12.9	12.4	11.6	8.6	7.9	7.9	9.6	11.0	7.9	18.1	4.3
Aug 12	10.0	10.3	10.2	7.7	6.4	6.7	8.7	3.8	7.7	8.3	8.7	9.3	10.5	11.8	11.8	13.8	14.1	13.4	12.9	11.3	9.7	10.3	12.1	10.5	3.8	14.1	9.9
Aug 13	9.4	9.4	7.9	7.9	7.5	9.1	8.9	7.5	8.2	7.8	7.9	7.3	6.1	5.7	5.1	9.8	11.5	13.3	11.7	18.7	33.7	24.2	4.7	5.0	4.7	33.7	4.7
Aug 14	13.8	11.1	9.6	12.4	9.3	8.5	13.1	13.3	12.9	19.1	19.1	19.5	21.2	25.2	27.8	23.6	20.9	16.2	15.9	12.4	8.1	3.9	2.7	0.8	0.8	27.8	13.6
Aug 15	6.9	9.4	12.1	12.7	12.4	10.3	13.5	14.3	14.6	17.4	17.0	18.6	20.0	19.2	18.8	19.1	17.5	16.0	12.0	7.2	4.0	6.6	6.7	8.1	4.0	20.0	11.9
Aug 16	11.4	11.6	7.2	7.6	9.4	8.9	10.0	10.5	13.1	13.3	17.5	18.0	19.0	12.6	10.3	12.7	12.6	8.5	6.5	4.5	3.5	5.0	5.7	6.6	3.5	19.0	9.3
Aug 17	7.5	9.4	10.3	8.6	8.5	10.2	9.8	9.2	C	C	14.7	16.5	14.6	13.1	9.5	9.8	10.6	10.5	9.0	5.7	5.7	7.0	8.6	8.4	5.7	16.5	9.0
Aug 18	9.0	10.0	9.9	9.3	7.2	7.0	5.7	8.6	9.2	9.3	11.4	14.5	15.7	14.8	13.8	12.4	14.8	13.6	9.8	4.4	2.0	4.1	4.8	5.7	2.0	15.7	7.8
Aug 19	5.9	6.3	5.2	5.2	7.3	4.7	7.8	6.2	4.7	4.4	4.1	6.9	5.8	7.7	6.9	4.7	1.7	3.1	6.1	2.9	1.7	4.2	6.9	7.2	1.7	7.8	2.9
Aug 20	4.0	4.5	4.6	2.0	4.2	2.6	3.2	4.2	7.1	10.0	11.2	11.0	11.9	12.2	13.1	13.9	13.8	12.4	10.1	9.7	9.3	10.6	9.6	8.8	2.0	13.9	6.6
Aug 21	10.9	11.4	9.8	9.0	10.8	11.2	12.0	14.1	18.0	16.1	14.1	9.4	10.5	10.8	11.5	10.4	10.6	10.9	11.8	9.2	10.4	9.7	8.1	6.3	6.3	18.0	10.8
Aug 22	8.3	9.1	7.4	6.5	8.3	7.6	6.4	5.6	5.0	5.0	6.1	7.5	5.1	5.0	3.2	0.7	7.4	4.7	4.4	5.6	4.6	2.4	4.1	4.2	0.7	9.1	3.5
Aug 23	6.8	6.6	4.4	6.3	6.7	5.0	9.7	8.3	10.1	5.4	7.5	6.9	6.3	5.8	6.5	5.1	5.4	4.3	6.7	5.1	3.4	6.9	6.2	6.8	3.4	10.1	5.5
Aug 24	6.6	5.9	6.7	4.7	5.8	6.4	6.6	6.9	7.2	9.0	10.1	7.8	8.8	8.7	10.6	9.3	8.4	8.1	6.8	7.0	8.5	8.5	8.6	8.9	4.7	10.6	6.8
Aug 25	9.5	7.6	7.7	9.4	10.3	9.9	8.0	6.8	5.2	7.3	8.3	9.8	11.2	11.1	12.6	14.0	11.2	9.5	8.5	6.5	7.7	8.9	9.5	8.0	5.2	14.0	8.9
Aug 26	8.2	9.2	8.6	8.6	9.7	8.7	7.4	9.0	10.6	10.7	12.8	15.5	16.2	18.6	14.7	16.7	17.5	11.2	11.2	7.4	3.5	6.8	8.4	8.9	3.5	18.6	8.0
Aug 27	6.9	5.8	5.1	5.5	4.9	5.7	5.6	6.9	7.3	8.3	9.0	9.1	9.5	11.2	9.4	9.4	10.6	6.9	5.8	3.7	5.9	5.7	8.2	6.5	3.7	11.2	6.2
Aug 28	9.0	10.6	8.9	10.7	9.7	9.8	10.7	11.7	12.1	13.5	14.8	15.2	17.8	16.4	12.6	17.6	11.8	11.2	12.8	10.4	12.3	8.7	11.2	11.5	8.7	17.8	11.4
Aug 29	11.2	10.9	12.5	13.0	10.1	9.8	6.8	7.9	10.2	14.5	14.5	13.7	12.1	17.7	18.6	14.2	14.8	9.6	13.2	11.2	10.3	9.0	9.8	8.2	6.8	18.6	10.9
Aug 30	9.3	12.5	9.9	12.1	12.6	11.8	12.0	18.0	16.4	20.1	24.0	28.2	27.4	23.1	30.2	31.2	32.8	23.2	14.9	16.5	14.8	8.8	9.2	10.1	8.8	32.8	16.6
Aug 31	11.6	10.9	8.4	7.8	10.2	12.5	11.1	12.4	11.9	12.2	11.7	13.6	16.7	20.0	17.7	19.4	16.4	9.8	9.0	9.8	11.3	15.4	15.2	7.8	20.0	12.0	
Diurnal Maximum	14	17	16	15	14	17	23	23	21	20	24	28	27	25	30	31	33	23	16	19	34	24	15	15			
Diurnal Average	8.9	9.2	8.6	8.6	8.6	8.6	9.4	9.7	10.4	11.3	11.9	12.1	12.5	12.9	12.8	13.1	12.9	11.1	10.0	8.5	8.3	8.2	8.4	8.0			

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

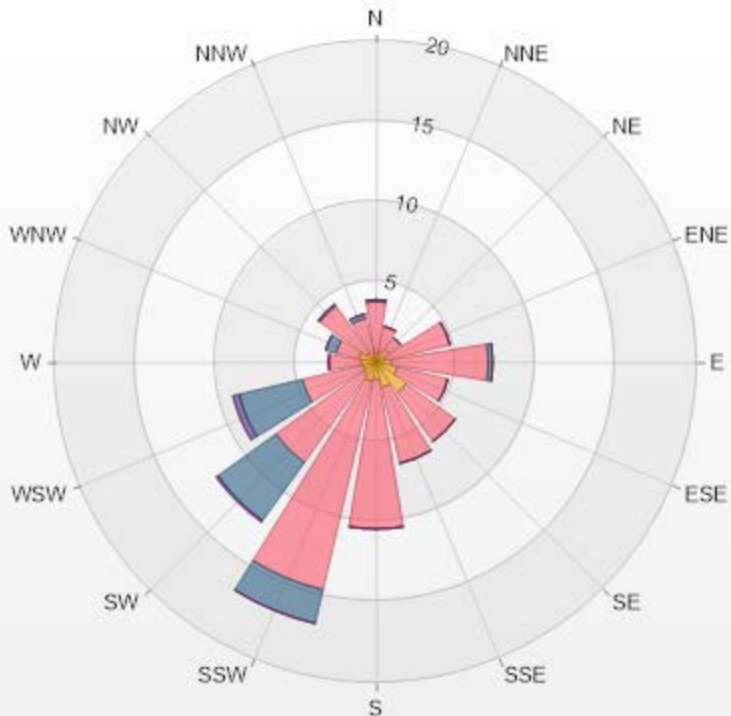
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

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



Wind: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 08-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.54% Valid Data: 99.73%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.54	3.23	0.13	0	0	3.9
NNE	0.67	1.62	0	0	0	2.29
NE	0.94	0.94	0	0	0	1.88
ENE	0.54	4.18	0	0	0	4.72
E	0.94	6.06	0.27	0	0	7.27
ESE	1.35	3.23	0	0	0	4.58
SE	2.29	3.77	0	0	0	6.06
SSE	1.62	4.85	0	0	0	6.47
S	1.08	9.3	0	0	0	10.38
SSW	1.21	13.34	2.16	0	0	16.71
SW	0.94	6.74	4.45	0.13	0	12.26
WSW	0.81	3.91	4.04	0.4	0	9.16
W	0.94	2.02	0	0	0	2.96
WNW	1.08	1.48	0.67	0	0	3.23
NW	0.67	3.64	0.13	0	0	4.44
NNW	0.27	2.56	0.27	0	0	3.1
Summary	15.89	70.87	12.12	0.53	0	99.41



PRAMP-202208

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% Icon Classes (KPH)	16	71	12	1	0
1.8-6.0	16	71	12	1	0
6.0-15.0					
15.0-29.0					
29.0-39.0					
>39.0					



PEACE RIVER AREA MONITORING PROGRAM

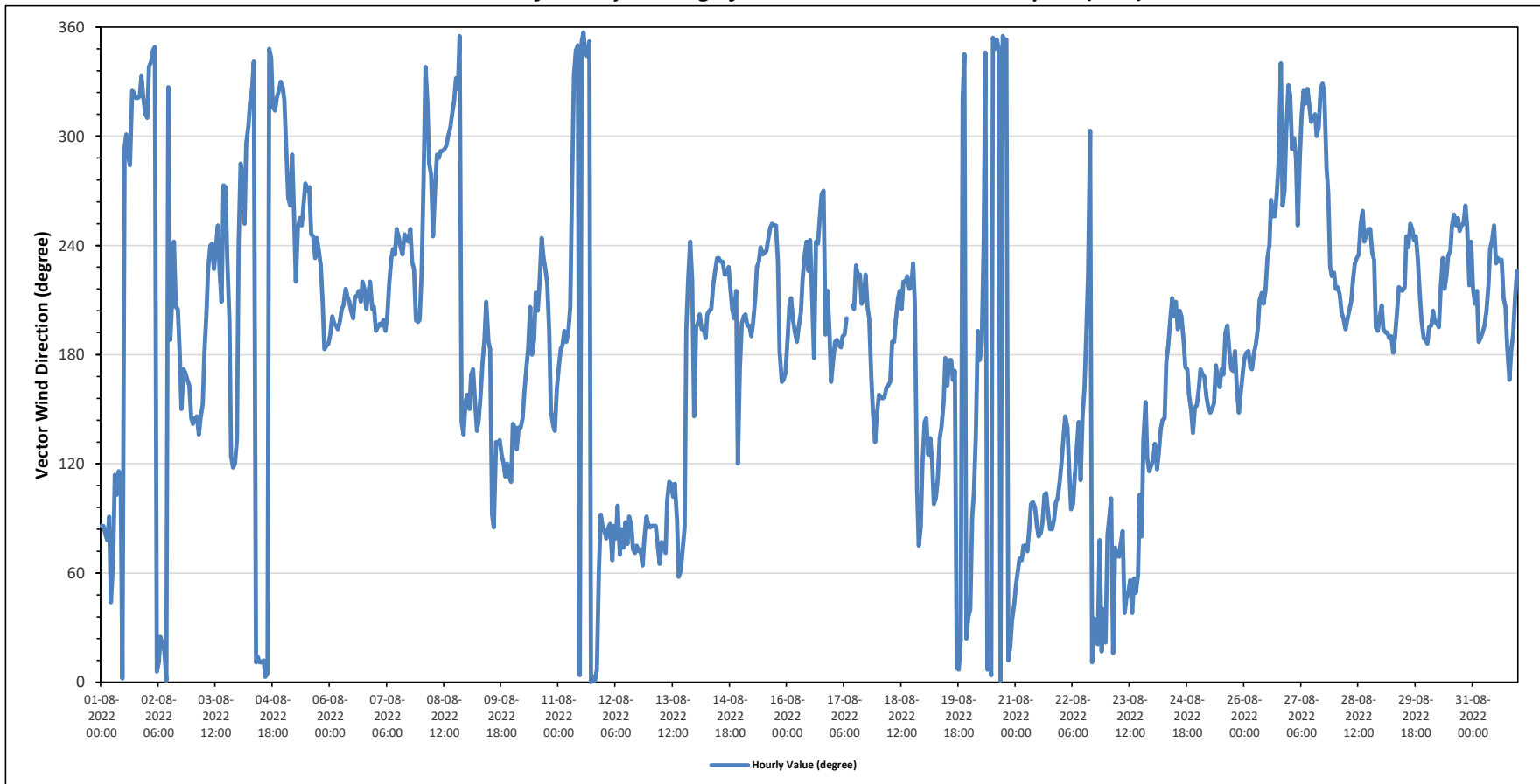
Peace River Complex (PRC) Station - August 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		209 (SSW) degree										Hours in Service:		744																													
												Hours of Data:		742																													
												Hours of Missing Data:		0																													
												Hours of Calibration:		2																													
												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																	
Aug 1	E	E	E	ENE	E	NE	ENE	ESE	ESE	ESE	ESE	N	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	NW	11	NNE																		
Aug 2	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	N	NW	S	SSW	WSW	SSW	SSW	S	SSE	S	SSE	SSE	SSE	SE	352	N																	
Aug 3	SE	SE	SE	SE	SE	SSE	S	SSW	SW	WSW	WSW	SW	WSW	WSW	SW	SSW	W	W	SW	SSW	ESE	ESE	ESE	SE	201	SSW																	
Aug 4	WSW	WNW	W	WSW	WNW	NW	NW	NW	NNW	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NW	NW	NW	NNW	NNW	NW	339	NNW																		
Aug 5	NW	WNW	W	W	WNW	WSW	SW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	SW	WSW	SW	SSW	S	S	S	241	WSW																		
Aug 6	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	207	SSW																		
Aug 7	S	SSW	SSW	SSW	SSW	S	SSW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW	226	SW																		
Aug 8	SW	W	NNW	NW	WNW	W	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NNW	NW	NW	NNW	NW	N	SE	SE	294	WNW																		
Aug 9	SSE	SSE	SSE	S	SSE	SE	SE	SSE	S	S	SSW	S	S	E	E	SE	SE	SE	SE	ESE	ESE	ESE	ESE	139	SE																		
Aug 10	SE	SE	SE	SE	SE	SE	SSE	S	S	SSW	S	S	SSW	SSW	SW	WSW	SW	SW	SW	S	SSE	SE	SE	183	S																		
Aug 11	S	S	S	S	S	S	SSW	W	NNW	NNW	N	N	N	N	NNW	NNW	N	N	N	N	N	ENE	E	350	N																		
Aug 12	E	ENE	E	E	ENE	E	ENE	E	ENE	E	ENE	E	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	80	E																		
Aug 13	E	E	E	E	ENE	ENE	ENE	ENE	ENE	E	ESE	ESE	E	ESE	E	ENE	ENE	ENE	E	SSW	SW	WSW	SW	111	ESE																		
Aug 14	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	ESE	216	SW																		
Aug 15	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SW	SW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	S	SSE	SSE	223	SW																		
Aug 16	S	SSW	SSW	SSW	S	S	SSW	SSW	SW	SW	WSW	SW	WSW	SSW	S	WSW	WSW	WSW	W	W	S	SSW	S	218	SW																		
Aug 17	S	S	S	S	S	S	S	SSW	C	C	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SSW	SSW	SSW	SSE	SE	197	SSW																		
Aug 18	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	ESE	ENE	E	ESE	193	S																		
Aug 19	SE	SE	SE	SE	ESE	E	E	ESE	SE	SE	SSE	S	SSE	S	SSE	S	N	N	NNE	NW	NNW	NNE	NE	123	ESE																		
Aug 20	NE	E	ESE	SE	S	S	S	WSW	NNW	N	NNE	N	N	NNW	N	NNW	N	N	N	N	NNE	NNE	NE	6	N																		
Aug 21	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ESE	ESE	E	E	E	E	E	E	86	E																		
Aug 22	ESE	SE	SE	SE	ESE	E	E	ESE	SE	SE	ESE	SE	SSE	SSW	SW	WNW	NNE	NE	NNE	ENE	NNE	NE	NNE	108	ESE																		
Aug 23	E	E	E	NNE	ENE	ENE	ENE	ENE	E	NE	NE	NE	NE	NE	ENE	NE	ENE	ESE	E	SE	SSE	ESE	ESE	76	ENE																		
Aug 24	ESE	SE	ESE	SE	SE	SE	SE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	SSE	SE	SSE	170	SSE																		
Aug 25	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSE	SE	SSE	SSE	168	SSE																		
Aug 26	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	WSW	WSW	W	WNW	NNW	W	W	WNW	232	SW																		
Aug 27	NW	WNW	WNW	WNW	WSW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	NW	NNW	NW	W	W	SW	SW	300	WNW																		
Aug 28	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	S	SSW	225	SW																		
Aug 29	SSW	SSW	S	S	S	S	S	SSW	SW	SW	SSW	SW	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	S	S	216	SW																		
Aug 30	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	SW	234	SW																		
Aug 31	SW	SSW	SSW	S	S	S	SSW	SSW	SW	SW	WSW	WSW	SW	SW	SW	SSW	SSW	S	SSE	S	S	SSW	SW	214	SSW																		
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 - August 2022

Summary of Hourly Averages

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

WIND SPEED																												
Maximum Hourly Value:	33.7	kph	on August 13 at hour 20	Hours in Service:	744																							
Maximum Daily Value:	16.6	kph	on August 30	Hours of Data:	742																							
Minimum Hourly Value:	0.7	kph	on August 22 at hour 15	Hours of Missing Data:	0																							
Minimum Daily Value:	1.2	kph	on August 2	Hours of Calibration:	2																							
Monthly Average:	4.3	kph		Operational Uptime:	100.0																							
WIND DIRECTION																												
Monthly Average:	209	(SSW)	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	
Aug 1	13.1	12.6	9.9	10.5	10.8	4.9	8.2	9.3	7.9	5.3	3.8	2.4	7.3	12.3	9.4	11.3	10.0	9.4	9.3	10.7	7.8	6.7	7.1	6.7	2.4	13.1	3.1	
	E	E	E	ENE	E	NE	ENE	ESE	ESE	ESE	N	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NW	NW					
Aug 2	8.3	10.0	8.2	9.6	10.9	12.8	13.1	10.5	7.6	6.0	3.5	1.8	1.9	3.0	5.1	7.4	8.7	5.4	7.1	6.1	7.0	7.4	8.3	8.1	1.8	13.1	1.2	
	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	N	NW	S	SSW	SSW	SSW	SSW	S	SSE	S	SSE	SSE	SSE	SE				
Aug 3	6.2	8.4	8.6	6.8	6.6	8.9	8.5	10.2	8.2	11.8	12.5	16.1	14.3	10.6	6.7	9.0	6.0	4.4	4.5	3.4	2.4	5.7	6.6	4.2	2.4	16.1	5.5	
	SE	SE	SE	SE	SE	SSE	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	W	W	SW	SSW	ESE	ESE	ESE	SE				
Aug 4	6.8	6.9	3.0	6.8	3.8	6.5	8.2	9.2	10.0	8.8	11.2	10.9	12.3	13.4	13.7	14.0	10.3	9.9	4.5	9.4	8.6	6.8	7.5	6.1	3.0	14.0	7.2	
	WSW	WNW	W	WSW	WNW	NW	NW	NW	NNW	NNE	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NW	NW	NW	NW	NNW	NW				
Aug 5	4.2	3.9	2.4	3.6	3.3	2.9	5.7	4.7	5.6	7.3	7.7	8.0	8.8	9.6	10.6	13.5	13.1	16.3	16.1	13.4	8.6	9.5	9.4	10.0	2.4	16.3	7.2	
	NW	WNW	W	W	WNW	WSW	SW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	SW	WSW	SW	SW	SSW	S	S	S				
Aug 6	11.7	16.5	16.1	14.6	14.0	17.2	23.1	23.3	21.3	19.8	18.9	15.6	15.2	16.9	14.0	10.3	10.6	15.9	13.0	12.5	14.3	16.6	14.8	14.5	10.3	23.3	15.7	
	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW				
Aug 7	11.3	12.1	13.3	12.3	12.9	13.1	12.0	13.5	16.5	16.7	17.1	19.3	17.0	20.1	21.9	26.3	24.8	17.4	14.8	9.9	10.9	11.4	11.6	9.9	9.9	26.3	14.3	
	S	SSW	SSW	SSW	SSW	S	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW				
Aug 8	9.1	8.0	14.7	9.1	7.4	7.6	10.1	13.4	13.7	18.2	18.0	18.0	18.1	16.0	13.5	13.5	15.6	11.4	8.6	5.0	2.8	1.9	5.0	4.8	1.9	18.2	9.1	
	SW	W	NNW	NW	WNW	W	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NW	N	SE	SSE				
Aug 9	6.2	4.7	6.1	7.0	5.6	6.5	6.9	4.9	5.5	7.6	8.3	5.1	3.8	5.4	7.4	8.1	9.3	7.8	11.2	10.0	9.3	11.9	11.2	9.6	3.8	11.9	6.5	
	SSE	SSE	SSE	S	SSE	SE	SE	SSE	S	SSW	S	S	S	E	E	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE				
Aug 10	11.8	7.9	8.0	7.1	7.7	9.2	8.5	6.9	6.2	8.8	6.9	7.4	12.7	12.6	13.3	14.1	11.3	11.1	8.5	5.9	7.3	6.9	7.5	8.1	5.9	14.1	7.2	
	SE	SE	SE	SE	SE	SE	SSE	S	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	SE	SE	SSE				
Aug 11	9.7	10.3	10.9	11.8	11.3	10.9	8.4	11.3	18.1	16.8	16.2	14.4	13.3	13.5	14.0	12.9	12.9	12.4	11.6	8.6	7.9	7.9	9.6	11.0	7.9	18.1	4.3	
	S	S	S	S	S	S	SSW	W	NNW	NNW	N	N	N	N	NNW	NNW	N	N	N	N	N	N	ENE	E	E			
Aug 12	10.0	10.3	10.2	7.7	6.4	6.7	8.7	3.8	7.7	8.3	8.7	9.3	10.5	11.8	11.8	13.8	14.1	13.4	12.9	11.3	9.7	10.3	12.1	10.5	3.8	14.1	9.9	
	E	ENE	E	E	ENE	E	ENE	E	ENE	E	ENE	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E				
Aug 13	9.4	9.4	7.9	7.9	7.5	9.1	8.9	7.5	8.2	7.8	7.9	7.3	6.1	5.7	5.1	9.8	11.5	13.3	11.7	18.7	33.7	24.2	4.7	5.0	4.7	33.7	4.7	
	E	E	E	E	ENE	ENE	ENE	ENE	ENE	E	ESE	E	ESE	E	ESE	E	ENE	ENE	ENE	E	SSW	SW	WSW	SW	SE			
Aug 14	13.8	11.1	9.6	12.4	9.3	8.5	13.1	13.3	12.9	19.1	19.1	19.5	21.2	25.2	27.8	23.6	20.9	16.2	15.9	12.4	8.1	3.9	2.7	0.8	0.8	27.8	13.6	
	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	ESE	S			
Aug 15	6.9	9.4	12.1	12.7	12.4	10.3	13.5	14.3	14.6	17.4	17.0	18.6	20.0	19.2	18.8	19.1	17.5	16.0	12.0	7.2	4.0	6.6	6.7	8.1	4.0	20.0	11.9	
	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE				
Aug 16	11.4	11.6	7.2	7.6	9.4	8.9	10.0	10.5	13.1	13.3	17.5	18.0	19.0	12.6	10.3	12.7	12.6	8.5	6.5	4.5	3.5	5.0	5.7	6.6	3.5	19.0	9.3	
	S	SSW	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	WSW	WSW	WSW	WSW	W	W	S	SSW	S	SSE				
Aug 17	7.5	9.4	10.3	8.6	8.5	10.2	9.8	9.2	C	C	14.7	16.5	14.6	13.1	9.5	9.8	10.6	10.5	9.0	5.7	5.7	7.0	8.6	8.4	5.7	16.5	9.0	
	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	SE	SE	SE			
Aug 18	9.0	10.0	9.9	9.3	7.2	7.0	5.7	8.6	9.2	9.3	11.4	14.5	15.7	14.8	13.8	12.4	14.8	13.6	9.8	4.4	2.0	4.1	4.8	5.7	2.0	15.7	7.8	
	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	ENE	E	ESE				
Aug 19	5.9	6.3	5.2	5.2	7.3	4.7	7.8	6.2	4.7	4.4	4.1	6.9	5.8	7.7	6.9	4.7	1.7	3.1	6.1	2.9	1.7	4.2	6.9	7.2	1.7	7.8	2.9	
	SE	SE	SE	SE	ESE	E	E	ESE	SE	SSE	S	SSE	S	SSE	S	SSE	S	N	N	NNE	NW	NNW	NNE	NE				
Aug 20	4.0	4.5	4.6	2.0	4.2	2.6	3.2	4.2	7.1	10.0	11.2	11.0	11.9	12.2	13.1	13.9	13.8	12.4	10.1	9.7	9.3	10.6	9.6	8.8	2.0	13.9	6.6	
	NE	E	ESE	SE	S	S	S	WSW	NNW	N	NNE	N	N	NNW	N	NNW	N	N	N	N	N	NNE	NNE	NE	NE			



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - August 2022

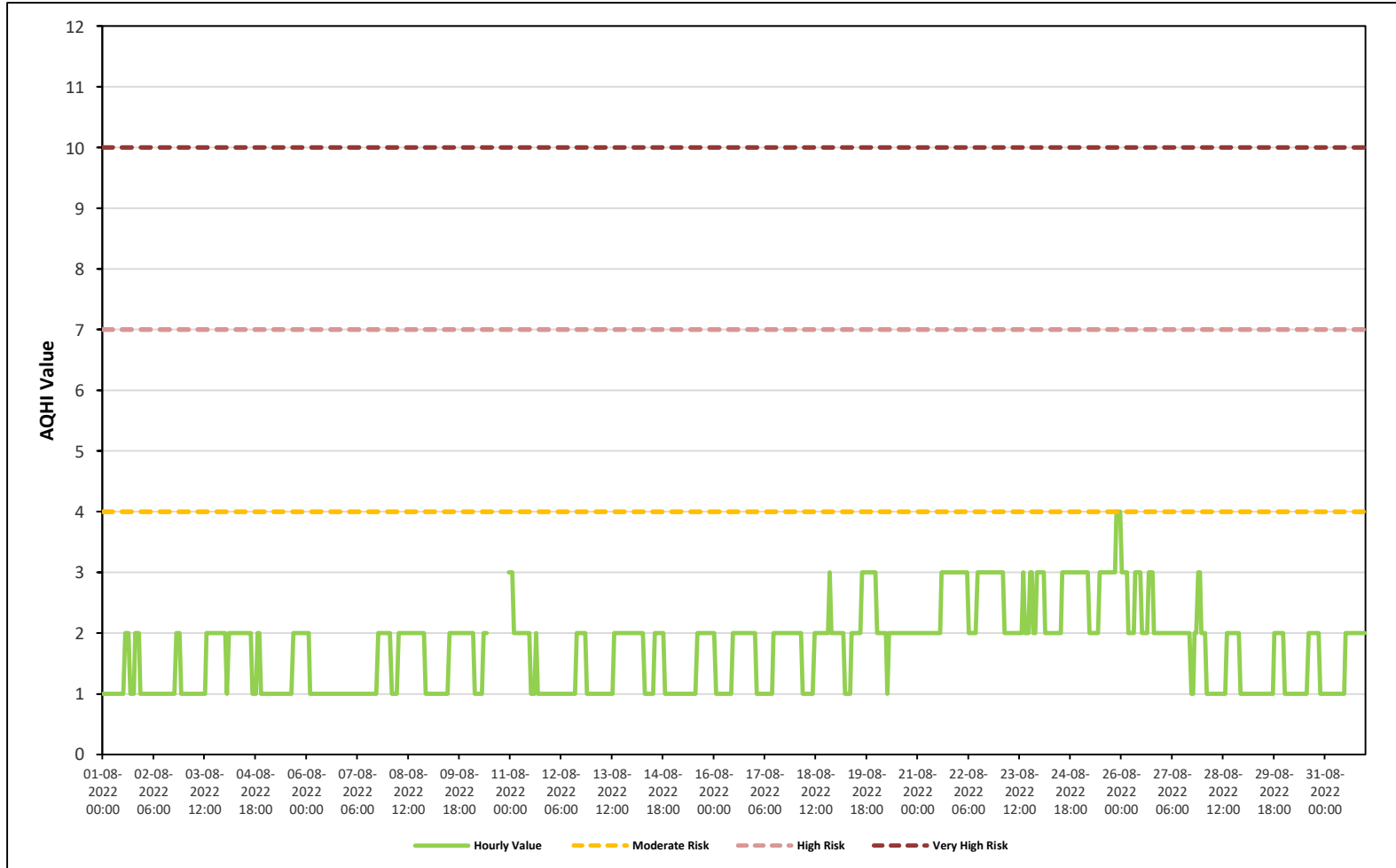
Summary of Hourly Averages

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

WIND SPEED																																																																							
Maximum Hourly Value:	33.7 kph on August 13 at hour 20																																																																						
Maximum Daily Value:	16.6 kph on August 30																																																																						
Minimum Hourly Value:	0.7 kph on August 22 at hour 15																																																																						
Minimum Daily Value:	1.2 kph on August 2																																																																						
Monthly Average:	4.3 kph																																																																						
Hours in Service:	744																																																																						
Hours of Data:	742																																																																						
Hours of Missing Data:	0																																																																						
Hours of Calibration:	2																																																																						
Operational Uptime:	100.0																																																																						
WIND DIRECTION																																																																							
Monthly Average:	209 (SSW) degree																																																																						
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average																																													
Aug 21	10.9	11.4	9.8	9.0	10.8	11.2	12.0	14.1	18.0	16.1	14.1	9.4	10.5	10.8	11.5	10.4	10.6	10.9	11.8	9.2	10.4	9.7	8.1	6.3	6.3	18.0	10.8																																												
Aug 22	8.3	9.1	7.4	6.5	8.3	7.6	6.4	5.6	5.0	5.0	6.1	7.5	5.1	5.0	3.2	0.7	7.4	4.7	4.4	5.6	4.6	2.4	4.1	4.2	0.7	9.1	3.5																																												
Aug 23	6.8	6.6	4.4	6.3	6.7	5.0	9.7	8.3	10.1	5.4	7.5	6.9	6.3	5.8	6.5	5.1	5.4	4.3	6.7	5.1	3.4	6.9	6.2	6.8	3.4	10.1	5.5																																												
Aug 24	6.6	5.9	6.7	4.7	5.8	6.4	6.6	6.9	7.2	9.0	10.1	7.8	8.8	8.7	10.6	9.3	8.4	8.1	6.8	7.0	8.5	8.5	8.6	8.9	4.7	10.6	6.8																																												
Aug 25	9.5	7.6	7.7	9.4	10.3	9.9	8.0	6.8	5.2	7.3	8.3	9.8	11.2	11.1	12.6	14.0	11.2	9.5	8.5	6.5	7.7	8.9	9.5	8.0	5.2	14.0	8.9																																												
Aug 26	8.2	9.2	8.6	8.6	9.7	8.7	7.4	9.0	10.6	10.7	12.8	15.5	16.2	18.6	14.7	16.7	17.5	11.2	11.2	7.4	3.5	6.8	8.4	8.9	3.5	18.6	8.0																																												
Aug 27	6.9	5.8	5.1	5.5	4.9	5.7	5.6	6.9	7.3	8.3	9.0	9.1	9.5	11.2	9.4	10.6	6.9	5.8	3.7	5.9	5.7	8.2	6.5	3.7	11.2	6.2																																													
Aug 28	9.0	10.6	8.9	10.7	9.7	9.8	10.7	11.7	12.1	13.5	14.8	15.2	17.8	16.4	12.6	17.6	11.8	11.2	12.8	10.4	12.3	8.7	11.2	11.5	8.7	17.8	11.4																																												
Aug 29	11.2	10.9	12.5	13.0	10.1	9.8	6.8	7.9	10.2	14.5	14.5	13.7	12.1	17.7	18.6	14.2	14.8	9.6	13.2	11.2	10.3	9.0	9.8	8.2	6.8	18.6	10.9																																												
Aug 30	9.3	12.5	9.9	12.1	12.6	11.8	12.0	18.0	16.4	20.1	24.0	28.2	27.4	23.1	30.2	31.2	32.8	23.2	14.9	16.5	14.8	8.8	9.2	10.1	8.8	32.8	16.6																																												
Aug 31	11.6	10.9	8.4	7.8	10.2	12.5	12.5	11.1	12.4	11.9	12.2	11.7	13.6	16.7	20.0	17.7	19.4	16.4	9.8	9.0	9.8	11.3	15.4	15.2	7.8	20.0	12.0																																												
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	Unit/Maint (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.																																																																							

AQHI GRIMSHAW STATION

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





PEACE RIVER AREA MONITORING PROGRAM

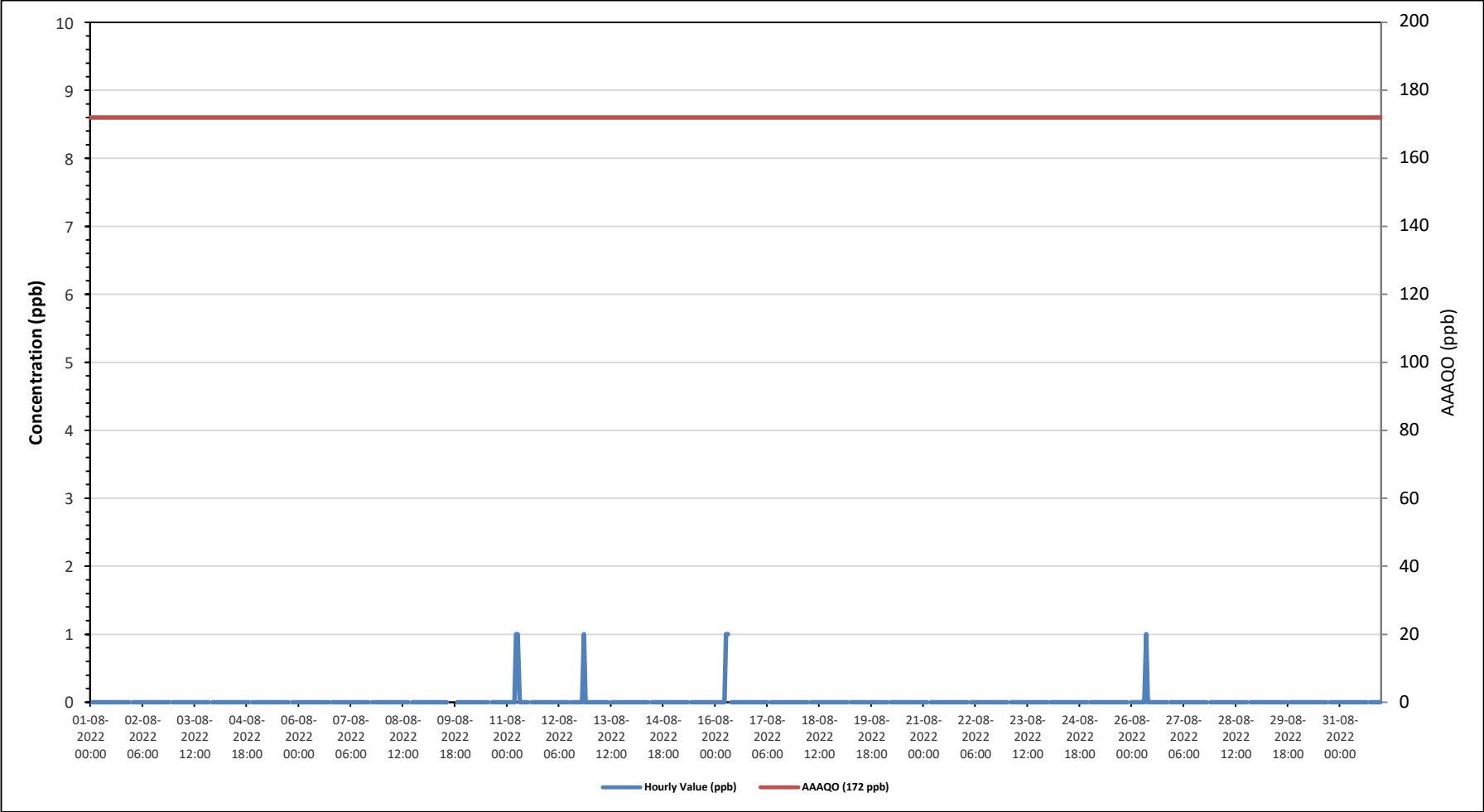
AQHI - Grimshaw Station - August 2022

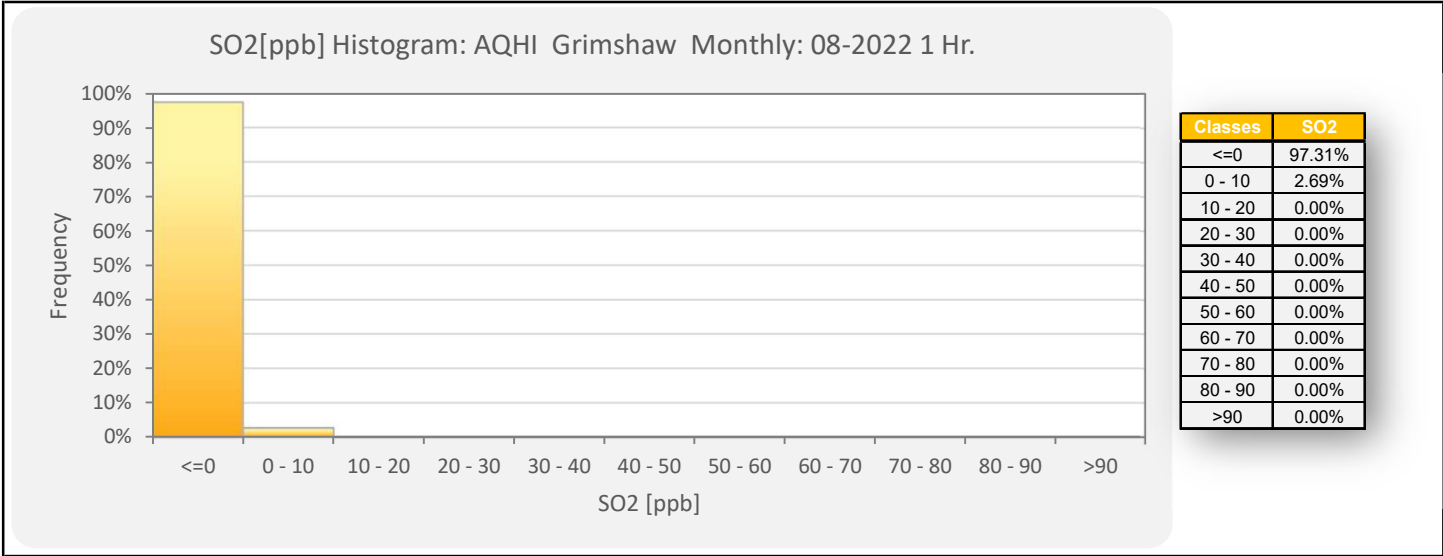
Summary of Hourly Averages

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 August 11 at hour 5												Hours in Service:						744					
Maximum Daily Value:												0.1 ppb on August 11												Hours of Data:						707					
Minimum Hourly Value:												0 ppb on August 1 at hour 1												Hours of Missing Data:						0					
Minimum Daily Value:												0.0 ppb on August 1												Hours of Calibration:						37					
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								
Aug 1	S	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								
Aug 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								
Aug 3	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								
Aug 4	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								
Aug 5	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								
Aug 6	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								
Aug 7	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								
Aug 8	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								
Aug 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0								
Aug 10	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								
Aug 11	0	0	0	0	0	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0								
Aug 12	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0								
Aug 13	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								
Aug 14	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								
Aug 15	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								
Aug 16	0	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Aug 17	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								
Aug 18	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								
Aug 19	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								
Aug 20	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								
Aug 21	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								
Aug 22	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								
Aug 23	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								
Aug 24	S	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								
Aug 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								
Aug 26	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0								
Aug 27	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								
Aug 28	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								
Aug 29	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								
Aug 30	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								
Aug 31	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								
Diurnal Maximum	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0								
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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.																																			

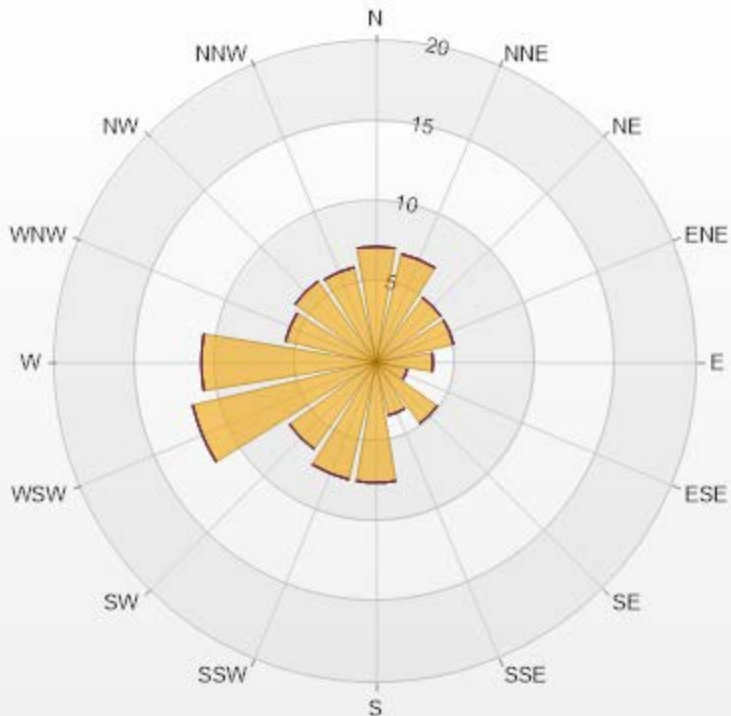
Timeseries Chart of Hourly Average for SO2 - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	7.21	0	0	0	0	7.21
NNE	6.93	0	0	0	0	6.93
NE	4.95	0	0	0	0	4.95
ENE	4.95	0	0	0	0	4.95
E	3.54	0	0	0	0	3.54
ESE	1.98	0	0	0	0	1.98
SE	4.67	0	0	0	0	4.67
SSE	3.39	0	0	0	0	3.39
S	7.5	0	0	0	0	7.5
SSW	7.5	0	0	0	0	7.5
SW	6.65	0	0	0	0	6.65
WSW	11.74	0	0	0	0	11.74
W	10.89	0	0	0	0	10.89
WNW	5.8	0	0	0	0	5.8
NW	6.22	0	0	0	0	6.22
NNW	6.08	0	0	0	0	6.08
Summary	100	0	0	0	0	100



PRAMP-202208

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% 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 - August 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

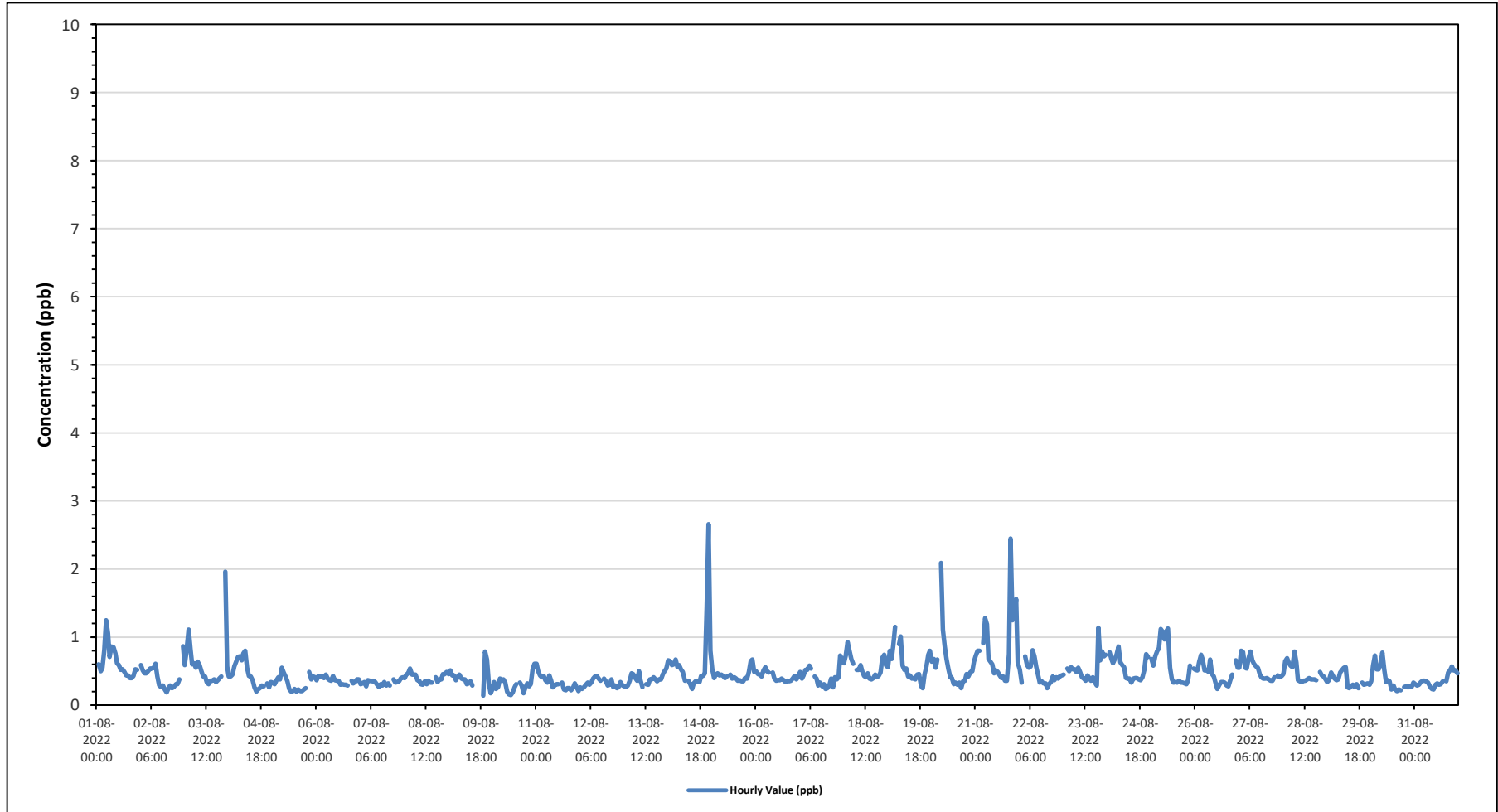
Maximum Hourly Value:	2.66 ppb on August 14 at hour 22	Hours in Service:	744
Maximum Daily Value:	0.83 ppb on August 21	Hours of Data:	707
Minimum Hourly Value:	0.14 ppb on August 9 at hour 19	Hours of Missing Data:	0
Minimum Daily Value:	0.30 ppb on August 10	Hours of Calibration:	37
Monthly Average:	0.46 ppb	Operational Uptime:	100.0

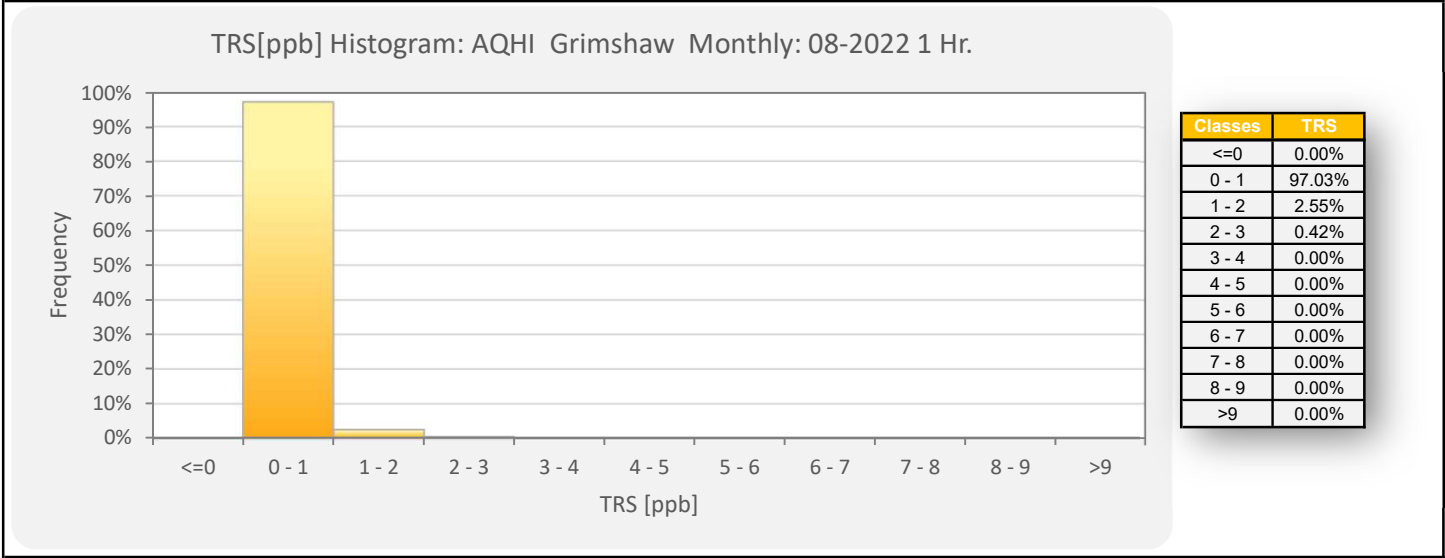
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Aug 1	S	0.6	0.5	0.55	0.81	1.25	1.06	0.71	0.86	0.85	0.76	0.62	0.59	0.52	0.53	0.49	0.44	0.44	0.4	0.4	0.43	0.53	0.52	S	0.40	1.25	0.63
Aug 2	0.59	0.51	0.47	0.47	0.5	0.54	0.54	0.55	0.61	0.42	0.29	0.27	0.29	0.23	0.19	0.25	0.29	0.25	0.27	0.31	0.31	0.38	S	0.87	0.19	0.87	0.41
Aug 3	0.59	0.8	1.11	0.82	0.6	0.62	0.55	0.64	0.59	0.5	0.42	0.42	0.34	0.31	0.36	0.36	0.38	0.34	0.37	0.4	0.42	S	1.96	0.57	0.31	1.96	0.59
Aug 4	0.42	0.42	0.45	0.57	0.64	0.71	0.72	0.66	0.76	0.8	0.55	0.43	0.42	0.37	0.26	0.2	0.23	0.25	0.29	0.28	S	0.32	0.26	0.34	0.20	0.80	0.45
Aug 5	0.33	0.31	0.37	0.41	0.38	0.55	0.48	0.42	0.35	0.24	0.2	0.21	0.24	0.2	0.23	0.21	0.21	0.23	0.25	S	0.49	0.38	0.42	0.41	0.20	0.55	0.33
Aug 6	0.37	0.43	0.42	0.42	0.4	0.45	0.39	0.37	0.36	0.43	0.37	0.36	0.36	0.3	0.31	0.3	0.3	0.29	S	0.36	0.32	0.34	0.38	0.38	0.29	0.45	0.37
Aug 7	0.31	0.32	0.34	0.28	0.37	0.36	0.35	0.36	0.34	0.3	0.27	0.31	0.29	0.34	0.29	0.32	0.29	S	0.38	0.33	0.34	0.35	0.4	0.41	0.27	0.41	0.33
Aug 8	0.4	0.45	0.47	0.54	0.45	0.45	0.37	0.36	0.31	0.3	0.35	0.31	0.36	0.33	0.33	S	0.41	0.34	0.38	0.38	0.46	0.46	0.49	0.30	0.54	0.40	
Aug 9	0.46	0.51	0.44	0.44	0.37	0.41	0.45	0.39	0.38	0.38	0.31	0.32	0.35	0.29	C	C	C	C	C	0.14	0.79	0.67	0.32	0.18	0.14	0.79	0.40
Aug 10	0.24	0.34	0.24	0.27	0.39	0.37	0.38	0.33	0.2	0.16	0.15	0.19	0.26	0.31	S	0.33	0.29	0.18	0.26	0.32	0.28	0.31	0.53	0.61	0.15	0.61	0.30
Aug 11	0.61	0.5	0.44	0.41	0.43	0.37	0.33	0.44	0.36	0.26	0.29	0.31	0.31	S	0.33	0.23	0.22	0.25	0.25	0.22	0.26	0.32	0.26	0.21	0.21	0.61	0.33
Aug 12	0.26	0.24	0.26	0.3	0.33	0.3	0.33	0.39	0.42	0.43	0.39	0.36	S	0.39	0.35	0.29	0.3	0.38	0.27	0.29	0.25	0.27	0.34	0.29	0.24	0.43	0.32
Aug 13	0.28	0.27	0.29	0.36	0.47	0.46	0.4	0.36	0.5	0.36	0.27	S	0.31	0.3	0.38	0.38	0.41	0.38	0.35	0.38	0.38	0.46	0.5	0.54	0.27	0.54	0.38
Aug 14	0.66	0.65	0.59	0.6	0.67	0.56	0.59	0.53	0.49	0.36	S	0.36	0.31	0.24	0.32	0.35	0.36	0.34	0.43	0.43	0.47	1.43	2.66	0.8	0.24	2.66	0.62
Aug 15	0.53	0.4	0.45	0.47	0.44	0.45	0.43	0.4	0.42	S	0.45	0.39	0.41	0.39	0.36	0.37	0.35	0.35	0.4	0.39	0.49	0.65	0.67	0.49	0.35	0.67	0.44
Aug 16	0.5	0.46	0.45	0.42	0.51	0.56	0.5	0.48	S	0.48	0.39	0.36	0.37	0.37	0.39	0.37	0.34	0.36	0.35	0.36	0.39	0.43	0.38	0.42	0.34	0.56	0.42
Aug 17	0.49	0.39	0.44	0.52	0.52	0.58	0.54	S	0.42	0.39	0.29	0.33	0.28	0.31	0.24	0.25	0.29	0.39	0.26	0.41	0.38	0.41	0.73	0.67	0.24	0.73	0.41
Aug 18	0.62	0.73	0.93	0.8	0.68	0.61	S	0.52	0.52	0.59	0.5	0.43	0.41	0.47	0.39	0.38	0.4	0.45	0.41	0.43	0.48	0.7	0.74	0.58	0.38	0.93	0.56
Aug 19	0.56	0.8	0.68	0.88	1.15	S	0.9	1.01	0.58	0.52	0.54	0.42	0.44	0.39	0.4	0.38	0.45	0.46	0.28	0.25	0.46	0.57	0.74	0.8	0.25	1.15	0.59
Aug 20	0.64	0.68	0.55	0.67	S	2.09	1.11	0.86	0.67	0.53	0.41	0.4	0.31	0.33	0.3	0.33	0.25	0.35	0.36	0.46	0.42	0.49	0.5	0.64	0.25	2.09	0.58
Aug 21	0.73	0.8	0.8	S	0.91	1.28	1.19	0.68	0.64	0.6	0.47	0.51	0.49	0.44	0.4	0.42	0.36	0.36	0.75	2.45	1.25	1.31	1.56	0.63	0.36	2.45	0.83
Aug 22	0.52	0.33	S	0.72	0.59	0.55	0.57	0.81	0.72	0.56	0.44	0.33	0.35	0.32	0.32	0.25	0.31	0.34	0.42	0.37	0.41	0.39	0.43	0.44	0.25	0.81	0.46
Aug 23	0.45	S	0.54	0.5	0.56	0.53	0.53	0.49	0.55	0.49	0.41	0.39	0.36	0.44	0.4	0.36	0.41	0.33	0.29	1.14	0.66	0.79	0.72	0.74	0.29	1.14	0.53
Aug 24	S	0.78	0.68	0.62	0.68	0.75	0.86	0.63	0.59	0.56	0.4	0.39	0.39	0.33	0.39	0.4	0.4	0.38	0.37	0.41	0.52	0.75	0.71	S	0.33	0.86	0.55
Aug 25	0.68	0.58	0.72	0.8	0.83	1.12	1.08	0.97	1.08	1.13	0.55	0.38	0.33	0.34	0.33	0.36	0.33	0.33	0.32	0.31	0.37	0.58	S	0.54	0.31	1.13	0.61
Aug 26	0.52	0.51	0.64	0.74	0.67	0.51	0.52	0.49	0.67	0.46	0.42	0.32	0.24	0.3	0.34	0.34	0.33	0.29	0.28	0.37	0.45	S	0.66	0.55	0.24	0.74	0.46
Aug 27	0.55	0.8	0.78	0.55	0.54	0.69	0.79	0.66	0.61	0.57	0.55	0.46	0.41	0.39	0.39	0.4	0.38	0.36	0.36	0.41	S	0.44	0.41	0.43	0.36	0.80	0.52
Aug 28	0.46	0.65	0.69	0.62	0.58	0.56	0.79	0.63	0.37	0.35	0.34	0.36	0.36	0.38	0.4	0.38	0.38	0.38	0.37	S	0.49	0.44	0.42	0.38	0.34	0.79	0.47
Aug 29	0.34	0.37	0.48	0.43	0.39	0.37	0.38	0.48	0.51	0.55	0.56	0.26	0.25	0.28	0.3	0.27	0.31	0.25	S	0.33	0.3	0.31	0.32	0.3	0.25	0.56	0.36
Aug 30	0.35	0.58	0.73	0.53	0.53	0.6	0.77	0.53	0.34	0.37	0.35	0.23	0.29	0.23	0.21	0.23	0.22	S	0.27	0.28	0.26	0.28	0.27	0.33	0.21	0.77	0.38
Aug 31	0.31	0.29	0.3	0.34	0.36	0.36	0.35	0.33	0.28	0.24	0.23	0.3	0.32	0.3	0.31	0.35	S	0.35	0.48	0.51	0.57	0.51	0.51	0.47	0.23	0.57	0.36
Diurnal Maximum	0.73	0.80	1.11	0.88	1.15	2.09	1.19	1.01	1.08	1.13	0.76	0.62	0.59	0.52	0.53	0.49	0.45	0.46	0.75	2.45	1.25	1.43	2.66	0.87			
Diurnal Average	0.47	0.52	0.54	0.54	0.56	0.63	0.61	0.55	0.52	0.47	0.40	0.36	0.35	0.34	0.34	0.33	0.33	0.34	0.35	0.45	0.45	0.53	0.65	0.50			

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.

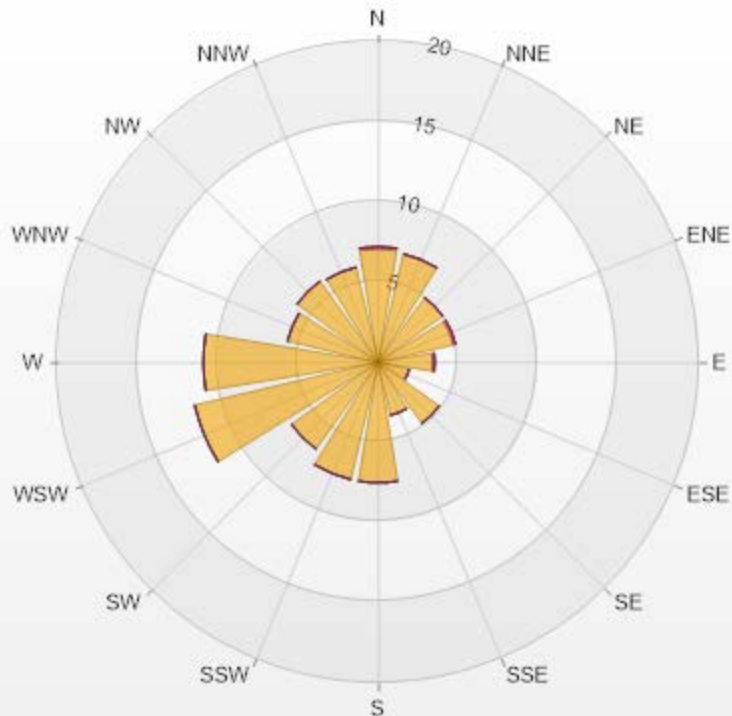
Timeseries Chart of Hourly Average for TRS - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	7.07	0.14	0	0	0	7.21
NNE	6.93	0	0	0	0	6.93
NE	4.95	0	0	0	0	4.95
ENE	4.81	0.14	0	0	0	4.95
E	3.39	0.14	0	0	0	3.53
ESE	1.98	0	0	0	0	1.98
SE	4.67	0	0	0	0	4.67
SSE	3.39	0	0	0	0	3.39
S	7.5	0	0	0	0	7.5
SSW	7.5	0	0	0	0	7.5
SW	6.65	0	0	0	0	6.65
WSW	11.74	0	0	0	0	11.74
W	10.89	0	0	0	0	10.89
WNW	5.8	0	0	0	0	5.8
NW	6.22	0	0	0	0	6.22
NNW	6.08	0	0	0	0	6.08
Summary	100	0.42	0	0	0	100



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% 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 - August 2022

Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

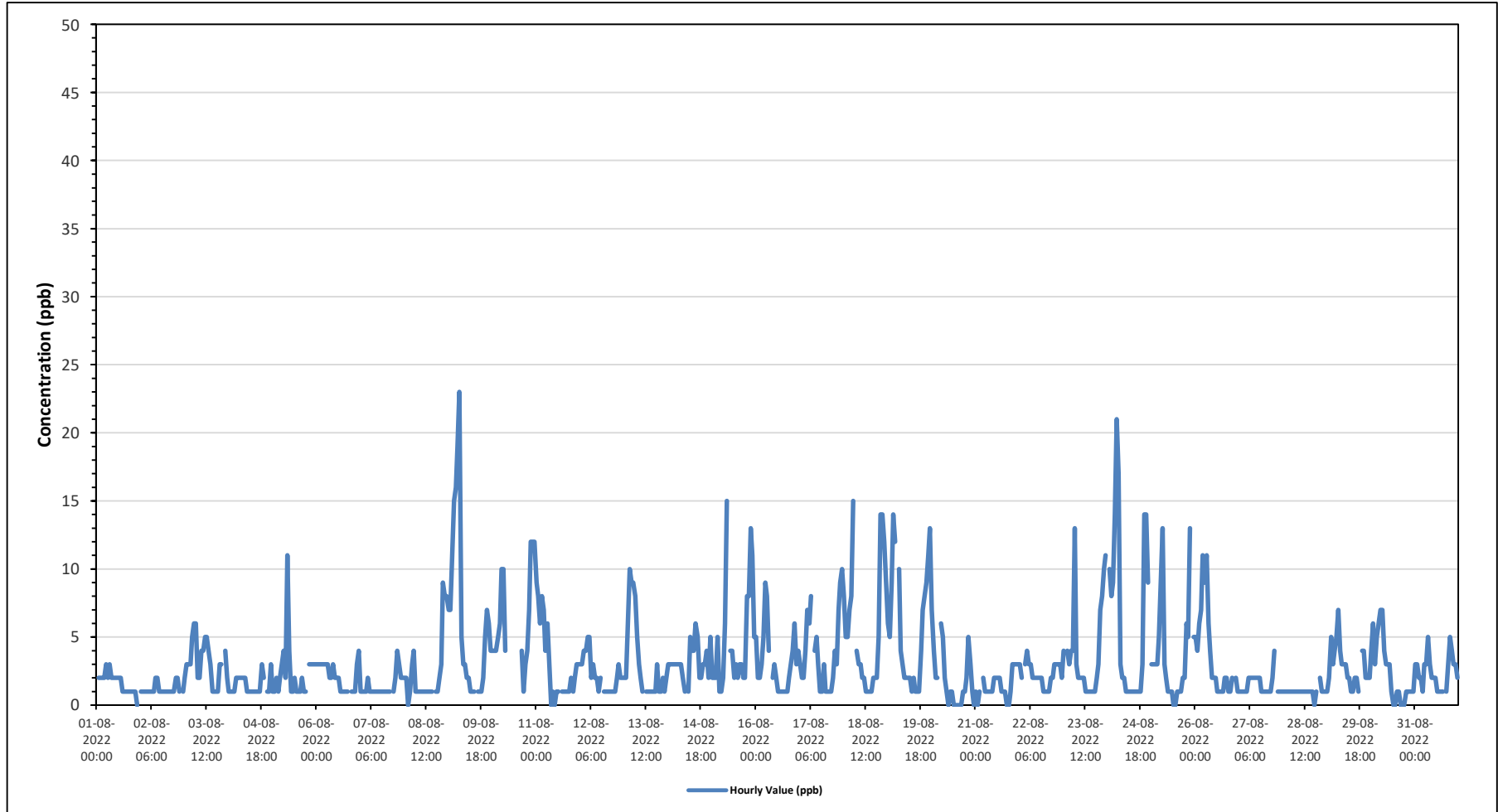
Maximum Hourly Value:	23 ppb on August 9 at hour 6	Hours in Service:	744
Maximum Daily Value:	6.2 ppb on August 9	Hours of Data:	704
Minimum Hourly Value:	0 ppb on August 1 at hour 22	Hours of Missing Data:	0
Minimum Daily Value:	1.0 ppb on August 28	Hours of Calibration:	40
Monthly Average:	3.1 ppb	Operational Uptime:	100.0

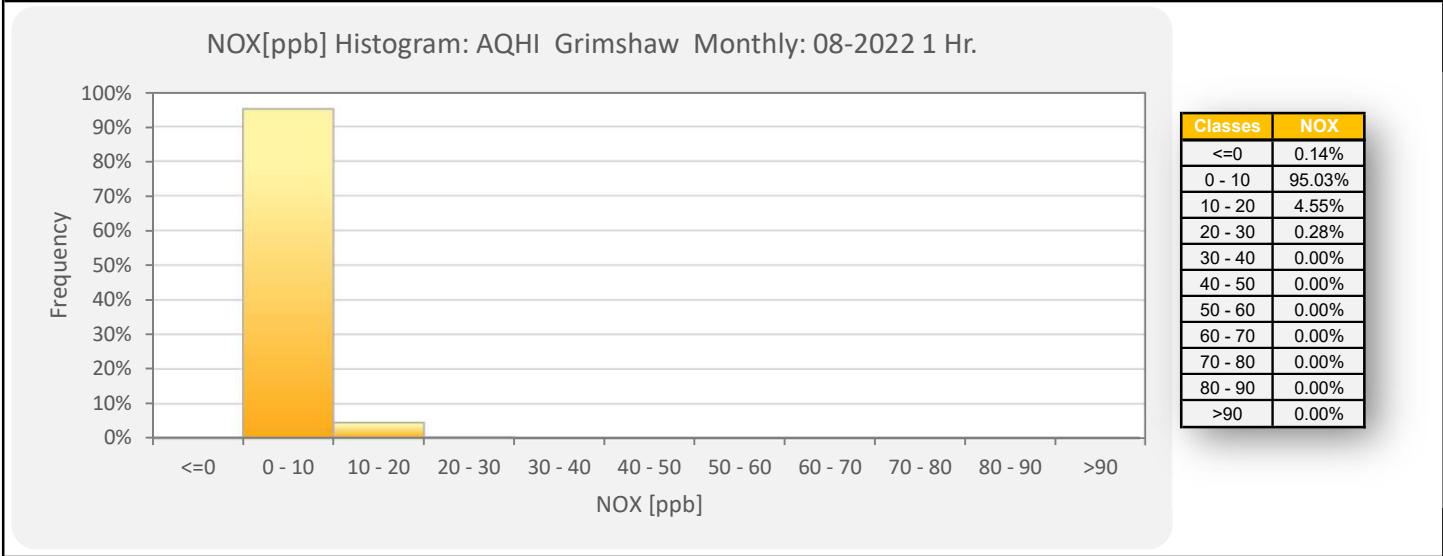
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Aug 1	S	2	2	2	2	3	2	3	2	2	2	2	2	2	1	1	1	1	1	1	1	0	S	0	3	1.6	
Aug 2	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2	1	S	1	1	2	1.2
Aug 3	2	3	3	3	5	6	6	2	2	4	4	5	5	4	3	1	1	1	1	3	3	S	4	2	1	6	3.2
Aug 4	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	3	2	S	1	1	3	1	3	1.5
Aug 5	1	1	2	1	2	3	4	2	11	4	1	1	2	1	1	1	2	1	1	S	3	3	3	3	1	11	2.3
Aug 6	3	3	3	3	3	3	3	2	2	3	2	2	2	1	1	1	1	1	S	1	1	1	3	4	1	4	2.1
Aug 7	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	S	1	2	4	3	2	2	1	4	1.4
Aug 8	2	2	0	1	3	4	1	1	1	1	1	1	1	1	1	1	S	1	1	2	3	9	8	8	0	9	2.3
Aug 9	7	7	11	15	16	19	23	5	3	3	2	2	1	1	1	S	1	1	1	2	5	7	6	4	1	23	6.2
Aug 10	4	4	4	5	6	10	10	4	C	C	C	C	C	C	C	C	4	1	3	4	7	12	12	12	1	12	-
Aug 11	9	8	6	8	7	4	6	3	0	1	0	1	1	S	1	1	1	1	1	2	1	2	3	3	0	9	3.0
Aug 12	3	3	4	4	5	5	2	3	2	2	1	2	S	1	1	1	1	1	1	1	2	3	2	2	1	5	2.3
Aug 13	2	2	6	10	9	9	8	5	3	2	1	S	1	1	1	1	1	1	3	1	1	2	1	2	1	10	3.2
Aug 14	3	3	3	3	3	3	3	3	2	1	S	1	5	4	4	6	5	2	2	3	3	4	2	5	1	6	3.2
Aug 15	2	2	2	5	1	2	6	15	S	4	4	2	3	2	3	3	2	2	8	8	13	11	5	1	15	4.6	
Aug 16	5	2	2	3	5	9	8	4	S	2	3	2	1	1	1	1	1	1	2	3	4	6	3	4	1	9	3.2
Aug 17	3	2	2	4	7	6	S	4	5	3	1	1	3	1	1	1	1	1	2	4	3	7	9	10	1	10	3.8
Aug 18	8	5	5	7	8	15	S	4	3	3	2	2	2	1	1	1	2	2	5	14	14	12	9	1	15	5.5	
Aug 19	6	5	9	14	12	S	10	4	3	2	2	2	2	1	2	1	1	1	4	7	8	9	11	13	1	14	5.6
Aug 20	7	4	2	2	S	6	5	2	1	0	1	1	0	0	0	0	0	1	1	2	5	3	1	0	0	7	1.9
Aug 21	1	0	1	S	2	1	1	1	1	2	2	2	2	2	1	1	1	0	0	1	3	3	3	3	0	3	1.4
Aug 22	3	2	S	3	4	3	3	2	2	2	2	2	2	1	1	1	1	2	2	3	3	3	3	2	1	4	2.3
Aug 23	4	S	4	3	4	4	13	3	2	2	2	2	1	1	1	1	1	1	2	3	7	8	10	11	1	13	3.9
Aug 24	S	10	8	9	14	21	17	3	2	2	1	1	1	1	1	1	1	1	1	3	14	14	9	S	1	21	6.1
Aug 25	3	3	3	3	5	9	13	3	2	1	1	1	0	0	1	1	1	2	2	6	5	13	S	5	0	13	3.6
Aug 26	5	4	6	7	11	9	11	6	4	2	2	2	1	1	1	1	2	2	1	1	2	S	2	1	1	11	3.7
Aug 27	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	2	4	S	1	1	1	1	4	1.5
Aug 28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	S	2	1	1	1	0	2	1.0
Aug 29	1	2	5	3	4	5	7	4	3	3	3	2	2	1	1	2	2	1	S	4	4	2	2	2	1	7	2.8
Aug 30	4	6	3	5	6	7	7	4	3	3	3	1	0	0	1	1	0	S	0	1	1	1	1	1	0	7	2.6
Aug 31	3	3	2	2	1	3	3	5	3	2	2	2	1	1	1	1	S	1	3	5	4	3	3	2	1	5	2.4
Diurnal Maximum	9	10	11	15	16	21	23	6	15	5	4	5	5	4	4	6	5	2	4	8	14	14	12	13			
Diurnal Average	3.3	3.1	3.4	4.3	5.1	5.8	6.1	3.0	2.9	2.1	1.8	1.7	1.4	1.3	1.2	1.2	1.4	1.1	1.6	3.0	4.2	5.2	4.4	4.2			

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.

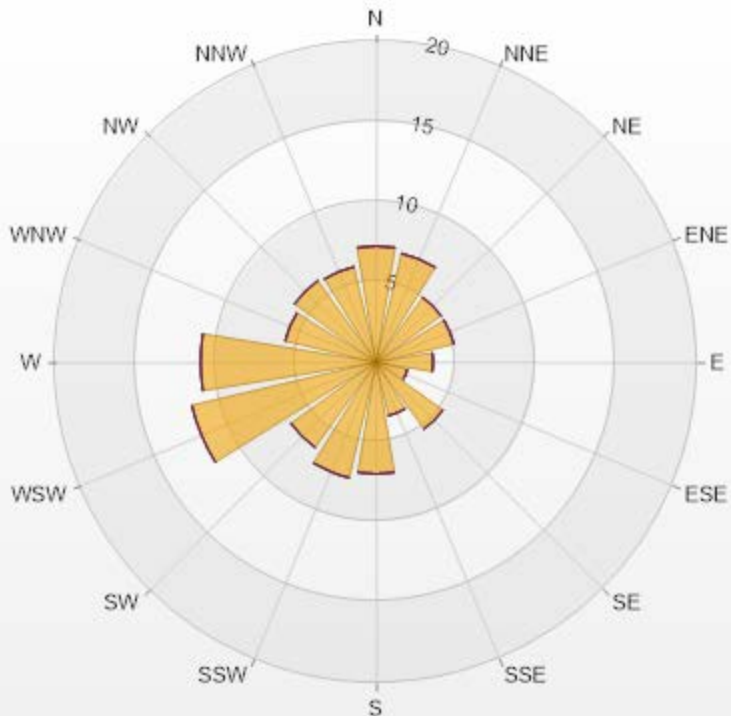
Timeseries Chart of Hourly Average for NOx - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.62% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	7.24	0	0	0	0	7.24
NNE	6.96	0	0	0	0	6.96
NE	4.97	0	0	0	0	4.97
ENE	4.97	0	0	0	0	4.97
E	3.55	0	0	0	0	3.55
ESE	1.99	0	0	0	0	1.99
SE	5.11	0	0	0	0	5.11
SSE	3.41	0	0	0	0	3.41
S	6.96	0	0	0	0	6.96
SSW	7.39	0	0	0	0	7.39
SW	6.53	0	0	0	0	6.53
WSW	11.79	0	0	0	0	11.79
W	10.94	0	0	0	0	10.94
WNW	5.82	0	0	0	0	5.82
NW	6.25	0	0	0	0	6.25
NNW	6.11	0	0	0	0	6.11
Summary	100	0	0	0	0	100



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% 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 - August 2022

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

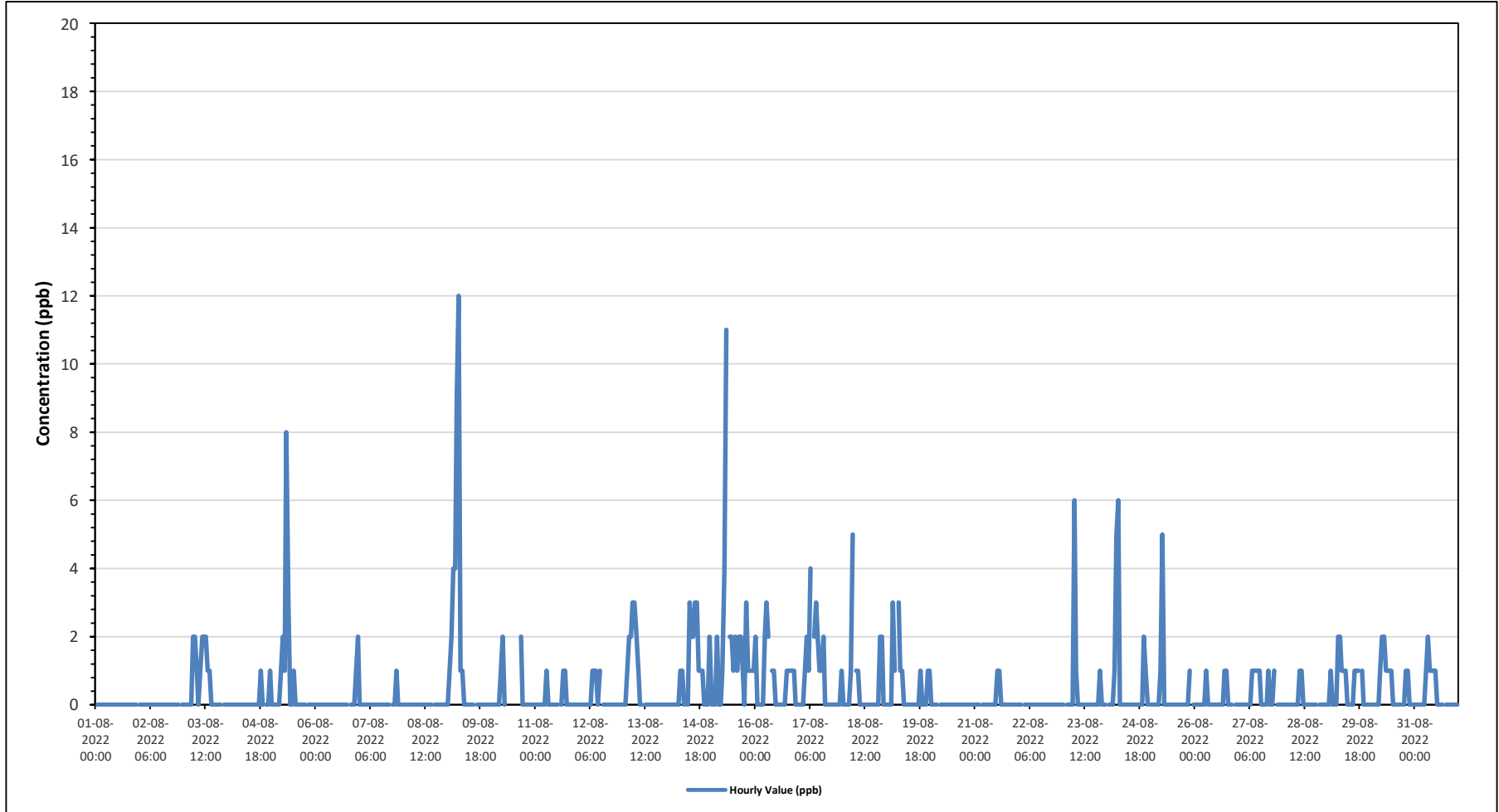
Maximum Hourly Value:	12 ppb on August 9 at hour 6	Hours in Service:	744
Maximum Daily Value:	1.7 ppb on August 15	Hours of Data:	704
Minimum Hourly Value:	0 ppb on August 1 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	0.0 ppb on August 1	Hours of Calibration:	40
Monthly Average:	0.4 ppb	Operational Uptime:	100.0

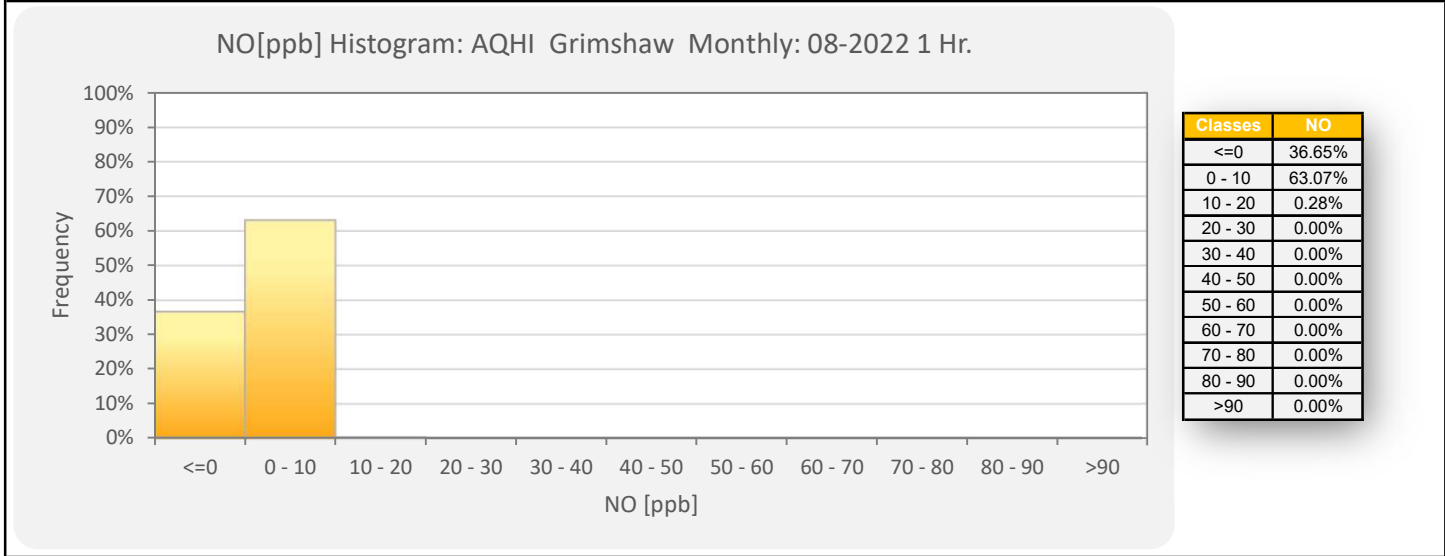
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Aug 1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0	
Aug 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0	
Aug 3	0	0	0	0	0	2	2	1	0	1	2	2	2	1	1	0	0	0	0	0	0	S	0	0	2	0.6	
Aug 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	S	0	0	1	0.1		
Aug 5	0	0	0	0	0	1	2	1	8	3	0	0	1	0	0	0	0	0	S	0	0	0	0	0	8	0.7	
Aug 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	2	0.1		
Aug 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0	0	0	1	0.0	
Aug 8	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	
Aug 9	0	1	2	4	4	9	12	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1.5	
Aug 10	0	0	0	0	0	1	2	0	C	C	C	C	C	C	C	C	2	0	0	0	0	0	0	0	0	-	
Aug 11	0	0	0	0	0	0	1	0	0	0	0	0	S	0	1	1	0	0	0	0	0	0	0	0	1	0.1	
Aug 12	0	0	0	0	0	0	0	1	1	1	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0.2	
Aug 13	0	0	1	2	2	3	3	2	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	
Aug 14	0	0	0	0	0	0	0	1	1	0	S	0	3	2	2	3	3	1	1	1	0	0	0	2	0	0.9	
Aug 15	0	0	0	2	0	0	1	4	11	S	2	2	1	2	1	2	2	1	0	3	1	1	1	1	0	1.7	
Aug 16	2	0	0	0	0	2	3	2	S	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	3	0.7	
Aug 17	0	0	0	1	2	1	4	S	2	3	2	1	1	2	0	0	0	0	0	0	0	0	0	1	0	0.9	
Aug 18	0	0	0	0	1	5	S	1	1	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	5	0.5	
Aug 19	0	0	0	3	1	S	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	3	0.5	
Aug 20	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	
Aug 21	0	0	0	S	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1	
Aug 22	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	
Aug 23	0	S	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6	0.3	
Aug 24	S	0	0	0	1	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	S	6	0.7	
Aug 25	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	5	0.3	
Aug 26	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	S	0	0	1	0.1	
Aug 27	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0	1	S	0	0	0	1	0.3	
Aug 28	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.1
Aug 29	0	0	1	0	0	0	2	2	1	1	1	0	0	0	0	1	1	1	S	1	0	0	0	0	0	2	0.5
Aug 30	0	0	0	0	0	1	2	2	1	1	1	1	0	0	0	0	0	S	0	1	1	0	0	0	0	2	0.5
Aug 31	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	2	0.3
Diurnal Maximum	2	1	2	4	4	9	12	4	11	3	2	2	3	2	2	3	3	1	1	3	2	2	1	2			
Diurnal Average	0.1	0.0	0.1	0.4	0.4	1.0	1.9	0.8	1.1	0.5	0.4	0.3	0.3	0.3	0.1	0.2	0.4	0.2	0.1	0.3	0.3	0.2	0.1	0.3			

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.

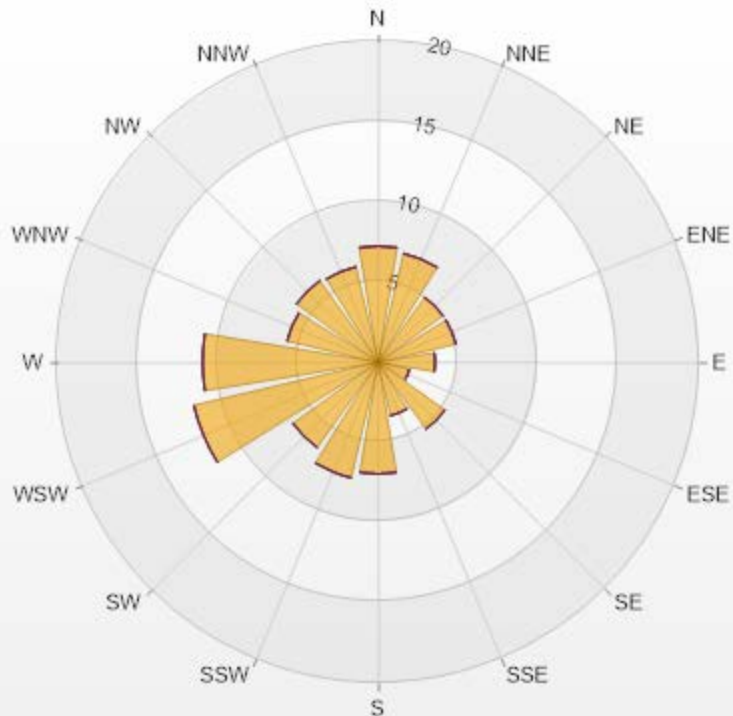
Timeseries Chart of Hourly Average for NO - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.62% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	7.24	0	0	0	0	7.24
NNE	6.96	0	0	0	0	6.96
NE	4.97	0	0	0	0	4.97
ENE	4.97	0	0	0	0	4.97
E	3.55	0	0	0	0	3.55
ESE	1.99	0	0	0	0	1.99
SE	5.11	0	0	0	0	5.11
SSE	3.41	0	0	0	0	3.41
S	6.96	0	0	0	0	6.96
SSW	7.39	0	0	0	0	7.39
SW	6.53	0	0	0	0	6.53
WSW	11.79	0	0	0	0	11.79
W	10.94	0	0	0	0	10.94
WNW	5.82	0	0	0	0	5.82
NW	6.25	0	0	0	0	6.25
NNW	6.11	0	0	0	0	6.11
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100  0-30

0  30-50

0  50-76

0  76-159

0  >159.0



PEACE RIVER AREA MONITORING PROGRAM

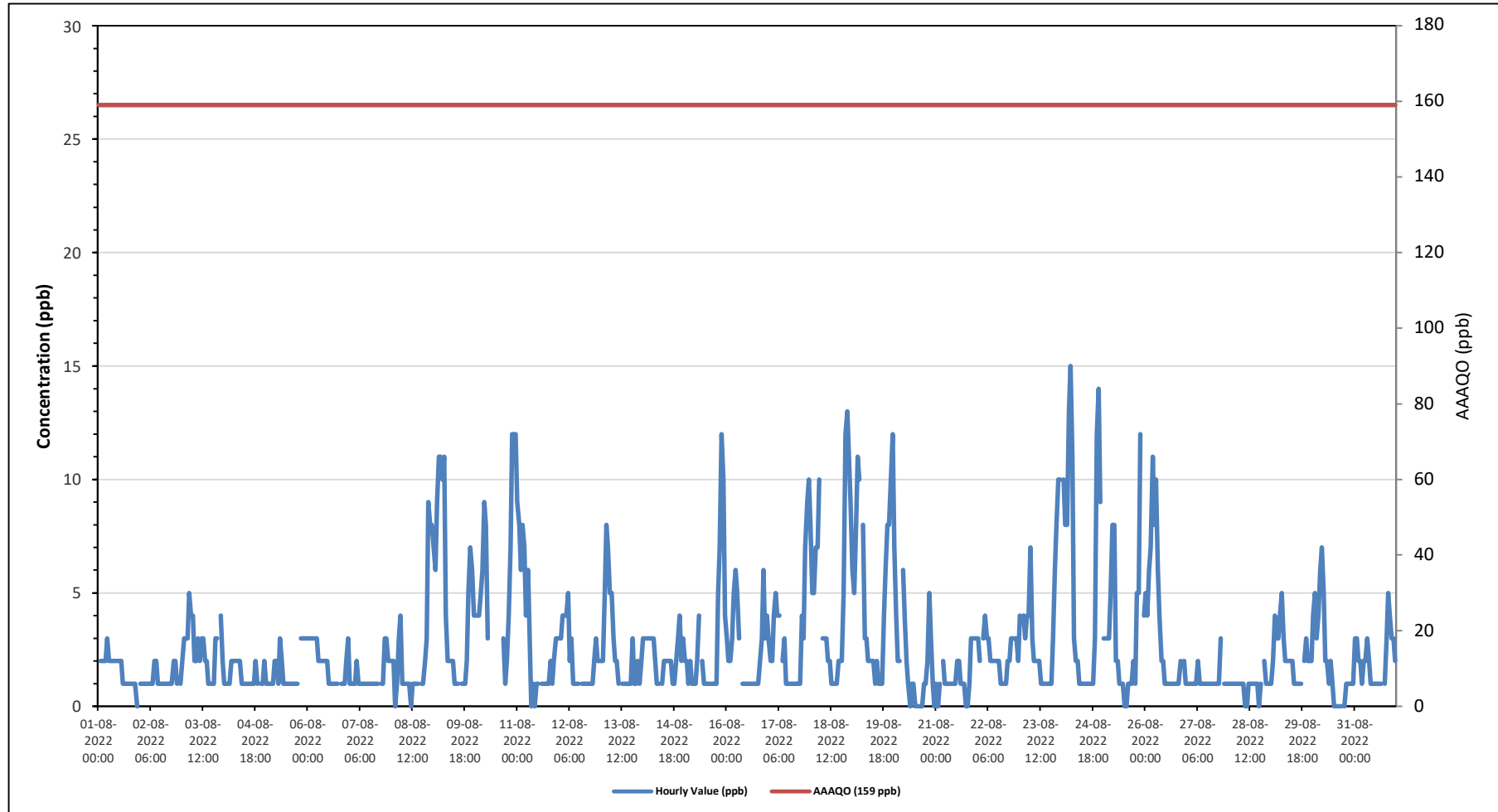
AQHI - Grimshaw Station - August 2022

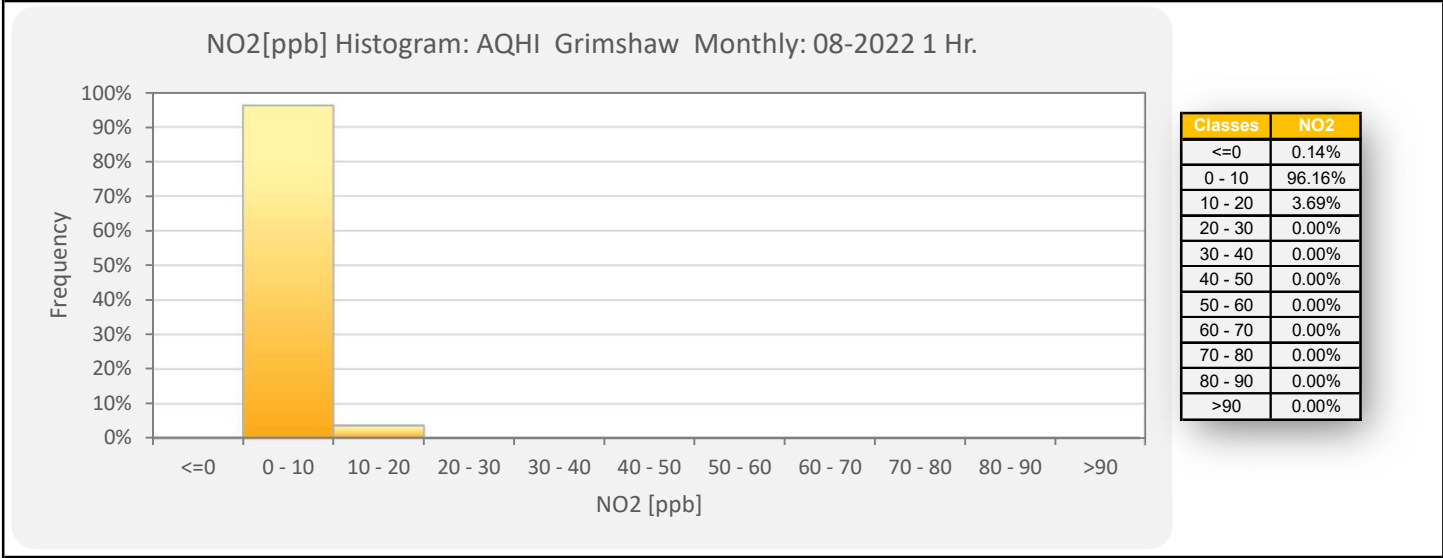
Summary of Hourly Averages

NITROGEN DIOXIDE (NO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 159 ppb																																															
Number of 1-Hour Exceedances: 0																																															
Maximum Hourly Value: 15 ppb on August 24 at hour 5												Hours in Service: 744																																			
Maximum Daily Value: 5.4 ppb on August 24												Hours of Data: 704																																			
Minimum Hourly Value: 0 ppb on August 1 at hour 22												Hours of Missing Data: 0																																			
Minimum Daily Value: 0.9 ppb on August 28												Hours of Calibration: 40																																			
Monthly Average: 2.6 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																				
Aug 1	S	2	2	2	2	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	0	S	0	3	1.6																					
Aug 2	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2	2	1	S	1	1	2	1.2																				
Aug 3	2	3	3	3	5	4	4	2	2	3	2	3	3	2	2	1	1	1	1	3	3	S	4	2	1	5	2.6																				
Aug 4	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	1	S	1	1	2	1	2	1.3																				
Aug 5	1	1	1	1	1	2	2	1	3	2	1	1	1	1	1	1	1	1	1	S	3	3	3	3	1	3	1.6																				
Aug 6	3	3	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1	S	1	1	1	2	3	1	3	1.9																				
Aug 7	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	3	3	2	2	1	3	1.3																				
Aug 8	2	2	0	1	3	4	1	1	1	1	0	1	1	1	1	1	S	1	1	2	3	9	8	8	0	9	2.3																				
Aug 9	7	6	9	11	11	10	11	4	2	2	2	2	1	1	1	S	1	1	1	2	5	7	6	4	1	11	4.7																				
Aug 10	4	4	4	5	6	9	8	3	C	C	C	C	C	C	C	C	3	1	2	4	7	12	12	12	1	12	-																				
Aug 11	9	8	6	8	7	4	6	3	0	1	0	1	1	S	1	1	1	1	1	2	1	2	3	3	0	9	3.0																				
Aug 12	3	3	4	4	4	5	2	3	1	1	1	1	S	1	1	1	1	1	1	1	2	3	2	2	1	5	2.1																				
Aug 13	2	2	5	8	7	5	5	3	2	2	1	S	1	1	1	1	1	1	3	1	1	2	1	2	1	8	2.5																				
Aug 14	3	3	3	3	3	3	3	2	1	1	S	1	2	2	2	2	2	1	1	2	3	4	2	3	1	4	2.3																				
Aug 15	2	2	1	2	1	1	1	2	4	S	2	1	1	1	1	1	1	1	1	5	7	12	10	4	1	12	2.8																				
Aug 16	3	2	2	3	5	6	5	3	S	1	1	1	1	1	1	1	1	1	1	2	3	6	3	4	1	6	2.5																				
Aug 17	3	2	2	4	5	4	S	2	3	1	1	1	1	1	1	1	1	1	1	4	3	7	9	10	1	10	3.1																				
Aug 18	8	5	5	7	10	S	3	3	3	2	2	1	1	1	1	2	2	2	5	12	13	11	9	1	13	5.0																					
Aug 19	6	5	8	11	10	S	8	3	3	2	2	2	2	1	2	1	1	1	4	6	8	8	10	12	1	12	5.0																				
Aug 20	7	4	2	2	S	6	4	2	1	0	1	1	0	0	0	0	0	1	1	2	5	3	1	0	0	7	1.9																				
Aug 21	1	0	1	S	2	1	1	1	1	1	1	1	2	2	1	1	1	0	0	1	3	3	3	3	0	3	1.3																				
Aug 22	3	2	S	3	4	3	3	2	2	2	2	2	2	1	1	1	1	2	2	3	3	3	3	2	1	4	2.3																				
Aug 23	4	S	4	3	4	4	7	3	2	2	2	2	1	1	1	1	1	1	1	3	6	8	10	10	1	10	3.5																				
Aug 24	S	10	8	8	13	15	11	3	2	2	1	1	1	1	1	1	1	1	1	3	12	14	9	S	1	15	5.4																				
Aug 25	3	3	3	3	5	8	8	2	2	1	1	1	0	0	1	1	2	1	5	5	12	S	4	4	0	12	3.1																				
Aug 26	5	4	6	7	11	8	10	6	4	2	2	1	1	1	1	1	1	1	1	2	S	2	1	1	1	11	3.4																				
Aug 27	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	3	S	1	1	1	1	3	1.1																				
Aug 28	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	1	1	S	2	1	1	1	0	2	0.9																				
Aug 29	1	2	4	3	3	4	5	3	2	2	2	2	2	1	1	1	1	1	S	3	2	2	2	2	1	5	2.2																				
Aug 30	4	5	3	4	6	7	5	2	2	1	2	1	0	0	0	0	0	S	0	1	1	1	1	1	0	7	2.0																				
Aug 31	3	3	2	2	1	2	2	3	2	1	1	1	1	1	1	S	1	3	5	4	3	3	2	1	5	2.1																					
Diurnal Maximum	9	10	9	11	13	15	11	6	4	3	2	3	3	2	2	3	2	4	6	12	14	12	12	12	12	12	12																				
Diurnal Average	3.2	3.0	3.2	3.9	4.5	4.6	4.2	2.3	1.9	1.6	1.3	1.3	1.2	1.0	1.0	1.0	1.1	1.0	1.3	2.6	3.9	5.0	4.3	3.9	3.9	3.9																					
C	Monthly Calibration											S	Daily Zero-Span Check											Q	Quality Assurance																						
K	Collection Error											N	No Data (Machine Not in Service)											Y	Routine Maintenance											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.																																															

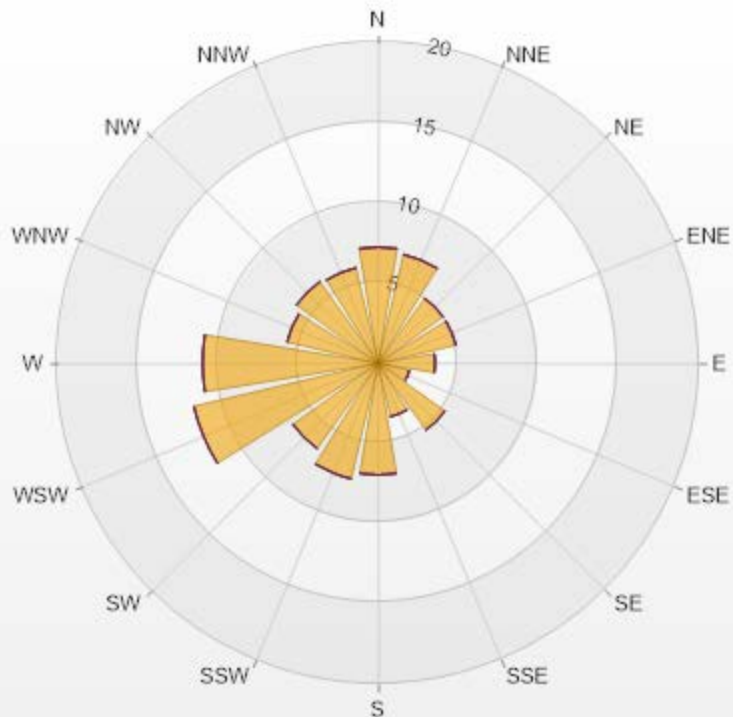
Timeseries Chart of Hourly Average for NO2 - AQHI - Grimshaw Station





Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.62% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	7.24	0	0	0	0	7.24
NNE	6.96	0	0	0	0	6.96
NE	4.97	0	0	0	0	4.97
ENE	4.97	0	0	0	0	4.97
E	3.55	0	0	0	0	3.55
ESE	1.99	0	0	0	0	1.99
SE	5.11	0	0	0	0	5.11
SSE	3.41	0	0	0	0	3.41
S	6.96	0	0	0	0	6.96
SSW	7.39	0	0	0	0	7.39
SW	6.53	0	0	0	0	6.53
WSW	11.79	0	0	0	0	11.79
W	10.94	0	0	0	0	10.94
WNW	5.82	0	0	0	0	5.82
NW	6.25	0	0	0	0	6.25
NNW	6.11	0	0	0	0	6.11
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100  0-30

0  30-50

0  50-76

0  76-159

0  >159.0



PEACE RIVER AREA MONITORING PROGRAM

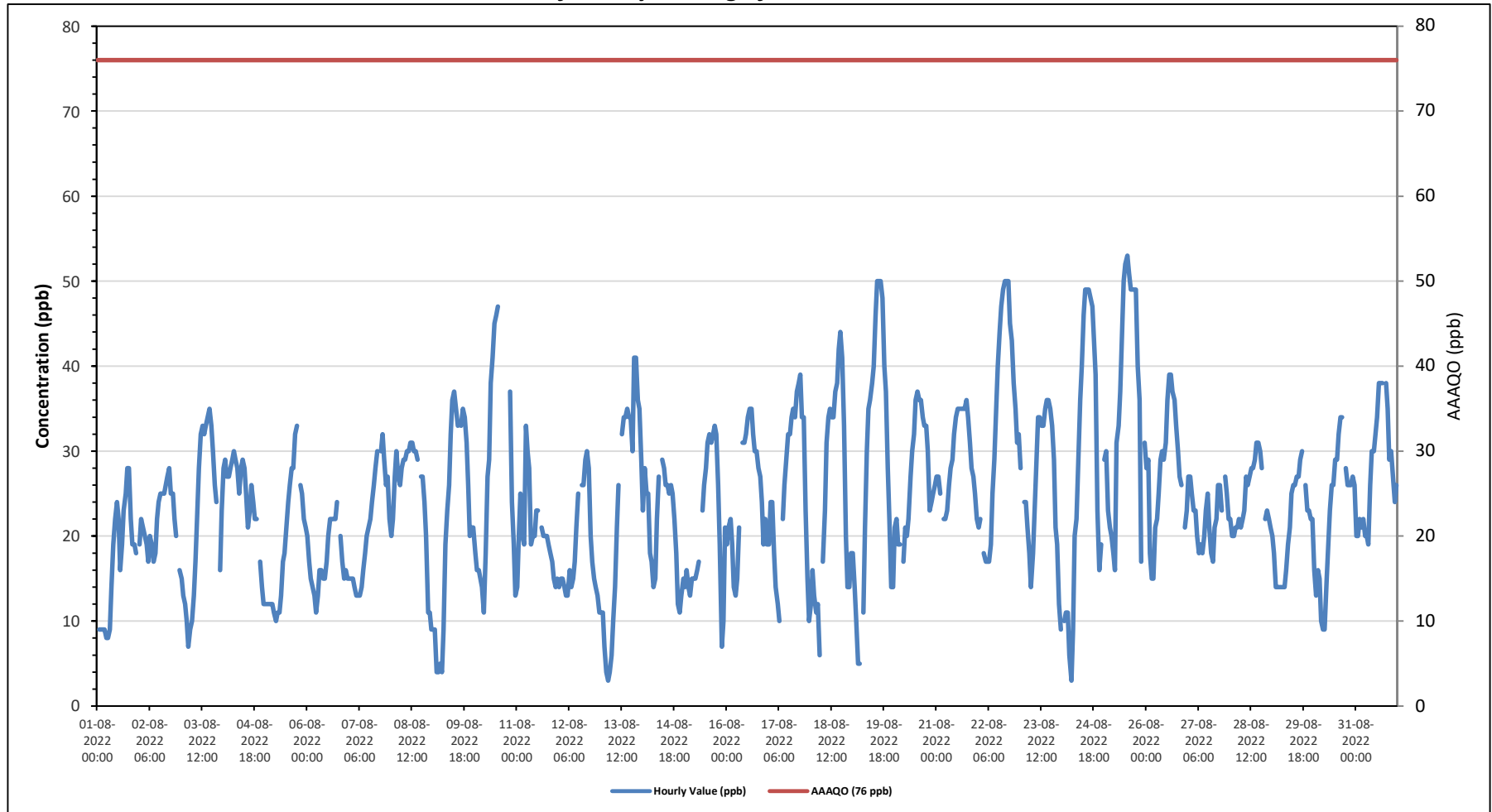
AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

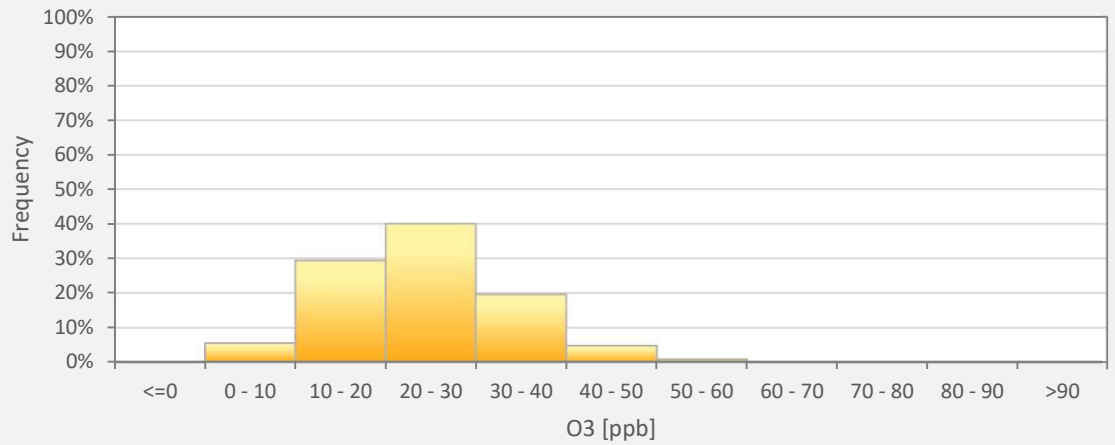
OZONE (O₃) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 76 ppb																																																			
Number of 1-Hour Exceedances: 0																																																			
Maximum Hourly Value: 53 ppb on August 25 at hour 13												Hours in Service: 744																																							
Maximum Daily Value: 36.0 ppb on August 25												Hours of Data: 706																																							
Minimum Hourly Value: 3 ppb on August 13 at hour 4												Hours of Missing Data: 0																																							
Minimum Daily Value: 17.2 ppb on August 1												Hours of Calibration: 38																																							
Monthly Average: 24.3 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																											
Aug 1	S	9	9	9	9	8	8	9	14	19	22	24	22	16	19	23	25	28	28	22	19	19	18	S	S	8.0	28.0	17.2																							
Aug 2	19	22	21	20	19	17	20	19	17	18	22	24	25	25	26	27	28	25	25	22	20	S	S	16	16.0	28.0	21.8																								
Aug 3	15	13	12	10	7	9	10	13	17	22	28	32	33	32	33	34	35	33	30	26	24	S	16	23	7.0	35.0	22.0																								
Aug 4	28	29	27	27	28	29	30	29	28	25	28	29	28	25	21	23	26	24	22	S	17	14	12	12.0	30.0	24.8																									
Aug 5	12	12	12	12	12	11	10	11	11	13	17	18	21	24	26	28	28	32	33	S	26	25	22	21	10.0	33.0	19.0																								
Aug 6	20	17	15	14	13	11	13	16	16	15	15	17	20	22	22	22	24	S	20	17	15	16	15	11.0	24.0	17.3																									
Aug 7	15	15	15	14	13	13	13	14	16	18	20	21	22	24	26	28	30	S	30	32	29	26	27	22	13.0	32.0	21.0																								
Aug 8	20	22	27	30	27	26	28	29	29	30	30	31	31	30	30	S	27	27	24	20	11	11	9	9.0	31.0	25.1																									
Aug 9	9	9	4	4	5	4	9	19	23	26	32	36	37	35	33	S	33	35	34	31	26	20	21	21	4.0	37.0	22.0																								
Aug 10	18	16	16	15	14	11	18	27	29	38	41	45	46	47	S	C	C	C	C	C	37	24	19	13	11.0	47.0	26.3																								
Aug 11	14	20	25	20	19	33	30	28	19	20	20	23	S	21	20	20	20	19	18	17	15	14	15	14.0	33.0	20.6																									
Aug 12	14	15	15	14	13	13	16	14	15	17	21	25	S	26	26	29	30	28	20	17	15	14	13	11	11.0	30.0	18.3																								
Aug 13	11	11	7	4	3	4	6	10	14	21	26	S	32	34	34	35	34	34	30	41	41	36	35	29	3.0	41.0	23.1																								
Aug 14	23	28	25	25	18	17	14	15	22	27	S	29	28	26	26	25	26	25	22	18	12	11	13	15	11.0	29.0	21.3																								
Aug 15	14	16	14	13	15	15	15	16	17	S	23	26	28	31	32	31	32	33	32	26	19	7	10	21	7.0	33.0	21.1																								
Aug 16	19	21	22	19	14	13	15	21	S	31	31	32	34	35	35	32	30	30	28	27	24	19	22	19	13.0	35.0	24.9																								
Aug 17	19	24	24	18	14	12	10	S	22	26	29	32	32	34	35	34	37	38	39	34	34	23	15	10	10.0	39.0	25.9																								
Aug 18	12	16	13	11	12	6	S	17	23	31	34	35	34	34	37	38	42	44	41	33	20	14	14	18	6.0	44.0	25.2																								
Aug 19	18	14	10	5	5	S	11	21	30	35	36	38	40	46	50	50	50	48	40	37	28	22	14	14	5.0	50.0	28.8																								
Aug 20	21	22	19	19	S	17	21	20	22	27	30	32	36	37	36	36	34	33	33	30	23	24	25	26	17.0	37.0	27.1																								
Aug 21	27	27	25	S	22	22	23	26	28	29	32	34	35	35	35	35	36	34	31	28	27	25	22	22.0	36.0	29.3																									
Aug 22	21	22	S	18	17	17	17	19	25	29	35	40	44	47	49	50	50	50	45	43	38	35	31	32	17.0	50.0	33.7																								
Aug 23	28	S	24	24	21	18	14	18	23	28	34	34	33	33	35	36	36	35	33	29	21	19	12	9	9.0	36.0	26.0																								
Aug 24	S	10	11	11	6	3	9	20	22	28	36	40	46	49	49	49	48	47	43	39	23	16	19	S	3.0	49.0	28.4																								
Aug 25	29	30	23	21	20	18	16	31	33	37	44	50	52	53	51	49	49	49	49	40	36	17	S	31	16.0	53.0	36.0																								
Aug 26	28	29	18	15	15	21	22	25	29	30	29	31	36	39	39	37	36	33	30	27	26	S	21	23	15.0	39.0	27.8																								
Aug 27	27	27	25	23	23	20	18	19	18	20	23	25	21	18	17	21	22	26	26	23	S	27	25	22	17.0	27.0	22.4																								
Aug 28	22	20	20	21	21	22	21	22	23	27	26	27	28	28	29	31	31	30	28	S	23	22	21	21	20.0	31.0	24.6																								
Aug 29	20	18	14	14	14	14	14	16	19	21	25	26	26	27	27	29	30	S	26	23	23	22	22	14.0	30.0	21.0																									
Aug 30	16	13	16	15	10	9	15	19	23	26	26	29	29	32	34	34	S	28	26	26	27	27	26	9.0	34.0	22.3																									
Aug 31	20	20	22	21	22	20	19	26	30	30	32	34	38	38	38	S	38	35	29	30	27	24	26	19.0	38.0	27.8																									
Diurnal Maximum	29	30	27	30	28	33	30	31	33	38	44	50	52	53	51	50	50	50	49	43	41	36	35	32																											
Diurnal Average	19.3	18.9	17.7	16.2	15.0	15.1	16.0	19.2	21.5	25.3	28.0	30.4	31.9	32.6	32.3	32.8	33.3	33.5	31.6	28.4	25.0	20.8	19.6	19.4																											
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



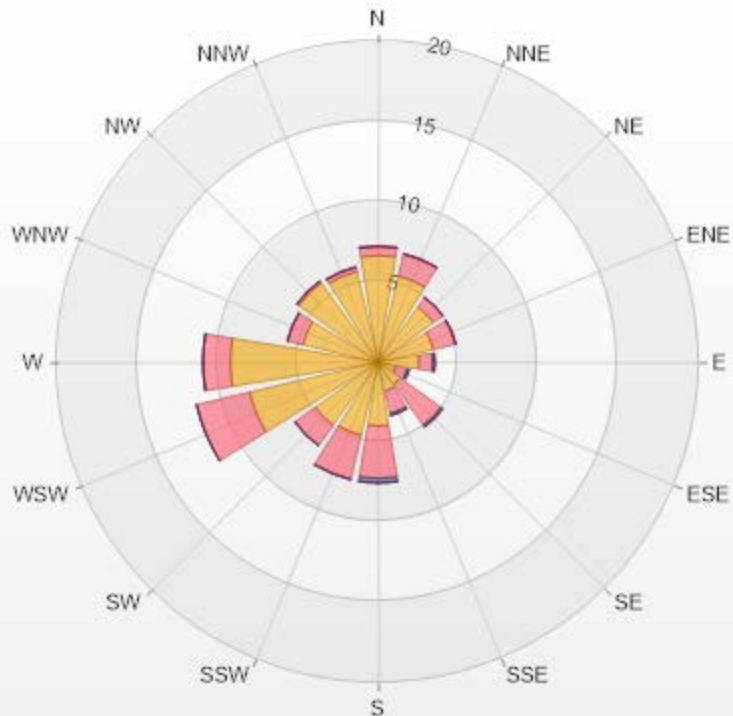
O3[ppb] Histogram: AQHI Grimshaw Monthly: 08-2022 1 Hr.



Classes	O3
<=0	0.00%
0 - 10	5.52%
10 - 20	29.32%
20 - 30	39.94%
30 - 40	19.55%
40 - 50	4.82%
50 - 60	0.85%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.66	0.57	0	0	0	7.23
NNE	5.52	1.42	0	0	0	6.94
NE	4.25	0.71	0	0	0	4.96
ENE	3.54	1.42	0	0	0	4.96
E	2.55	0.85	0.14	0	0	3.54
ESE	1.13	0.71	0.14	0	0	1.98
SE	1.7	3.12	0.14	0	0	4.96
SSE	1.84	1.42	0.14	0	0	3.4
S	3.97	3.26	0.28	0	0	7.51
SSW	4.67	2.83	0	0	0	7.5
SW	4.82	1.56	0	0	0	6.38
WSW	8.22	3.4	0	0	0	11.62
W	9.21	1.7	0	0	0	10.91
WNW	4.82	0.99	0	0	0	5.81
NW	6.09	0.14	0	0	0	6.23
NNW	5.81	0.28	0	0	0	6.09
Summary	74.8	24.38	0.84	0	0	100



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% Icon Classes (ppb)

75 0-30

24 30-50

1 50-76

0 76-159

0 >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

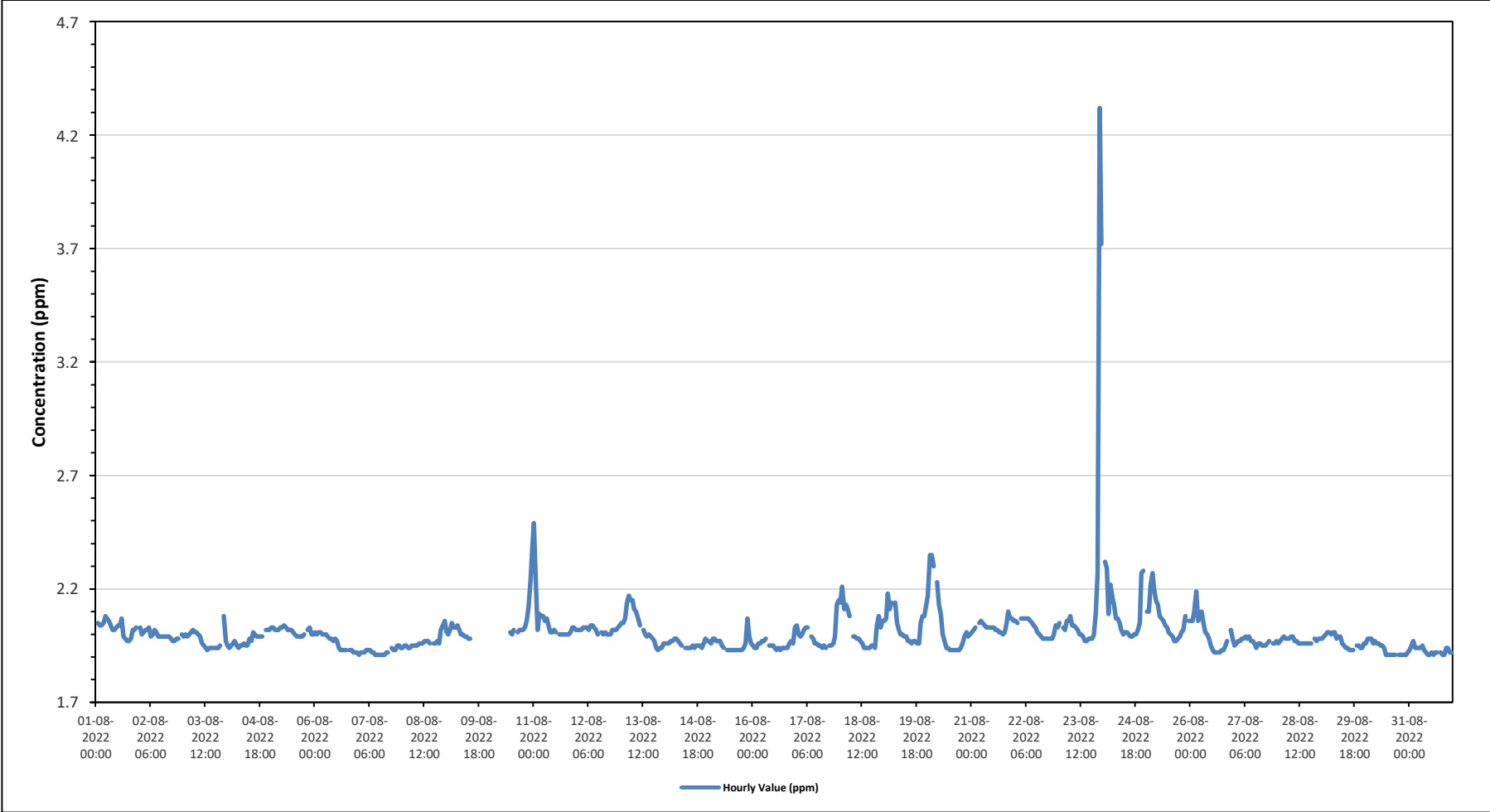
Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

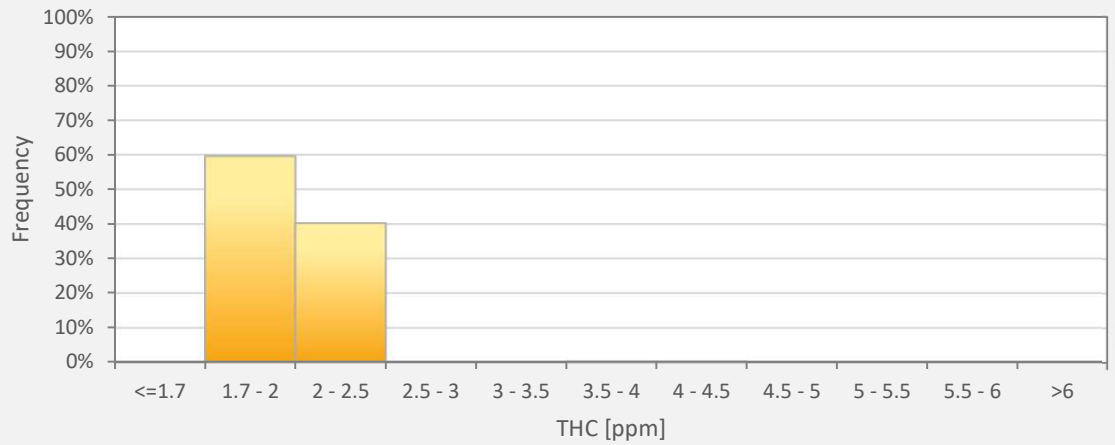
Maximum Hourly Value:	4.32 ppm on August 23 at hour 22	Hours in Service:	744
Maximum Daily Value:	2.20 ppm on August 23	Hours of Data:	690
Minimum Hourly Value:	1.91 ppm on August 7 at hour 0	Hours of Missing Data:	14
Minimum Daily Value:	1.92 ppm on August 7	Hours of Calibration:	40
Monthly Average:	2.00 ppm	Operational Uptime:	98.1

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																
Aug 1	S	2.05	2.04	2.04	2.05	2.08	2.07	2.06	2.04	2.02	2.02	2.03	2.04	2.04	2.07	1.99	1.98	1.97	1.97	1.98	2.02	2.02	2.03	S	1.97	2.08	2.03																
Aug 2	2.03	2.00	2.01	2.02	2.02	2.03	1.99	2.00	2.02	2.01	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	1.98	1.98	S	2.00	1.97	2.03	2.00															
Aug 3	1.99	2.00	1.99	2.00	2.01	2.02	2.01	2.01	2.00	1.99	1.96	1.95	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	S	2.08	1.97	1.93	2.08	1.98															
Aug 4	1.95	1.94	1.95	1.96	1.97	1.95	1.94	1.95	1.95	1.96	1.95	1.95	1.98	1.97	2.01	2.00	1.99	1.99	1.99	1.99	1.99	S	2.02	2.02	2.02	1.94	2.02	1.97															
Aug 5	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.04	2.03	2.02	2.02	2.01	1.99	1.99	1.99	1.99	1.99	2.00	S	2.02	2.03	2.00	2.00	1.99	2.04	2.01	1.99	2.01															
Aug 6	2.01	2.00	2.01	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.97	1.98	1.97	1.94	1.93	1.93	1.93	1.93	S	1.93	1.93	1.92	1.92	1.92	1.92	1.92	2.01	1.96															
Aug 7	1.91	1.92	1.92	1.92	1.93	1.93	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.92	S	1.94	1.93	1.93	1.95	1.95	1.94	1.91	1.95	1.92	1.92															
Aug 8	1.94	1.95	1.95	1.94	1.94	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.97	1.97	1.96	S	1.96	1.96	1.97	1.96	1.97	1.96	2.02	2.04	2.06	1.94	2.06	1.97															
Aug 9	2.01	2.00	2.02	2.05	2.03	2.03	2.04	2.02	2.00	2.00	1.99	1.98	1.98	C	C	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	1.98	2.05	-	-															
Aug 10	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	2.01	2.00	2.02	S	2.01	2.02	2.02	2.02	2.03	2.06	2.12	2.23	2.38	2.00	2.38	-	-															
Aug 11	2.49	2.24	2.02	2.09	2.08	2.08	2.06	2.07	2.04	2.01	2.01	2.02	2.01	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.03	2.03	2.02	2.00	2.49	2.06															
Aug 12	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.04	2.04	2.03	2.02	2.00	S	2.01	2.00	2.01	2.00	2.00	2.00	2.00	2.02	2.02	2.02	2.03	2.04	2.00	2.04	2.02															
Aug 13	2.05	2.05	2.07	2.14	2.17	2.15	2.15	2.11	2.10	2.07	2.04	S	2.02	2.00	1.99	2.00	1.99	1.98	1.97	1.94	1.93	1.94	1.94	1.96	1.93	2.17	2.03	2.03															
Aug 14	1.96	1.96	1.96	1.97	1.97	1.98	1.98	1.97	1.96	1.95	S	1.94	1.94	1.94	1.94	1.95	1.94	1.95	1.95	1.95	1.94	1.96	1.98	1.97	1.94	1.98	1.96	1.96															
Aug 15	1.97	1.96	1.98	1.98	1.97	1.97	1.97	1.95	1.94	S	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.96	2.07	1.99	1.96	1.93	2.07	1.96	1.96															
Aug 16	1.95	1.94	1.94	1.96	1.96	1.97	1.97	1.98	S	1.95	1.95	1.95	1.94	1.93	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.96	1.97	1.96	2.03	1.93	2.03	1.95															
Aug 17	2.04	2.00	1.99	2.00	2.02	2.03	2.03	S	1.99	1.98	1.96	1.96	1.95	1.95	1.94	1.95	1.94	NRM	1.95	1.95	1.96	1.99	2.13	2.15	1.94	2.15	1.99	1.99															
Aug 18	2.14	2.21	2.11	2.13	2.11	2.08	S	1.99	1.99	1.98	1.98	1.97	1.96	1.94	1.94	1.94	1.94	1.95	1.95	1.94	2.04	2.08	2.03	2.06	1.94	2.21	2.02	2.02															
Aug 19	2.06	2.07	2.18	2.11	2.14	S	2.14	2.05	2.02	2.00	2.00	1.99	1.99	1.97	1.96	1.97	1.97	1.96	1.96	1.96	2.05	2.08	2.08	2.13	1.96	2.18	2.04	2.04															
Aug 20	2.17	2.35	2.35	2.30	S	2.23	2.13	2.09	2.00	1.97	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.96	1.99	2.01	1.99	2.00	1.93	2.35	2.04	2.04															
Aug 21	2.01	2.02	2.03	S	2.05	2.06	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.01	2.05	2.10	2.07	2.07	2.06	2.00	2.10	2.04	2.04															
Aug 22	2.06	2.05	S	2.07	2.07	2.07	2.07	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	2.00	2.04	2.03	1.98	2.07	2.03	2.03															
Aug 23	2.05	S	2.03	2.02	2.06	2.06	2.08	2.04	2.04	2.03	2.02	2.00	2.00	1.99	1.97	1.97	1.98	1.98	1.98	2.00	2.09	2.27	4.32	3.72	1.97	4.32	2.20	2.20															
Aug 24	S	2.32	2.29	2.09	2.22	2.16	2.13	2.07	2.07	2.05	2.02	2.00	2.01	2.01	2.00	1.99	1.99	2.00	2.00	2.02	2.05	2.27	2.28	S	1.99	2.32	2.09	2.09															
Aug 25	2.10	2.10	2.22	2.27	2.20	2.15	2.13	2.08	2.07	2.06	2.04	2.03	2.01	2.00	1.99	1.97	1.97	1.98	1.99	2.01	2.02	2.08	S	2.06	1.97	2.27	2.07	2.07															
Aug 26	2.06	2.06	2.10	2.19	2.06	2.08	2.10	2.05	2.01	2.00	1.98	1.95	1.93	1.92	1.92	1.92	1.92	1.93	1.93	1.95	1.97	S	2.02	1.98	1.92	2.19	2.00	2.00															
Aug 27	1.95	1.96	1.97	1.97	1.98	1.98	1.99	1.98	1.99	1.97	1.97	1.96	1.94	1.96	1.95	1.95	1.95	1.96	1.96	1.97	S	1.96	1.96	1.97	1.94	1.99	1.97	1.97															
Aug 28	1.96	1.97	1.98	1.99	1.98	1.98	1.98	1.99	1.99	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	1.98	1.97	1.98	1.98	1.96	1.99	1.97	1.97														
Aug 29	1.98	1.99	2.00	2.01	2.01	2.00	2.01	2.01	1.98	1.99	1.99	1.96	1.95	1.94	1.94	1.93	1.93	1.93	S	1.95	1.95	1.94	1.94	1.94	1.96	1.93	2.01	1.97	1.97														
Aug 30	1.96	1.98	1.98	1.98	1.96	1.97	1.96	1.96	1.95	1.95	1.94	1.91	1.91	1.91	1.91	1.91	1.91	1.91	S	1.91	1.91	1.91	1.91	1.91	1.92	1.91	1.98	1.94	1.94														
Aug 31	1.93	1.95	1.97	1.94	1.94	1.94	1.94	1.95	1.93	1.92	1.91	1.91	1.92	1.91	1.92	1.92	S	1.92	1.91	1.91	1.94	1.94	1.92	1.92	1.91	1.97	1.97	1.93	1.93														
Diurnal Maximum	2.49	2.35	2.35	2.30	2.22	2.23	2.15	2.11	2.10	2.07	2.04	2.03	2.04	2.04	2.07	2.01	2.02	2.02	2.02	2.05	2.10	2.27	4.32	3.72	1.97	4.32	2.20	2.20															
Diurnal Average	2.03	2.04	2.04	2.04	2.03	2.03	2.03	2.01	2.00	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.96	1.97	2.02	2.10	2.08	1.97	2.08	2.03	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										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 THC - AQHI - Grimshaw Station



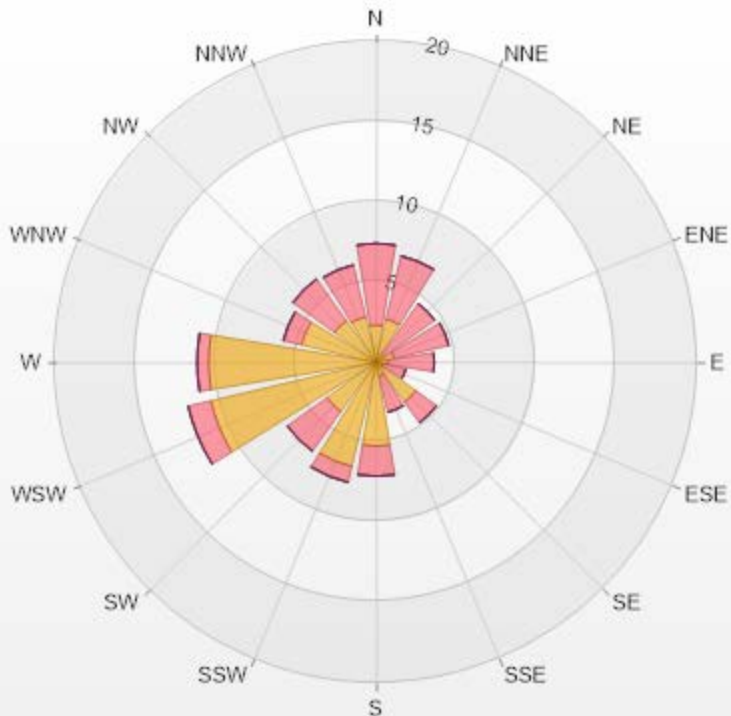
THC55[ppm] Histogram: AQHI Grimshaw Monthly: 08-2022 1 Hr.



Classes	THC55
<=1.7	0.00%
1.7 - 2	59.57%
2 - 2.5	40.14%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.14%
4 - 4.5	0.14%
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: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 92.74% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.32	5.07	0	0	0	7.39
NNE	2.75	4.06	0	0	0	6.81
NE	0.58	3.91	0	0	0	4.49
ENE	1.16	3.48	0	0	0	4.64
E	0.72	2.9	0	0	0	3.62
ESE	0.43	1.45	0	0	0	1.88
SE	3.04	1.59	0	0	0	4.63
SSE	0.87	2.32	0	0	0	3.19
S	5.22	1.88	0	0	0	7.1
SSW	6.67	1.01	0	0	0	7.68
SW	3.77	3.04	0	0	0	6.81
WSW	10.58	1.45	0	0	0	12.03
W	10.43	0.72	0	0	0	11.15
WNW	4.78	1.16	0	0	0	5.94
NW	3.19	3.19	0	0	0	6.38
NNW	2.9	3.33	0	0	0	6.23
Summary	59.41	40.56	0	0	0	100



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% Icon Classes (ppm)	59	0-2	41	2-5	0	5-10	0	10-40	0	>40.0
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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

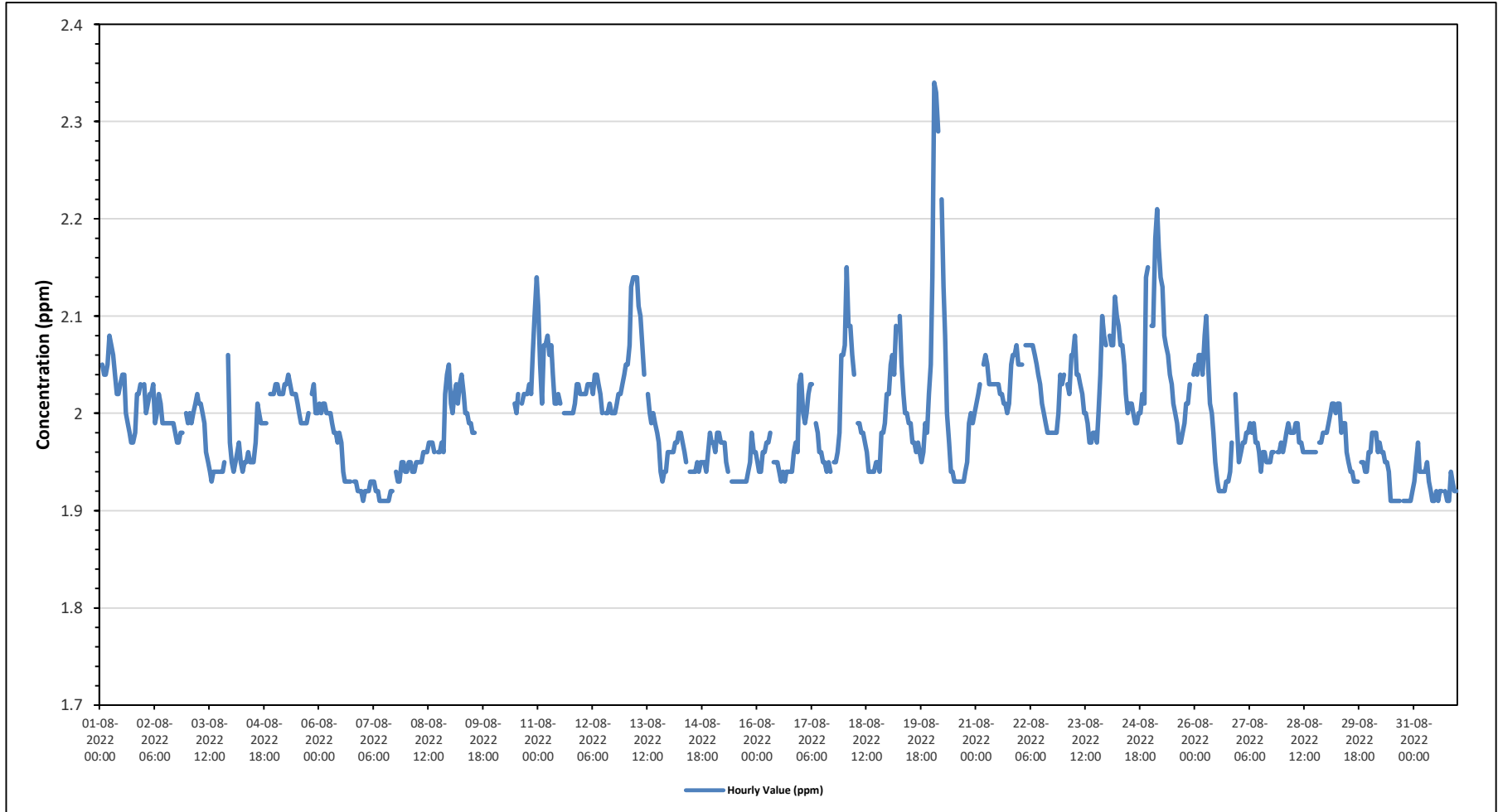
Maximum Hourly Value:	2.34 ppm on August 20 at hour 1	Hours in Service:	744
Maximum Daily Value:	2.06 ppm on August 25	Hours of Data:	690
Minimum Hourly Value:	1.91 ppm on August 7 at hour 0	Hours of Missing Data:	14
Minimum Daily Value:	1.92 ppm on August 7	Hours of Calibration:	40
Monthly Average:	1.99 ppm	Operational Uptime:	98.1

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		
Aug 1	S	2.05	2.04	2.04	2.05	2.08	2.07	2.06	2.04	2.02	2.02	2.03	2.04	2.04	2.00	1.99	1.98	1.97	1.97	1.98	2.02	2.02	2.03	S	1.97	2.08	2.02		
Aug 2	2.03	2.00	2.01	2.02	2.02	2.03	1.99	2.00	2.02	2.01	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.98	1.98	1.98	S	2.00	1.97	2.03	2.00		
Aug 3	1.99	2.00	1.99	2.00	2.01	2.02	2.01	2.01	2.00	1.99	1.96	1.95	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	S	2.06	1.93	2.06	1.97		
Aug 4	1.95	1.94	1.95	1.96	1.97	1.95	1.94	1.95	1.95	1.96	1.95	1.95	1.95	1.97	2.01	2.00	1.99	1.99	1.99	1.99	1.99	S	2.02	2.02	1.94	2.02	1.97		
Aug 5	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.04	2.03	2.02	2.02	2.01	1.97	1.99	1.99	1.99	1.99	1.99	2.00	S	2.02	2.03	2.00	2.00	1.99	2.04	2.01		
Aug 6	2.01	2.00	2.01	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.97	1.98	1.97	1.94	1.93	1.93	1.93	1.93	S	1.93	1.93	1.92	1.92	1.92	1.92	2.01	1.96		
Aug 7	1.91	1.92	1.92	1.92	1.93	1.93	1.93	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.92	S	1.94	1.93	1.93	1.95	1.95	1.94	1.91	1.95	1.92		
Aug 8	1.94	1.95	1.95	1.94	1.94	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.97	1.97	1.96	S	1.96	1.96	1.97	1.96	1.97	1.96	2.02	2.04	2.05	1.94	2.05	1.97	
Aug 9	2.01	2.00	2.02	2.03	2.01	2.03	2.04	2.02	2.00	2.00	1.99	1.99	1.98	1.98	C	C	C	C	C	NRM	NRM	NRM	NRM	NRM	1.98	2.04	-		
Aug 10	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	2.01	2.00	2.02	S	2.01	2.02	2.02	2.02	2.02	2.03	2.02	2.06	2.10	2.14	2.00	2.14	-	
Aug 11	2.11	2.05	2.01	2.07	2.07	2.08	2.06	2.07	2.04	2.01	2.01	2.02	2.01	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.03	2.03	2.02	2.00	2.11	2.03	
Aug 12	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.04	2.04	2.03	2.02	2.00	S	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.03	2.04	2.00	2.04	2.02
Aug 13	2.05	2.05	2.07	2.13	2.14	2.14	2.14	2.11	2.10	2.07	2.04	S	2.02	2.00	1.99	2.00	1.99	1.98	1.97	1.94	1.93	1.94	1.94	1.96	1.93	2.14	2.03	2.03	
Aug 14	1.96	1.96	1.96	1.97	1.97	1.98	1.98	1.97	1.96	1.95	S	1.94	1.94	1.94	1.94	1.95	1.94	1.95	1.95	1.95	1.94	1.96	1.98	1.97	1.94	1.98	1.96	1.96	
Aug 15	1.97	1.96	1.98	1.98	1.97	1.97	1.97	1.95	1.94	S	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.95	1.98	1.96	1.96	1.93	1.98	1.95	
Aug 16	1.95	1.94	1.94	1.96	1.96	1.97	1.97	1.98	S	1.95	1.95	1.95	1.94	1.93	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.96	1.97	1.96	2.03	1.93	2.03	1.95	
Aug 17	2.04	2.00	1.99	2.00	2.02	2.03	2.03	S	1.99	1.98	1.96	1.96	1.95	1.95	1.94	1.95	1.94	NRM	1.95	1.95	1.96	1.98	2.06	2.06	1.94	2.06	1.99		
Aug 18	2.07	2.15	2.09	2.09	2.06	2.04	S	1.99	1.99	1.98	1.98	1.97	1.96	1.94	1.94	1.94	1.94	1.95	1.95	1.94	1.98	1.98	1.99	2.02	1.94	2.15	2.00		
Aug 19	2.02	2.05	2.06	2.04	2.09	S	2.10	2.05	2.02	2.00	2.00	1.99	1.99	1.97	1.97	1.96	1.97	1.96	1.95	1.96	1.99	1.98	2.02	2.05	1.95	2.10	2.01		
Aug 20	2.14	2.34	2.33	2.29	S	2.22	2.13	2.08	2.00	1.97	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.95	1.99	2.00	1.99	2.00	1.93	2.34	2.04		
Aug 21	2.01	2.02	2.03	S	2.05	2.06	2.05	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.01	2.01	2.05	2.06	2.06	2.07	2.05	2.00	2.07	2.03		
Aug 22	2.05	2.05	S	2.07	2.07	2.07	2.07	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	2.00	2.04	2.03	1.98	2.07	2.03		
Aug 23	2.04	S	2.03	2.02	2.06	2.06	2.08	2.04	2.04	2.03	2.02	2.00	2.00	1.99	1.97	1.97	1.98	1.98	1.97	2.00	2.04	2.10	2.08	2.07	1.97	2.10	2.02		
Aug 24	S	2.08	2.07	2.07	2.12	2.10	2.09	2.07	2.05	2.02	2.00	2.01	2.01	2.00	1.99	1.99	2.00	2.00	2.02	2.01	2.14	2.15	S	1.99	2.15	2.05	2.05		
Aug 25	2.09	2.09	2.18	2.21	2.17	2.14	2.13	2.08	2.07	2.06	2.04	2.03	2.01	2.00	1.99	1.97	1.97	1.98	1.99	2.01	2.01	2.03	S	2.04	1.97	2.21	2.06		
Aug 26	2.05	2.04	2.06	2.06	2.04	2.08	2.10	2.05	2.01	2.00	1.98	1.95	1.93	1.92	1.92	1.92	1.92	1.93	1.93	1.94	1.97	S	2.02	1.98	1.92	2.10	1.99		
Aug 27	1.95	1.96	1.97	1.97	1.98	1.98	1.99	1.98	1.99	1.97	1.97	1.96	1.94	1.96	1.95	1.95	1.95	1.95	1.96	1.96	S	1.96	1.96	1.97	1.94	1.99	1.96		
Aug 28	1.96	1.97	1.98	1.99	1.98	1.98	1.98	1.99	1.99	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	1.97	1.97	1.98	1.98	1.96	1.99	1.97	
Aug 29	1.98	1.99	2.00	2.01	2.01	2.00	2.01	2.01	1.98	1.99	1.99	1.96	1.95	1.94	1.94	1.93	1.93	1.93	S	1.95	1.95	1.94	1.94	1.96	1.93	2.01	1.97		
Aug 30	1.96	1.98	1.98	1.98	1.96	1.97	1.96	1.96	1.95	1.95	1.94	1.91	1.91	1.91	1.91	1.91	1.91	S	1.91	1.91	1.91	1.91	1.91	1.92	1.91	1.98	1.94		
Aug 31	1.93	1.95	1.97	1.94	1.94	1.94	1.94	1.95	1.93	1.92	1.91	1.91	1.92	1.91	1.92	1.92	S	1.92	1.91	1.91	1.94	1.93	1.92	1.92	1.91	1.97	1.93		
Diurnal Maximum	2.14	2.34	2.33	2.29	2.17	2.22	2.14	2.11	2.10	2.07	2.04	2.03	2.04	2.04	2.02	2.01	2.02	2.02	2.02	2.05	2.06	2.14	2.15	2.14					
Diurnal Average	2.01	2.02	2.02	2.03	2.02	2.03	2.03	2.01	2.00	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.98	2.00	2.01	2.00					

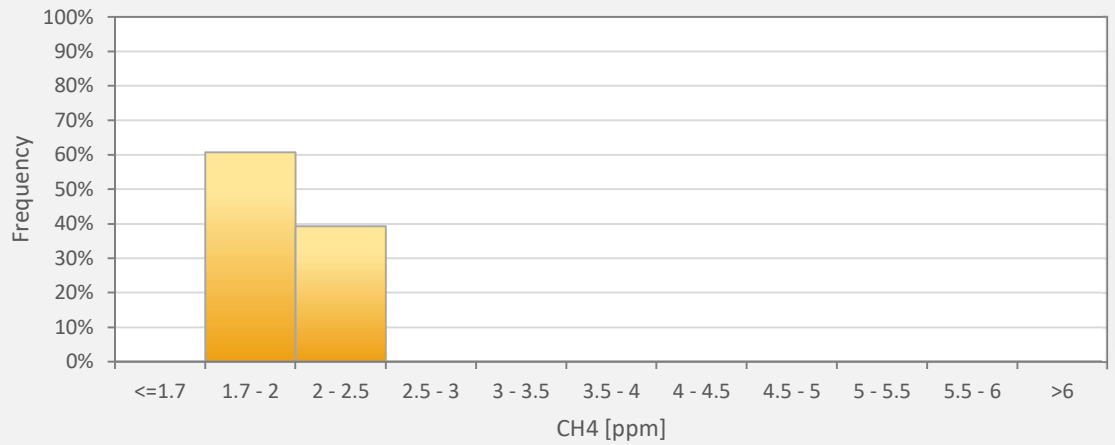
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

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 CH4 - AQHI - Grimshaw Station



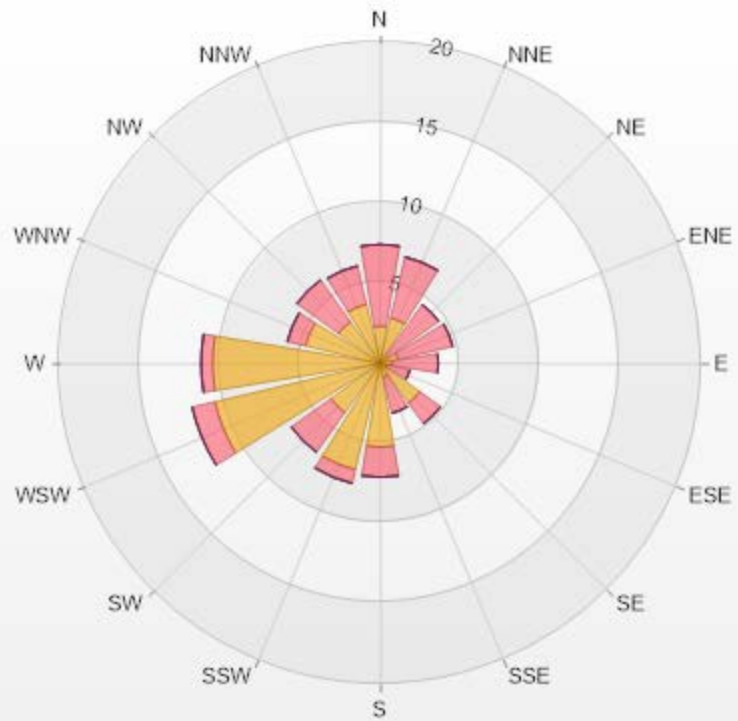
CH4[ppm] Histogram: AQHI Grimshaw Monthly: 08-2022 1 Hr.



Classes	CH4
<=1.7	0.00%
1.7 - 2	60.72%
2 - 2.5	39.28%
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: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 92.74% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.32	5.07	0	0	0	7.39
NNE	2.9	3.91	0	0	0	6.81
NE	0.58	3.91	0	0	0	4.49
ENE	1.16	3.48	0	0	0	4.64
E	0.72	2.9	0	0	0	3.62
ESE	0.43	1.45	0	0	0	1.88
SE	3.04	1.59	0	0	0	4.63
SSE	0.87	2.32	0	0	0	3.19
S	5.22	1.88	0	0	0	7.1
SSW	6.81	0.87	0	0	0	7.68
SW	3.77	3.04	0	0	0	6.81
WSW	10.58	1.45	0	0	0	12.03
W	10.43	0.72	0	0	0	11.15
WNW	4.78	1.16	0	0	0	5.94
NW	3.19	3.19	0	0	0	6.38
NNW	3.77	2.46	0	0	0	6.23
Summary	60.57	39.4	0	0	0	100



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% Icon Classes (ppm)	61	39	0	0	0
0-2	61				
2-5		39			
5-10			0		
10-20				0	
>20.0					0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

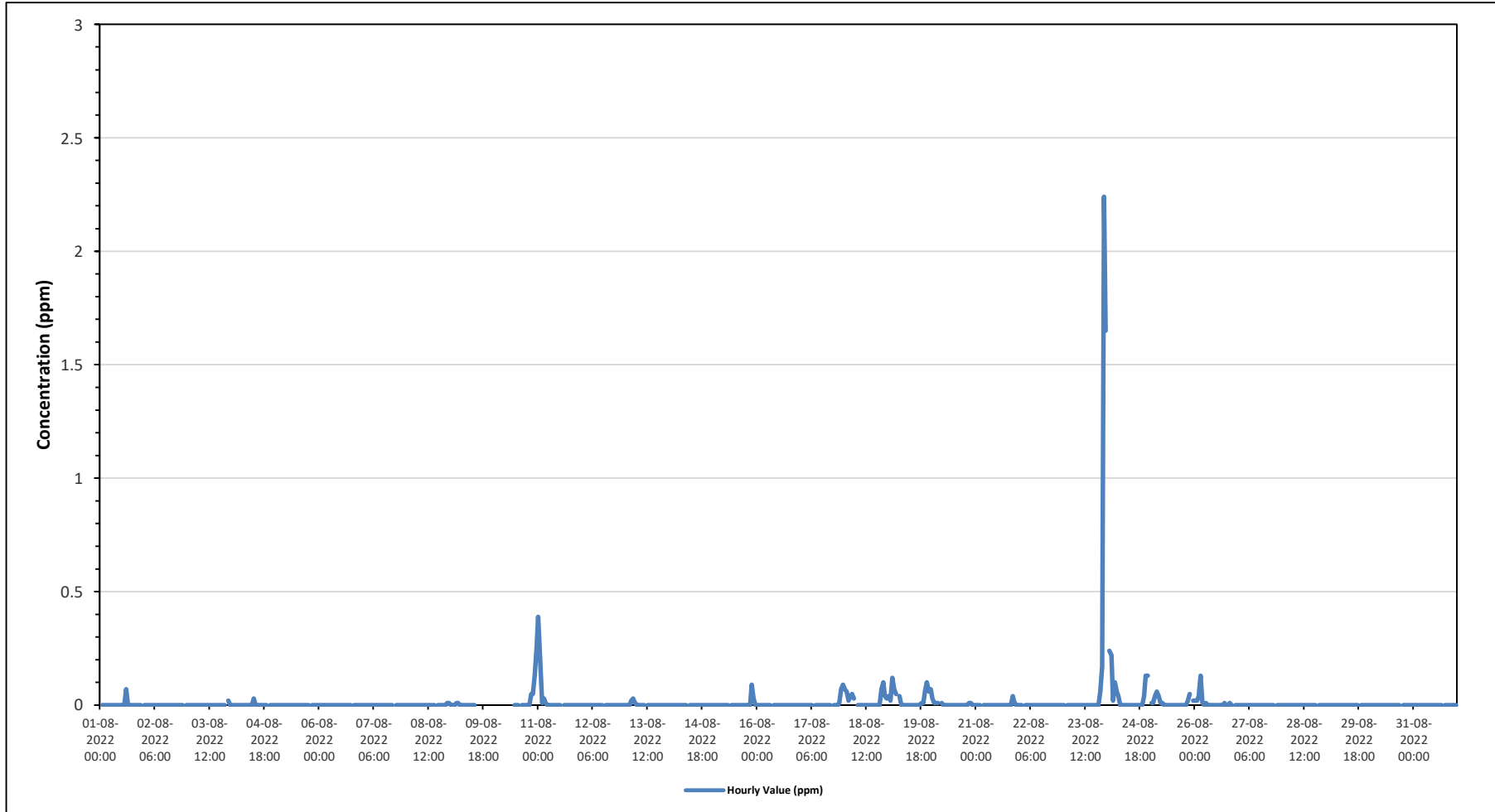
NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:	2.24 ppm on August 23 at hour 22	Hours in Service:	744
Maximum Daily Value:	0.18 ppm on August 23	Hours of Data:	690
Minimum Hourly Value:	0.00 ppm on August 1 at hour 1	Hours of Missing Data:	14
Minimum Daily Value:	0.00 ppm on August 2	Hours of Calibration:	40
Monthly Average:	0.01 ppm	Operational Uptime:	98.1

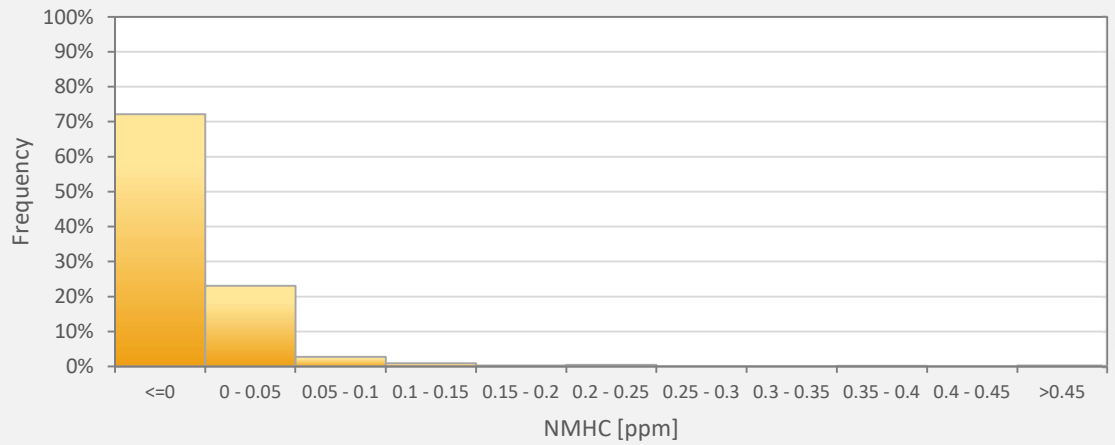
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23
Aug 1	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.07	0.00
Aug 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	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Aug 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	0.00	0.00	0.00	0.00	0.00	S	0.02	0.00	0.00	0.00
Aug 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	0.03	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
Aug 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 7	0.00	0.00	0.00	0.00	0.00	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
Aug 8	0.00	0.00	0.00	0.00	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	0.01	0.00	0.01	0.00
Aug 9	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	NRM	NRM	NRM	NRM	NRM	0.00	0.01	-
Aug 10	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.13	0.25	0.00	0.25	-
Aug 11	0.39	0.19	0.01	0.03	0.01	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	0.39	0.03
Aug 12	0.00	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
Aug 13	0.00	0.00	0.00	0.02	0.03	0.01	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
Aug 14	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
Aug 15	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	0.09	0.03	0.00	0.00	0.09	0.01
Aug 16	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
Aug 17	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	NRM	0.00	0.00	0.00	0.01	0.07	0.09	0.00	0.09	0.01
Aug 18	0.07	0.06	0.02	0.04	0.05	0.03	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	0.07	0.10	0.04	0.03	0.00	0.10	0.02
Aug 19	0.04	0.02	0.12	0.07	0.05	S	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.06	0.10	0.06	0.07	0.00	0.12	0.03
Aug 20	0.03	0.01	0.01	0.01	S	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	0.01	0.01	0.00	0.00	0.00	0.03	0.00
Aug 21	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	0.04	0.01	0.00	0.00	0.00	0.04	0.00
Aug 22	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
Aug 23	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	0.06	0.17	2.24	1.65	0.00	2.24	0.18
Aug 24	S	0.24	0.22	0.02	0.10	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.13	0.13	S	0.00	0.24	0.04
Aug 25	0.01	0.01	0.04	0.06	0.04	0.01	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	0.02	0.05	S	0.02	0.00	0.06	0.01
Aug 26	0.02	0.02	0.04	0.13	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	0.01	0.00	S	0.00	0.00	0.00	0.13	0.01
Aug 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	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
Aug 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	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
Aug 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	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
Aug 30	0.00	0.00	0.00	0.00	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
Aug 31	0.00	0.00	0.00	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
Diurnal Maximum	0.39	0.24	0.22	0.13	0.10	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.07	0.00	0.01	0.00	0.01	0.01	0.07	0.17	2.24	1.65	0.00	2.24	0.18
Diurnal Average	0.02	0.02	0.02	0.01	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	0.01	0.03	0.10	0.08	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 - AQHI - Grimshaw Station



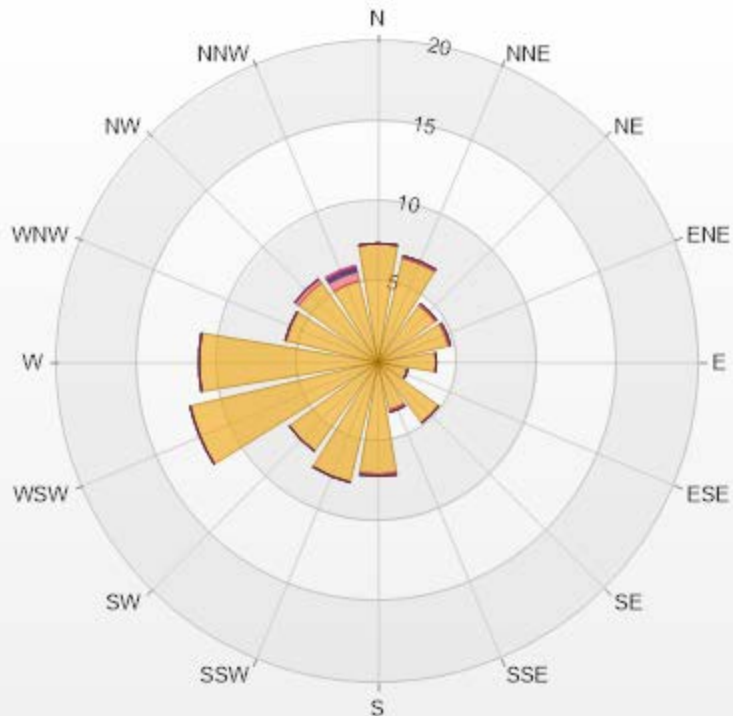
NMHC[ppm] Histogram: AQHI Grimshaw Monthly: 08-2022 1 Hr.



Classes	NMHC
<=0	72.17%
0 - 0.05	23.04%
0.05 - 0.1	2.75%
0.1 - 0.15	0.87%
0.15 - 0.2	0.29%
0.2 - 0.25	0.43%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.14%
0.4 - 0.45	0.00%
>0.45	0.29%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 92.74% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	7.39	0	0	0	0	7.39
NNE	6.67	0.14	0	0	0	6.81
NE	4.35	0.14	0	0	0	4.49
ENE	4.49	0.14	0	0	0	4.63
E	3.62	0	0	0	0	3.62
ESE	1.88	0	0	0	0	1.88
SE	4.64	0	0	0	0	4.64
SSE	3.04	0.14	0	0	0	3.18
S	6.96	0.14	0	0	0	7.1
SSW	7.68	0	0	0	0	7.68
SW	6.81	0	0	0	0	6.81
WSW	12.03	0	0	0	0	12.03
W	11.16	0	0	0	0	11.16
WNW	5.94	0	0	0	0	5.94
NW	6.09	0.29	0	0	0	6.38
NNW	5.22	0.58	0.14	0.14	0.14	6.22
Summary	97.97	1.57	0.14	0.14	0.14	100




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% Icon Classes (ppm)

98  0-0.1

2  0.1-0.3

0  0.3-1

0  1-2

0  >2.0



PEACE RIVER AREA MONITORING PROGRAM

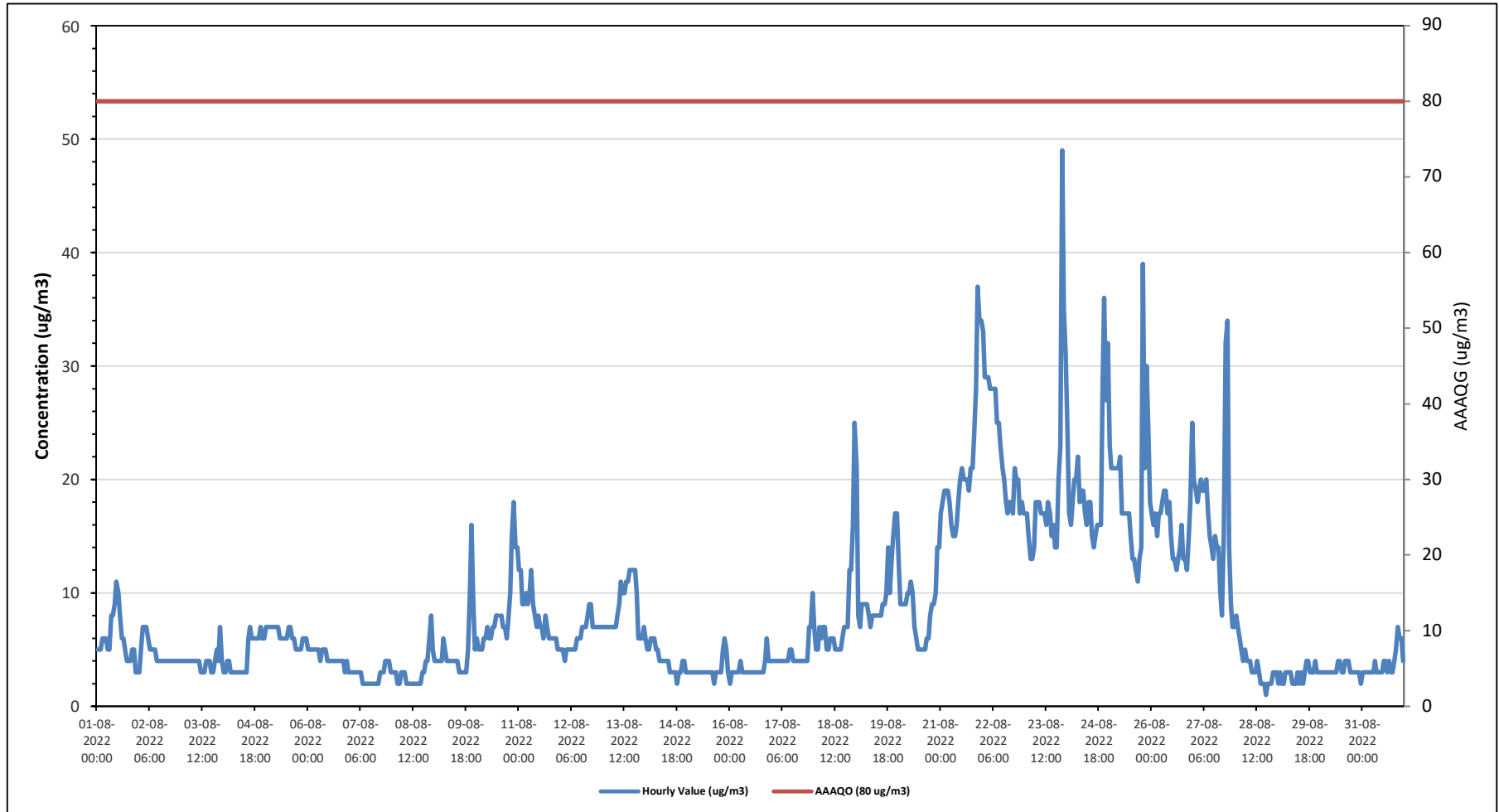
AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

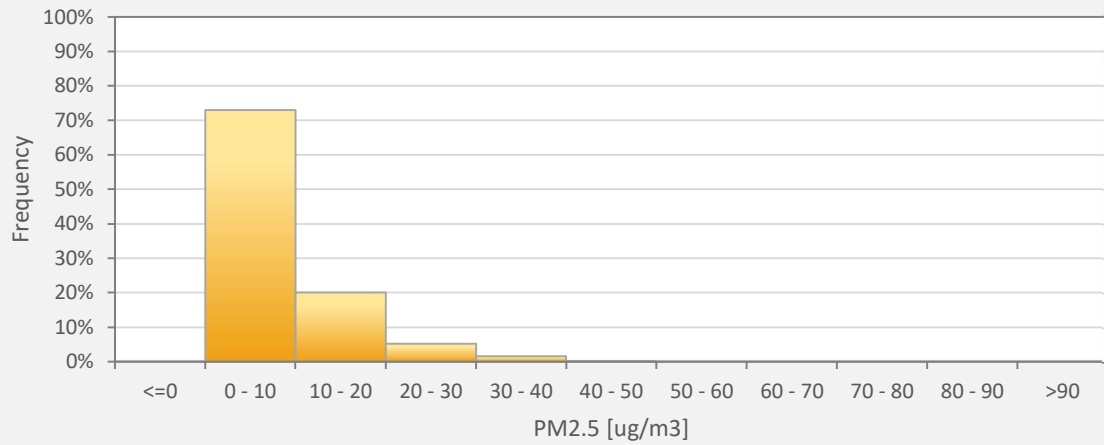
PARTICULATE MATTER 2.5 (PM_{2.5}) in µg/m³

Alberta Ambient Air Quality Guideline (AAAQG): 1-Hour 80 µg/m ³ , Alberta Ambient Air Quality Objective (AAAQO): 24-Hour 29 µg/m ³																															
Number of 1-Hour Exceedances: 0										Number of 24-Hour Exceedances: 0																					
Maximum Hourly Value: 49 µg/m ³ on August 23 at hour 21										Hours in Service: 744																					
Maximum Daily Value: 22.8 µg/m ³ on August 22										Hours of Data: 743																					
Minimum Hourly Value: 1 µg/m ³ on August 28 at hour 17										Hours of Missing Data: 0																					
Minimum Daily Value: 2.7 µg/m ³ on August 7										Hours of Calibration: 1																					
Monthly Average: 8.4 µg/m ³										Operational Uptime: 100.0																					
Day	Hourly Period Starting at (MST)																							Daily	Daily	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				
Aug 1	5	5	5	6	6	6	5	5	8	8	9	11	10	8	6	6	5	4	4	4	5	5	3	3	3	11	5.9				
Aug 2	3	5	7	7	7	6	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	7	4.6				
Aug 3	4	4	4	4	4	4	4	4	4	4	4	3	3	3	4	4	4	3	3	4	5	4	7	4	3	7	4.0				
Aug 4	3	3	4	4	3	3	3	3	3	3	3	3	3	3	6	7	6	6	6	6	6	6	6	6	3	7	4.4				
Aug 5	7	7	7	7	7	7	7	7	6	6	6	6	6	7	6	6	5	5	5	5	6	6	6	6	5	7	6.3				
Aug 6	5	5	5	5	5	5	5	4	5	5	5	4	4	4	4	4	4	4	4	4	4	3	4	3	3	5	4.3				
Aug 7	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	3	2	4	2.7				
Aug 8	3	3	3	2	2	3	3	3	2	2	2	2	2	2	2	2	3	3	3	4	4	6	8	5	2	8	3.0				
Aug 9	4	4	4	4	4	6	5	4	4	4	4	4	4	4	3	3	3	3	3	5	10	16	9	5	3	16	5.0				
Aug 10	6	5	5	5	6	6	7	6	6	7	7	8	8	C	8	7	7	6	8	10	15	18	14	14	5	18	8.2				
Aug 11	12	12	9	9	10	9	10	12	9	8	7	8	7	7	6	8	7	6	6	6	6	5	5	5	5	12	7.9				
Aug 12	5	5	4	5	5	5	5	5	6	6	6	7	7	7	7	8	9	9	7	7	7	7	7	7	4	9	6.3				
Aug 13	7	7	7	7	7	7	7	7	8	9	11	10	10	11	11	12	12	12	12	10	6	6	6	7	6	12	8.7				
Aug 14	6	5	5	6	6	6	5	5	4	4	4	4	4	4	3	3	3	3	2	3	3	4	4	3	2	6	4.1				
Aug 15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	5	6	5	3	2	6	3.3				
Aug 16	2	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	6	4	4	2	6	3.3				
Aug 17	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	7	7	10	4	10	4.6				
Aug 18	7	5	5	7	6	7	7	5	5	6	6	5	5	5	5	6	7	7	7	12	16	25	5	5	25	7.7					
Aug 19	21	8	7	9	9	9	9	8	7	8	8	8	8	8	8	9	9	10	14	10	13	15	17	17	7	21	10.4				
Aug 20	13	9	9	9	9	10	10	11	10	7	6	5	5	5	5	6	6	8	9	9	10	14	14	5	14	8.5					
Aug 21	17	18	19	19	19	18	16	15	15	16	18	20	21	20	20	20	19	21	21	24	28	37	34	34	15	37	21.2				
Aug 22	33	29	29	29	28	28	28	28	25	25	23	21	20	18	17	18	18	17	21	20	20	17	18	17	17	33	22.8				
Aug 23	17	17	15	13	13	14	18	18	18	17	17	17	16	18	17	15	16	14	14	20	23	49	35	31	13	49	19.3				
Aug 24	25	17	16	18	20	20	22	18	19	19	17	16	18	18	15	14	15	16	16	16	28	36	27	32	14	36	19.9				
Aug 25	23	21	21	21	21	21	22	17	17	17	17	17	15	13	13	12	11	13	14	39	21	30	24	18	11	39	19.1				
Aug 26	17	16	17	15	17	17	18	19	19	17	18	15	13	13	12	13	14	16	13	13	12	15	18	25	12	25	15.9				
Aug 27	20	19	18	19	20	19	19	20	17	15	14	13	15	14	14	10	8	15	32	34	14	9	7	7	7	34	16.3				
Aug 28	8	7	6	5	4	5	4	4	4	3	3	3	4	3	2	2	2	1	2	2	3	3	3	1	8	3.5					
Aug 29	2	3	2	2	3	3	3	3	2	2	2	3	2	3	2	3	4	4	3	3	3	4	3	3	2	4	2.8				
Aug 30	3	3	3	3	3	3	3	3	3	3	3	4	3	3	4	4	4	3	3	3	3	3	3	2	2	4	3.2				
Aug 31	3	3	3	3	3	3	3	3	4	3	3	3	4	4	3	4	3	3	4	5	7	6	6	4	3	7	3.8				
Diurnal Maximum	33	29	29	29	28	28	28	28	25	25	23	21	21	20	20	20	19	21	32	39	28	49	35	34							
Diurnal Average	9.4	8.3	8.1	8.3	8.4	8.5	8.6	8.2	7.9	7.8	7.8	7.6	7.5	7.4	7.1	7.1	7.1	7.3	8.1	9.4	9.4	11.6	10.6	10.5							
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.																															

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



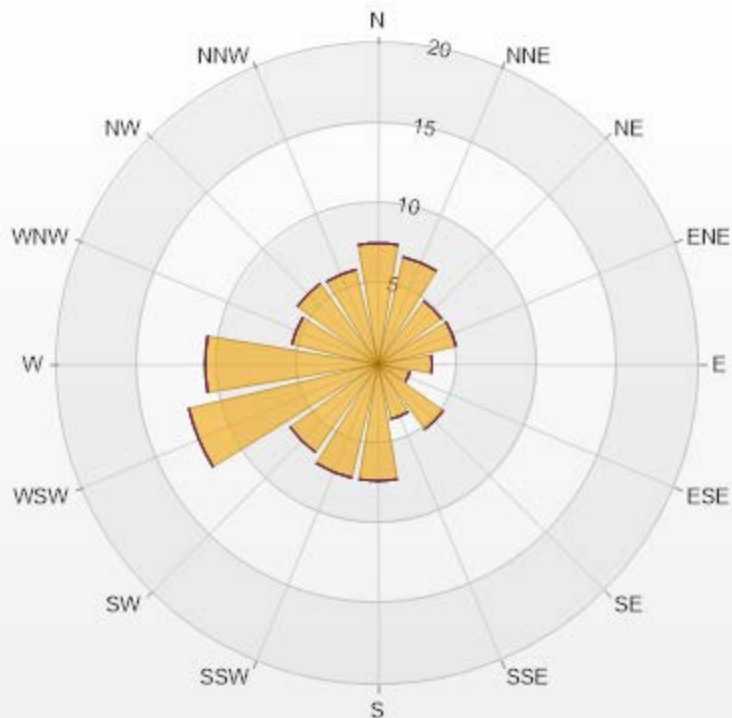
PM2.5[ug/m3(L)] Histogram: AQHI Grimshaw Monthly: 08-2022 1 Hr.



Classes	PM2.5
<=0	0.00%
0 - 10	72.95%
10 - 20	20.05%
20 - 30	5.25%
30 - 40	1.62%
40 - 50	0.13%
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-PM2.5[ug/m3(L)] Monthly: 08-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 99.87% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	7.54	0	0	0	0	7.54
NNE	6.86	0	0	0	0	6.86
NE	4.85	0	0	0	0	4.85
ENE	4.98	0	0	0	0	4.98
E	3.36	0	0	0	0	3.36
ESE	2.02	0	0	0	0	2.02
SE	4.98	0	0	0	0	4.98
SSE	3.5	0	0	0	0	3.5
S	7.27	0	0	0	0	7.27
SSW	7.27	0	0	0	0	7.27
SW	6.73	0	0	0	0	6.73
WSW	12.11	0	0	0	0	12.11
W	10.77	0	0	0	0	10.77
WNW	5.52	0	0	0	0	5.52
NW	6.19	0	0	0	0	6.19
NNW	6.06	0	0	0	0	6.06
Summary	100	0	0	0	0	100



PRAMP-202208

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% 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 - August 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

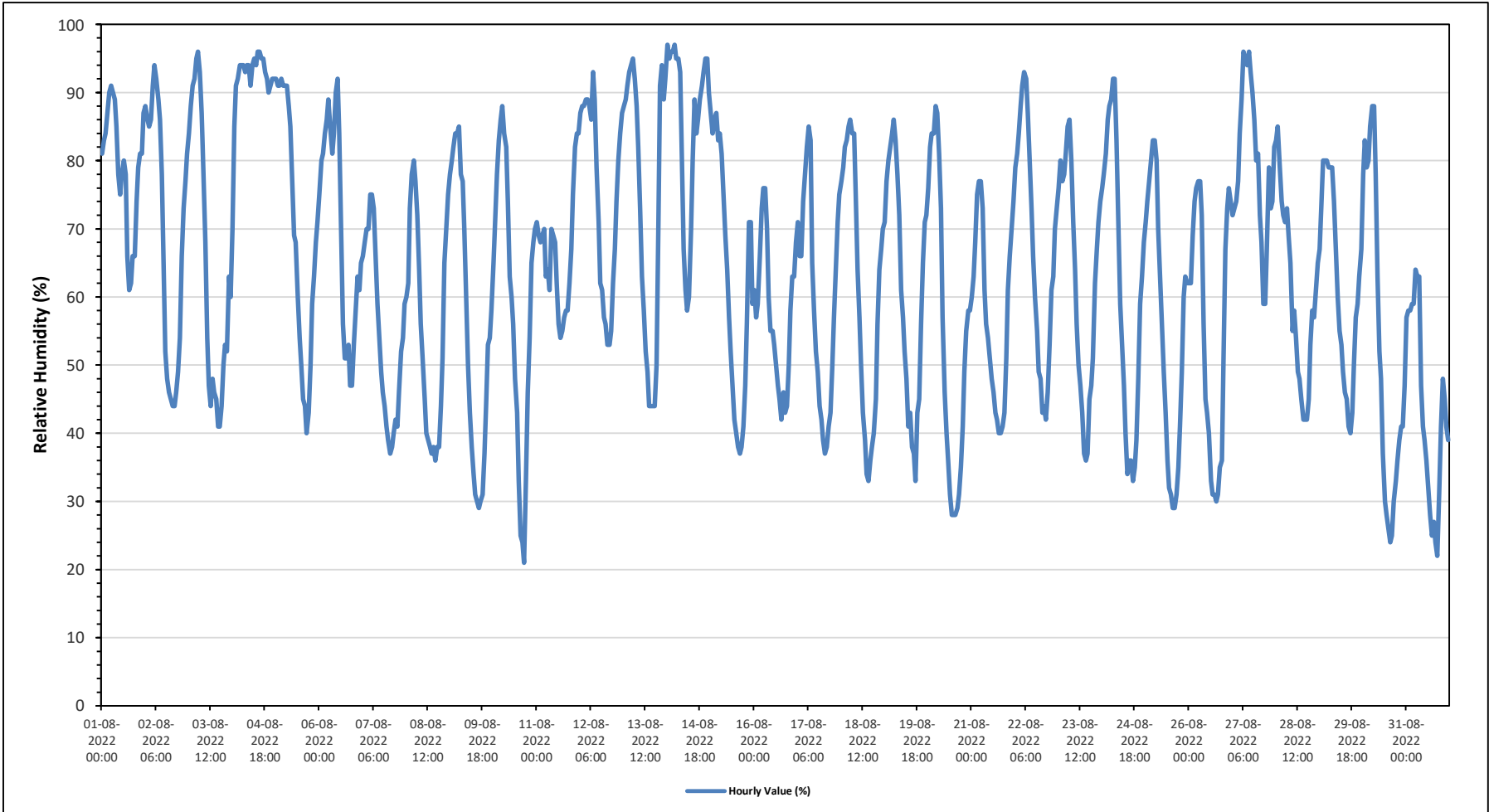
Maximum Hourly Value:	97 %	on August 14 at hour 0	Hours in Service:	744
Maximum Daily Value:	92.0 %	on August 4	Hours of Data:	744
Minimum Hourly Value:	21 %	on August 10 at hour 17	Hours of Missing Data:	0
Minimum Daily Value:	43.6 %	on August 31	Hours of Calibration:	0
Monthly Average:	64.0 %		Operational 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	
Aug 1	81	83	84	87	90	91	90	89	85	78	75	78	80	78	66	61	62	66	66	74	79	81	81	87	61	91	78.8	
Aug 2	88	86	85	86	91	94	92	89	86	78	64	52	48	46	45	44	44	46	49	54	66	73	77	81	44	94	69.3	
Aug 3	84	88	91	92	95	96	93	87	79	68	54	47	44	48	46	45	41	41	44	50	53	52	63	60	41	96	65.0	
Aug 4	70	85	91	92	94	94	94	93	94	94	91	94	95	94	96	96	95	95	93	92	90	91	92	92	70	96	92.0	
Aug 5	92	91	91	92	91	91	91	88	85	77	69	68	60	54	50	45	44	40	43	50	59	63	68	71	40	92	69.7	
Aug 6	75	80	81	84	86	89	85	81	84	90	92	84	70	56	51	51	53	47	47	53	58	63	61	65	47	92	70.3	
Aug 7	66	68	70	70	75	75	73	66	59	54	49	46	44	41	39	37	38	40	42	41	46	52	54	59	37	75	54.3	
Aug 8	60	62	73	78	80	77	72	64	56	51	45	40	39	38	37	38	36	38	38	44	51	65	70	75	36	80	55.3	
Aug 9	78	80	82	84	84	85	78	77	70	60	50	43	38	34	31	30	29	30	31	37	44	53	54	58	29	85	55.8	
Aug 10	65	72	78	83	86	88	84	82	74	63	60	56	48	43	33	25	24	21	33	46	54	65	68	70	21	88	59.2	
Aug 11	71	69	68	69	70	63	64	61	70	69	68	62	56	54	55	57	58	58	62	67	75	82	84	84	54	84	66.5	
Aug 12	87	88	88	89	89	88	86	93	89	79	71	62	61	57	56	53	53	55	62	67	74	80	84	87	53	93	74.9	
Aug 13	88	89	91	93	94	95	92	88	82	73	63	58	52	49	44	44	44	44	50	71	91	94	89	92	44	95	73.8	
Aug 14	97	95	96	96	97	95	95	93	81	67	61	58	60	70	80	89	84	86	89	91	93	95	95	90	58	97	85.5	
Aug 15	87	84	86	87	83	84	81	75	69	64	57	52	47	42	40	38	37	38	41	47	56	71	71	59	37	87	62.3	
Aug 16	61	57	59	66	73	76	76	70	60	55	55	53	50	47	45	42	46	43	44	50	58	63	63	68	42	76	57.5	
Aug 17	71	66	66	74	78	82	85	83	65	58	52	49	44	42	39	37	38	41	43	50	57	64	71	75	37	85	59.6	
Aug 18	77	79	82	83	85	86	84	84	75	64	57	50	43	39	34	33	36	38	40	45	56	64	67	70	33	86	61.3	
Aug 19	71	77	80	82	84	86	83	78	72	61	57	52	48	41	43	38	37	33	43	45	56	65	71	72	33	86	61.5	
Aug 20	76	82	84	84	88	87	81	73	57	46	40	36	31	28	28	28	29	31	35	41	49	55	58	58	28	88	54.4	
Aug 21	60	63	68	75	77	77	73	61	56	54	51	48	46	43	42	40	40	41	43	51	61	66	70	74	40	77	57.5	
Aug 22	79	81	84	88	91	93	92	87	80	73	66	60	55	49	48	43	44	42	46	53	61	63	70	73	42	93	67.5	
Aug 23	76	80	77	78	81	85	86	80	71	64	56	50	47	43	37	36	37	45	47	51	62	67	71	74	36	86	62.5	
Aug 24	76	78	81	86	88	89	92	92	83	69	59	53	47	40	34	36	36	33	35	39	48	59	63	68	33	92	61.8	
Aug 25	71	74	77	80	83	83	80	70	63	56	49	43	36	32	31	29	29	31	35	41	49	60	63	62	29	83	55.3	
Aug 26	62	62	69	74	76	77	77	72	56	45	43	40	33	31	31	30	31	35	36	51	67	73	76	74	30	77	55.0	
Aug 27	72	73	74	77	84	89	96	95	94	96	93	90	86	80	81	72	68	59	59	67	79	73	74	82	59	96	79.7	
Aug 28	83	85	79	74	72	71	73	69	65	55	58	54	49	48	45	42	42	42	45	53	58	57	61	65	42	85	60.2	
Aug 29	67	73	80	80	80	79	79	79	74	67	60	55	53	49	46	45	41	40	43	50	57	59	63	67	40	80	61.9	
Aug 30	78	83	79	80	85	88	88	78	63	52	48	37	30	28	26	24	25	30	33	36	39	41	41	47	24	88	52.5	
Aug 31	57	58	58	59	59	64	63	63	47	41	39	36	32	28	25	27	24	22	31	41	48	45	41	39	22	64	43.6	
Diurnal Maximum	97	95	96	96	97	96	96	95	94	96	93	94	95	94	96	96	95	95	93	92	93	95	95	92	92			
Diurnal Average	75.0	77.1	79.1	81.4	83.5	84.4	83.2	79.4	72.4	65.2	59.7	55.0	50.7	47.5	45.3	43.7	43.4	43.6	46.7	53.2	61.1	66.3	68.8	70.9				

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 - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

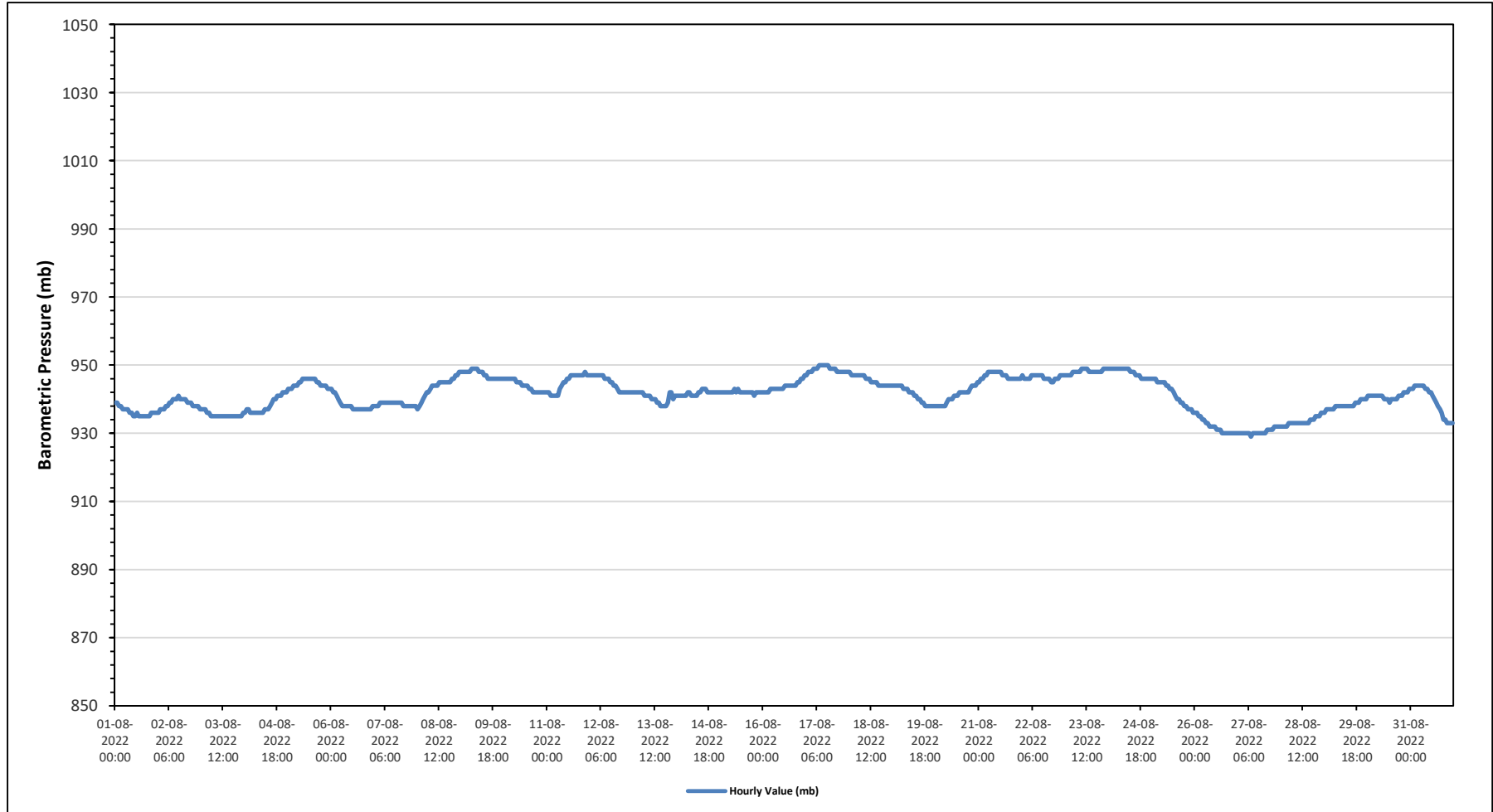
Maximum Hourly Value:	950 mb on August 17 at hour 7	Hours in Service:	744
Maximum Daily Value:	949 mb on August 17	Hours of Data:	744
Minimum Hourly Value:	929 mb on August 27 at hour 7	Hours of Missing Data:	0
Minimum Daily Value:	930 mb on August 27	Hours of Calibration:	0
Monthly Average:	941 mb	Operational 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
Aug 1	939	939	938	938	937	937	937	937	936	936	935	935	936	935	935	935	935	935	935	935	936	936	936	936	935	939	936.2
Aug 2	936	937	937	937	938	938	939	939	940	940	940	941	940	940	940	940	939	939	939	938	938	938	938	937	936	941	938.7
Aug 3	937	937	937	936	936	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	937	935.4
Aug 4	936	937	937	936	936	936	936	936	936	936	936	937	937	937	938	939	940	940	941	941	941	942	942	942	936	942	938.1
Aug 5	943	943	943	944	944	944	944	945	945	946	946	946	946	946	946	945	945	944	944	944	944	944	943	943	943	946	944.6
Aug 6	943	942	942	941	940	939	938	938	938	938	938	938	937	937	937	937	937	937	937	937	937	937	937	938	937	943	938.3
Aug 7	938	938	938	939	939	939	939	939	939	939	939	939	939	939	939	939	938	938	938	938	938	938	938	938	938	939	938.5
Aug 8	937	938	939	940	941	942	942	943	944	944	944	944	945	945	945	945	945	945	945	946	946	947	947	948	937	948	943.6
Aug 9	948	948	948	948	948	948	949	949	949	949	948	948	948	947	947	946	946	946	946	946	946	946	946	946	946	949	947.3
Aug 10	946	946	946	946	946	946	946	945	945	945	944	944	944	944	943	943	942	942	942	942	942	942	942	942	942	946	944.0
Aug 11	942	942	941	941	941	941	941	943	944	945	945	946	946	947	947	947	947	947	947	947	947	948	947	947	941	948	944.8
Aug 12	947	947	947	947	947	947	947	947	946	946	946	945	945	944	944	943	942	942	942	942	942	942	942	942	942	947	944.6
Aug 13	942	942	942	942	942	942	941	941	941	941	940	940	940	939	939	938	938	938	938	939	942	942	940	941	938	942	940.4
Aug 14	941	941	941	941	941	941	942	942	941	941	941	941	942	942	943	943	943	942	942	942	942	942	942	942	941	943	941.7
Aug 15	942	942	942	942	942	942	942	942	943	943	942	942	942	942	942	942	942	942	942	941	942	942	942	942	941	943	942.0
Aug 16	942	942	942	942	943	943	943	943	943	943	943	943	944	944	944	944	944	944	944	945	945	946	946	947	942	947	943.7
Aug 17	947	948	948	948	949	949	949	950	950	950	950	950	950	949	949	949	949	948	948	948	948	948	948	948	947	950	948.8
Aug 18	948	947	947	947	947	947	947	947	947	946	946	946	945	945	945	945	944	944	944	944	944	944	944	944	944	948	945.6
Aug 19	944	944	944	944	944	944	943	943	943	942	942	942	941	941	940	940	939	939	938	938	938	938	938	938	938	944	941.1
Aug 20	938	938	938	938	938	938	939	940	940	940	941	941	941	942	942	942	942	942	942	943	944	944	944	945	938	945	940.9
Aug 21	945	946	946	947	947	948	948	948	948	948	948	948	948	947	947	947	946	946	946	946	946	946	946	946	945	948	946.8
Aug 22	947	946	946	946	946	947	947	947	947	947	947	947	946	946	946	946	945	945	946	946	946	946	947	947	945	947	946.4
Aug 23	947	947	947	947	948	948	948	948	948	949	949	949	949	948	948	948	948	948	948	948	948	948	949	949	947	949	948.1
Aug 24	949	949	949	949	949	949	949	949	949	949	949	949	948	948	948	947	947	947	946	946	946	946	946	946	946	949	947.9
Aug 25	946	946	946	945	945	945	945	945	944	944	943	943	942	941	940	940	939	939	938	938	937	937	936	936	936	946	941.7
Aug 26	936	936	935	935	934	934	933	933	932	932	932	932	931	931	931	930	930	930	930	930	930	930	930	930	930	936	932.0
Aug 27	930	930	930	930	930	930	930	929	930	930	930	930	930	930	930	930	931	931	931	931	932	932	932	932	929	932	930.5
Aug 28	932	932	932	932	933	933	933	933	933	933	933	933	933	933	933	933	934	934	934	935	935	935	936	936	932	936	933.5
Aug 29	936	937	937	937	937	937	938	938	938	938	938	938	938	938	938	938	938	939	939	939	940	940	940	940	936	940	938.2
Aug 30	941	941	941	941	941	941	941	941	940	940	940	939	940	940	940	940	941	941	941	942	942	942	943	939	943	940.8	
Aug 31	943	943	944	944	944	944	944	944	943	943	942	942	941	940	939	938	937	936	934	933	933	933	933	933	933	944	939.6
Diurnal Maximum	949	949	949	949	949	949	949	950	950	950	950	950	950	949	949	949	949	948	948	948	948	949	949	949	949	949	949
Diurnal Average	942	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 - August 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

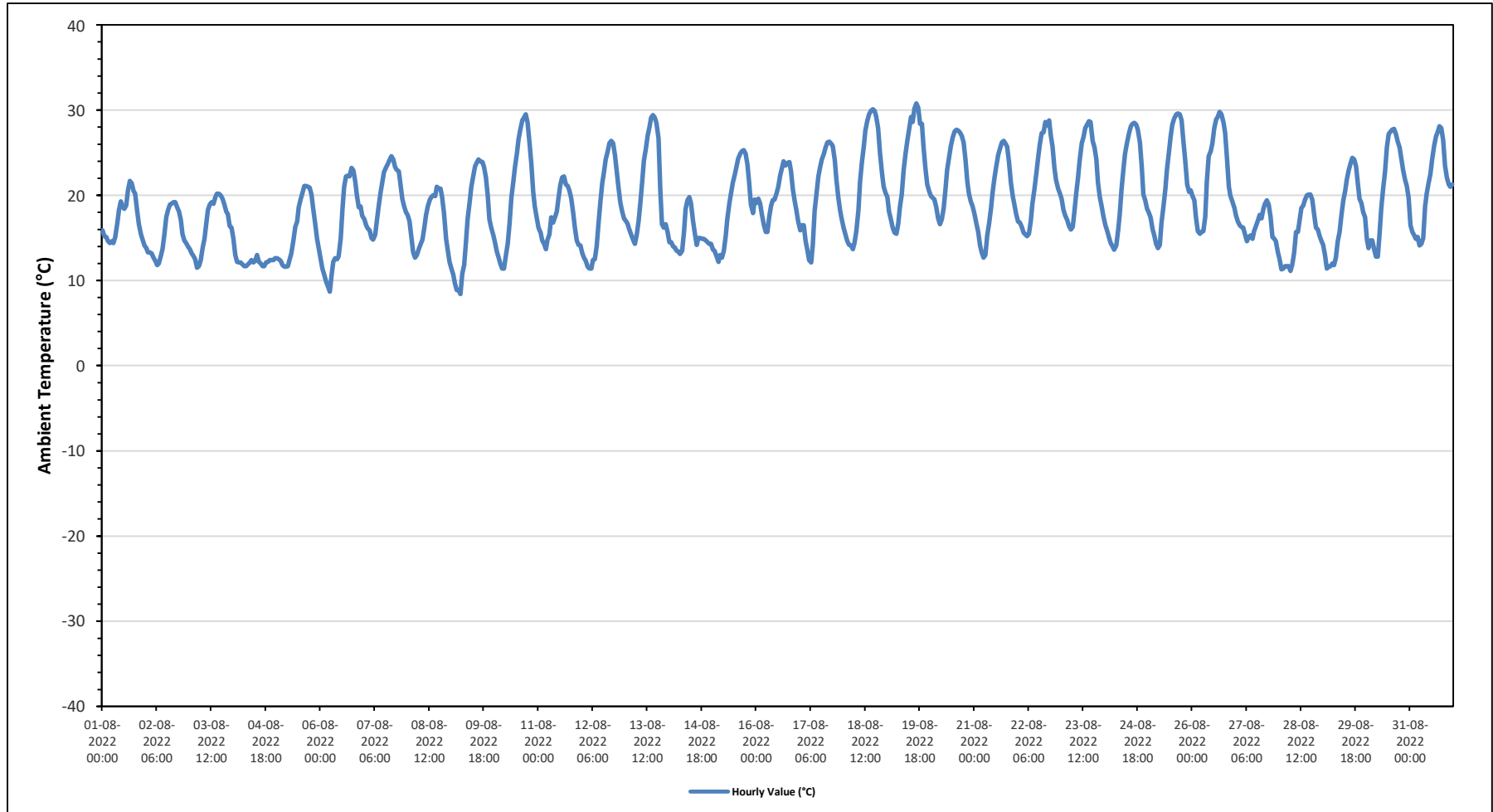
Maximum Hourly Value:	30.8 °C	on August 19 at hour 16	Hours in Service:	744
Maximum Daily Value:	23.2 °C	on August 19	Hours of Data:	744
Minimum Hourly Value:	8.4 °C	on August 9 at hour 5	Hours of Missing Data:	0
Minimum Daily Value:	12.3 °C	on August 4	Hours of Calibration:	0
Monthly Average:	18.9 °C		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
Aug 1	15.9	15.2	15.1	14.6	14.4	14.6	14.4	15.1	16.8	18.3	19.3	18.6	18.4	18.8	20.6	21.7	21.4	20.5	20.2	18.3	16.6	15.4	14.8	14.1	14.1	21.7	17.2
Aug 2	13.8	13.3	13.3	13.2	12.7	12.3	11.8	12	12.8	13.7	15.4	17.4	18.3	18.9	19	19.2	19.2	18.6	18.1	17.1	15.5	14.7	14.4	14	11.8	19.2	15.4
Aug 3	13.7	13.2	12.9	12.5	11.5	11.7	12.4	13.8	14.9	16.5	18.3	18.9	19.2	19	19.8	20.2	20.2	20	19.6	18.9	18.1	17.8	16.4	16.2	11.5	20.2	16.5
Aug 4	14.9	13	12.2	12.1	12.1	11.9	11.7	11.7	11.9	12.1	12.4	12.1	12.3	13	12.2	12	11.7	11.7	12.1	12.2	12.4	12.4	12.4	12.6	11.7	14.9	12.3
Aug 5	12.6	12.5	12.3	11.8	11.6	11.6	11.7	12.5	13.2	14.7	16.3	16.9	18.6	19.5	20.3	21.1	21.1	21	20.9	20.1	18.3	16.9	14.9	13.7	11.6	21.1	16.0
Aug 6	12.6	11.4	10.7	9.9	9.3	8.7	10.7	12.2	12.6	12.5	12.8	14.9	18.5	21	22.2	22.3	22.2	23.2	22.9	21.6	20	18.6	18.7	17.6	8.7	23.2	16.1
Aug 7	17.2	16.5	16.1	15.9	15	14.8	15.4	17.2	18.7	20.3	21.6	22.7	23.2	23.7	24.2	24.6	24.2	23.3	23	22.8	21.1	19.6	18.7	18	14.8	24.6	19.9
Aug 8	17.7	17	14.9	13.3	12.7	13	13.7	14.2	14.8	16.2	17.6	18.7	19.4	19.8	20	19.9	21	20.8	20.8	19.8	17.9	14.9	13.4	12.2	12.2	21.0	16.8
Aug 9	11.4	10.7	9.7	8.9	8.9	8.4	10.8	11.8	14.2	17.2	19.3	21	22.2	23.4	23.8	24.2	24	23.9	23.3	22.1	19.9	17.2	16.2	15.3	8.4	24.2	17.0
Aug 10	14.5	13.4	12.7	12	11.4	11.4	12.9	14.3	16.7	19.8	21.3	23.2	25	26.6	27.8	28.8	29.1	29.5	28.5	26.2	23.7	20.4	18.7	17.4	11.4	29.5	20.2
Aug 11	16.2	15.6	14.7	14.3	13.7	14.8	15.4	17.4	16.8	17.4	18.1	19.6	21.2	22.1	22.2	21.3	21.1	20.6	19.7	18.1	16.2	14.7	14.2	14.1	13.7	22.2	17.5
Aug 12	13.3	12.7	12.3	11.6	11.4	11.4	12.4	12.5	14	16.7	19.2	21.4	22.8	24.2	25.1	26.1	26.4	26.1	24.7	23	21	19.2	18.1	17.3	11.4	26.4	18.5
Aug 13	17	16.7	16	15.4	14.8	14.3	15.4	17	18.9	21.4	24.1	25.4	27	28	29.1	29.4	29.1	28.5	26.7	20.4	16.6	16.2	16.6	15.7	14.3	29.4	20.8
Aug 14	14.5	14.5	14	13.9	13.5	13.4	13.1	13.5	15.7	18.4	19.4	19.8	19.1	17	15.5	14.2	15	15	14.9	14.9	14.7	14.5	14.3	14.3	13.1	19.8	15.3
Aug 15	13.6	13.5	12.8	12.2	13	12.7	13.5	15.2	17.2	19.1	20.4	21.5	22.4	23.4	24.3	24.9	25.2	25.3	24.9	23.6	21.6	18.9	17.9	19.5	12.2	25.3	19.0
Aug 16	19.1	19.6	19	17.8	16.5	15.7	15.7	17.5	18.8	19.4	19.5	20.3	21	22.3	23.2	24	23.5	23.8	23.9	22.8	20.7	19.3	18.3	16.9	15.7	24.0	19.9
Aug 17	15.9	16.5	16.5	14.6	13.7	12.4	12.1	14.2	18.2	20.2	22.2	23.2	24.2	24.9	25.6	26.2	26.3	26.1	25.8	24.1	21.8	19.8	18.2	17.2	12.1	26.3	20.0
Aug 18	16.2	15.4	14.6	14.2	14.1	13.7	14.4	15.8	18.3	21.6	23.9	25.7	27.6	28.7	29.5	29.9	30.3	29.9	29.2	27.9	25	22.5	21	20.3	13.7	30.1	22.1
Aug 19	19.8	18.1	17.2	16.2	15.6	15.5	16.7	18.6	20.1	22.9	24.8	26.4	27.8	29.2	28.6	30.2	30.8	30.3	28.4	28.4	25.7	23.2	21.3	20.5	15.5	30.8	23.2
Aug 20	19.9	19.7	19.5	18.6	17.3	16.6	17.2	18.5	20.8	23	24.4	25.8	26.8	27.5	27.7	27.6	27.4	27	26.2	24.2	21.6	20.2	19.3	18.7	16.6	27.7	22.3
Aug 21	17.8	16.7	15.7	14.1	13.3	12.7	13	15.3	16.7	18.4	20.3	22	23.4	24.7	25.5	26.2	26.4	26.1	25.7	23.9	21.5	19.9	18.8	17.8	12.7	26.4	19.8
Aug 22	16.9	16.8	16.3	15.6	15.4	15.2	15.5	17	19	20.8	22.6	24.5	26	27.3	27.4	28.6	28.2	28.8	27.1	25.7	23.2	21.8	20.8	20.2	15.2	28.8	21.7
Aug 23	19.6	18.3	17.6	17.1	16.4	16	16.3	18	20.2	22.1	24.1	26.1	26.9	27.9	28.3	28.7	28.6	26.4	25.6	24.2	21.5	19.8	18.7	17.6	16.0	28.7	21.9
Aug 24	16.5	15.8	15.1	14.4	14	13.6	14.1	15.9	17.8	20.8	23.1	24.9	26.1	27.3	28.1	28.4	28.5	28.3	27.7	26.2	23.3	20.1	19.4	18.4	13.6	28.5	21.2
Aug 25	18	17.4	16	15.3	14.3	13.8	14.2	16.7	18.8	20.8	23.1	25	27	28.3	29	29.5	29.6	29.5	28.8	26.6	24.3	21.3	20.4	20.6	13.8	29.6	22.0
Aug 26	19.9	19.4	17.4	15.8	15.5	15.7	15.8	17.5	21.6	24.6	25.2	26.1	27.9	28.9	29.2	29.8	29.5	28.5	27.3	24.3	21	19.9	19.3	18.5	15.5	29.8	22.4
Aug 27	17.6	16.9	16.5	16.3	16.2	15.4	14.6	15.1	15.3	14.9	15.8	16.4	17.1	17.7	17.3	18.4	19	19.4	18.9	17.5	15.1	14.9	14.6	13.4	13.4	19.4	16.4
Aug 28	12.5	11.3	11.4	11.7	11.7	11.7	11.1	11.9	13.3	15.7	15.7	17	18.5	18.8	19.5	20	20.1	20.1	19.5	17.8	16.2	16	15.2	14.6	11.1	20.1	15.5
Aug 29	14.2	13	11.4	11.6	11.7	12	11.8	12.7	14.6	15.7	17.7	19.4	20.5	21.8	22.9	23.7	24.4	24.2	23.4	21.6	19.6	19.1	18	17.4	11.4	24.4	17.6
Aug 30	14.8	13.8	14.7	14.7	13.7	12.8	12.8	15.7	18.5	20.8	22.7	25.6	27.2	27.5	27.7	27.8	27.2	26.3	25.6	24.2	23	21.9	21.1	19.7	12.8	27.8	20.8
Aug 31	16.5	15.7	15.3	14.9	15.1	14.1	14.3	15	18.7	20.2	21.4	22.5	24.1	25.8	26.9	27.5	28.1	27.9	26.5	23.5	22.1	21.3	21	21.3	14.1	28.1	20.8
Diurnal Maximum	19.9	19.7	19.5	18.6	17.3	16.6	17.2	18.6	21.6	24.6	25.2	26.4	27.9	29.2	29.5	30.2	30.8	30.3	29.2	28.4	25.7	23.2	21.3	21.3			
Diurnal Average	15.9	15.3	14.6	14.0	13.6	13.3	13.7	15.0	16.8	18.6	20.1	21.4	22.6	23.5	24.0	24.4	24.5	24.2	23.5	22.0	20.0	18.5	17.6	16.9			

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 - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

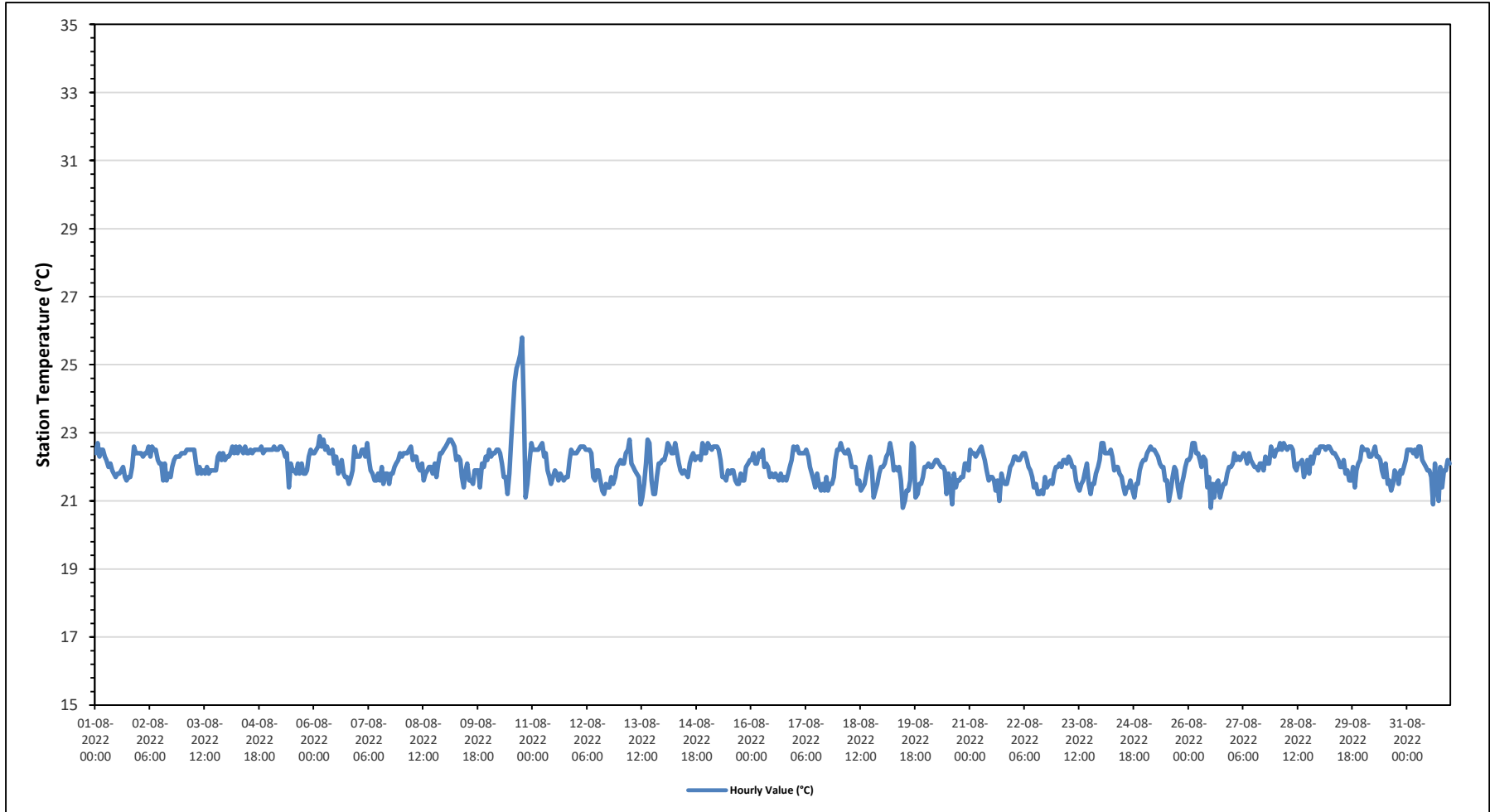
Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	25.8 °C	on August 10 at hour 18	Hours in Service:	744
Maximum Daily Value:	22.9 °C	on August 10	Hours of Data:	744
Minimum Hourly Value:	20.8 °C	on August 19 at hour 11	Hours of Missing Data:	0
Minimum Daily Value:	21.8 °C	on August 22	Hours of Calibration:	0
Monthly Average:	22.1 °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																
Aug 1	22.4	22.7	22.3	22.5	22.5	22.3	22.2	22.0	22.1	21.9	21.8	21.7	21.8	21.9	22.0	21.7	21.6	21.7	21.7	21.7	22.0	22.6	22.4	22.4	21.6	22.7	22.1																
Aug 2	22.4	22.4	22.3	22.4	22.4	22.6	22.3	22.6	22.5	22.5	22.2	22.1	22.1	21.6	22.1	21.6	21.8	21.7	22.0	22.2	22.3	22.3	22.3	22.4	21.6	22.6	22.2																
Aug 3	22.4	22.4	22.5	22.5	22.5	22.5	22.5	22.1	21.8	22.0	21.8	21.9	21.8	22.0	21.8	21.9	21.9	21.9	21.9	22.3	22.4	22.2	22.4	22.2	21.8	22.5	22.2																
Aug 4	22.3	22.3	22.4	22.6	22.4	22.6	22.4	22.6	22.5	22.4	22.6	22.4	22.4	22.5	22.4	22.5	22.5	22.5	22.5	22.6	22.4	22.5	22.5	22.5	22.3	22.6	22.5																
Aug 5	22.5	22.5	22.6	22.5	22.5	22.6	22.6	22.5	22.3	22.4	21.4	22.1	21.9	21.9	21.8	22.1	21.8	22.1	21.8	21.8	21.9	22.3	22.5	22.4	21.4	22.6	22.2																
Aug 6	22.4	22.5	22.6	22.9	22.6	22.8	22.5	22.6	22.4	22.4	22.5	22.1	22.3	21.8	21.9	22.2	21.8	21.7	21.7	21.5	21.7	21.9	22.6	22.3	21.5	22.9	22.2																
Aug 7	22.3	22.3	22.5	22.5	22.3	22.7	22.2	21.9	21.8	21.6	21.6	21.8	21.6	22.0	21.5	21.8	21.8	21.5	21.8	21.8	22.0	22.1	22.2	22.4	21.5	22.7	22.0																
Aug 8	22.3	22.4	22.4	22.4	22.5	22.6	22.2	22.3	22.3	22.0	21.9	22.1	21.6	21.8	21.9	22.0	22.0	21.8	22.1	21.7	22.1	22.4	22.4	22.5	21.6	22.6	22.2																
Aug 9	22.6	22.7	22.8	22.8	22.7	22.6	22.2	22.3	22.2	21.7	21.4	21.9	22.1	21.6	21.6	21.5	21.9	21.9	21.9	21.9	21.4	22.1	22.0	22.3	22.2	21.4	22.8	22.1															
Aug 10	22.5	22.3	22.4	22.4	22.5	22.5	22.4	22.1	21.7	21.7	21.2	21.8	22.8	23.6	24.5	24.9	25.1	25.3	25.8	23.6	21.1	21.5	22.1	22.7	21.1	25.8	22.9																
Aug 11	22.5	22.5	22.5	22.5	22.6	22.7	22.3	22.4	21.9	21.7	21.5	21.7	21.9	21.8	21.6	21.8	21.7	21.6	21.7	21.7	22.2	22.5	22.4	22.4	21.5	22.7	22.1																
Aug 12	22.4	22.5	22.6	22.6	22.6	22.5	22.5	22.5	22.4	21.7	21.6	21.9	21.9	21.6	21.3	21.2	21.5	21.4	21.4	21.7	21.5	21.7	22.0	22.1	21.2	22.6	22.0																
Aug 13	22.2	22.1	22.1	22.4	22.5	22.8	22.1	22.0	21.9	21.8	21.7	20.9	21.1	21.5	22.1	22.8	22.7	21.6	21.2	21.2	21.7	22.1	22.1	22.2	20.9	22.8	22.0																
Aug 14	22.2	22.4	22.7	22.6	22.4	22.4	22.7	22.4	22.1	21.9	21.8	21.9	21.8	21.7	22.1	22.3	22.4	22.2	22.3	22.3	22.2	22.7	22.4	22.4	21.7	22.7	22.3																
Aug 15	22.7	22.6	22.5	22.6	22.6	22.6	22.5	22.2	21.7	21.7	21.6	21.9	21.8	21.9	21.9	21.6	21.5	21.5	21.8	21.6	21.6	22.0	22.1	22.2	21.5	22.7	22.0																
Aug 16	22.2	22.4	22.1	22.1	22.4	22.3	22.5	22.0	22.1	22.0	21.7	21.8	21.7	21.8	21.7	21.6	21.8	21.6	21.7	21.6	21.8	22.0	22.2	22.6	21.6	22.6	22.0																
Aug 17	22.5	22.6	22.4	22.4	22.4	22.4	22.5	22.3	22.0	21.8	21.6	21.4	21.8	21.5	21.3	21.5	21.3	21.7	21.3	21.5	21.7	22.2	22.5	21.3	22.6	21.9	21.9																
Aug 18	22.5	22.7	22.5	22.4	22.4	22.5	22.3	22.0	22.0	22.0	21.5	21.6	21.3	21.4	21.5	21.8	22.1	22.3	21.9	21.1	21.3	21.5	21.8	22.0	21.1	22.7	21.9																
Aug 19	22.0	22.1	22.3	22.4	22.7	22.4	21.9	22.0	21.9	22.0	21.6	20.8	21.0	21.3	21.3	21.6	22.7	22.6	21.1	21.2	21.5	21.5	21.7	22.0	20.8	22.7	21.8																
Aug 20	22.0	22.1	22.0	22.0	22.1	22.2	22.2	22.1	22.0	22.0	21.9	21.2	21.8	21.5	20.9	21.8	21.4	21.6	21.6	21.7	21.7	22.1	22.1	21.9	20.9	22.2	21.8																
Aug 21	22.5	22.4	22.4	22.3	22.4	22.5	22.6	22.4	22.2	21.9	21.6	21.7	21.7	21.6	21.3	21.6	21.0	21.8	21.6	21.5	21.5	21.7	22.0	22.1	21.0	22.6	21.9																
Aug 22	22.3	22.3	22.2	22.2	22.3	22.4	22.4	22.2	22.0	21.9	21.7	21.4	21.5	21.2	21.2	21.3	21.2	21.7	21.4	21.5	21.6	21.5	21.8	22.0	21.2	22.4	21.8																
Aug 23	22.0	22.1	22.0	22.2	22.2	22.1	22.3	22.2	22.0	22.0	21.6	21.4	21.3	21.5	21.6	21.9	22.1	21.5	21.2	21.5	21.5	21.8	22.0	22.2	21.2	22.3	21.8																
Aug 24	22.7	22.7	22.4	22.4	22.4	22.5	22.3	21.9	22.0	22.0	21.8	21.7	21.4	21.2	21.4	21.4	21.6	21.3	21.1	21.5	21.9	22.1	22.2	21.1	22.7	21.9																	
Aug 25	22.2	22.4	22.5	22.6	22.5	22.5	22.4	22.3	22.1	22.0	22.0	21.6	21.6	21.0	21.3	21.7	22.0	21.9	21.4	21.1	21.5	21.7	22.0	22.2	21.0	22.6	21.9																
Aug 26	22.2	22.3	22.7	22.7	22.4	22.4	22.2	22.0	22.3	22.2	21.4	21.7	20.8	21.5	21.1	21.5	21.6	21.1	21.3	21.5	21.5	21.8	22.0	22.0	20.8	22.7	21.8																
Aug 27	22.1	22.4	22.2	22.3	22.2	22.3	22.4	22.3	22.1	22.4	22.2	22.1	22.0	22.0	21.9	22.1	22.1	21.9	22.3	22.1	22.1	22.6	22.4	22.3	21.9	22.6	22.2																
Aug 28	22.5	22.5	22.7	22.5	22.7	22.6	22.5	22.6	22.6	22.5	22.0	21.9	22.1	22.1	22.2	21.7	21.9	22.2	21.8	22.3	22.1	22.4	22.5	22.4	21.7	22.7	22.3																
Aug 29	22.6	22.6	22.6	22.5	22.6	22.6	22.5	22.4	22.4	22.3	22.2	22.0	22.0	22.2	21.8	21.9	21.6	21.6	22.0	21.4	21.9	22.1	22.2	22.6	21.4	22.6	22.2																
Aug 30	22.5	22.5	22.5	22.3	22.3	22.4	22.6	22.3	22.3	22.2	21.9	21.7	22.1	21.5	21.6	21.3	21.5	21.9	21.8	21.5	21.9	21.8	22.0	22.2	21.3	22.6	22.0																
Aug 31	22.5	22.5	22.5	22.4	22.5	22.3	22.6	22.6	22.2	22.1	22.0	21.9	21.9	21.7	20.9	22.1	21.4	21.0	22.0	21.4	21.9	21.9	22.2	22.1	20.9	22.6	22.0																
Diurnal Maximum	22.7	22.7	22.8	22.9	22.7	22.8	22.7	22.6	22.6	22.5	22.6	22.4	22.8	23.6	24.5	24.9	25.1	25.3	25.8	23.6	22.4	22.7	22.6	22.7																			
Diurnal Average	22.4	22.4	22.4	22.4	22.5	22.5	22.4	22.3	22.1	22.0	21.8	21.7	21.8	21.7	21.7	21.9	21.9	21.9	21.8	21.7	21.8	22.0	22.2	22.3																			
C	Monthly Calibration										S	Daily Zero-Span Check										Q	Quality Assurance																				
K	Collection Error										N	No Data (Machine Not in Service)										Y	Routine Maintenance										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 ST - AQHI - Grimshaw Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

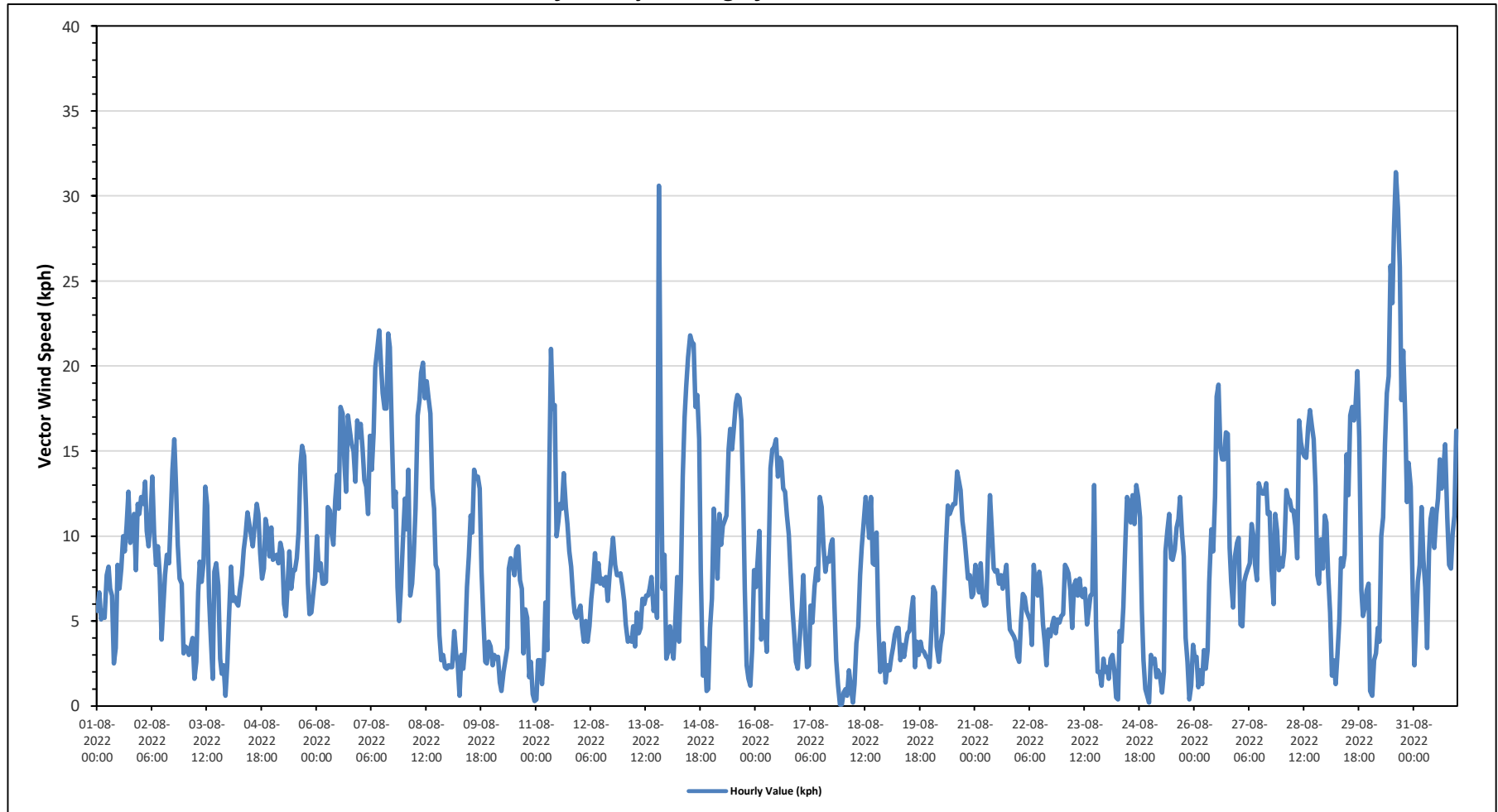
Maximum Hourly Value:	31.4 kph on August 30 at hour 14	Hours in Service:	744
Maximum Daily Value:	15.1 kph on August 7	Hours of Data:	744
Minimum Hourly Value:	0.1 kph on August 17 at hour 22	Hours of Missing Data:	0
Minimum Daily Value:	3.5 kph on August 19	Hours of Calibration:	0
Monthly Average:	8.4 kph	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	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
Aug 1	5.6	6.7	5.1	5.6	5.2	7.7	8.2	6.9	6.5	2.5	3.4	8.3	6.9	8.1	10.0	9.1	10.6	12.6	9.6	10.3	11.3	8.0	11.9	11.3	2.5	12.6	8.0
Aug 2	12.3	11.9	13.2	10.3	9.4	11.0	13.5	10.1	8.3	9.4	7.7	3.9	5.7	7.7	8.9	8.4	10.9	13.9	15.7	12.7	9.5	7.5	7.2	3.1	3.1	15.7	9.7
Aug 3	3.5	3.4	3.0	3.5	4.0	1.6	2.6	6.7	8.5	7.3	8.4	12.9	11.8	6.4	3.9	1.6	7.9	8.4	7.1	2.8	1.9	2.4	0.6	2.5	0.6	12.9	5.1
Aug 4	5.1	8.2	6.2	6.4	6.1	5.9	6.9	7.7	9.2	10.1	11.4	10.7	10.1	9.4	10.6	11.9	11.3	9.0	7.5	8.1	11.0	10.3	8.8	10.5	5.1	11.9	8.9
Aug 5	8.6	8.7	8.9	8.4	9.6	9.1	6.0	5.3	7.0	9.1	6.9	8.0	8.0	8.7	10.3	14.2	15.3	14.7	11.6	7.2	5.4	5.5	6.6	7.6	5.3	15.3	8.8
Aug 6	10.0	8.0	8.4	7.2	7.2	7.3	11.7	11.5	10.2	9.5	12.1	13.6	11.6	17.6	17.2	14.2	12.6	17.1	16.2	15.4	15.0	13.2	16.8	15.8	7.2	17.6	12.5
Aug 7	16.6	15.2	13.3	12.9	11.3	15.9	13.9	16.1	19.9	20.9	22.1	20.0	18.4	17.5	17.5	21.9	21.1	15.8	11.7	12.6	7.0	5.0	7.0	9.6	5.0	22.1	15.1
Aug 8	12.2	10.4	13.9	6.5	7.2	8.8	11.6	17.1	18.0	19.6	20.2	18.1	19.1	18.1	17.2	12.8	11.6	8.3	8.0	4.2	2.7	3.0	2.3	2.2	2.2	20.2	11.4
Aug 9	2.4	2.3	2.3	4.4	3.1	2.5	0.6	3.0	2.2	3.3	7.0	8.8	11.2	10.2	13.9	13.4	13.5	12.8	7.9	5.1	2.6	2.5	3.8	3.5	0.6	13.9	5.9
Aug 10	2.4	3.0	2.8	2.9	1.4	0.9	2.0	2.7	3.4	8.1	8.7	8.3	7.7	9.2	9.4	7.4	6.9	3.1	5.7	5.2	1.7	2.6	0.7	0.3	0.3	9.4	4.4
Aug 11	0.4	2.7	2.7	1.3	2.7	6.1	3.3	13.1	21.0	17.5	17.7	10.0	10.9	11.9	11.6	13.7	11.7	10.7	9.1	8.2	6.5	5.5	5.2	5.6	0.4	21.0	8.7
Aug 12	5.9	4.7	3.8	5.0	3.8	4.7	6.3	7.4	9.0	7.3	8.4	7.2	7.5	7.1	7.6	6.2	7.7	8.7	9.9	8.3	7.7	7.7	7.8	7.1	3.8	9.9	6.9
Aug 13	6.2	4.8	3.8	4.0	3.8	4.7	3.5	5.5	4.3	4.6	6.3	6.0	6.5	6.5	6.9	7.6	5.6	6.4	5.2	30.6	16.2	6.9	8.9	2.8	2.8	30.6	7.0
Aug 14	3.2	4.7	3.5	2.8	5.0	7.6	3.8	7.4	13.5	17.0	18.8	20.5	21.8	21.4	21.3	17.6	18.3	15.7	7.9	1.8	3.4	0.9	1.0	4.6	0.9	21.8	10.1
Aug 15	6.3	11.6	9.8	7.5	11.3	9.5	10.6	10.9	11.2	15.1	16.3	15.1	16.4	17.8	18.3	18.1	16.8	12.4	6.9	2.4	1.6	1.2	3.4	8.0	1.2	18.3	10.8
Aug 16	7.0	8.7	10.3	3.9	5.0	4.4	3.2	8.7	14.0	15.1	15.2	15.7	13.5	14.6	14.4	12.8	12.6	11.2	10.1	7.8	5.7	4.1	2.6	2.2	2.2	15.7	9.3
Aug 17	3.9	5.8	7.7	4.2	2.3	2.4	5.9	4.9	7.0	8.1	7.4	12.3	11.7	9.4	7.9	8.7	8.5	9.5	9.8	6.0	2.7	1.2	0.1	0.1	0.1	12.3	6.1
Aug 18	0.8	1.0	0.6	2.1	1.0	0.2	1.3	3.7	4.7	7.7	9.3	10.9	12.3	11.3	9.9	12.3	8.4	8.3	10.2	4.8	2.0	3.1	3.7	1.4	0.2	12.3	5.5
Aug 19	2.4	2.1	2.9	3.4	4.2	4.6	4.6	2.7	3.6	2.9	3.7	4.3	4.4	5.5	6.4	2.3	3.8	3.0	3.8	3.3	3.2	2.9	2.8	2.3	2.1	6.4	3.5
Aug 20	4.4	7.0	6.7	3.5	2.6	3.7	4.3	6.5	9.5	11.8	11.3	11.6	11.9	11.9	13.8	13.3	12.7	10.9	9.9	8.8	7.5	7.7	6.4	6.6	2.6	13.8	8.5
Aug 21	8.3	7.5	6.7	8.4	6.4	5.9	6.0	9.4	12.4	10.3	8.1	7.9	8.0	7.2	7.7	6.9	7.6	8.3	5.9	4.5	4.3	4.1	3.8	2.9	2.9	12.4	7.0
Aug 22	2.6	5.0	6.6	6.4	5.6	5.3	5.0	3.6	8.3	7.0	6.5	7.9	6.9	4.8	3.7	2.4	4.5	4.1	4.8	5.2	4.3	5.1	4.9	5.3	2.4	8.3	5.2
Aug 23	5.4	8.3	8.1	7.8	6.8	4.6	7.1	7.4	6.5	7.5	6.5	6.4	6.9	4.8	5.7	6.5	6.6	13.0	4.7	2.0	2.0	1.2	2.8	2.0	1.2	13.0	5.9
Aug 24	2.3	1.6	2.8	3.0	2.1	0.5	0.4	4.4	3.8	5.8	9.8	12.3	12.0	10.8	12.4	10.7	13.0	12.3	11.1	5.6	2.7	1.0	0.6	0.2	0.2	13.0	5.9
Aug 25	3.0	2.5	2.8	1.7	2.1	1.8	0.8	2.0	9.1	10.3	11.3	8.7	8.6	9.2	10.5	11.0	12.3	10.2	8.8	4.0	2.6	0.4	1.2	3.6	0.4	12.3	5.8
Aug 26	2.9	2.9	1.1	2.1	1.3	3.3	2.2	3.3	7.3	10.4	9.1	12.3	18.2	18.9	15.2	14.5	14.5	16.1	16.0	9.3	7.3	5.8	8.8	9.6	1.1	18.9	8.9
Aug 27	9.9	4.8	4.7	7.3	7.7	8.1	8.4	10.7	10.1	8.3	7.4	13.1	12.7	12.5	13.1	11.3	11.4	8.0	6.0	11.3	10.3	8.0	8.7	4.7	13.1	9.4	
Aug 28	8.2	9.1	12.7	12.2	12.1	11.5	11.5	10.6	8.7	16.8	15.5	14.9	14.7	14.6	16.4	17.4	16.5	15.7	12.9	7.7	7.2	9.8	8.1	11.2	7.2	17.4	12.3
Aug 29	10.8	7.6	5.5	1.8	2.7	1.3	3.1	5.1	8.7	8.2	8.9	14.8	12.4	17.1	17.6	16.8	17.7	19.7	15.8	6.8	5.3	5.8	6.8	7.2	1.3	19.7	9.5
Aug 30	0.9	0.6	2.7	3.1	4.6	3.8	10.0	11.1	15.4	18.4	19.4	25.9	23.7	28.1	31.4	29.3	25.8	18.0	20.9	17.2	12.0	14.3	12.9	7.3	0.6	31.4	14.9
Aug 31	2.4	4.6	7.3	8.3	11.7	8.6	7.0	3.4	9.0	11.0	11.6	9.3	11.3	12.2	14.5	12.8	14.1	15.4	11.1	8.3	8.1	10.1	11.2	16.2	2.4	16.2	10.0
Diurnal Maximum	17	15	14	13	12	16	14	17	21	21	22	26	24	28	31	29	26	20	21	31	16	14	17	16			
Diurnal Average	5.7	6.0	6.1	5.4	5.5	5.6	6.0	7.4	9.4	10.4	10.9	11.6	11.7	12.0	12.4	11.9	12.0	11.5	9.8	7.8	6.2	5.5	5.7	5.8			

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

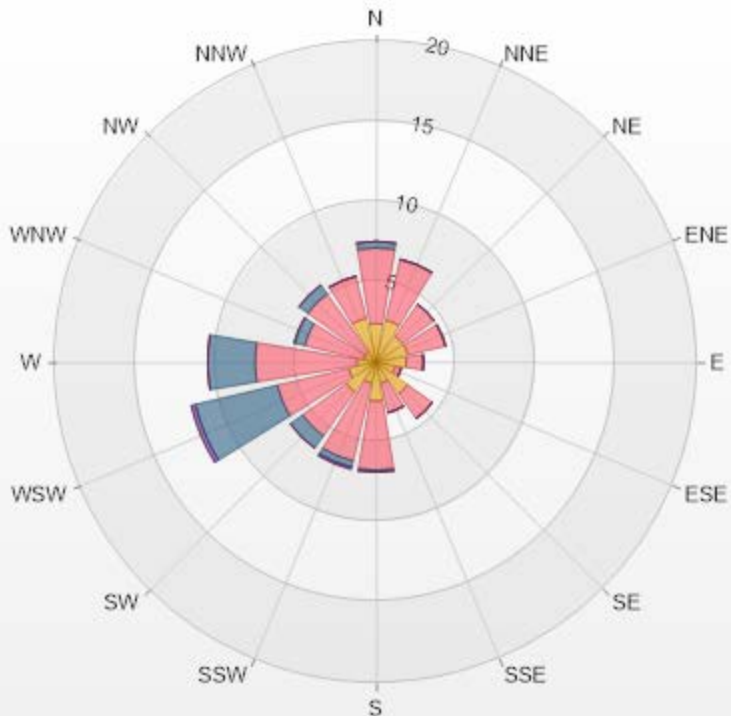
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

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



Wind: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 08-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 5.65% 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	2.42	4.7	0.4	0	0	7.52
NNE	2.69	3.9	0	0	0	6.59
NE	2.02	2.42	0	0	0	4.44
ENE	2.02	2.42	0	0	0	4.44
E	1.88	1.08	0	0	0	2.96
ESE	1.21	0.4	0	0	0	1.61
SE	2.42	1.88	0	0	0	4.3
SSE	1.34	1.88	0	0	0	3.22
S	2.42	4.3	0.13	0	0	6.85
SSW	1.34	4.97	0.4	0.13	0	6.84
SW	2.28	3.36	0.94	0	0	6.58
WSW	1.75	4.57	5.24	0.27	0	11.83
W	1.21	6.32	2.96	0	0	10.49
WNW	0.81	3.76	0.67	0	0	5.24
NW	0.81	4.44	0.67	0	0	5.92
NNW	2.82	2.69	0	0	0	5.51
Summary	29.44	53.09	11.41	0.4	0	94.34



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% Icon Classes (KPH)

29  1.8-6.0

53  6.0-15.0

11  15.0-29.0

0  29.0-39.0

0  >39.0



PEACE RIVER AREA MONITORING PROGRAM

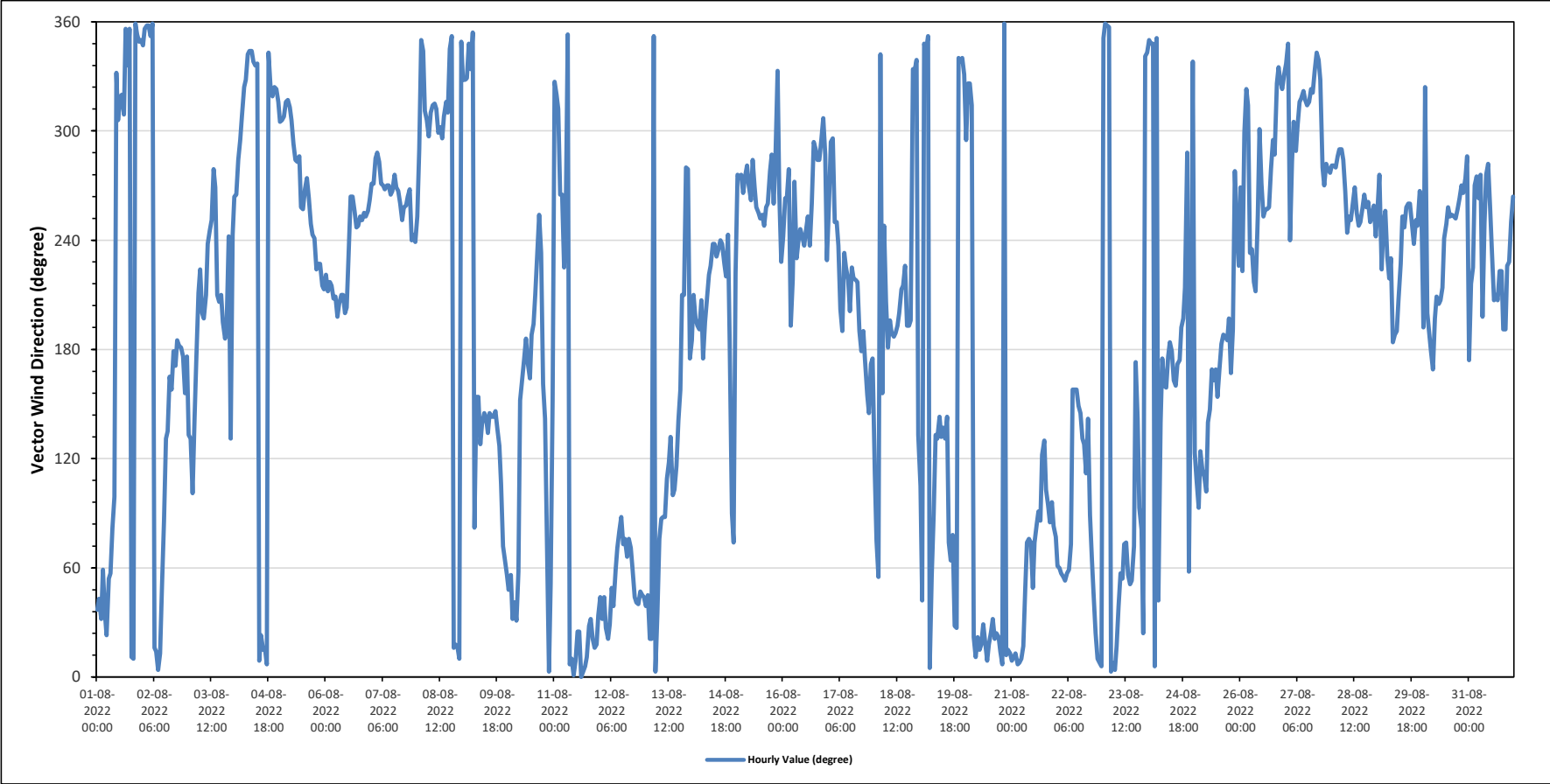
AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		271 (W) degree														Hours in Service:		744									
																Hours of Data:		744									
																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	
Aug 1	NE	NE	NNE	ENE	NE	NNE	NE	ENE	E	E	NNW	NW	NW	NW	NW	N	NNW	N	NNE	N	N	N	NNW	N	10	N	
Aug 2	NNW	N	N	N	N	N	NNE	NNE	N	NNE	NE	E	SE	SE	SSE	SSE	S	S	S	S	S	S	SSE	S	97	E	
Aug 3	SE	SE	E	SE	S	SSW	SW	SSW	SSW	SSW	SW	WSW	WSW	W	W	SSW	SSW	SSW	SSW	S	SSW	WSW	SE	WSW	204	SSW	
Aug 4	W	W	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	N	NNW	NW	NW	NW	NW	NW	NW	NW	331	NNW	
Aug 5	WNW	NW	NW	NW	NW	NW	NW	WNW	WNW	W	WNW	WSW	WSW	W	W	W	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	270	W	
Aug 6	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	231	SW	
Aug 7	W	W	WNW	WNW	W	W	W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	266	W	
Aug 8	WSW	WNW	N	NNW	NW	NW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	N	NNE	NNE	N	NNE	NNE	NNE	N	NNW	N	324	NW	
Aug 9	NNW	NNW	NNW	NNW	NNW	N	E	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ENE	ENE	NE	108	ESE	
Aug 10	NE	NE	NNE	NE	NNE	ENE	SSE	SSE	S	S	S	SSE	S	SSW	SSW	SW	WSW	SW	SSE	SE	E	N	NE	SSE	143	SE	
Aug 11	NW	NW	NW	W	W	SW	W	N	N	N	N	N	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	355	N	
Aug 12	NE	NNE	NE	NNE	NNE	NNE	NE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	53	NE	
Aug 13	NE	NE	NNE	NNE	N	N	ENE	E	E	E	ESE	ESE	SE	E	ESE	ESE	SE	SSE	SSW	SSW	SSW	W	W	S	89	E	
Aug 14	S	SSW	SSW	S	S	SSW	S	SSW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	S	E	ENE	SW	211	SSW	
Aug 15	W	W	W	W	W	W	W	W	WNW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	WSW	W	NNW	W	SW	268	W	
Aug 16	WSW	W	W	W	S	SW	W	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WSW	WNW	WNW	WNW	WNW	WNW	WNW	SW	258	WSW	
Aug 17	WSW	WNW	WNW	WSW	WSW	SW	SSW	S	SW	SW	SW	SSW	SW	SW	SW	SW	S	S	S	SSE	SE	S	S	212	SSW		
Aug 18	ESE	ENE	NE	NNW	SSE	WSW	SSW	S	SSW	S	S	S	S	SSW	SSW	SSW	SW	S	S	SSW	NNW	NNW	NNW	SE	195	SSW	
Aug 19	ESE	NE	NNW	NNW	N	N	NE	E	SE	SE	SE	SE	SE	SE	SE	ENE	ENE	ENE	NNE	NNE	NNW	NNW	NNW	NNW	57	ENE	
Aug 20	WNW	NW	NW	NW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	8	N	
Aug 21	N	NNE	NNE	N	N	N	NNE	NE	ENE	ENE	ENE	NE	ENE	E	E	ESE	SE	ESE	E	E	E	E	ENE	ENE	64	ENE	
Aug 22	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	SSE	SSE	SSE	SE	SE	SE	ESE	SE	E	ENE	NE	NNE	N	N	N	82	E		
Aug 23	N	N	N	N	N	N	N	NNE	NE	ENE	NE	ENE	ENE	NE	NE	ENE	S	SE	E	E	NNE	NNW	NNW	37	NE		
Aug 24	N	NNW	NNW	N	N	NE	SE	S	SSE	SSE	S	S	S	SSE	SSE	S	S	S	SSW	SSW	WNW	ENE	S	NNW	172	S	
Aug 25	ESE	ESE	E	ESE	ESE	E	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSW	SSE	S	W	WSW	SW	161	SSE		
Aug 26	W	SW	WNW	NW	NW	SW	SW	SW	SSW	WSW	WNW	W	WSW	WSW	WSW	WSW	W	WNW	WNW	NW	NNW	NW	NW	NNW	279	W	
Aug 27	NNW	NNW	WSW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	W	W	W	W	W	308	NW	
Aug 28	W	W	W	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW	264	W	
Aug 29	WSW	W	SW	WSW	WSW	SW	SW	SW	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	W	WSW	239	WSW	
Aug 30	S	NW	SSW	S	S	SSE	SSW	SSW	SSW	SSW	SSW	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WNW	236	SW		
Aug 31	S	SW	SW	W	W	W	SSW	WSW	W	W	WSW	SW	SSW	SSW	SSW	SW	SW	S	S	SW	SW	WSW	W	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 - August 2022

Summary of Hourly Averages

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

WIND SPEED																											
Maximum Hourly Value:		31.4 kph on August 30 at hour 14										Hours in Service:		744													
Maximum Daily Value:		15.1 kph on August 7										Hours of Data:		744													
Minimum Hourly Value:		0.1 kph on August 17 at hour 22										Hours of Missing Data:		0													
Minimum Daily Value:		3.5 kph on August 19										Hours of Calibration:		0													
Monthly Average:		8.4 kph										Operational Uptime:		100													
WIND DIRECTION																											
Monthly Average:		271 (W) 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
Aug 1	5.6	6.7	5.1	5.6	5.2	7.7	8.2	6.9	6.5	2.5	3.4	8.3	6.9	8.1	10.0	9.1	10.6	12.6	9.6	10.3	11.3	8.0	11.9	11.3	2.5	12.6	8.0
Aug 2	12.3	11.9	13.2	10.3	9.4	11.0	13.5	10.1	8.3	9.4	7.7	3.9	5.7	7.7	8.9	8.4	10.9	13.9	15.7	12.7	9.5	7.5	7.2	3.1	3.1	15.7	9.7
Aug 3	3.5	3.4	3.0	3.5	4.0	1.6	2.6	6.7	8.5	7.3	8.4	12.9	11.8	6.4	3.9	1.6	7.9	8.4	7.1	2.8	1.9	2.4	0.6	2.5	0.6	12.9	5.1
Aug 4	5.1	8.2	6.2	6.4	6.1	5.9	6.9	7.7	9.2	10.1	11.4	10.7	10.1	9.4	10.6	11.9	11.3	9.0	7.5	8.1	11.0	10.3	8.8	10.5	5.1	11.9	8.9
Aug 5	8.6	8.7	8.9	8.4	9.6	9.1	6.0	5.3	7.0	9.1	6.9	8.0	8.0	8.7	10.3	14.2	15.3	14.7	11.6	7.2	5.4	5.5	6.6	7.6	5.3	15.3	8.8
Aug 6	10.0	8.0	8.4	7.2	7.2	7.3	11.7	11.5	10.2	9.5	12.1	13.6	11.6	17.6	17.2	14.2	12.6	17.1	16.2	15.4	15.0	13.2	16.8	15.8	7.2	17.6	12.5
Aug 7	16.6	15.2	13.3	12.9	11.3	15.9	13.9	16.1	19.9	20.9	22.1	20.0	18.4	17.5	17.5	21.9	21.1	15.8	11.7	12.6	7.0	5.0	7.0	9.6	5.0	22.1	15.1
Aug 8	12.2	10.4	13.9	6.5	7.2	8.8	11.6	17.1	18.0	19.6	20.2	18.1	19.1	18.1	17.2	12.8	11.6	8.3	8.0	4.2	2.7	3.0	2.3	2.2	2.2	20.2	11.4
Aug 9	2.4	2.3	2.3	4.4	3.1	2.5	0.6	3.0	2.2	3.3	7.0	8.8	11.2	10.2	13.9	13.4	13.5	12.8	7.9	5.1	2.6	2.5	3.8	3.5	0.6	13.9	5.9
Aug 10	2.4	3.0	2.8	2.9	1.4	0.9	2.0	2.7	3.4	8.1	8.7	8.3	7.7	9.2	9.4	7.4	6.9	3.1	5.7	5.2	1.7	2.6	0.7	0.3	0.3	9.4	4.4
Aug 11	0.4	2.7	2.7	1.3	2.7	6.1	3.3	13.1	21.0	17.5	17.7	10.0	10.9	11.9	11.6	13.7	11.7	10.7	9.1	8.2	6.5	5.5	5.2	5.6	0.4	21.0	8.7
Aug 12	5.9	4.7	3.8	5.0	3.8	4.7	6.3	7.4	9.0	7.3	8.4	7.2	7.5	7.1	7.6	6.2	7.7	8.7	9.9	8.3	7.7	7.7	7.8	7.1	3.8	9.9	6.9
Aug 13	6.2	4.8	3.8	4.0	3.8	4.7	3.5	5.5	4.3	4.6	6.3	6.0	6.5	6.5	6.9	7.6	5.6	6.4	5.2	30.6	16.2	6.9	8.9	2.8	2.8	30.6	7.0
Aug 14	3.2	4.7	3.5	2.8	5.0	7.6	3.8	7.4	13.5	17.0	18.8	20.5	21.8	21.4	21.3	17.6	18.3	15.7	7.9	1.8	3.4	0.9	1.0	4.6	0.9	21.8	10.1
Aug 15	6.3	11.6	9.8	7.5	11.3	9.5	10.6	10.9	11.2	15.1	16.3	15.1	16.4	17.8	18.3	18.1	16.8	12.4	6.9	2.4	1.6	1.2	3.4	8.0	1.2	18.3	10.8
Aug 16	7.0	8.7	10.3	3.9	5.0	4.4	3.2	8.7	14.0	15.1	15.2	15.7	13.5	14.6	14.4	12.8	12.6	11.2	10.1	7.8	5.7	4.1	2.6	2.2	2.2	15.7	9.3
Aug 17	3.9	5.8	7.7	4.2	2.3	2.4	5.9	4.9	7.0	8.1	7.4	12.3	11.7	9.4	7.9	8.7	8.5	9.5	9.8	6.0	2.7	1.2	0.1	0.1	0.1	12.3	6.1
Aug 18	0.8	1.0	0.6	2.1	1.0	0.2	1.3	3.7	4.7	7.7	9.3	10.9	12.3	11.3	9.9	12.3	8.4	8.3	10.2	4.8	2.0	3.1	3.7	1.4	0.2	12.3	5.5
Aug 19	2.4	2.1	2.9	3.4	4.2	4.6	4.6	2.7	3.6	2.9	3.7	4.3	4.4	5.5	6.4	2.3	3.8	3.0	3.8	3.3	3.2	2.9	2.8	2.3	2.1	6.4	3.5
Aug 20	4.4	7.0	6.7	3.5	2.6	3.7	4.3	6.5	9.5	11.8	11.3	11.6	11.9	11.9	13.8	13.3	12.7	10.9	9.9	8.8	7.5	7.7	6.4	6.6	2.6	13.8	8.5



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - August 2022

Summary of Hourly Averages

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

WIND SPEED		Maximum Hourly Value: 31.4 kph on August 30 at hour 14		Hours in Service: 744																							
		Maximum Daily Value: 15.1 kph on August 7		Hours of Data: 744																							
		Minimum Hourly Value: 0.1 kph on August 17 at hour 22		Hours of Missing Data: 0																							
		Minimum Daily Value: 3.5 kph on August 19		Hours of Calibration: 0																							
		Monthly Average: 8.4 kph		Operational Uptime: 100																							
WIND DIRECTION		Monthly Average: 271 (W) 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			
Aug 21	8.3	7.5	6.7	8.4	6.4	5.9	6.0	9.4	12.4	10.3	8.1	7.9	8.0	7.2	7.7	6.9	7.6	8.3	5.9	4.5	4.3	4.1	3.8	2.9	2.9	12.4	7.0
	N	NNE	NNE	N	N	N	NNE	NE	ENE	ENE	ENE	NE	ENE	E	E	E	ESE	SE	ESE	E	E	E	E	ENE			
Aug 22	2.6	5.0	6.6	6.4	5.6	5.3	5.0	3.6	8.3	7.0	6.5	7.9	6.9	4.8	3.7	2.4	4.5	4.1	4.8	5.2	4.3	5.1	4.9	5.3	2.4	8.3	5.2
	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	SSE	SSE	SSE	SSE	SE	SE	SE	ESE	SE	E	ENE	NE	NNE	N	N	N			
Aug 23	5.4	8.3	8.1	7.8	6.8	4.6	7.1	7.4	6.5	7.5	6.5	6.4	6.9	4.8	5.7	6.5	6.6	13.0	4.7	2.0	2.0	1.2	2.8	2.0	1.2	13.0	5.9
	N	N	N	N	N	N	N	NNE	NE	ENE	NE	ENE	NE	NE	NE	ENE	S	SE	E	E	NNE	NNW	NNW	NNW			
Aug 24	2.3	1.6	2.8	3.0	2.1	0.5	0.4	4.4	3.8	5.8	9.8	12.3	12.0	10.8	12.4	10.7	13.0	12.3	11.1	5.6	2.7	1.0	0.6	0.2	0.2	13.0	5.9
	N	NNW	NNW	N	N	NE	SE	S	SSE	SSE	S	S	S	SSE	SSE	S	S	SSW	SSW	WNW	ENE	S	NNW	NNW			
Aug 25	3.0	2.5	2.8	1.7	2.1	1.8	0.8	2.0	9.1	10.3	11.3	8.7	8.6	9.2	10.5	11.0	12.3	10.2	8.8	4.0	2.6	0.4	1.2	3.6	0.4	12.3	5.8
	ESE	ESE	E	ESE	ESE	ESE	E	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	SSW	SSE	S	W	WSW	SW	SW			
Aug 26	2.9	2.9	1.1	2.1	1.3	3.3	2.2	3.3	7.3	10.4	9.1	12.3	18.2	18.9	15.2	14.5	14.5	16.1	16.0	9.3	7.3	5.8	8.8	9.6	1.1	18.9	8.9
	W	SW	WNW	NW	NW	SW	SW	SW	SSW	WSW	WNW	W	WSW	WSW	WSW	WSW	W	WNW	WNW	NW	NNW	NW	NW	NNW			
Aug 27	9.9	4.8	4.7	7.3	7.7	8.1	8.4	10.7	10.1	8.3	7.4	13.1	12.7	12.5	12.5	13.1	11.3	11.4	8.0	6.0	11.3	10.3	8.0	8.7	4.7	13.1	9.4
	NNW	NNW	WSW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	W	W	W	W	W			
Aug 28	8.2	9.1	12.7	12.2	12.1	11.5	11.5	10.6	8.7	16.8	15.5	14.9	14.7	14.6	16.4	17.4	16.5	15.7	12.9	7.7	7.2	9.8	8.1	11.2	7.2	17.4	12.3
	W	W	W	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW			
Aug 29	10.8	7.6	5.5	1.8	2.7	1.3	3.1	5.1	8.7	8.2	8.9	14.8	12.4	17.1	17.6	16.8	17.7	19.7	15.8	6.8	5.3	5.8	6.8	7.2	1.3	19.7	9.5
	WSW	W	SW	WSW	WSW	SW	SW	SW	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	W	WSW			
Aug 30	0.9	0.6	2.7	3.1	4.6	3.8	10.0	11.1	15.4	18.4	19.4	25.9	23.7	28.1	31.4	29.3	25.8	18.0	20.9	17.2	12.0	14.3	12.9	7.3	0.6	31.4	14.9
	S	NW	SSW	S	S	SSE	SSW	SSW	SSW	SSW	SSW	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WNW			
Aug 31	2.4	4.6	7.3	8.3	11.7	8.6	7.0	3.4	9.0	11.0	11.6	9.3	11.3	12.2	14.5	12.8	14.1	15.4	11.1	8.3	8.1	10.1	11.2	16.2	2.4	16.2	10.0
	S	SW	SW	W	W	W	W	SSW	WSW	W	W	WSW	SW	SSW	SSW	SSW	SW	SW	S	S	SW	SW	WSW	W			
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, 275 of 275, ends the August 2022 Monthly Ambient Air Quality Monitoring Report.



Peace River Area Monitoring Program

AUGUST 2022

Ambient Air Monitoring Calibration Report

- 842b STATION-

CAL-PRAMP-202208-01561

Operation and Maintenance:

Bureau Veritas Canada

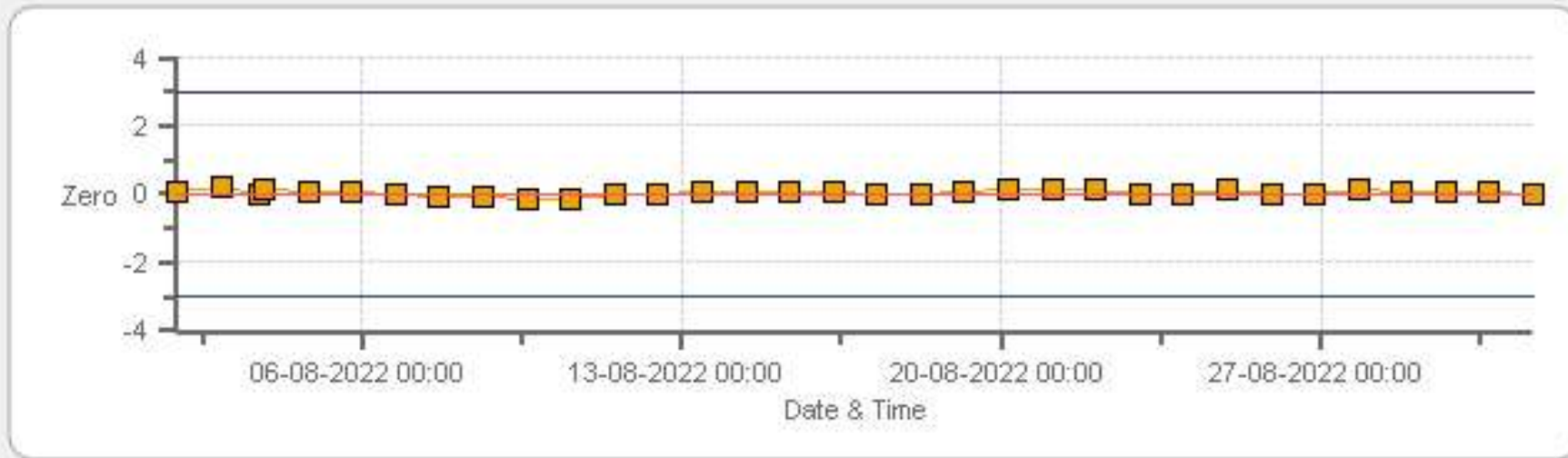
Data Validation and Report:

Bureau Veritas Canada

September 15, 2022

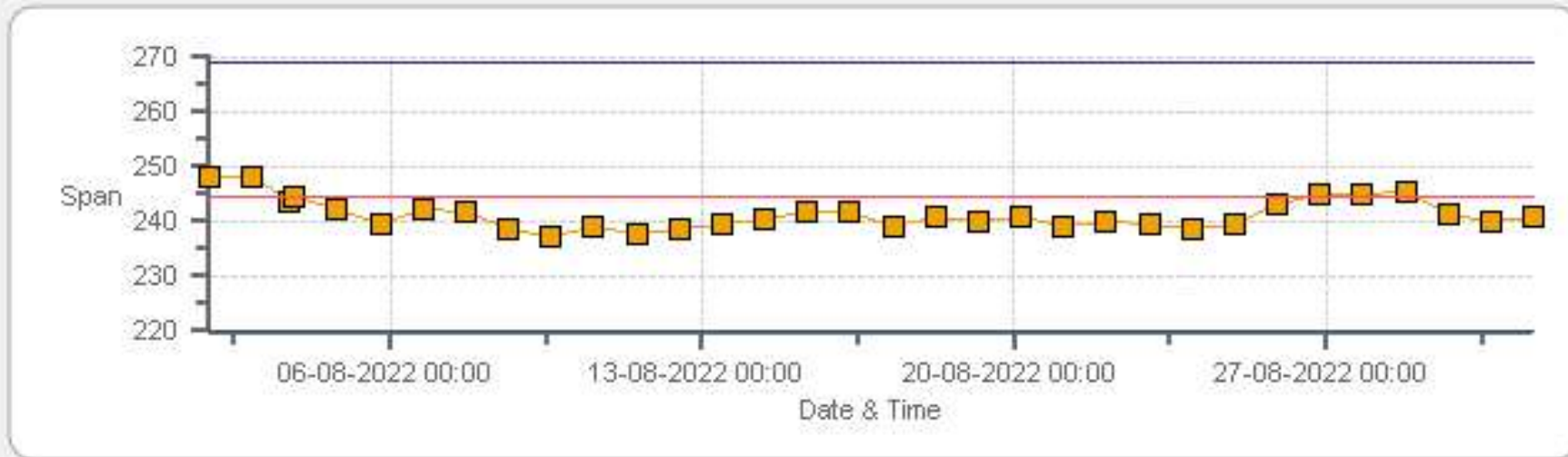
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Zero



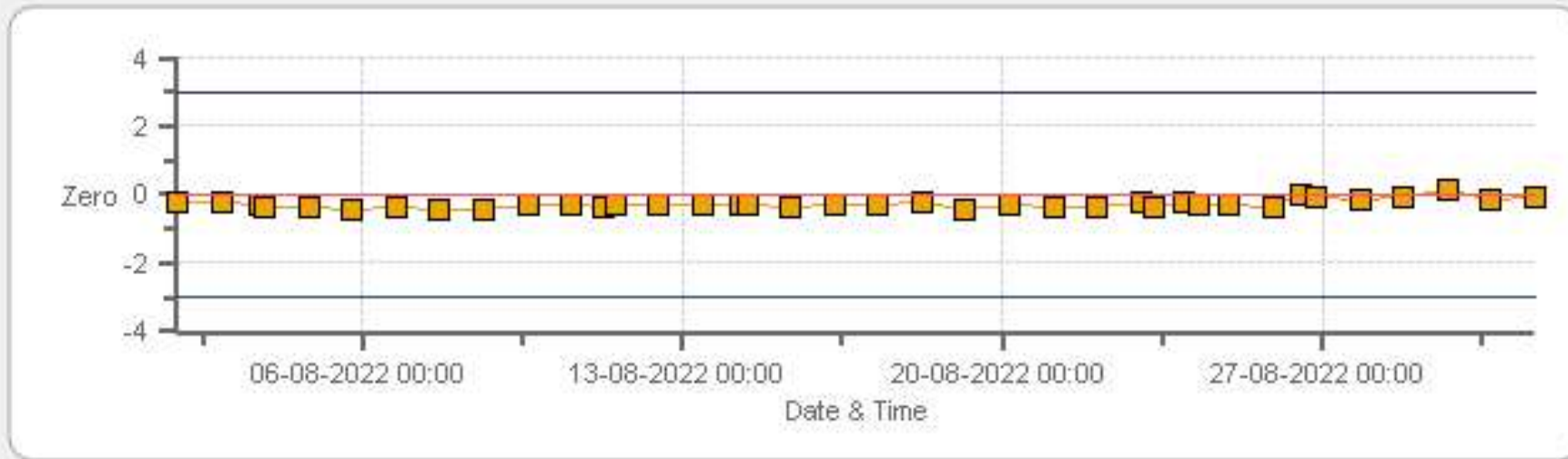
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Span



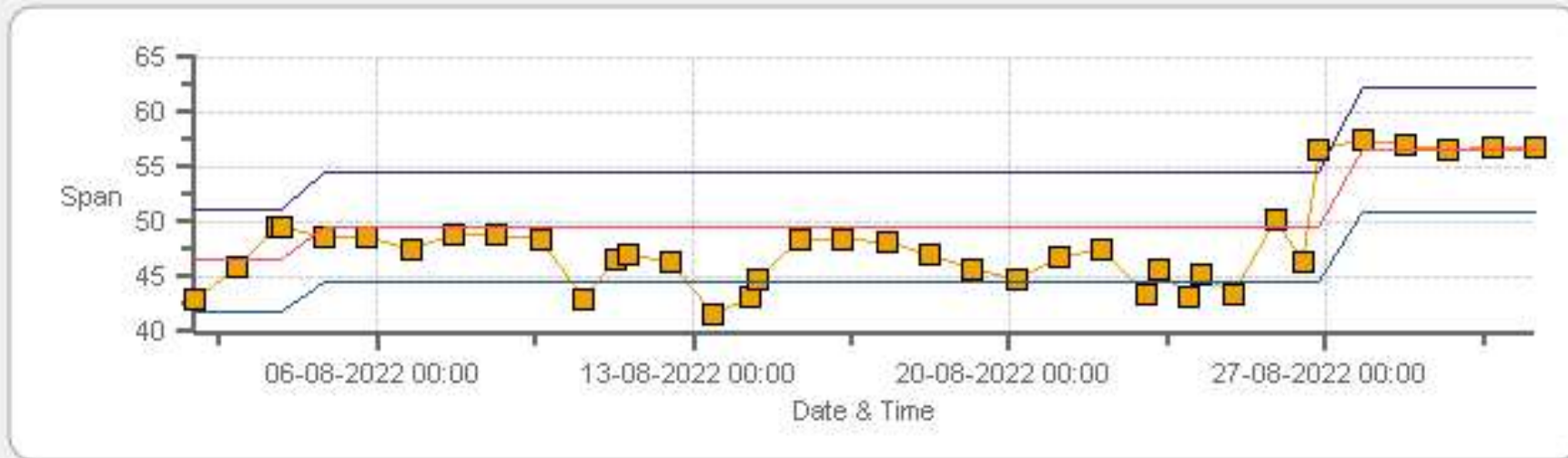
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Zero



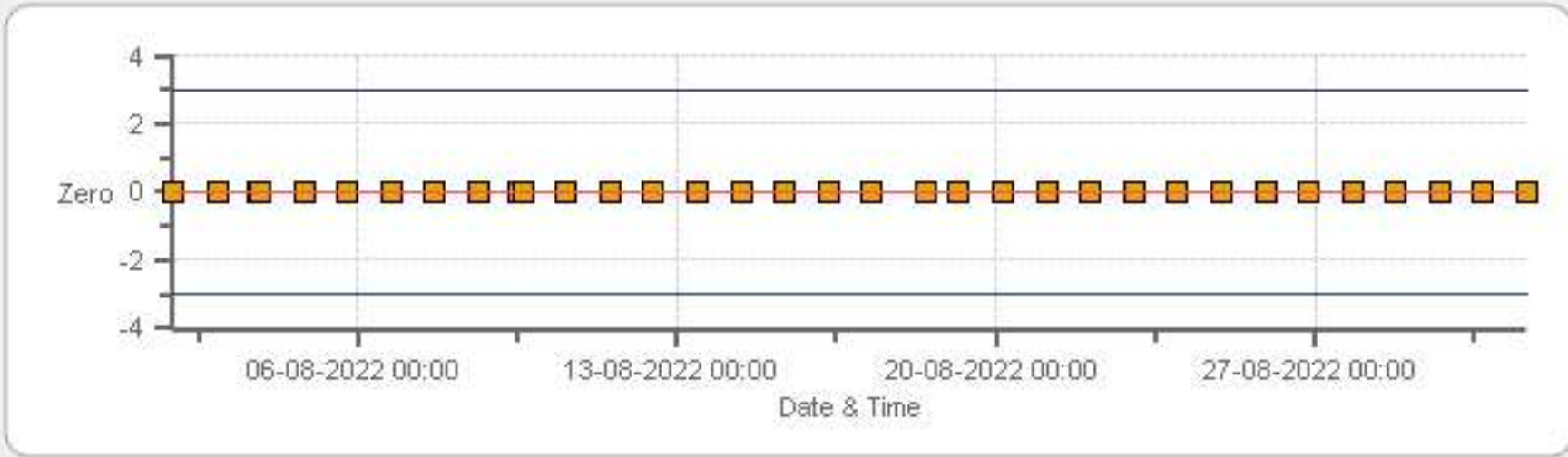
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Span



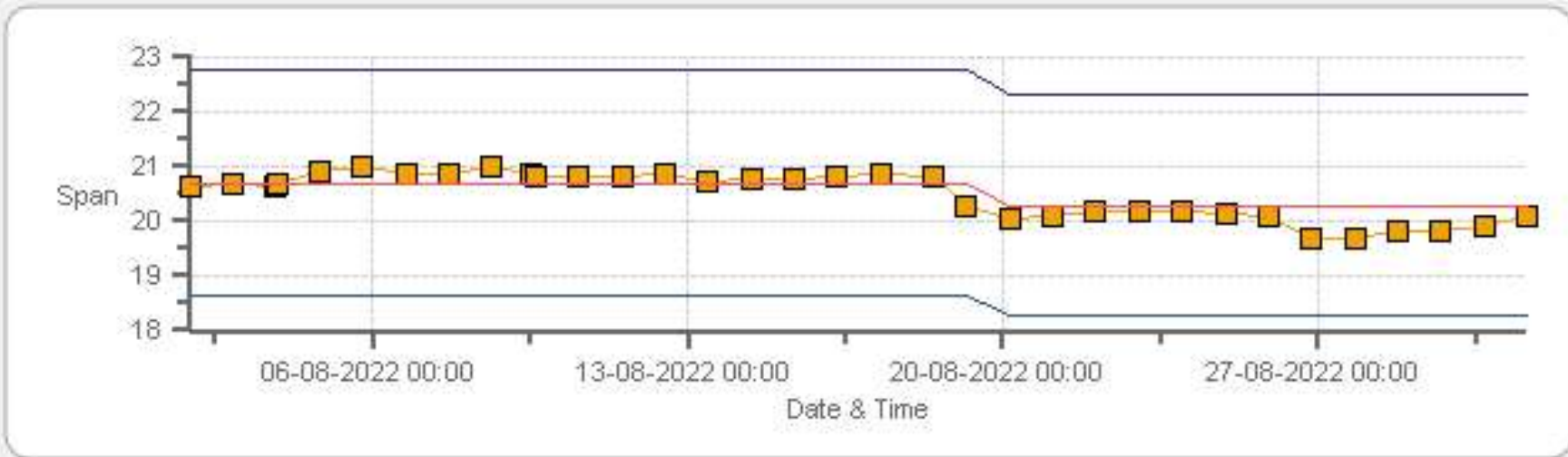
Span SpanRef Span Low Span High

THC55[ppm] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Zero



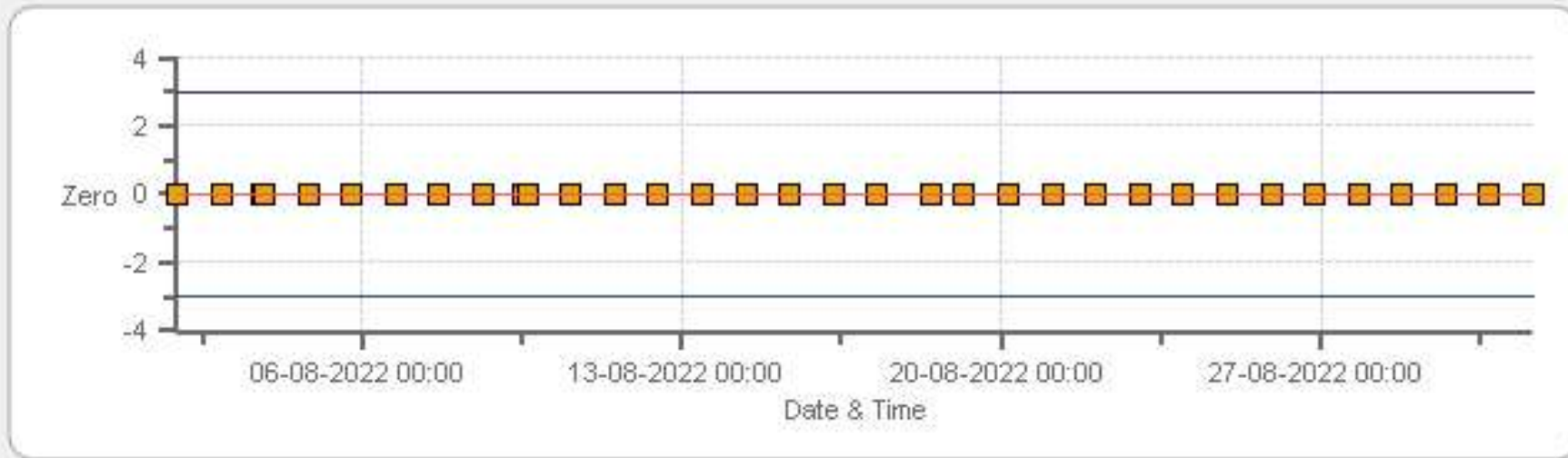
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Span



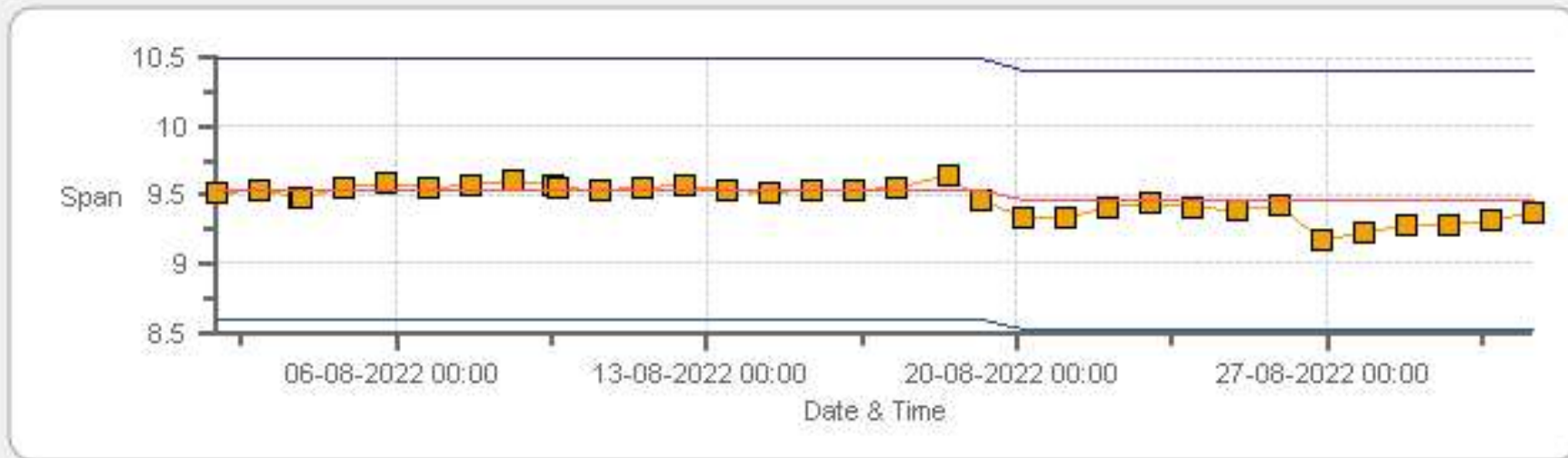
Span SpanRef Span Low Span High

CH4[ppm] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Zero



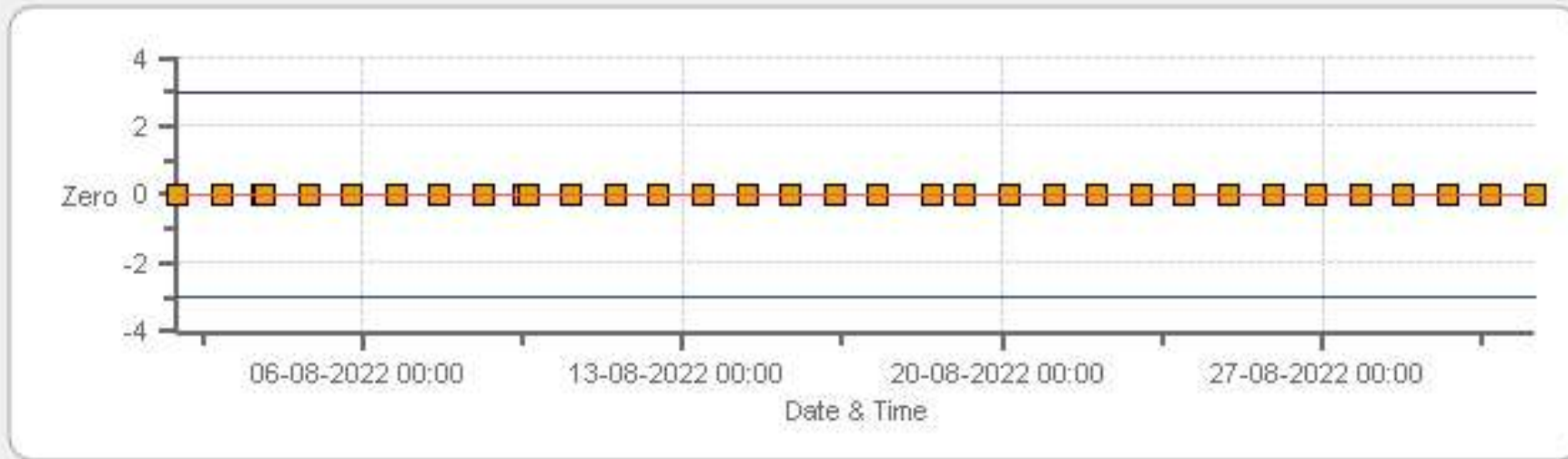
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Span



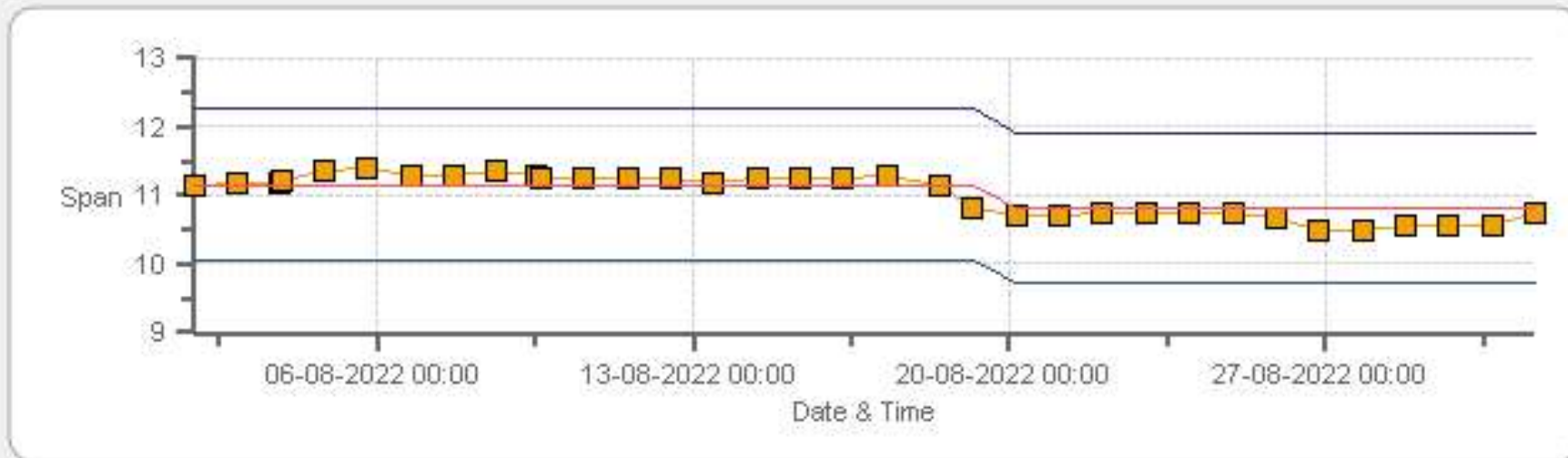
Span Span Ref Span Low Span High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 08-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	03-Aug-2022	PREVIOUS CALIBRATION DATE:	10-Jul-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	842b	BAROMETRIC (mBar):	935
PURPOSE:	Routine	START TIME (MST):	14:04
PERFORMED BY:	Limin Li	END TIME (MST):	18:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	422
INITIAL		FINAL	
BKG/OFFSET	8.1	BKG/OFFSET	8
COEF/SLOPE	1.108	COEF/SLOPE	1.093
Expected (reference) Value	244.5	Expected (reference) Value	244.5

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:

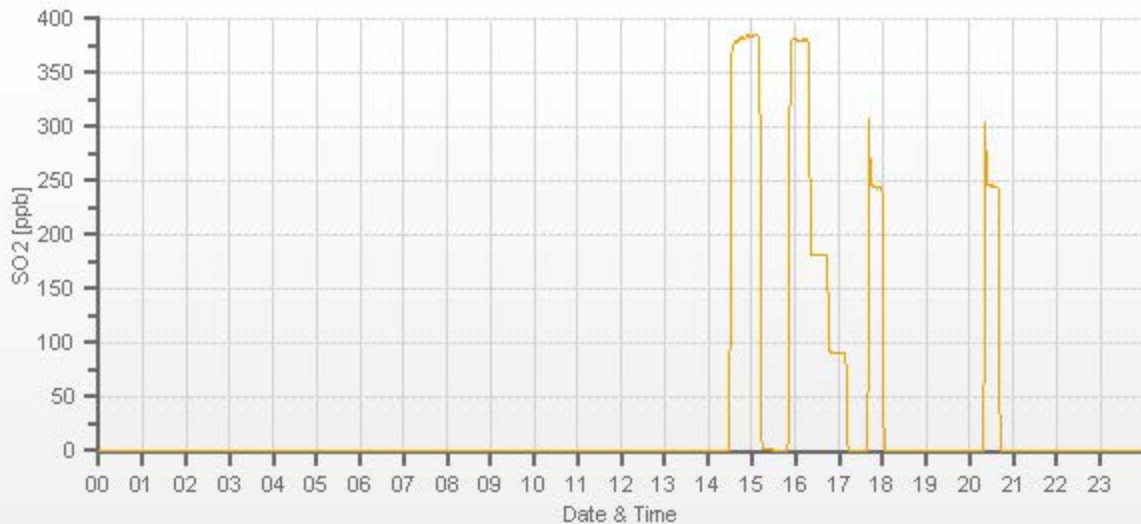
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
6000	 	6000	0.00	0	0	 	
5956	44.20	6000	380.12	384.2	380.2	0.989	1.000
5979	20.90	6000	179.74	n/a	181.3	n/a	0.991
5990	10.50	6000	90.30	n/a	91	n/a	0.992

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed.



TRS Analyzer Calibration by Dilution



DATE:	03-Aug-2022	PREVIOUS CALIBRATION DATE:	11-Jul-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	842b	BAROMETRIC (mBar):	935
PURPOSE:	Routine	START TIME (MST):	14:04
PERFORMED BY:	Limin Li	END TIME (MST):	18:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	371
INITIAL		FINAL	
BKG/OFFSET	12.9	BKG/OFFSET	13.9
COEF/SLOPE	0.888	COEF/SLOPE	0.956
Expected (reference) Value	46.5	Expected (reference) Value	49.52

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):	1500	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:	14:28	SO2 Conc (ppb)	380
END TIME:	14:48	Analyzer Response (ppb)	0.0

CALIBRATION:

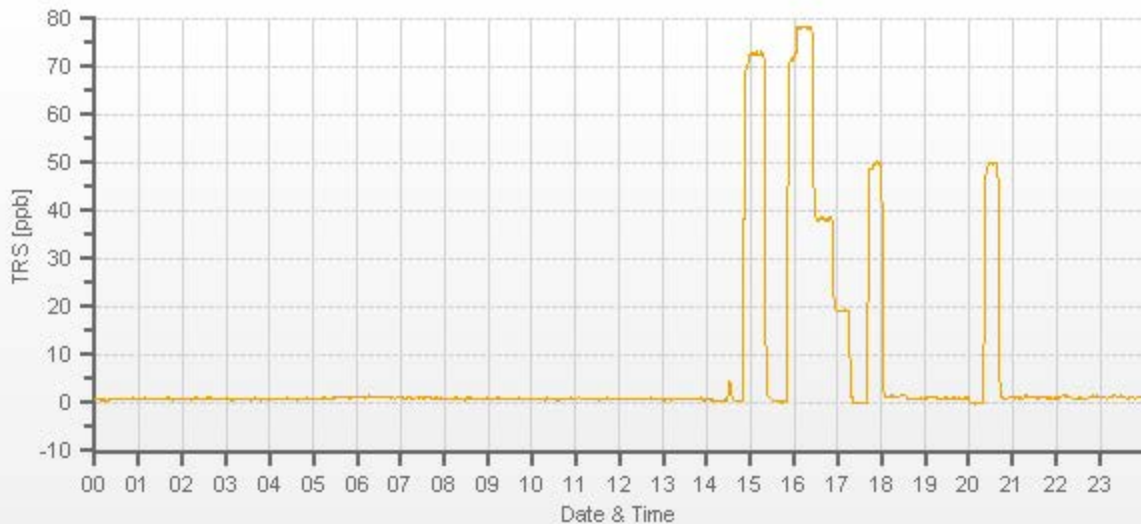
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	0.2	0	1.000	1.000
7443	57.35	7500	78.00	72.76	77.96	1.075	1.000
7472	27.94	7500	38.00	n/a	38.08	n/a	0.998
7486	13.97	7500	19.00	n/a	18.68	n/a	1.017

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

TRS Converter CDNOVA CDN #576. Change sample filter.



TRS Analyzer Calibration by Dilution



DATE:	25-Aug-2022	PREVIOUS CALIBRATION DATE:	03-Aug-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5
LOCATION:	842b	BAROMETRIC (mBar):	938
PURPOSE:	Removal/Shut-down	START TIME (MST):	16:45
PERFORMED BY:	Chris Wesson	END TIME (MST):	18:32

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	372
INITIAL		FINAL	
BKG/OFFSET	14	BKG/OFFSET	n/a
COEF/SLOPE	0.956	COEF/SLOPE	n/a
Expected (reference) Value	49.52	Expected (reference) Value	n/a

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:

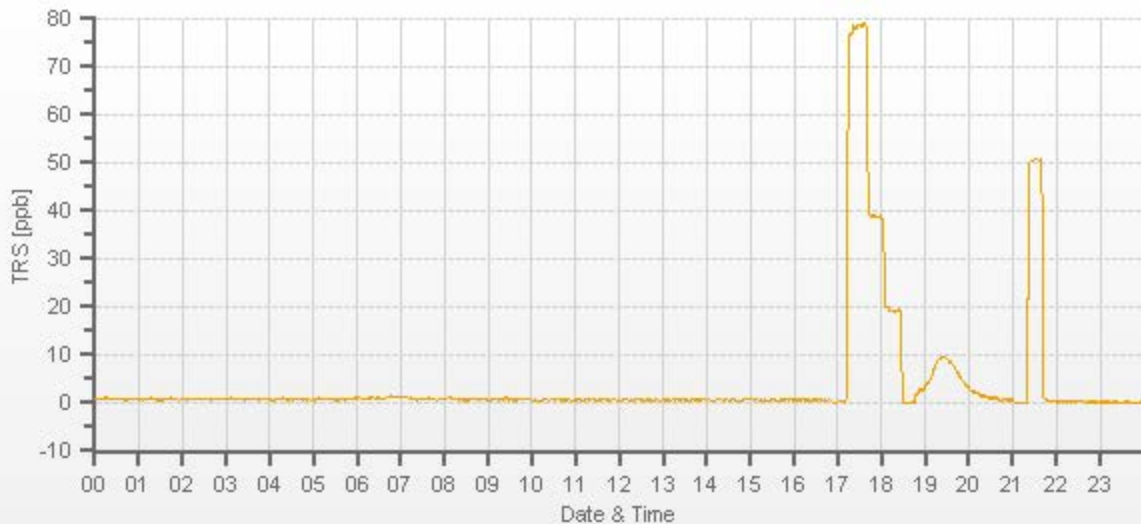
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3999	33.10	3999	0.00	-0.07	n/a	0.995	n/a
3968	33.10	4001	77.85	78.15	n/a	0.995	n/a
3986	16.10	4002	37.86	38.52	n/a	0.981	n/a
3990	8.10	3998	19.06	18.84	n/a	1.008	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.007	-0.1%

COMMENTS:

TRS Converter CDNOVA CDN #583 Shutdown due to span instability



TRS Analyzer Calibration by Dilution



DATE:	26-Aug-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	842b	BAROMETRIC (mBar):	931
PURPOSE:	Install/Post-Repair	START TIME (MST):	09:35
PERFORMED BY:	Chris Wesson	END TIME (MST):	12:08

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	372
INITIAL		FINAL	
BKG/OFFSET	14	BKG/OFFSET	15.9
COEF/SLOPE	0.956	COEF/SLOPE	1.106
Expected (reference) Value	49.52	Expected (reference) Value	56.52

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:	08:53	SO2 Conc (ppb)	380
END TIME:	09:08	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
3999	33.10	3999	0.00	n/a	0	n/a	1.000
3967	33.10	4000	77.87	n/a	77.89	n/a	1.000
3985	16.20	4001	38.10	n/a	37.96	n/a	1.004
3994	8.10	4002	19.05	n/a	18.75	n/a	1.016

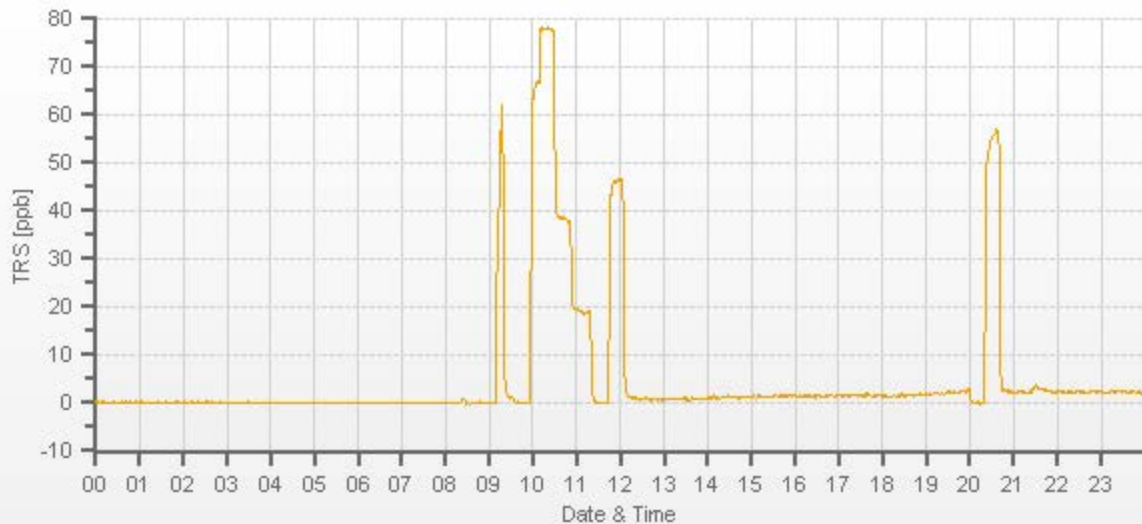
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.2%

COMMENTS:

TRS Converter CDNOVA CDN #583

TRS[ppb] Station: PRAMP 842b Daily: 26-08-2022 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202208-01561

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	03-Aug-2022	PREVIOUS CALIBRATION DATE:	10-Jul-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	20.5		Thermo 55i	1501663728	1022
LOCATION:	842b	BAROMETRIC (mBar):	935	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	14:06	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	19:38	PREVIOUS CF:	0.989	1.001	0.995

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:	26701218	ID:	1105	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	10-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
	9.54	11.16	20.70		9.54	11.16	20.70

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	14.61	13.23	27.84	14.61	13.41	28.02	0.999	1.013	1.005	0.999	0.999	0.999
3458	42.40	3500	7.37	6.76	14.13	n/a	n/a	n/a	7.17	6.73	13.90	n/a	n/a	n/a	1.027	1.005	1.016
3479	21.20	3500	3.68	3.38	7.06	n/a	n/a	n/a	3.52	3.42	6.94	n/a	n/a	n/a	1.046	0.989	1.018

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	1.003	-0.5%	Sample filter changed. Multiple NMHC spikes during As-found high. Reset H2 generator. No further issues, >15mins stability achieved.
NMHC	1.000	1.000	0.0%	
THC	1.000	1.002	-0.3%	
				Use Zero Chrom? Yes



CAL-PRAMP-202208-01561

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	17-Aug-2022	PREVIOUS CALIBRATION DATE:	03-Aug-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5		Thermo 55i	1501663728	1052
LOCATION:	842b	BAROMETRIC (mBar):	949	PARAMETER:	CH4	NMHC	THC
PURPOSE	Removal/Shut-down	START TIME (MST):	11:12	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:10	PREVIOUS CF:	0.999	0.999	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:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17100415	ID:	916	CYLINDER (psi):	1090	LOW ID:	n/a
MFC CALIBRATION DATE:	28-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
	9.54	11.16	20.70		n/a	n/a	n/a

CALIBRATION:

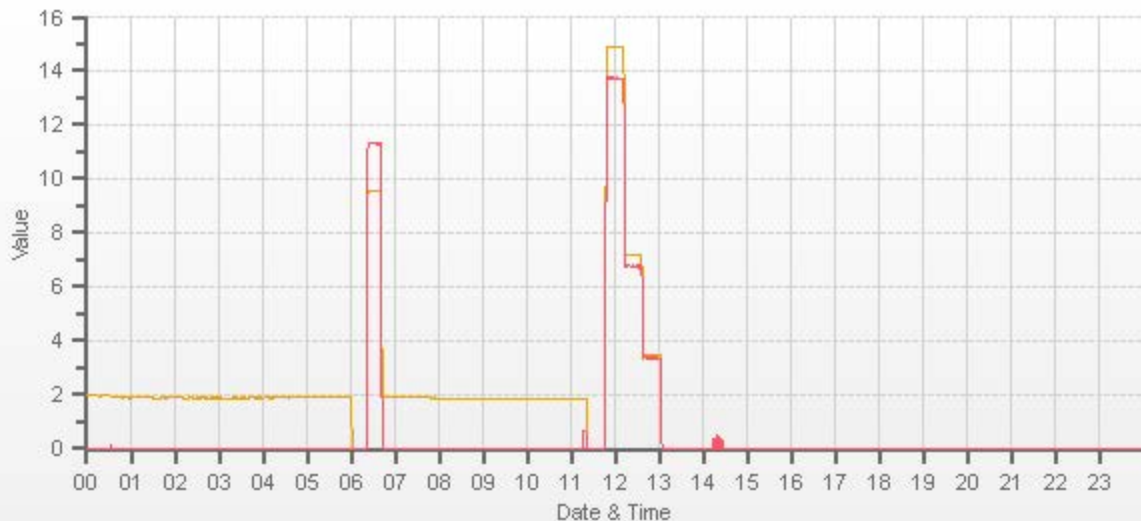
FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
2999	X	2999	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a	X	X	X	X	X	X
2927	72.00	2999	14.60	13.40	28.00	14.90	13.71	28.61	n/a	n/a	n/a	0.980	0.978	0.979	n/a	n/a	n/a
2963	36.00	2999	7.30	6.70	14.00	7.20	6.77	13.96	n/a	n/a	n/a	1.014	0.990	1.003	n/a	n/a	n/a
2980	18.00	2998	3.65	3.35	7.00	3.50	3.38	6.88	n/a	n/a	n/a	1.043	0.992	1.018	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH ₄	1.000	1.024	-0.7%
NMHC	1.000	1.023	-0.2%
THC	1.000	1.024	-0.4%

Comments:

Shutdown - no issues. Removed from service due to non-linear response.	
Use Zero Chrom?	Yes



CAL-PRAMP-202208-01561

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	18-Aug-2022	PREVIOUS CALIBRATION DATE:	n/a	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9		Thermo 55i	1193585652	1208.7
LOCATION:	842b	BAROMETRIC (mBar):	946	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Install/Post-Repair	START TIME (MST):	08:02	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	10:48	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:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17100415	ID:	916	CYLINDER (psi):	1090	LOW ID:	n/a
MFC CALIBRATION DATE:	28-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:

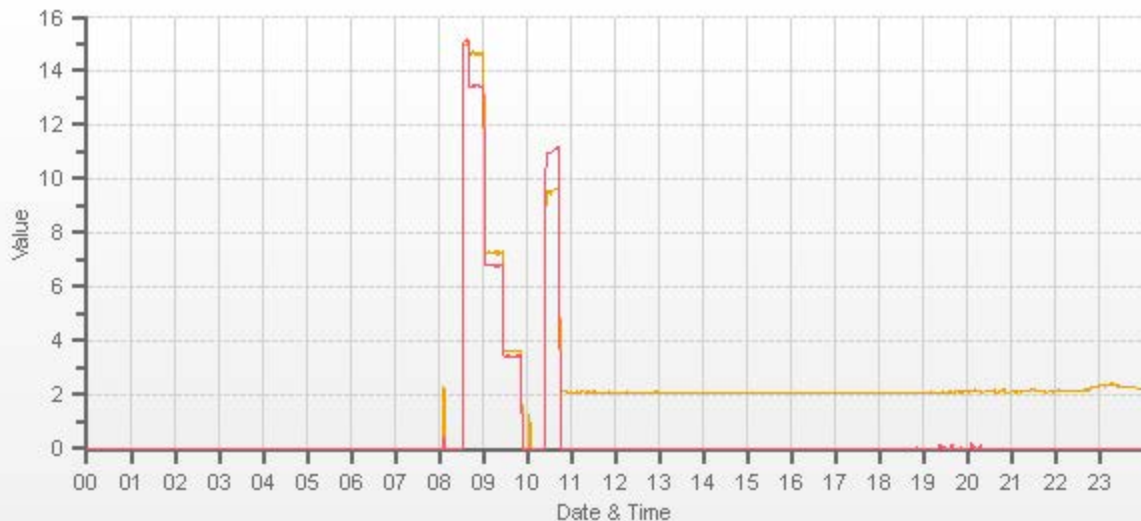
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	n/a	n/a	n/a		TBD	TBD	TBD

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
3100	74.40	3100	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
3025	74.40	3099	14.60	13.40	28.00	n/a	n/a	n/a	14.65	13.43	28.07	n/a	n/a	n/a	0.996	0.998	0.997
3063	37.20	3100	7.30	6.70	14.00	n/a	n/a	n/a	7.26	6.78	14.04	n/a	n/a	n/a	1.005	0.988	0.997
3080	18.60	3099	3.65	3.35	7.00	n/a	n/a	n/a	3.64	3.45	7.08	n/a	n/a	n/a	1.003	0.971	0.989

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	1.004	-0.1%	Install calibration - no issues.
NMHC	1.000	1.000	0.3%	
THC	1.000	1.002	0.1%	
				Use Zero Chrom? No



CAL-PRAMP-202208-01561

Meteorological System Checklist



Date:	August 3, 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:	July 10, 2022	Channel offline =14:38-15:54am, Audit 11 tip:15:52-15:53am.
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)	yes	
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
11	1.1	-0.10

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	July 10, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (°C):	21.0
Station - Ambient Temperature (°C):	20.7
Temperature Difference (°C):	0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	July 10, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	934.3
Station Pressure - Units/Reading:	millibar	933.8
Pressure Tolerance +/- 15% of error:	794 - 1074	0.05%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	July 10, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	50.10	
Station Hygrometer % RH- Reading:	51.20	
RH Tolerance +/- 15% of difference:	42.59 - 57.62	-2.2%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	July 10, 2022	Previous check date:	July 10, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	6.8	Wind Direction on Data Logger:	W
		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.



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Limin Li
Audit Location:	842b	Reviewed By:	Chris Wesson
Audit Date:	August 3, 2022	Start/End Time (mst):	16:30/17:58
Calibration Purpose:	routine annual	Weather Conditions:	Mainly sunny

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:	n/a
Previous Cal/Audit Date:	July 4, 2022	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	1	355	1.0	0.0	0.5
30	330	29	334	1.0	-4.0	2.5
60	300	58	305	2.0	-5.0	3.5
90	270	88	275	2.0	-5.0	3.5
120	240	119	244	1.0	-4.0	2.5
150	210	149	212	1.0	-2.0	1.5
180	180	180	180	0.0	0.0	0.0
210	150	211	150	-1.0	0.0	0.5
240	120	243	119	-3.0	1.0	2.0
270	90	275	88	-5.0	2.0	3.5
300	60	305	59	-5.0	1.0	3.0
330	30	333	30	-3.0	0.0	1.5
355	0	355	1	0.0	1.0	0.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.9

Comments:

Physical inspection completed. No issues.



Peace River Area Monitoring Program

AUGUST 2022

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202208-01562

Operation and Maintenance:

Bureau Veritas Canada

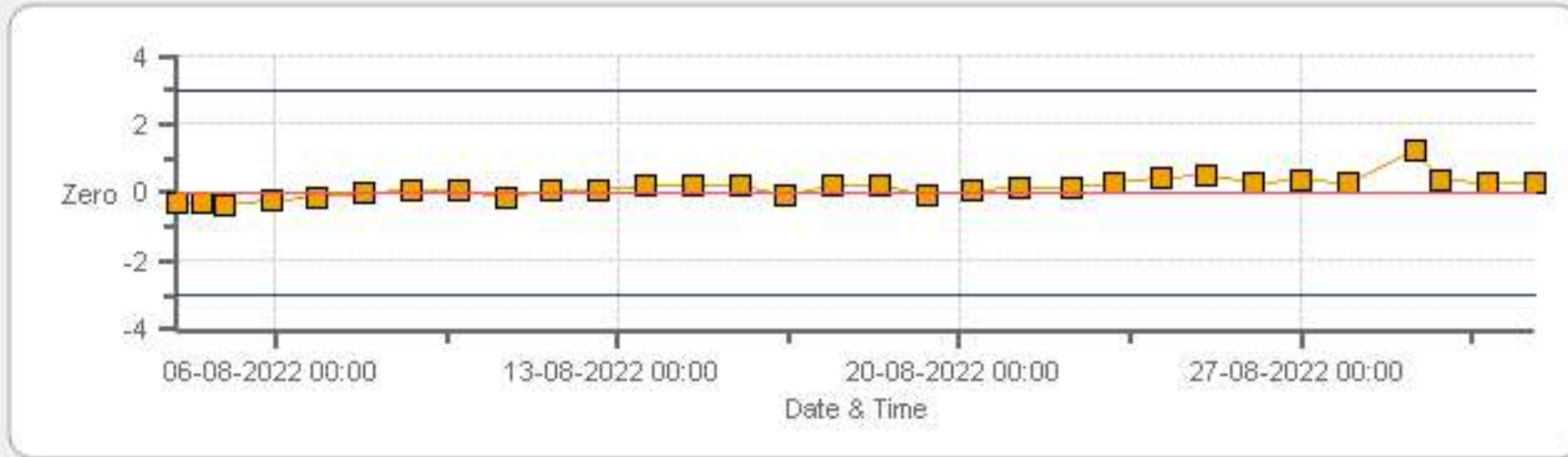
Data Validation and Report:

Bureau Veritas Canada

September 15, 2022

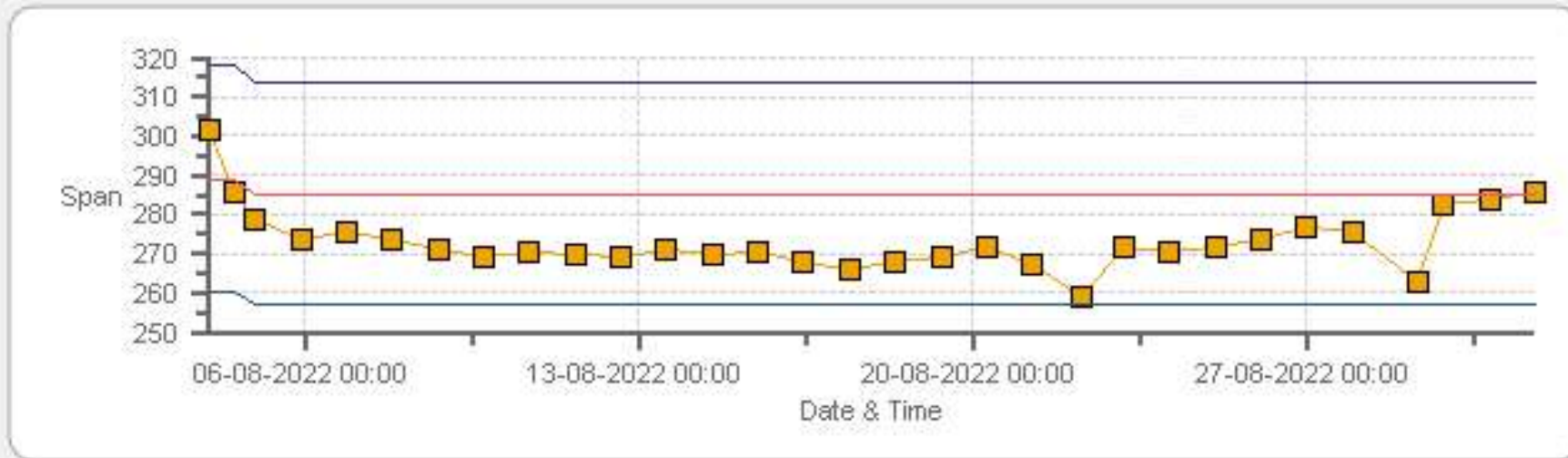
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Zero



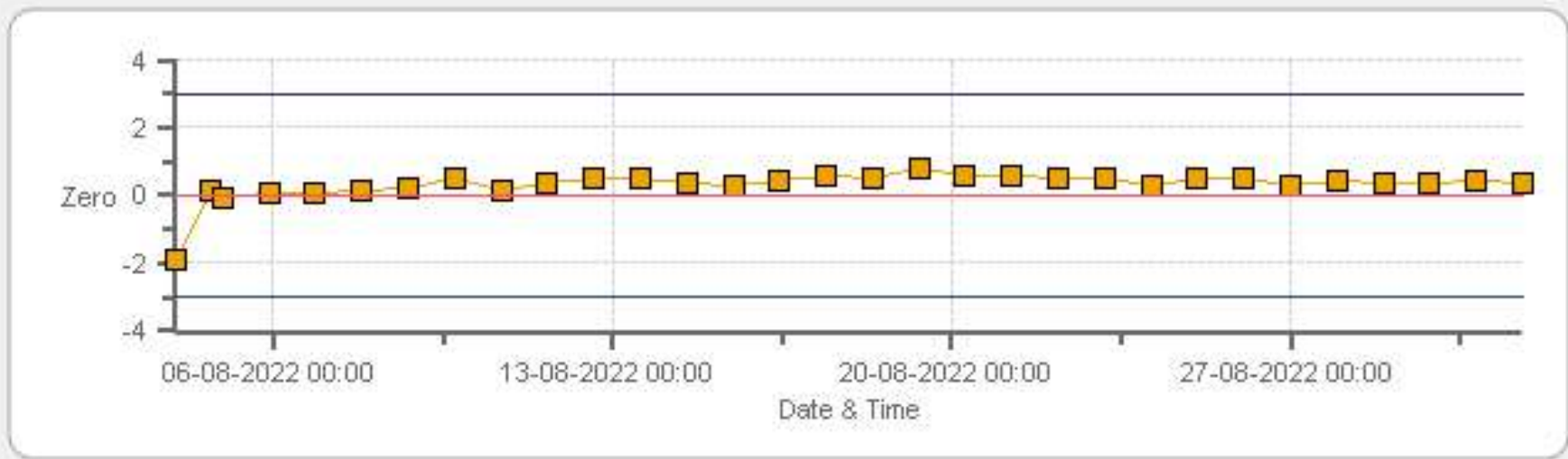
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Span



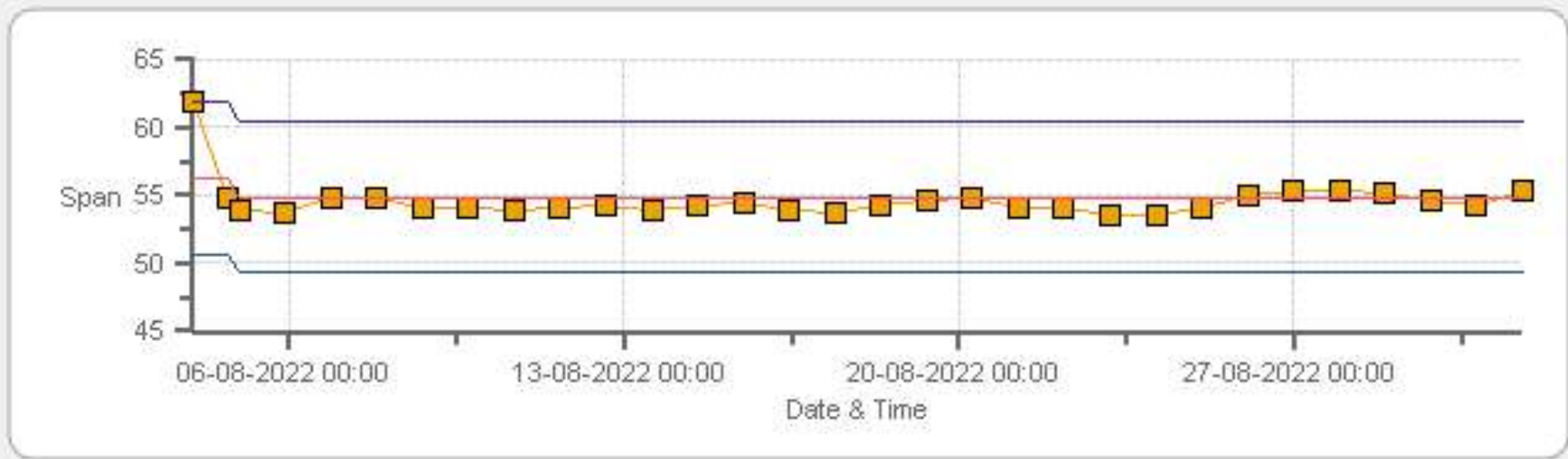
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Zero



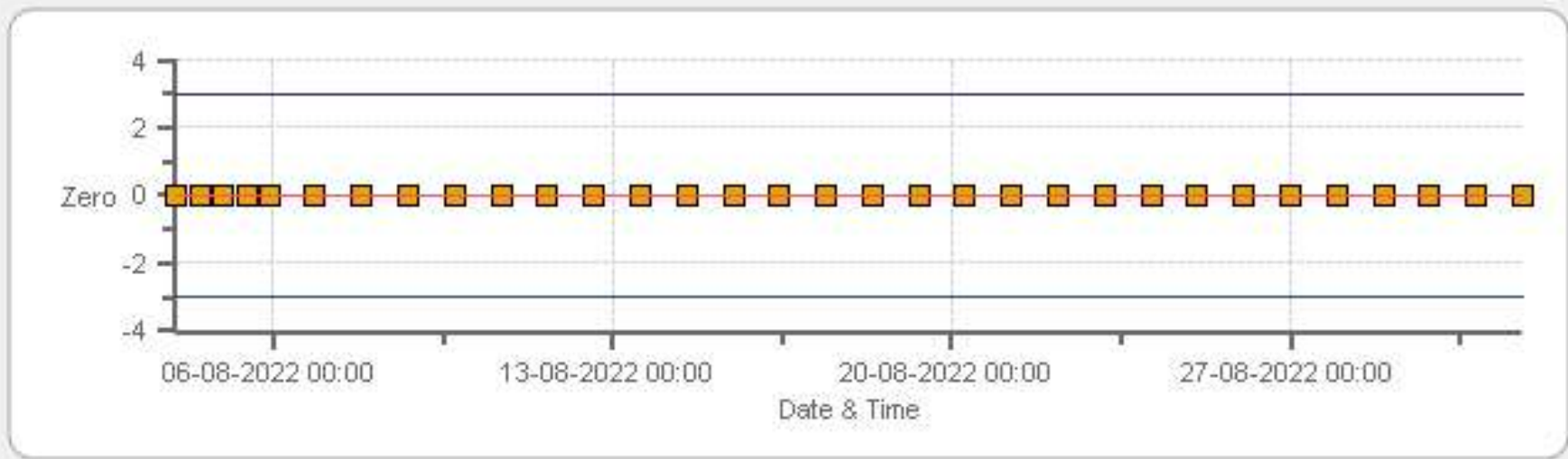
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Span



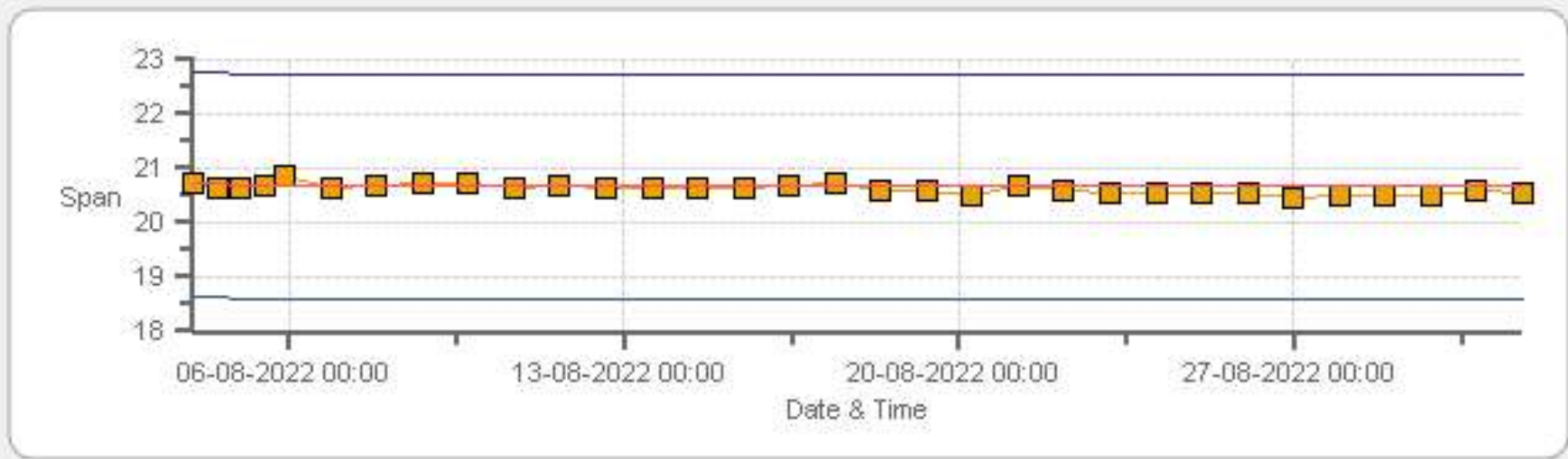
Span Span Ref Span Low Span High

THC55[ppm] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Zero



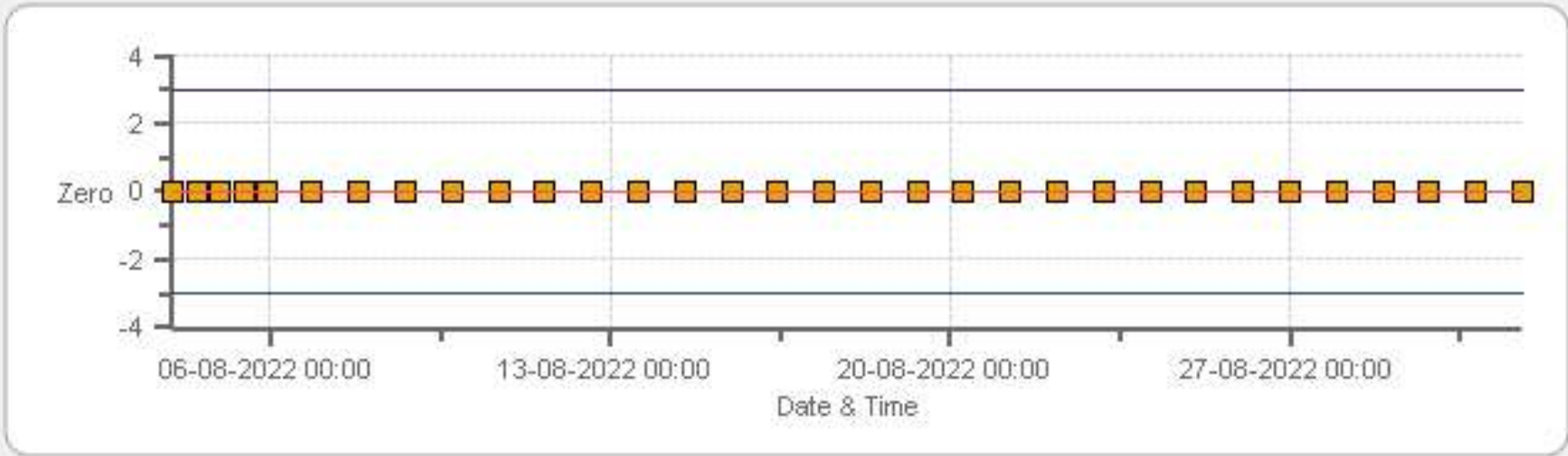
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Span



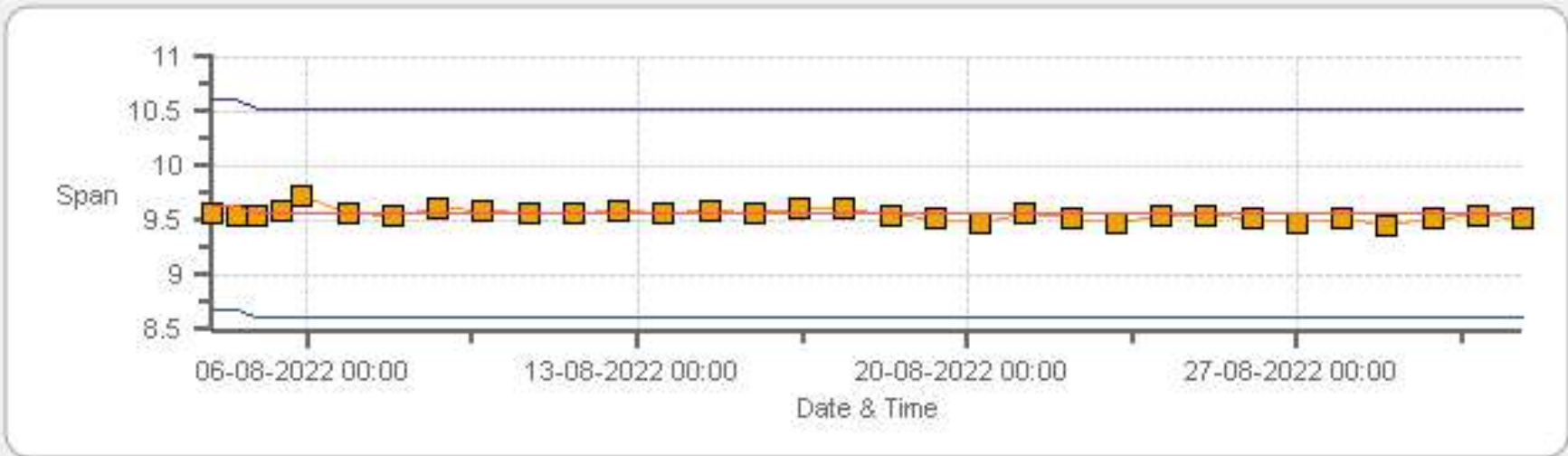
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Zero



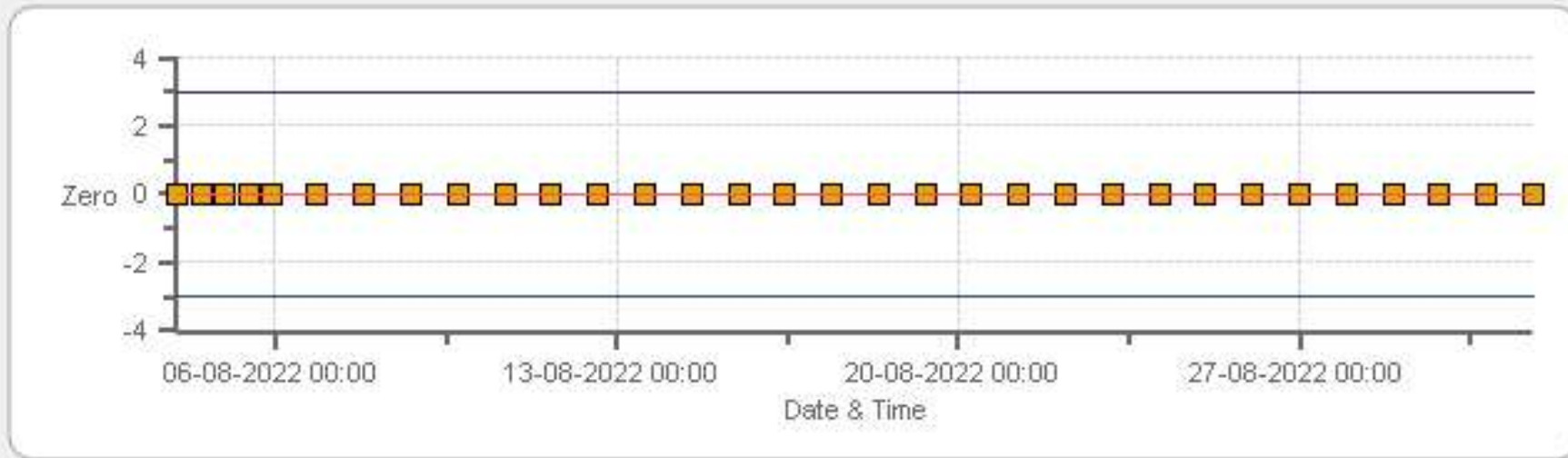
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Span



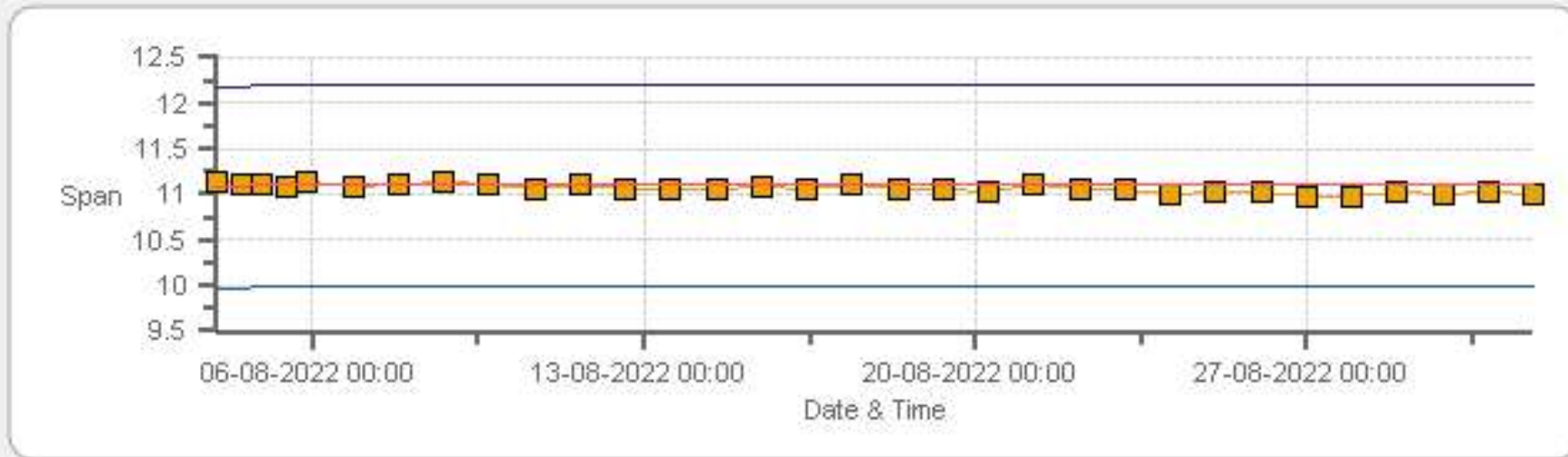
Span Span Ref Span Low Span High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 08-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	04-Aug-2022	PREVIOUS CALIBRATION DATE:	20-Jul-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7
LOCATION:	986C	BAROMETRIC (mBar):	935
PURPOSE:	Routine	START TIME (MST):	07:33
PERFORMED BY:	Limin Li	END TIME (MST):	11:50

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	427
INITIAL		FINAL	
BKG/OFFSET	14.1	BKG/OFFSET	14.5
COEF/SLOPE	1.011	COEF/SLOPE	1.028
Expected (reference) Value	288.9	Expected (reference) Value	285.3

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):	580	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:

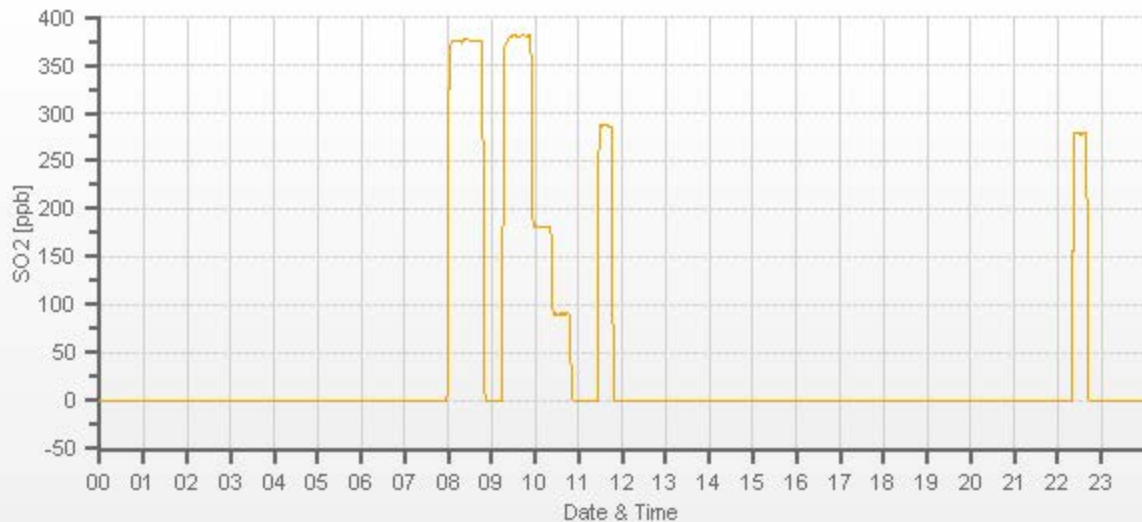
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
6000	 	6000	0.00	-0.3	0	 	
5956	44.20	6000	380.12	374.9	380.2	1.013	1.000
5979	20.90	6000	179.74	n/a	181.3	n/a	0.991
5990	10.50	6000	90.30	n/a	90.2	n/a	1.001

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.1%

COMMENTS:

Sample filter changed.



TRS Analyzer Calibration by Dilution



DATE:	04-Aug-2022	PREVIOUS CALIBRATION DATE:	27-Jul-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7
LOCATION:	986C	BAROMETRIC (mBar):	935
PURPOSE:	Removal/Shut-down	START TIME (MST):	07:33
PERFORMED BY:	Limin Li	END TIME (MST):	09:41

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	420
INITIAL		FINAL	
BKG/OFFSET	14.9	BKG/OFFSET	14.9
COEF/SLOPE	0.936	COEF/SLOPE	0.936
Expected (reference) Value	56.33	Expected (reference) Value	56.33

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):	1500	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:	07:58	SO2 Conc (ppb)	380
END TIME:	08:18	Analyzer Response (ppb)	0.2

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	-1.19	n/a	1.000	1.000
7443	57.35	7500	78.00	73.32	n/a	1.047	n/a
7472	27.94	7500	38.00	35.29	n/a	1.042	n/a
7486	13.97	7500	19.00	16.64	n/a	1.066	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.957	-1.3%

COMMENTS:

Shutdown for scrubber bead maintenance.

TRS Analyzer Calibration by Dilution



DATE:	04-Aug-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	23.8
LOCATION:	986C	BAROMETRIC (mBar):	937
PURPOSE:	Install/Post-Repair	START TIME (MST):	13:06
PERFORMED BY:	Limin Li	END TIME (MST):	17:01

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	12.8
COEF/SLOPE	n/a	COEF/SLOPE	0.92
Expected (reference) Value	n/a	Expected (reference) Value	54.9

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):	1500	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:	13:26	SO2 Conc (ppb)	380
END TIME:	13:46	Analyzer Response (ppb)	0.0

CALIBRATION:

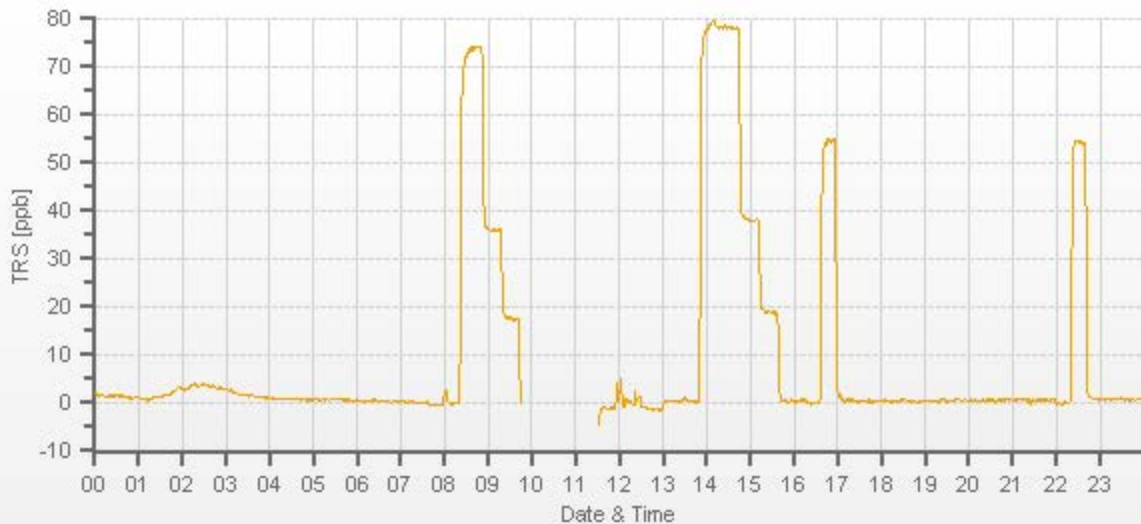
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	n/a	0	n/a	n/a
7443	57.35	7500	78.00	n/a	78.02	n/a	1.000
7472	27.94	7500	38.00	n/a	38.07	n/a	0.998
7486	13.97	7500	19.00	n/a	18.65	n/a	1.019

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	-0.1%

COMMENTS:

Change sample filter. BV TRS converter, sn:552.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	04-Aug-2022	PREVIOUS CALIBRATION DATE:	20-Jul-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7		Thermo 55i	1433563261	1164
LOCATION:	986C	BAROMETRIC (mBar):	935	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	07:49	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	11:50	PREVIOUS CF:	0.997	0.999	0.998

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:	26701218	ID:	1105	CYLINDER (psi):	1300	LOW ID:	n/a
MFC CALIBRATION DATE:	10-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:

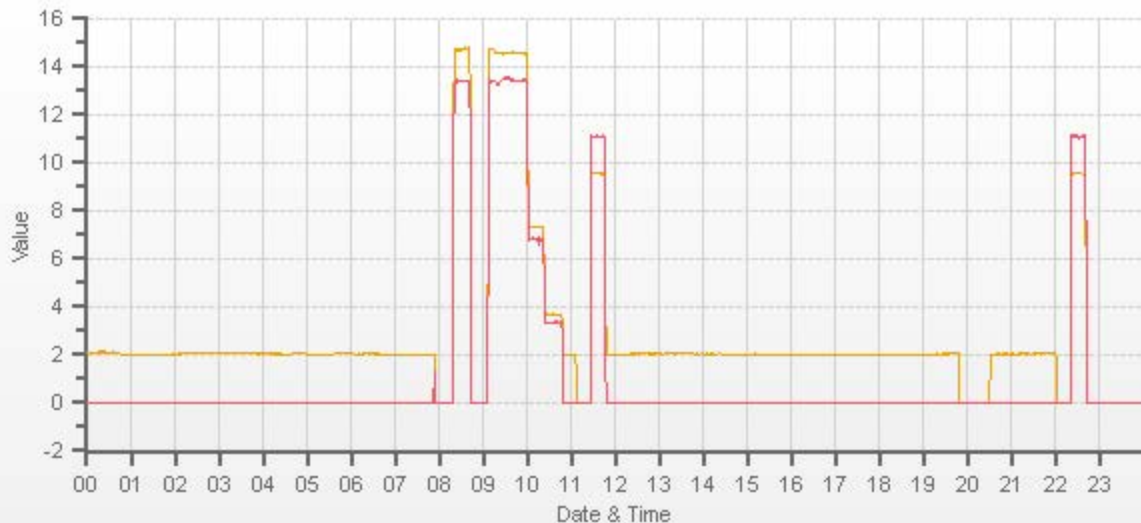
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.64	11.07	20.71		9.56	11.10	20.66

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	14.77	13.41	28.18	14.59	13.42	28.01	0.988	0.999	0.993	1.000	0.998	0.999
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.33	6.82	14.15	n/a	n/a	n/a	0.995	0.982	0.989
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.69	3.39	7.08	n/a	n/a	n/a	0.989	0.988	0.988

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:	
CH ₄	1.000	0.999	0.1%	Sample filter changed	
NMHC	1.000	1.002	0.2%		
THC	1.000	1.000	0.2%		
				Use Zero Chrom?	No



CAL-PRAMP-202208-01562

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	05-Aug-2022	PREVIOUS CALIBRATION DATE:	n/a	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1		Thermo 55i	1433563261	1203
LOCATION:	986C	BAROMETRIC (mBar):	945	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Install/Post-Repair	START TIME (MST):	09:03	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	11:32	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:	26701218	ID:	1105	CYLINDER (psi):	1250	LOW ID:	n/a
MFC CALIBRATION DATE:	10-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:

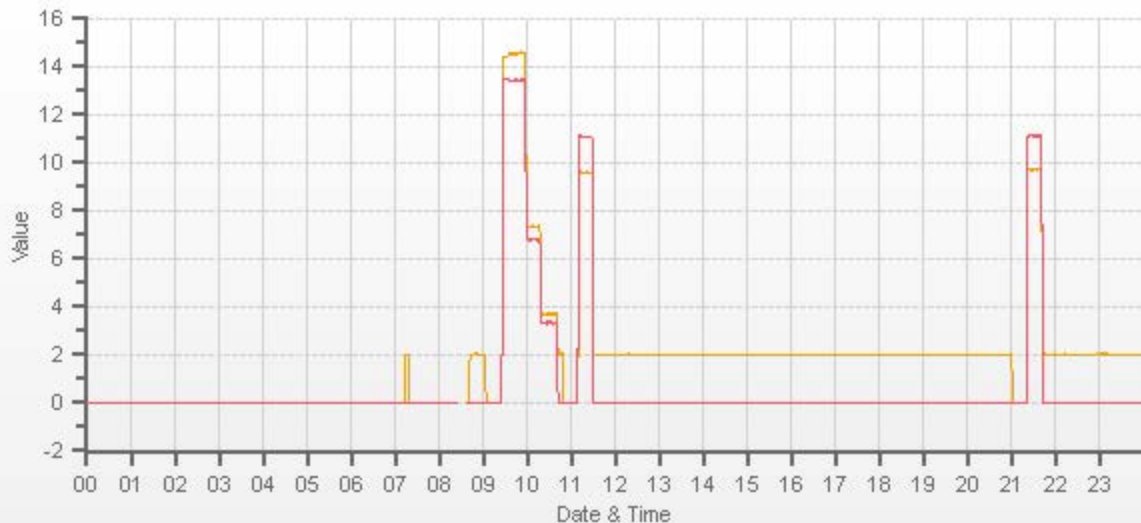
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	n/a	n/a	n/a		n/a	9.56	11.10

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	n/a	n/a	n/a	14.58	13.43	28.01	n/a	n/a	n/a	1.001	0.998	0.999
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.38	6.82	14.20	n/a	n/a	n/a	0.989	0.982	0.986
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.71	3.36	7.07	n/a	n/a	n/a	0.983	0.997	0.990

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:	
CH ₄	1.000	0.998	0.2%	Post-repair following sample pump replacement	
NMHC	1.000	1.003	0.1%		
THC	1.000	1.001	0.2%		
				Use Zero Chrom?	No



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CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	August 5, 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:	July 20, 2022	Tip test: 09:11am-0912am. Offline time:09:09am-09:16am.
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)	yes	
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:	July 20, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (°C):	14.2
Station - Ambient Temperature (°C):	13.6
Temperature Difference (°C):	0.6

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	July 4, 2022
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023
Reference Pressure - Units/Reading:	millibar 945.4
Station Pressure - Units/Reading:	millibar 945.2
Pressure Tolerance +/- 15% of error:	804 - 1087 0.02%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	July 4, 2022
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Hygrometer % RH- Reading:	83.53
Station Hygrometer % RH- Reading:	85.90
RH Tolerance +/- 15% of difference:	71.00 - 96.06 -2.8%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	July 4, 2022	Previous check date:	July 4, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	NW
Wind speed on Data Logger (kph):	6.1	Wind Direction on Data Logger:	NW
		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



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Limin Li
Audit Location:	986C	Reviewed By:	Chris Wesson
Audit Date:	August 5, 2022	Start/End Time (mst):	09:37/10:32
Calibration Purpose:	routine annual	Weather Conditions:	A few clouds

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:	July 3, 2021	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	2	354	2.0	1.0	1.5
30	330	32	333	-2.0	-3.0	2.5
60	300	61	303	-1.0	-3.0	2.0
90	270	90	273	0.0	-3.0	1.5
120	240	120	242	0.0	-2.0	1.0
150	210	150	210	0.0	0.0	0.0
180	180	180	179	0.0	1.0	0.5
210	150	210	149	0.0	1.0	0.5
240	120	242	120	-2.0	0.0	1.0
270	90	273	90	-3.0	0.0	1.5
300	60	303	61	-3.0	-1.0	2.0
330	30	332	32	-2.0	-2.0	2.0
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.3

Comments:

Magnetic declination = 15Deg(E)



Peace River Area Monitoring Program

AUGUST 2022

Ambient Air Monitoring Calibration Report

- RENO STATION-

CAL-PRAMP-202208-01563

Operation and Maintenance:

Bureau Veritas Canada

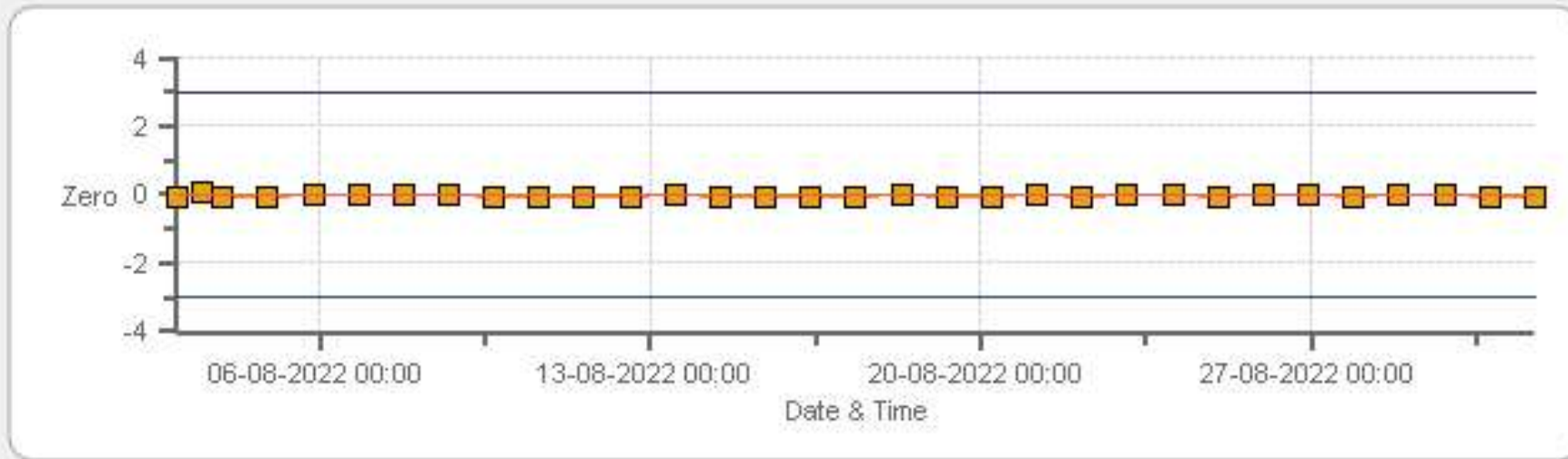
Data Validation and Report:

Bureau Veritas Canada

September 15, 2022

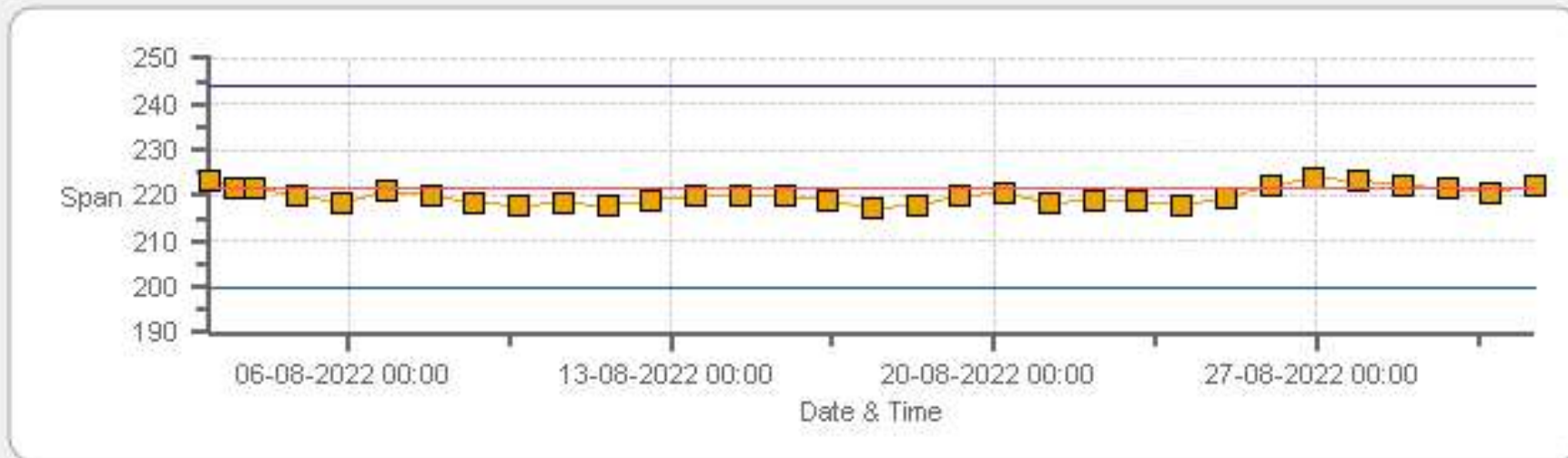
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Zero



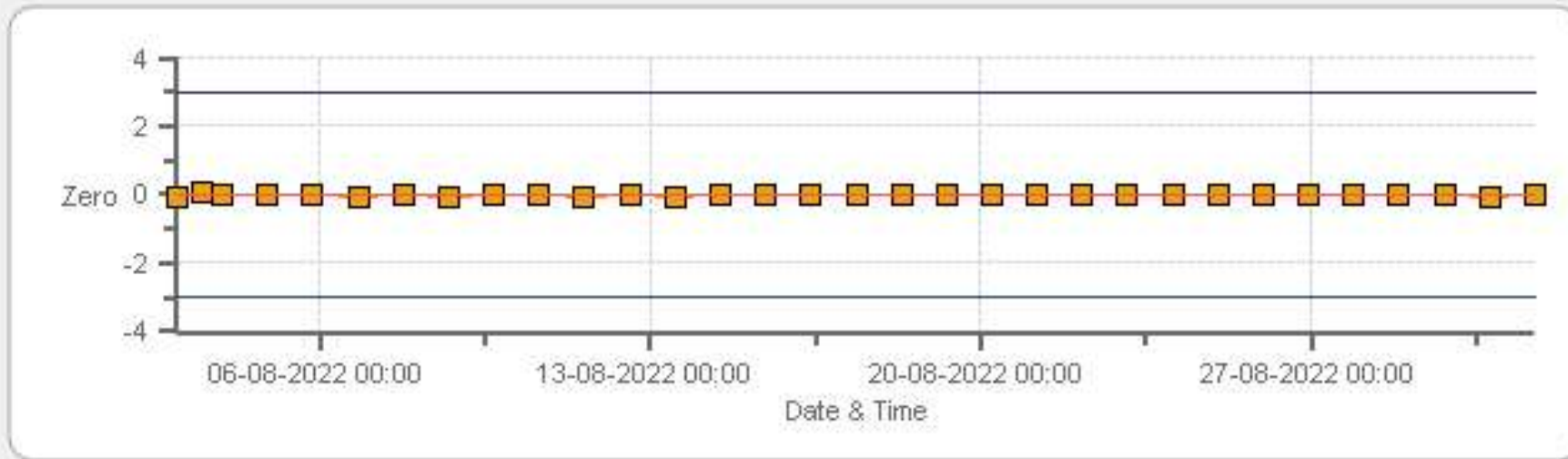
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Span



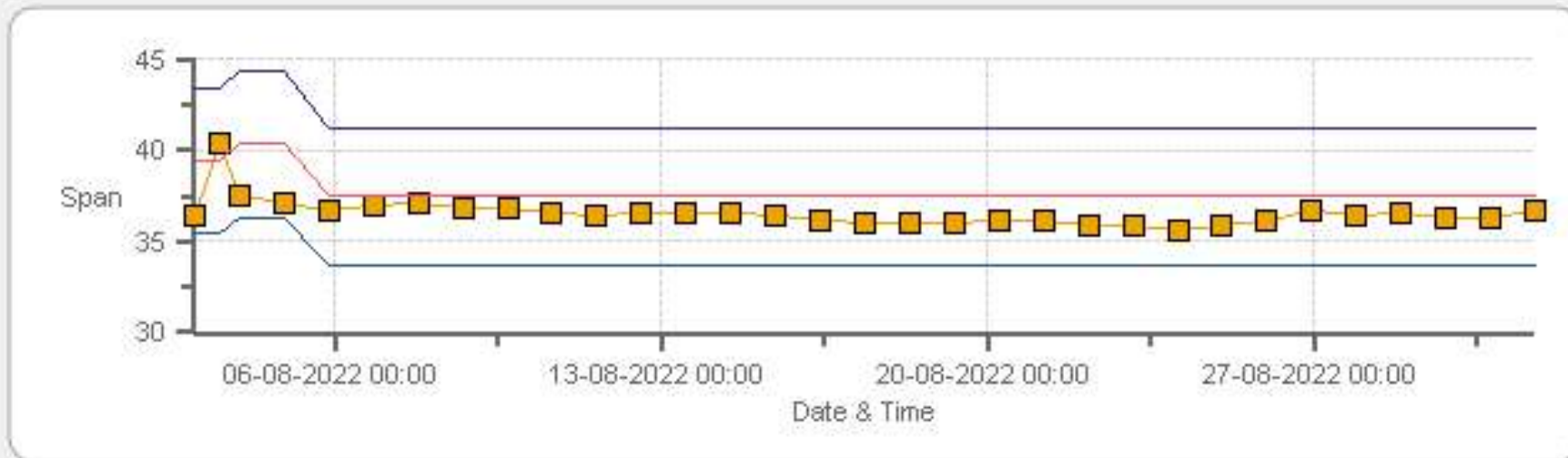
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Zero



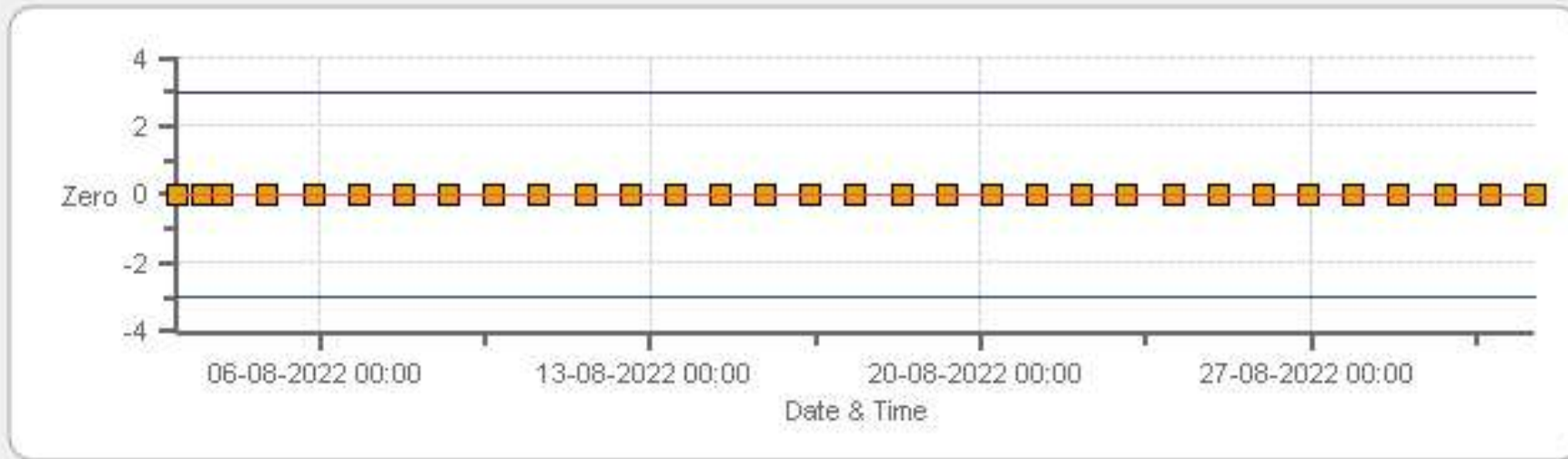
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Span



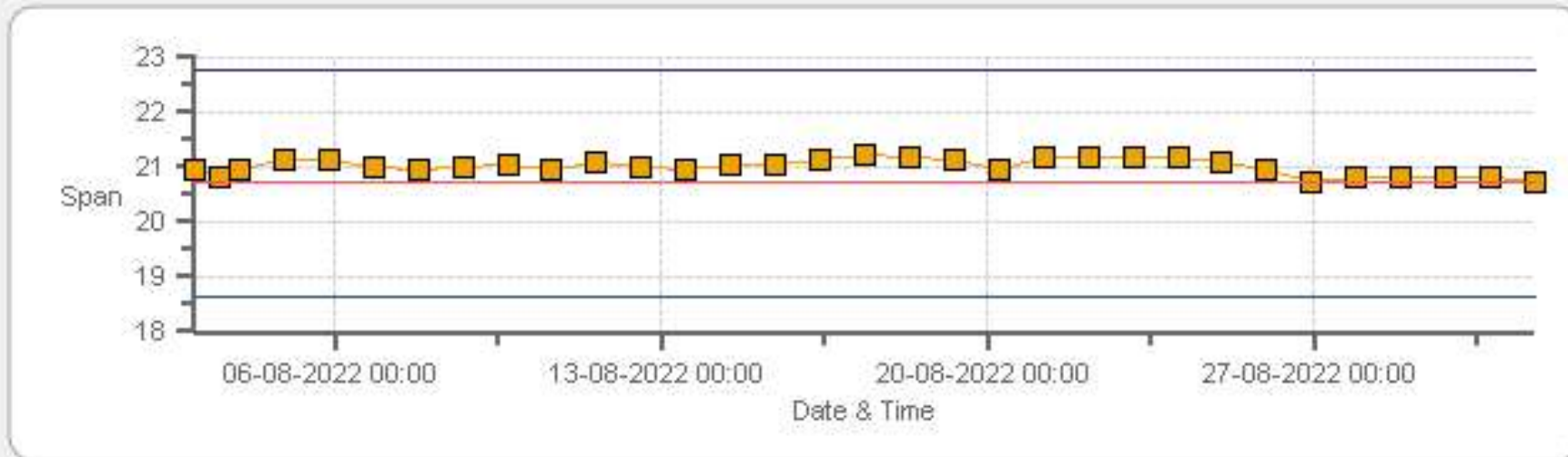
Span Span Ref Span Low Span High

THC55[ppm] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Zero



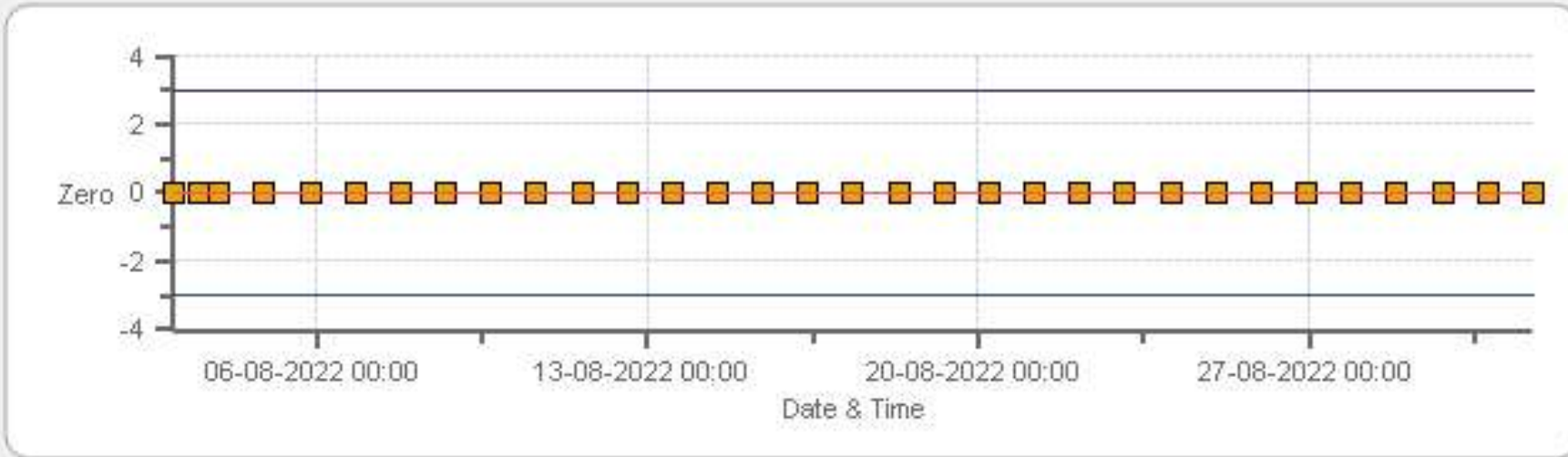
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THC55[ppm] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Span



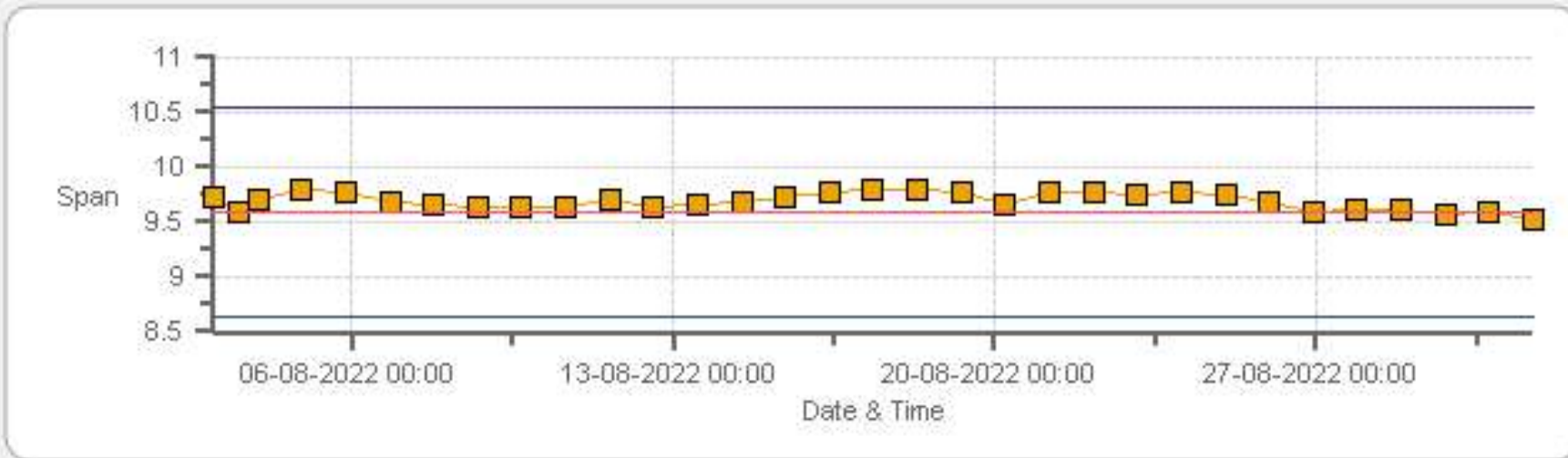
Span SpanRef Span Low Span High

CH4[ppm] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Zero



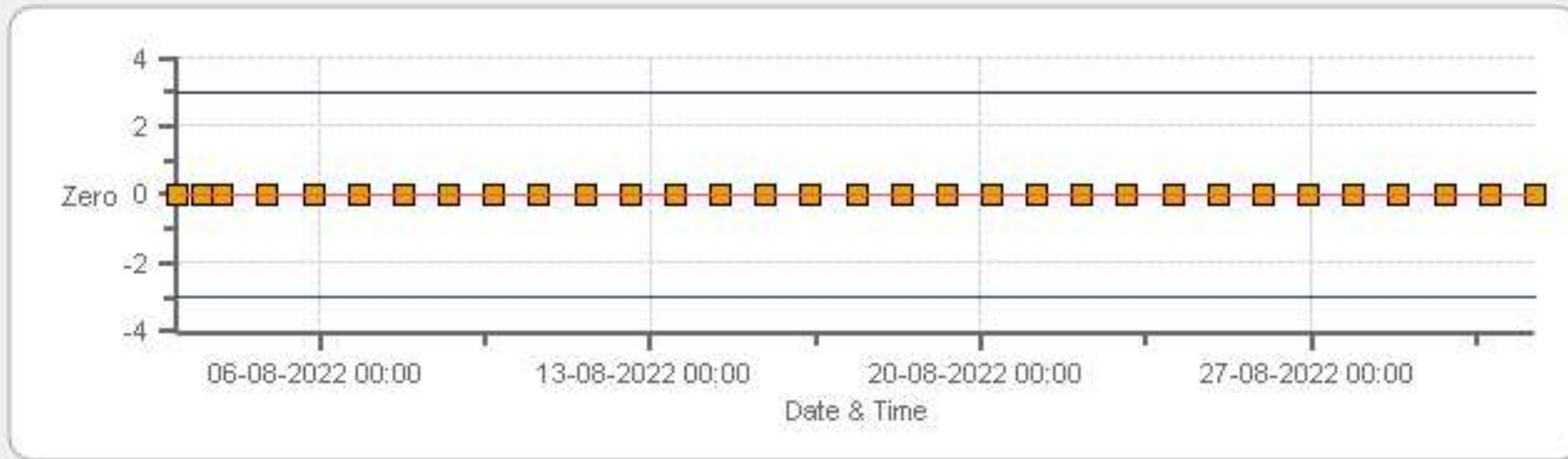
■ Zero
 — Zero Ref
 — Zero Low
 — Zero High

CH4[ppm] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Span



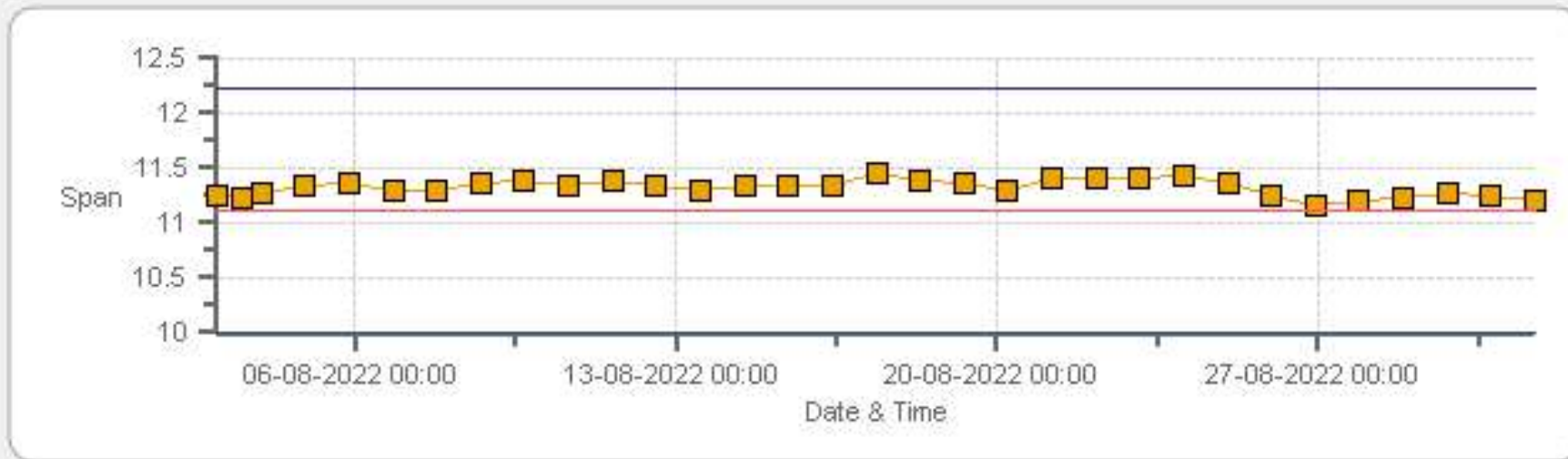
■ Span
 — SpanRef
 — Span Low
 — Span High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 08-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	03-Aug-2022	PREVIOUS CALIBRATION DATE:	21-Jul-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Reno	BAROMETRIC (mBar):	931
PURPOSE:	Routine	START TIME (MST):	08:27
PERFORMED BY:	Limin Li	END TIME (MST):	12:41

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	441
INITIAL		FINAL	
BKG/OFFSET	0.97	BKG/OFFSET	0.95
COEF/SLOPE	0.934	COEF/SLOPE	0.921
Expected (reference) Value	221.8	Expected (reference) Value	221.8

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):	550	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:

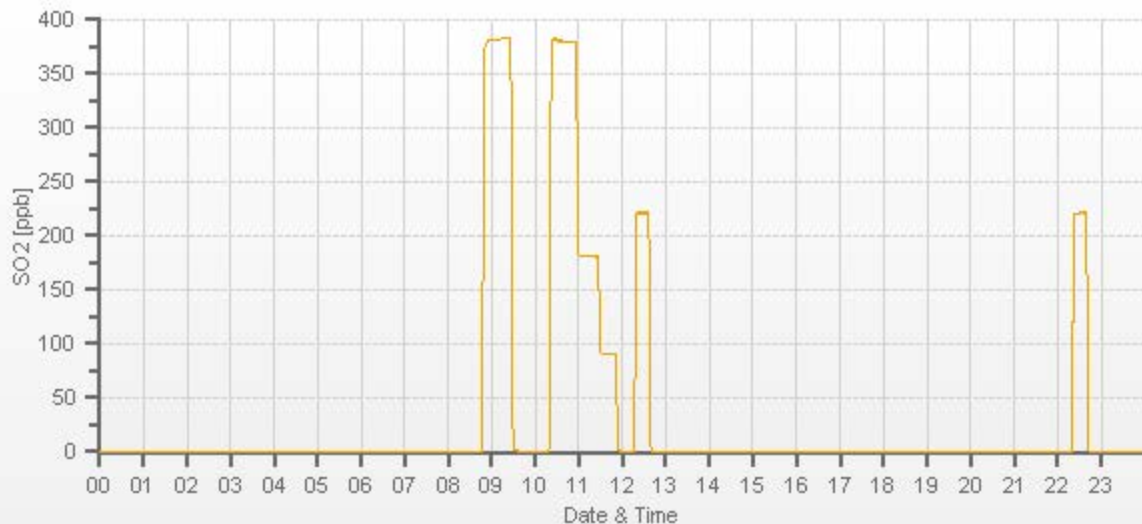
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
6000	 	6000	0.00	0	0	 	
5956	44.20	6000	380.12	383.2	380	0.992	1.000
5979	20.90	6000	179.74	n/a	180.8	n/a	0.994
5990	10.50	6000	90.30	n/a	90.3	n/a	1.000

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Change sample filter.



TRS Analyzer Calibration by Dilution



DATE:	03-Aug-2022	PREVIOUS CALIBRATION DATE:	21-Jul-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Reno	BAROMETRIC (mBar):	931
PURPOSE:	Routine	START TIME (MST):	08:22
PERFORMED BY:	Limin Li	END TIME (MST):	12:41

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	399
INITIAL		FINAL	
BKG/OFFSET	0.88	BKG/OFFSET	0.83
COEF/SLOPE	0.882	COEF/SLOPE	0.897
Expected (reference) Value	39.46	Expected (reference) Value	40.31

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):	1500	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:	08:46	SO2 Conc (ppb)	380
END TIME:	09:06	Analyzer Response (ppb)	0.0

CALIBRATION:

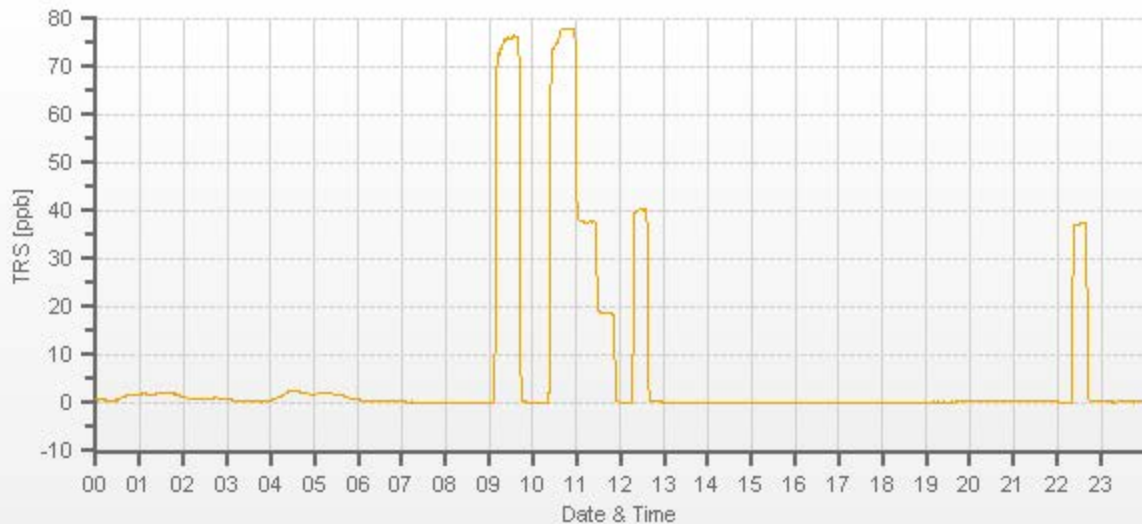
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	7500	7500	0.00	-0.11	0	1.000	1.000
7443	57.35	7500	78.00	76.22	78	1.022	1.000
7472	27.94	7500	38.00	n/a	37.77	n/a	1.006
7486	13.97	7500	19.00	n/a	18.61	n/a	1.021

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.2%

COMMENTS:

Converter: CDNova CDN-101 #590.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	03-Aug-2022	PREVIOUS CALIBRATION DATE:	21-Jul-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.8		Thermo 55i	12101910497	1135
LOCATION:	Reno	BAROMETRIC (mBar):	931	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	09:08	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	12:21	PREVIOUS CF:	0.999	0.999	1.000

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:	26701218	ID:	1105	CYLINDER (psi):	1250	LOW ID:	n/a
MFC CALIBRATION DATE:	10-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
	9.59	11.12	20.71		9.59	11.12	20.71

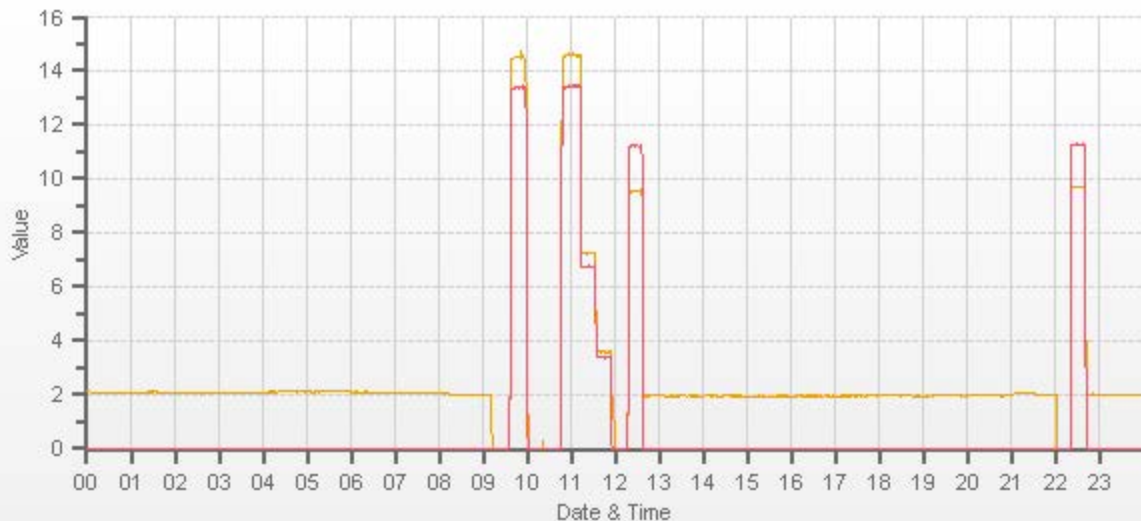
CALIBRATION:

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	14.45	13.35	27.80	14.59	13.42	28.01	1.010	1.004	1.007	1.000	0.998	0.999
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.24	6.78	14.02	n/a	n/a	n/a	1.008	0.988	0.998
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.60	3.41	7.01	n/a	n/a	n/a	1.013	0.982	0.998

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:
CH ₄	1.000	1.001	-0.2%	Sample filter changed
NMHC	1.000	1.001	0.2%	
THC	1.000	1.001	0.0%	
				Use Zero Chrom? No

Station: PRAMP RENO Daily: 03-08-2022 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202208-01563

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

Meteorological System Checklist



Date:	August 3, 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:	July 21, 2022	Tip test = 09:43-09:44am, channel offline time:09:35-09:45am.
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)	yes	
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:	July 21, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (°C):	18.3
Station - Ambient Temperature (°C):	18.3
Temperature Difference (°C):	0.0

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	July 21, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	931.5
Station Pressure - Units/Reading:	millibar	932.7
Pressure Tolerance +/- 15% of error:	792 - 1071	-0.13%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	July 21, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	61.80	
Station Hygrometer % RH- Reading:	63.50	
RH Tolerance +/- 15% of difference:	52.53 - 71.07	-2.8%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	July 21, 2022	Previous check date:	July 21, 2022
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	2.6	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass

Comments



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



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Limin Li
Audit Location:	Reno	Reviewed By:	Chris Wesson
Audit Date:	August 3, 2022	Start/End Time (mst):	10:08/11:30
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:	July 5, 2021	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	147.8	147.8	0.998
9000	165.9	166.4	166.4	0.997
10000	184.3	185.0	185.0	0.996
The audit meets AMD requirements.			Average Correction Factor=	0.999

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	63	300	-3.0	0.0	1.5
90	270	93	270	-3.0	0.0	1.5
120	240	121	240	-1.0	0.0	0.5
150	210	151	211	-1.0	-1.0	1.0
180	180	181	181	-1.0	-1.0	1.0
210	150	211	152	-1.0	-2.0	1.5
240	120	240	122	0.0	-2.0	1.0
270	90	269	92	1.0	-2.0	1.5
300	60	299	62	1.0	-2.0	1.5
330	30	328	32	2.0	-2.0	2.0
355	0	354	1	1.0	1.0	1.0
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.3

Comments:

Declination = 15 deg East



Peace River Area Monitoring Program

AUGUST 2022

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202208-01689

Operation and Maintenance:

Bureau Veritas Canada

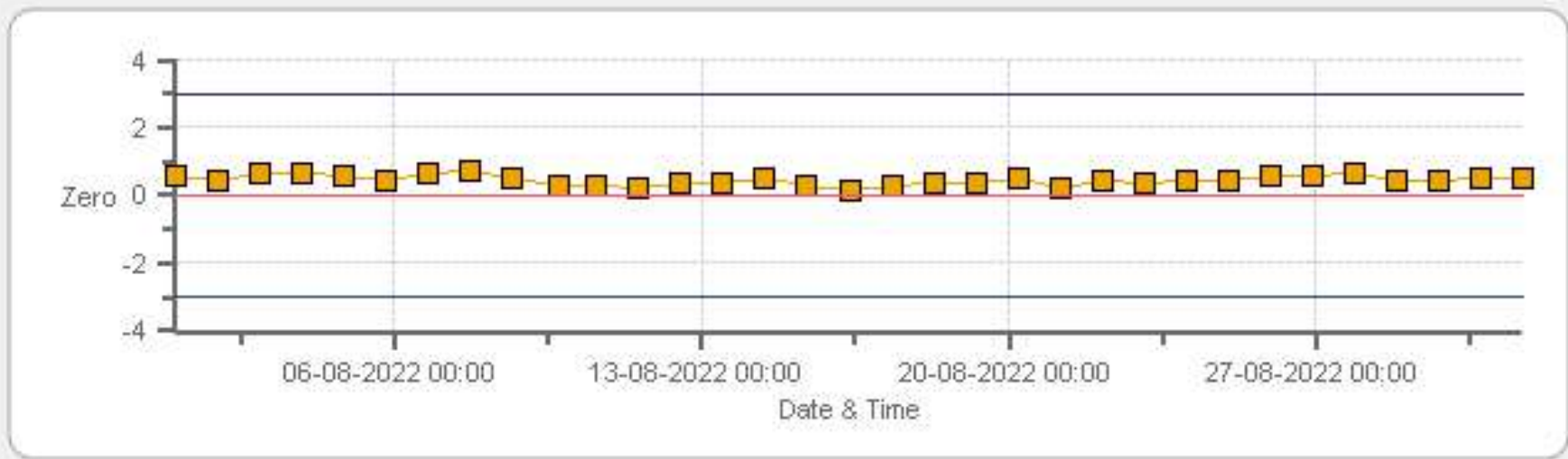
Data Validation and Report:

Bureau Veritas Canada

September 15, 2022

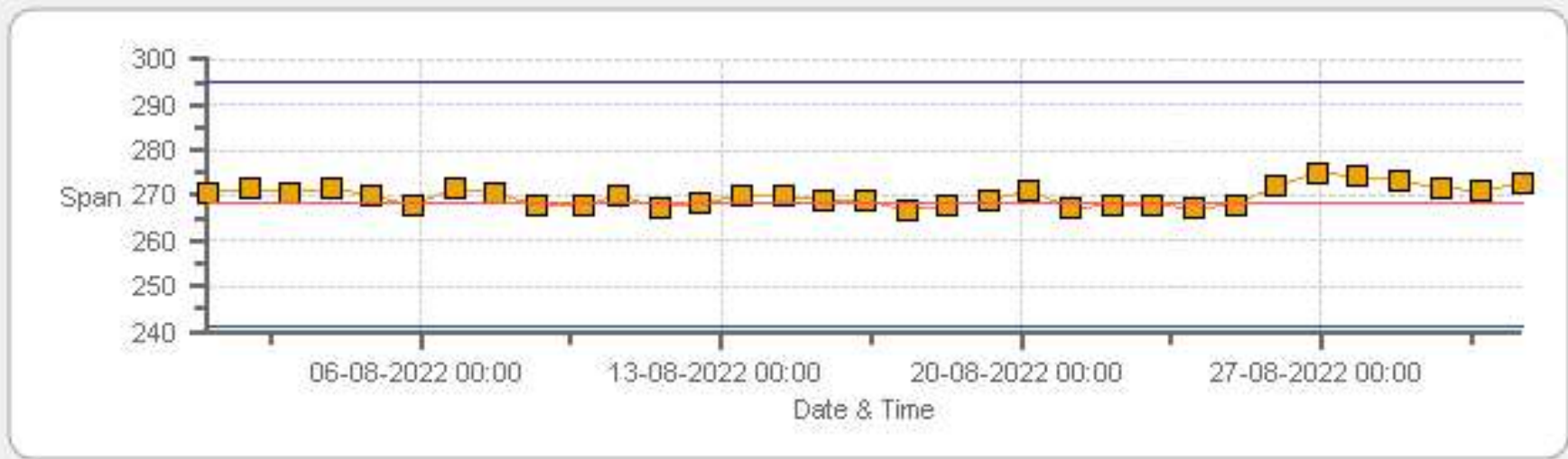
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



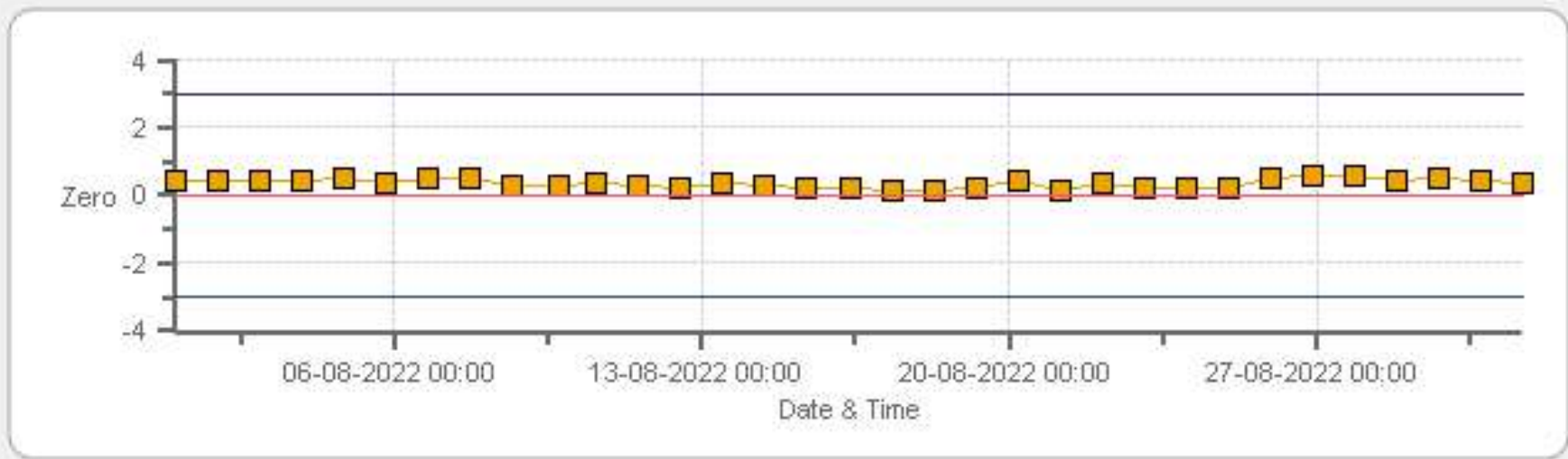
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



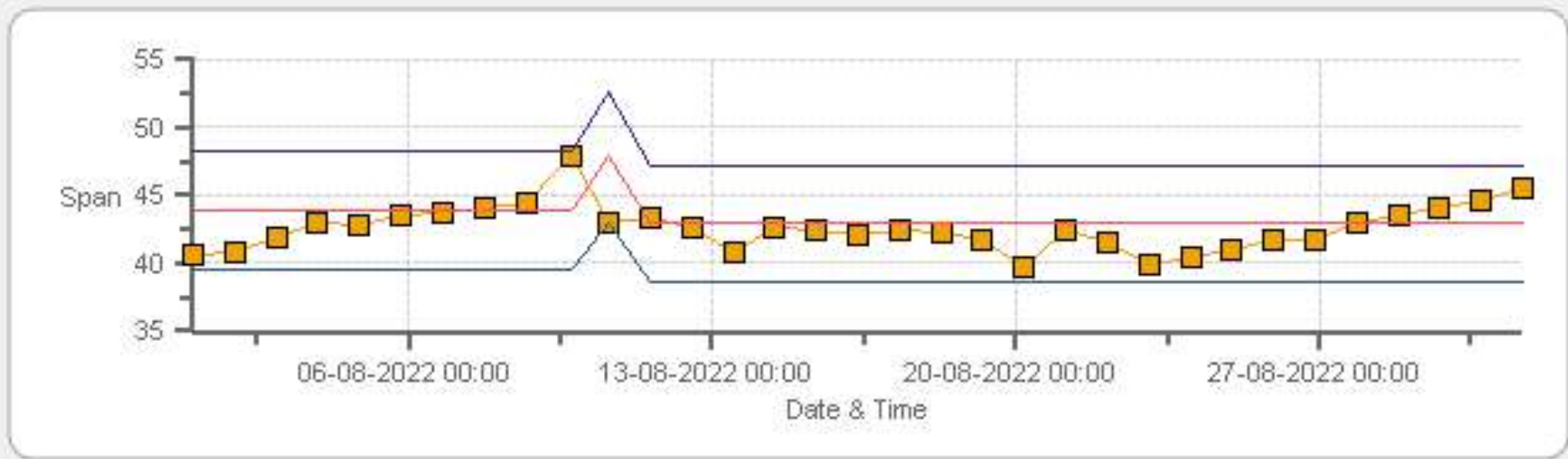
Span SpanRef Span Low Span High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



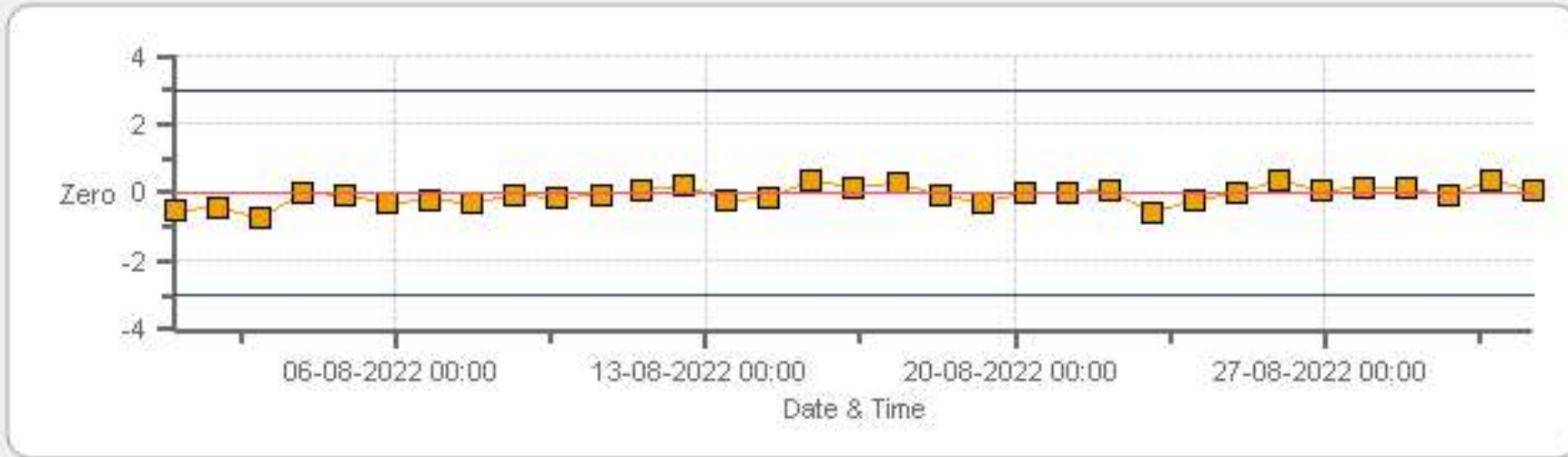
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



Span SpanRef Span Low Span High

NOX[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



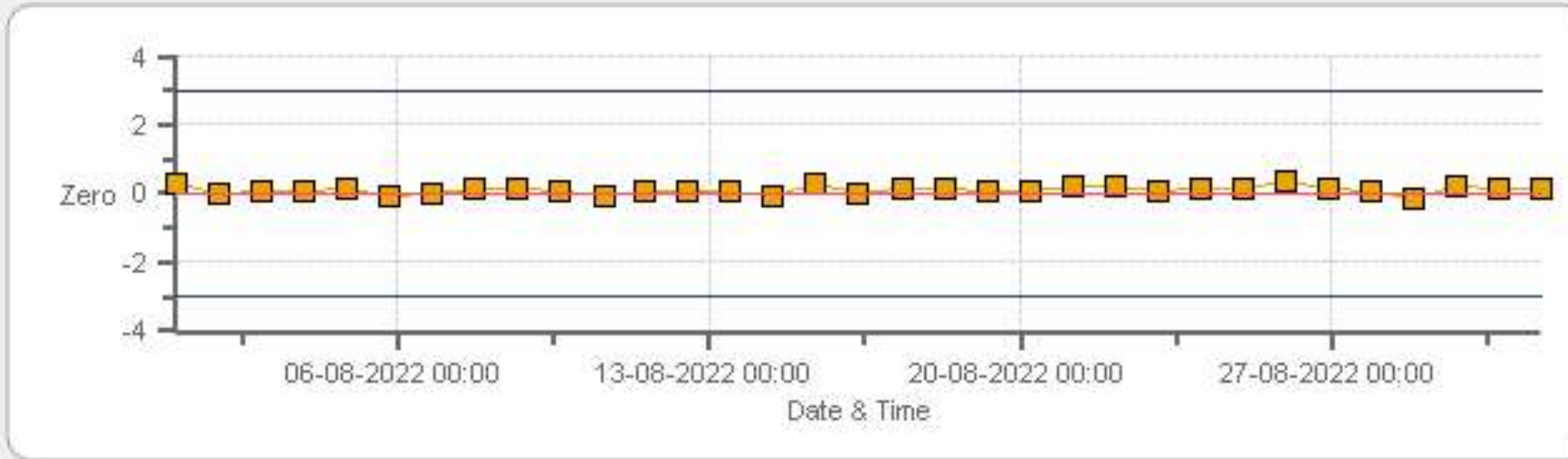
Zero Zero Ref Zero Low Zero High

NOX[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



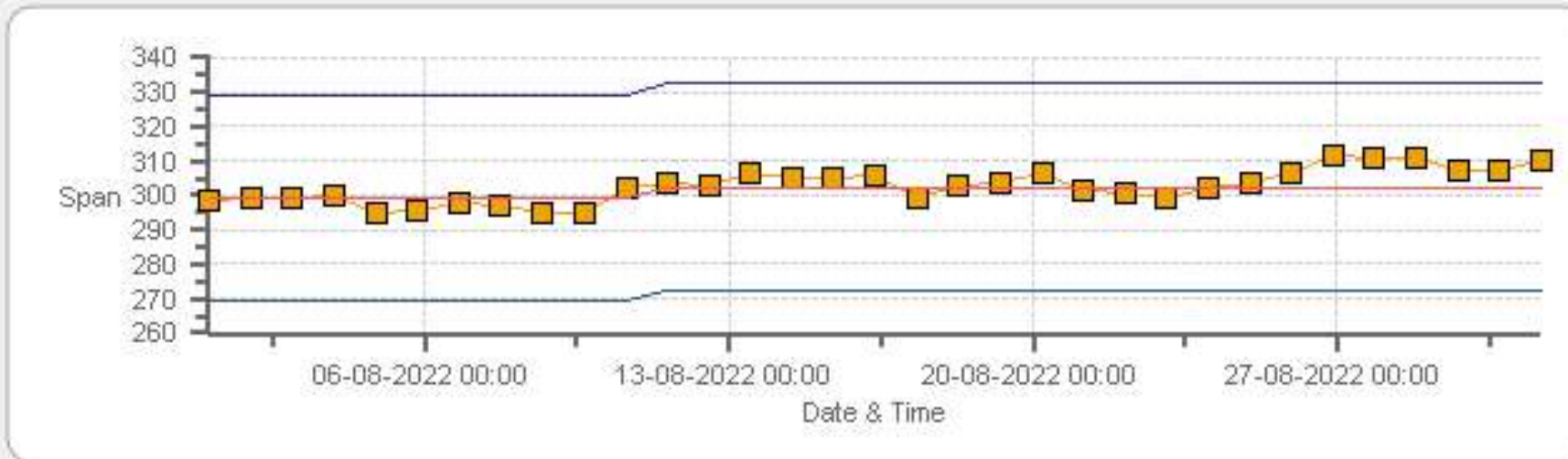
Span SpanRef Span Low Span High

NO2[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



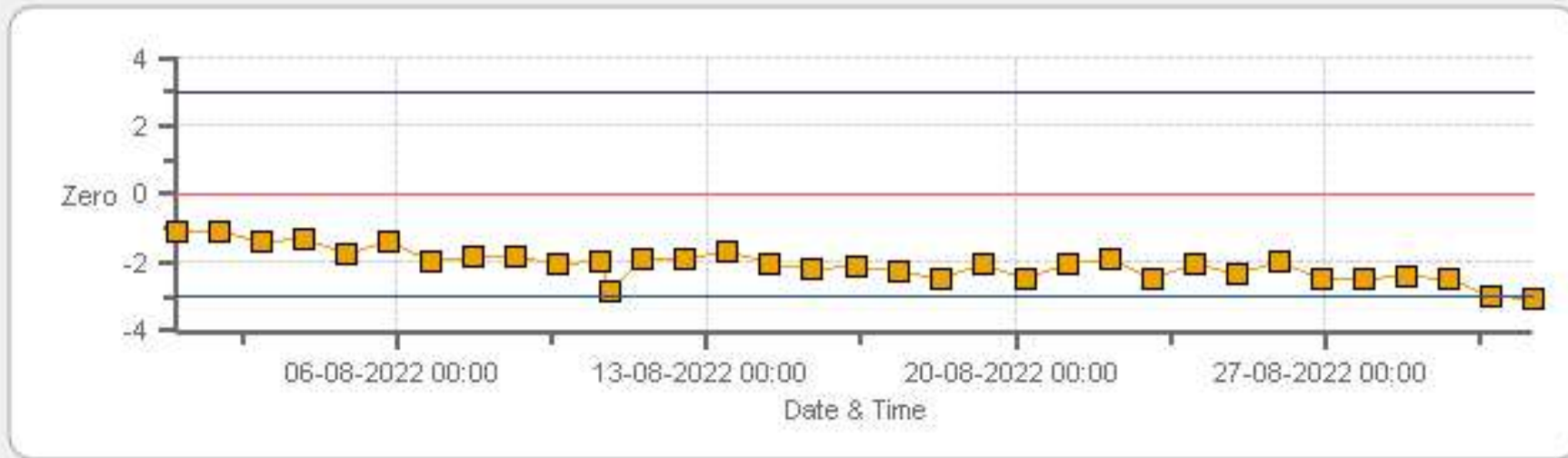
Zero Zero Ref Zero Low Zero High

NO2[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



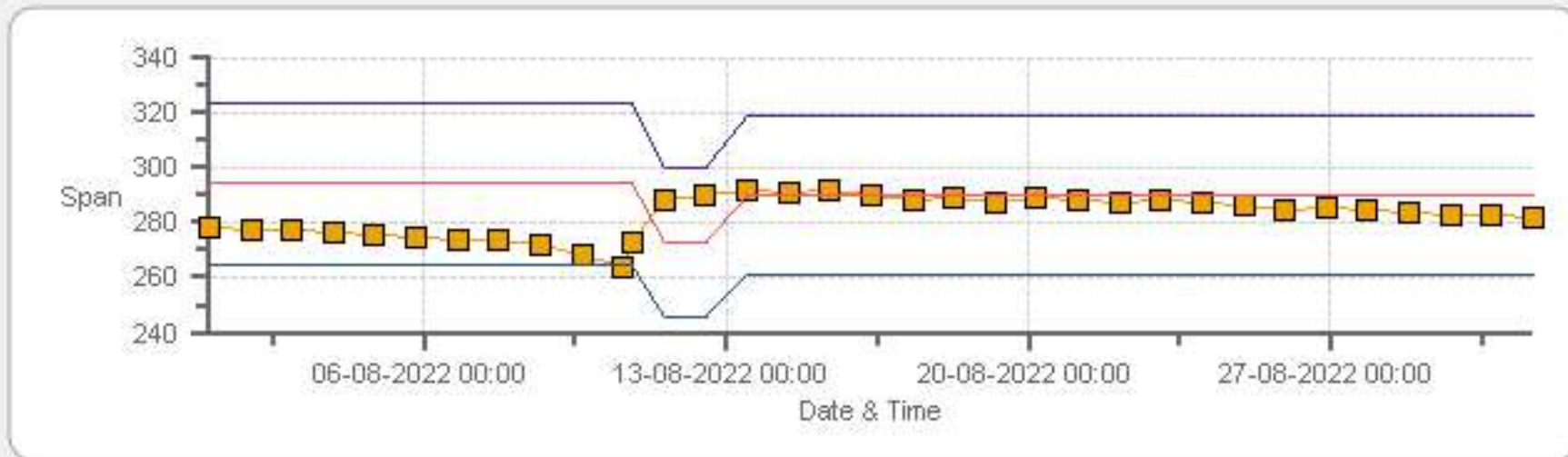
Span SpanRef Span Low Span High

O3[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



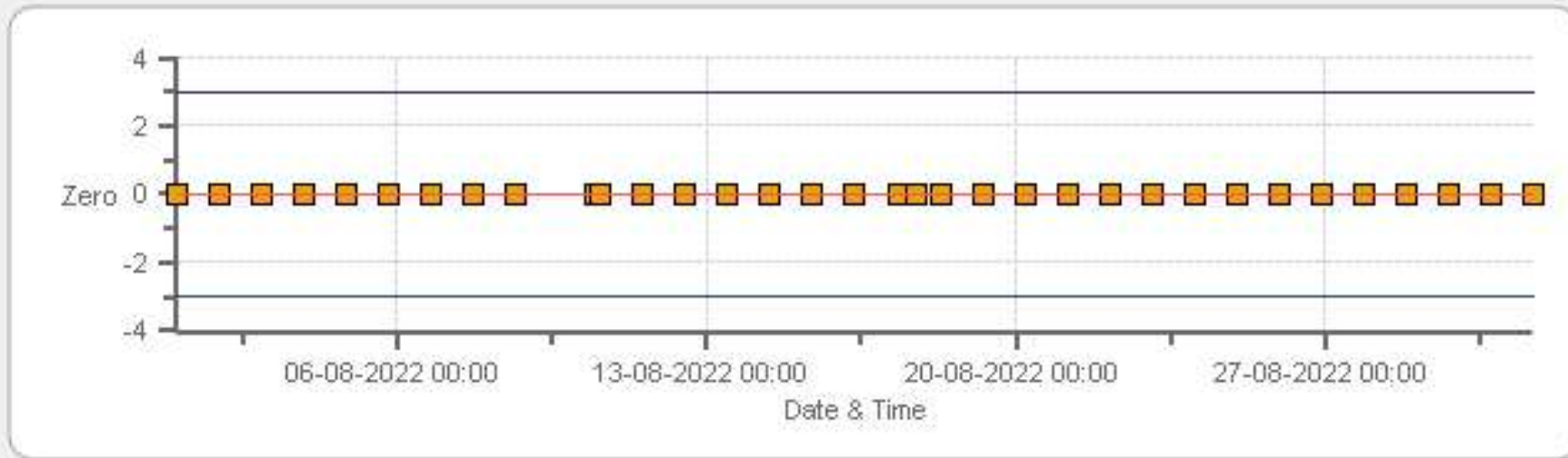
Zero Zero Ref Zero Low Zero High

O3[ppb] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



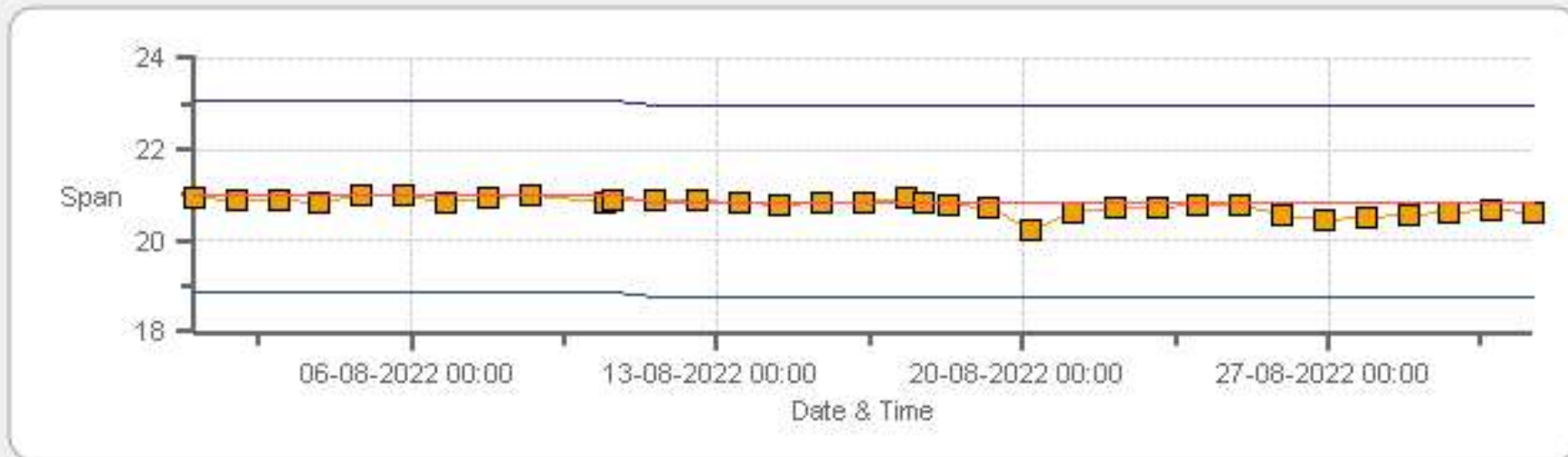
Span SpanRef Span Low Span High

THC55[ppm] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



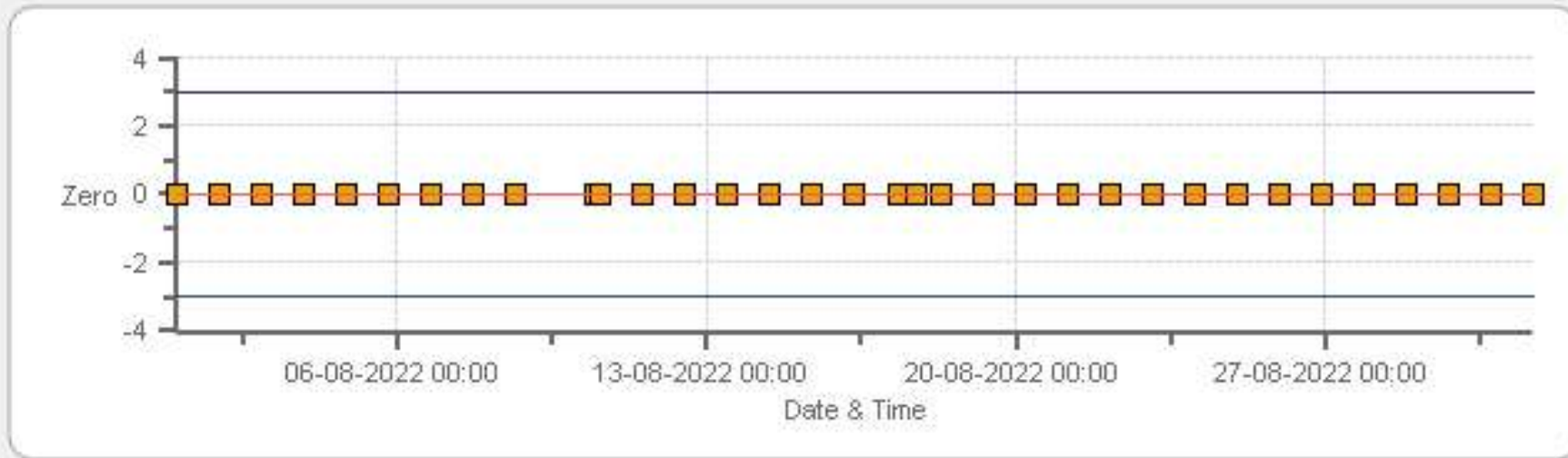
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



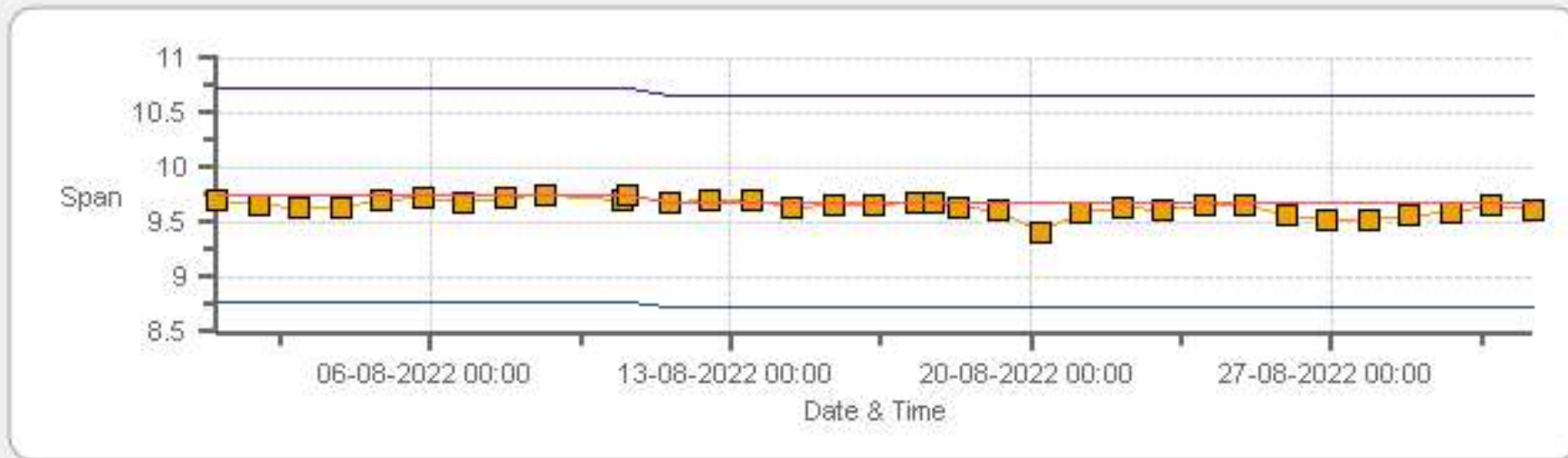
Span Span Ref Span Low Span High

CH4[ppm] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



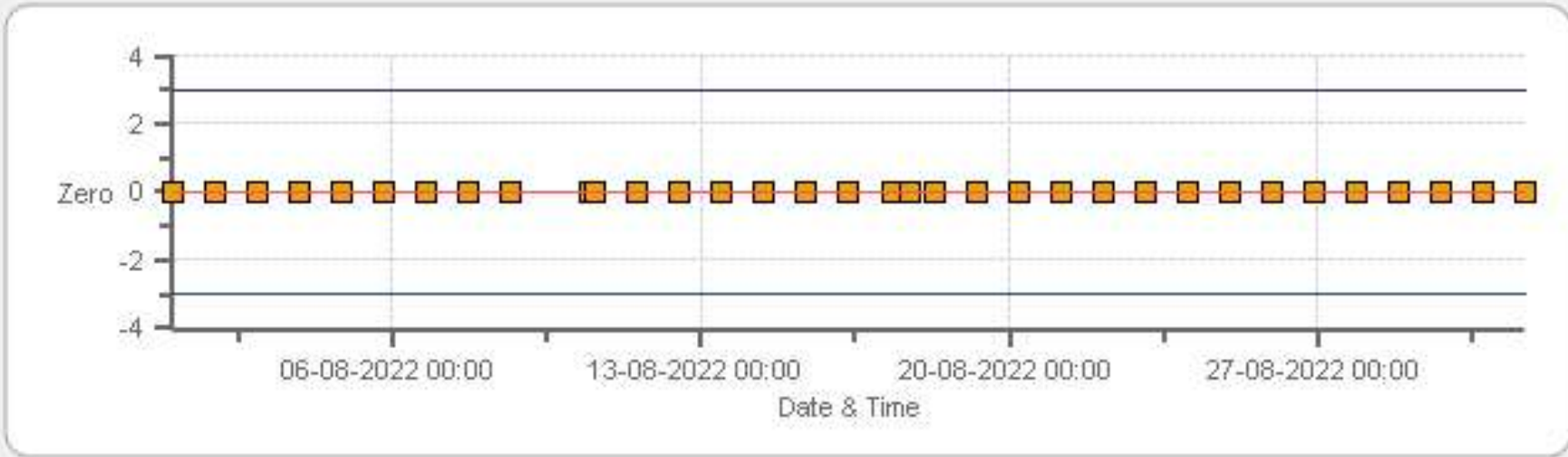
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



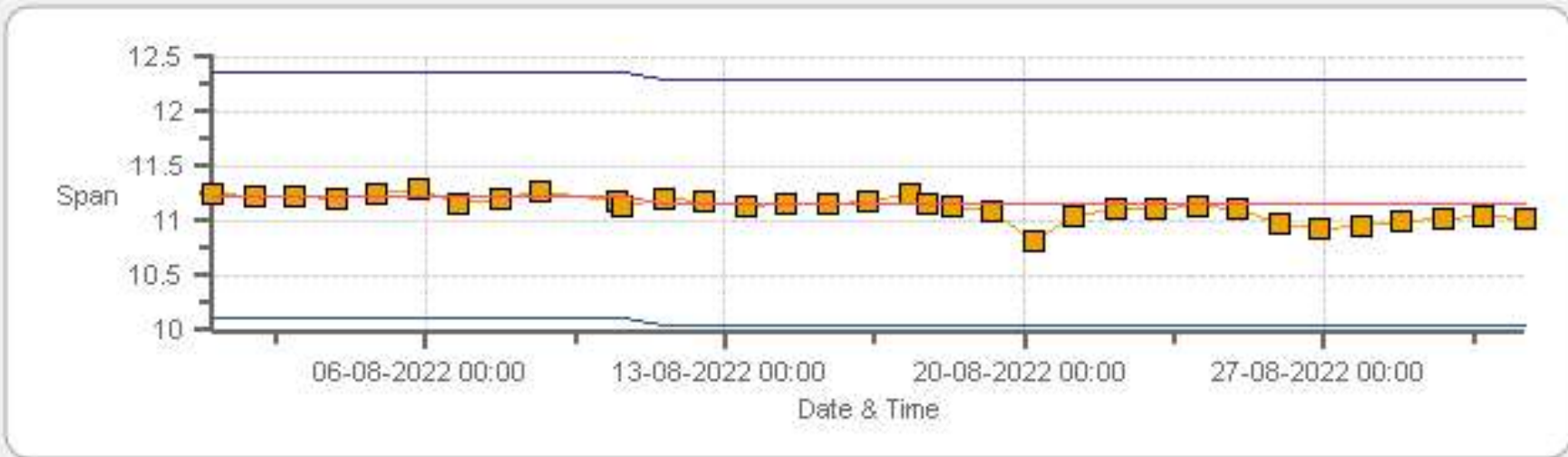
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 08-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	09-Aug-2022	PREVIOUS CALIBRATION DATE:	11-Jul-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	Grimshaw	BAROMETRIC (mBar):	947
PURPOSE:	Routine	START TIME (MST):	13:52
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:34

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	532
INITIAL		FINAL	
BKG/OFFSET	25.9	BKG/OFFSET	26.6
COEF/SLOPE	0.933	COEF/SLOPE	0.933
Expected (reference) Value	268.1	Expected (reference) Value	268.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1600	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:

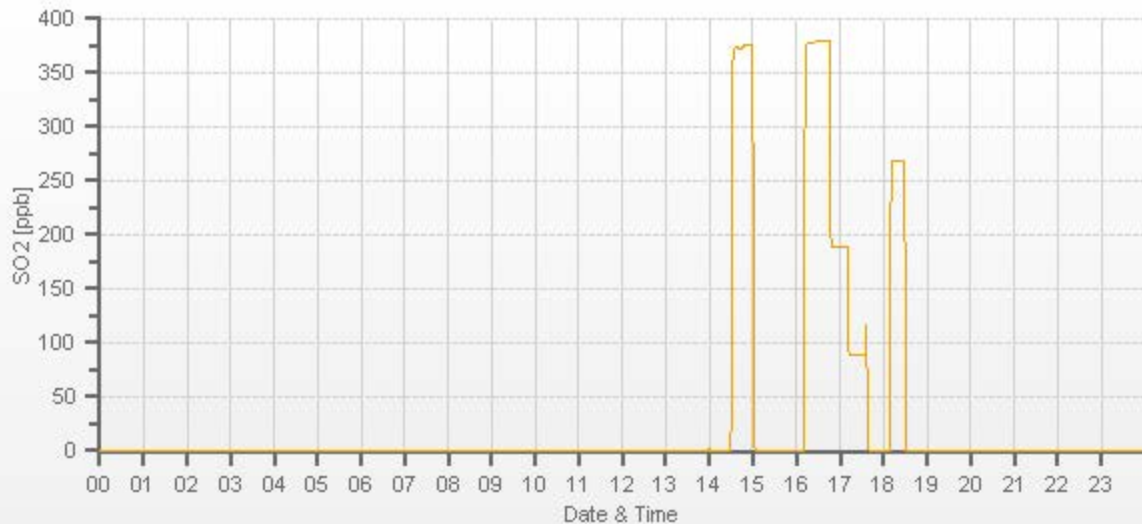
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4001	 	4001	0.00	0.3	0	 	
3939	60.55	4000	380.00	376.2	380	1.011	1.000
3972	30.25	4003	189.68	n/a	189.1	n/a	1.003
3989	14.33	4004	89.84	n/a	88.7	n/a	1.013

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.



TRS Analyzer Calibration by Dilution



DATE:	09-Aug-2022	PREVIOUS CALIBRATION DATE:	11-Jul-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	Grimshaw	BAROMETRIC (mBar):	947
PURPOSE:	Routine	START TIME (MST):	13:52
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:34

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	520
INITIAL		FINAL	
BKG/OFFSET	27.3	BKG/OFFSET	27.8
COEF/SLOPE	1.118	COEF/SLOPE	1.146
Expected (reference) Value	43.93	Expected (reference) Value	47.84

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	350	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:

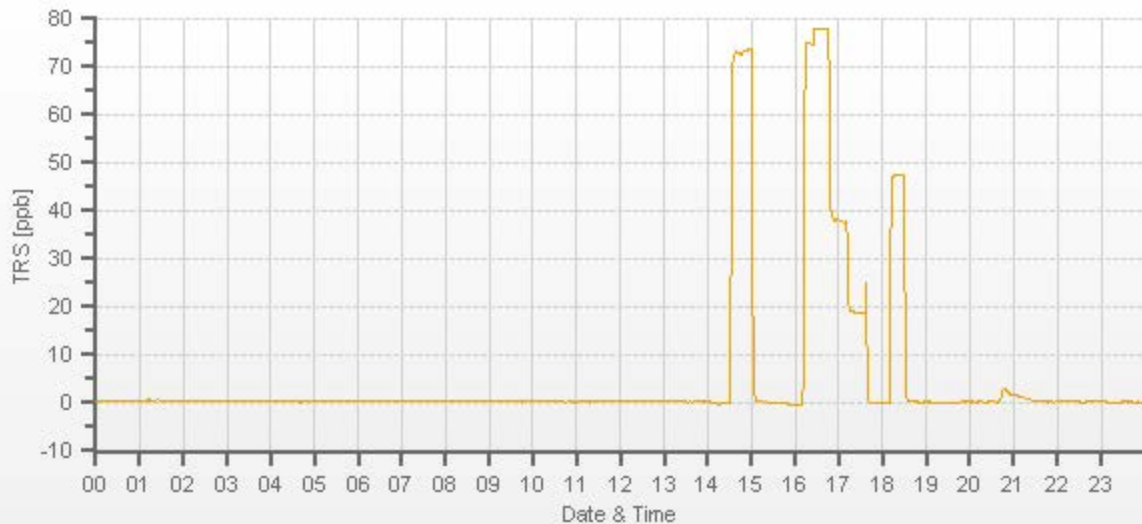
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4001	33.22	4001	0.00	0.6	0	1.064	1.000
3967	33.22	4000	78.16	74.04	78.18	1.064	1.000
3986	16.17	4003	38.01	n/a	37.95	n/a	1.001
3995	8.10	4004	19.03	n/a	19.1	n/a	0.996

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

TRS Converter CDNOVA CDN-100# 530. Sample filter changed. Monthly calibration - no issues.



NOx Calibration by Dilution/Gas-Phase Titration



CALIBRATION:				ANALYZER:			
DATE:	10-Aug-2022	PREVIOUS CALIBRATION DATE:	12-Jul-2022	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7	SERIAL #:	837	NOx	0.999
LOCATION:	Grimshaw	BAROMETRIC (mBar):	945	FLOW (mL/min)	441	NO	1.000
PURPOSE:	Routine	START TIME (MST):	08:14	RANGE (ppb)	500	NO2	1.004
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	15:50	GPT FOR O3?		Yes	

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	EY0001716	HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	NO/NOx (PPM):	49.2 49.4	HIGH EXPIRY:	n/a
ID:	17100415	ID:	916	CYLINDER (psi):	1700	LOW ID:	n/a
MFC CALIBRATION DATE:	28-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:	0.4	0.1	n/a	BKG/OFFSET:	-0.1	-0.3	n/a
SLOPE/COEF/CE:	1.109	1.104	1.005	SLOPE/COEF/CE:	1.117	1.122	0.99

EXPECTED (REFERENCE) VALUE:							
INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	302.4	3.0	299.4		306.1	3.7	302.4

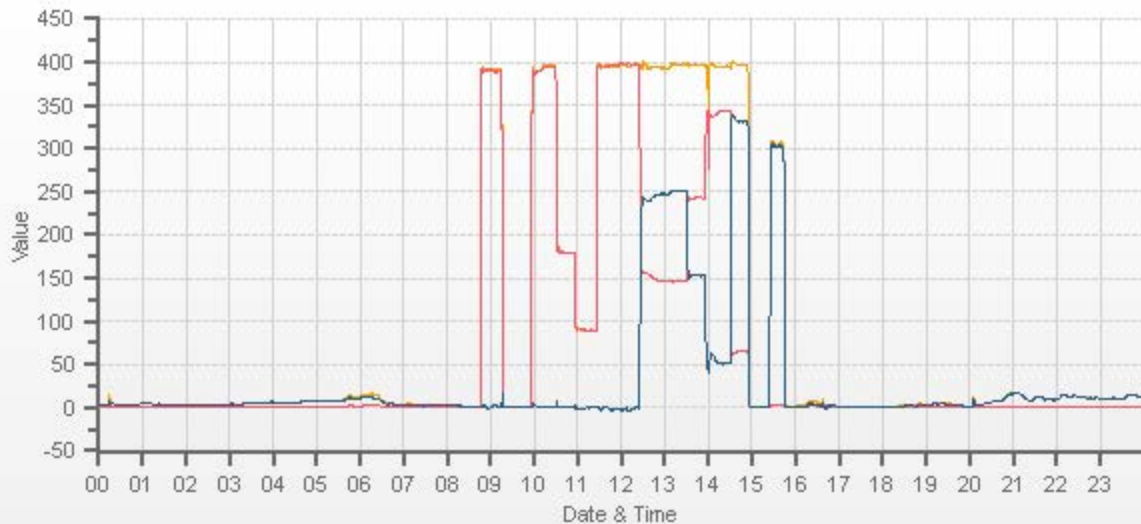
CALIBRATION PARAMETERS:				
POINT	NO TARGET (PPB)	NO2 TARGET (PPB)	NO2 RANGE	O3 POINT
HIGH	395	250	240-275	n/a
MID	180	154	150-157	Mid
LOW	90	54	50-58	Low
EXTRA 1	n/a	340	300-370	High

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	40.10	4999	0.0	0.0	0.0	-0.4	-0.1	0.2	0.0	0.0	0.0	1.012	1.013	1.000	1.000	1.000	1.000
4959	40.10	4999	394.7	396.3	1.6	389.5	390.9	1.4	394.6	396.4	1.7	1.012	1.013	1.000	1.000	1.000	1.000
4981	18.30	4999	180.1	180.8	0.7	n/a	n/a	n/a	178.9	179.7	0.8	n/a	n/a	1.007	1.006	1.000	1.000
4990	9.10	4999	89.6	89.9	0.4	n/a	n/a	n/a	89.9	89.9	0.0	n/a	n/a	0.996	1.000	1.000	1.000

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	40.10	4999	0	397.0	397.1	0.1	250.4	246	1.018	98.24%
AS-FOUND HIGH	40.10	4999	255	146.6	392.7	246.1	250.4	246	1.018	98.24%
ADJUSTED HIGH	40.10	4999	255	146.3	397.1	251.0	250.7	250.9	0.999	100.08%
MID	40.10	4999	154	242.7	395.9	153.2	154.3	153.1	1.008	99.22%
LOW	40.10	4999	50	343.2	394.7	51.5	53.8	51.4	1.047	95.54%
NO2 COEF/CONVERTER EFFICIENCY ADJUSTED									AVERAGE:	98.28%

LINEAR REGRESSION ANALYSIS:				COMMENTS:
	CORRELATION	SLOPE	INTERCEPT	
NO	1.000	0.999	-0.02%	
NOx	1.000	1.000	-0.06%	
NO2	1.000	1.013	-0.63%	

Sample filter changed. GPT low point interrupted by daily Zero/Span at 14:00. Extra O3 SETPOINT = 340; NO DROP/O3 = 330.9. Monthly calibration - passed.



CAL-PRAMP-202208-01689

Ozone Calibration by Direct GPT



DATE:	10-Aug-2022	PREVIOUS CALIBRATION DATE:	12-Jul-2022
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.7
LOCATION:	Grimshaw	BAROMETRIC (mBar):	942
PURPOSE:	Routine	START TIME (MST):	15:06
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	19:29

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	770
INITIAL		FINAL	
BKG/OFFSET	-1.2	BKG/OFFSET	-1
COEF/SLOPE	1.001	COEF/SLOPE	1.078
Expected (reference) Value	294.4	Expected (reference) Value	272.7

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	M701
ID:	17100415	ID:	916
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION METHOD:		Direct GPT	
GPT DATE:	10-Aug-2022	GPT END TIME:	14:55

CALIBRATION PARAMETERS:

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

CALIBRATION:

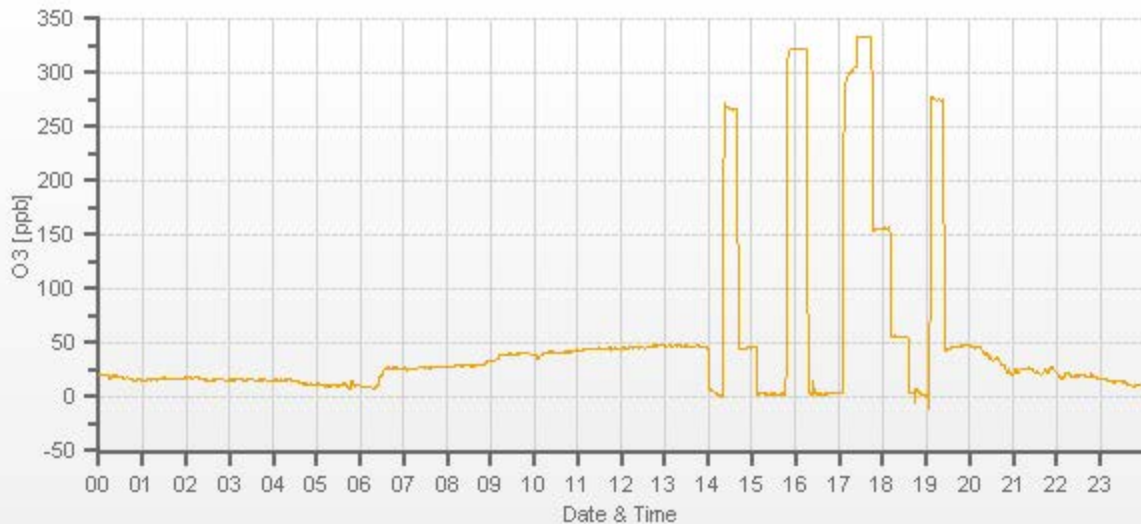
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4999	 	4999	0.0	0.0	0.0	 	
4999	 	4999	330.9	320.4	330.9	1.033	1.000
4999	 	4999	154.3	n/a	153.7	n/a	1.004
4999	 	4999	53.8	n/a	52.8	n/a	1.019

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - passed.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	09-Aug-2022	PREVIOUS CALIBRATION DATE:	12-Jul-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5		Thermo 55i	1191032505	19
LOCATION:	Grimshaw	BAROMETRIC (mBar):	947	PARAMETER:	CH4	NMHC	THC
PURPOSE	Removal/Shut-down	START TIME (MST):	13:52	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:27	PREVIOUS CF:	1.000	1.000	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:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	17100415	ID:	916	CYLINDER (psi):	1120	LOW ID:	n/a
MFC CALIBRATION DATE:	28-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
	9.75	11.23	20.98		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
2998	72.00	2998	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a	1.003	0.994	0.999	n/a	n/a	n/a
2927	72.00	2999	14.60	13.40	28.00	14.56	13.48	28.04	n/a	n/a	n/a	1.003	0.994	0.999	n/a	n/a	n/a
2963	36.00	2999	7.30	6.70	14.00	7.30	6.77	14.07	n/a	n/a	n/a	1.000	0.990	0.995	n/a	n/a	n/a
2980	18.00	2998	3.65	3.35	7.00	3.67	3.42	7.09	n/a	n/a	n/a	0.995	0.980	0.988	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

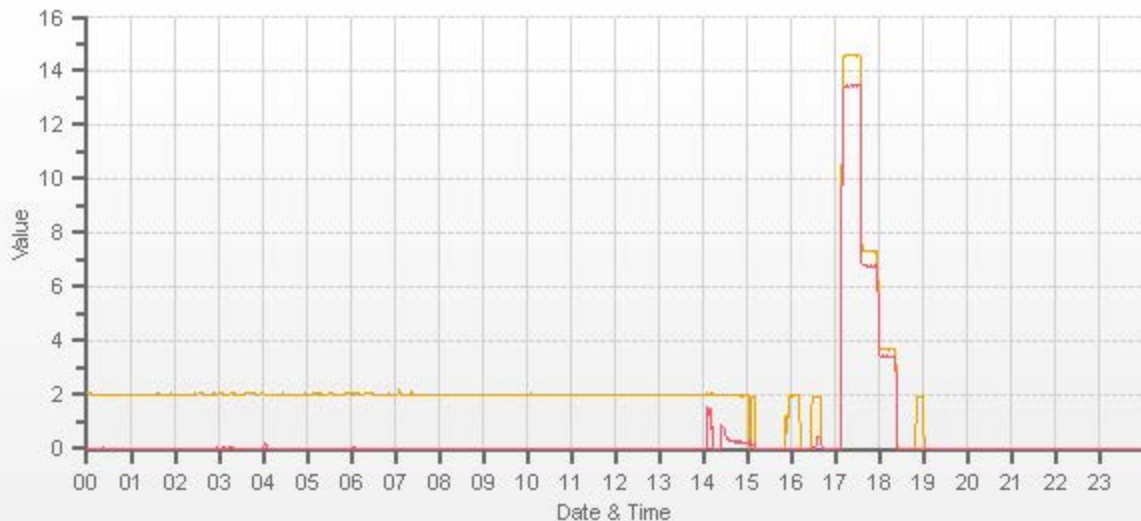
	CORRELATION	SLOPE	INTERCEPT
CH ₄	1.000	0.997	0.1%
NMHC	1.000	1.005	0.1%
THC	1.000	1.001	0.1%

Comments:

Internal pump failing .Shutdown - passed.

Use Zero Chrom?

Yes



CAL-PRAMP-202208-01689

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	10-Aug-2022	PREVIOUS CALIBRATION DATE:	n/a	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7		Thermo 55i	1191032505	1162.2
LOCATION:	Grimshaw	BAROMETRIC (mBar):	945	PARAMETER:	CH4	NMHC	THC
PURPOSE	Install/Post-Repair	START TIME (MST):	08:14	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	11:06	PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Enviro-nics	MAKE:	API	CYLINDER ID:	LL28583	HIGH ID:	n/a
MODEL:	2000	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	608.0 203.0	HIGH EXPIRY:	n/a
ID:	1991	ID:	916	CYLINDER (psi):	1110	LOW ID:	n/a
MFC CALIBRATION DATE:	29-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
	n/a	n/a	n/a		n/a	9.69	11.17

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
3003	X	3003	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00	X	X	X	X	X	X
2930	72.02	3002	14.59	13.39	27.98	n/a	n/a	n/a	14.58	13.39	27.97	n/a	n/a	n/a	1.000	1.000	1.000
2968	35.99	3004	7.28	6.69	13.97	n/a	n/a	n/a	7.26	6.70	13.96	n/a	n/a	n/a	1.003	0.998	1.001
2985	17.98	3003	3.64	3.34	6.98	n/a	n/a	n/a	3.61	3.35	6.96	n/a	n/a	n/a	1.008	0.998	1.003

LINEAR REGRESSION ANALYSIS:

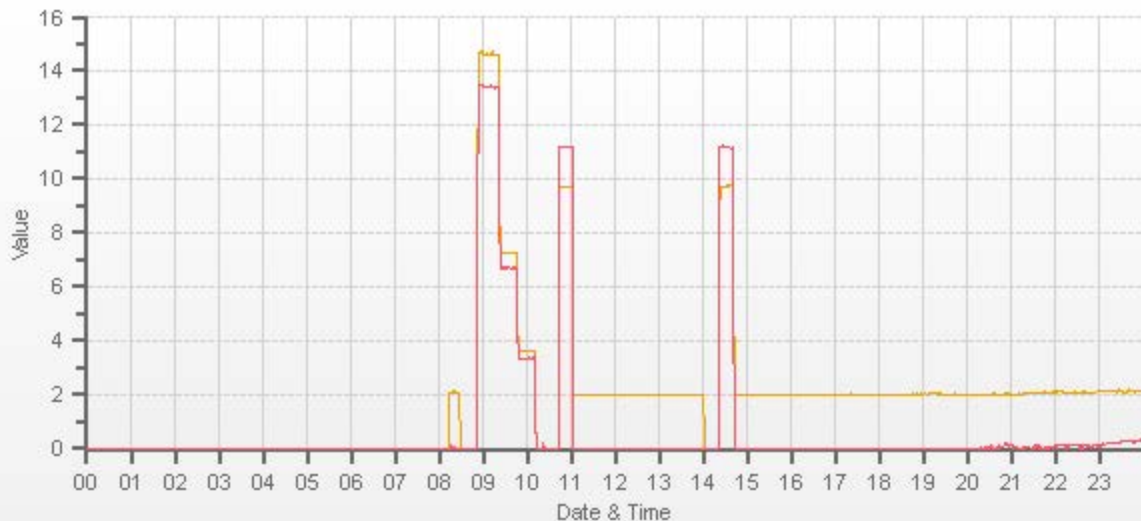
	CORRELATION	SLOPE	INTERCEPT
CH ₄	1.000	1.000	-0.1%
NMHC	1.000	1.000	0.0%
THC	1.000	1.000	0.0%

Comments:

Swapped internal pump. Sample filter changed. Post-Repair calibration - no issues.

Use Zero Chrom?

Yes



CAL-PRAMP-202208-01689



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	August 10, 2022	July 22, 2022	Weather Conditions:	Mainly sunny	
Company:	PRAMP		Start Time (mst):	12:50	
Station:	Grimshaw		End Time (mst):	13:21	
Parameter:	PM 2.5		Performed By/Reviewer:	Ferdinand Roy Chris Wesson	
Instrument Data:					
Make/Model:	Teledyne T640		Serial Number:	318	
Owner:	PRAMP		Alarms (detail in comments):	Yes	
Reference Standards/I.D./Expiry Date:					
Flow Standard: DeltaCal DC1 S/N201588 / Nov 01, 2022		Temperature: DeltaCal DC1 S/N201588 / Nov 01, 2022			
Digital Manometer: DeltaCal DC1 S/N201588 / Nov 01, 2022		Pressure: DeltaCal DC1 S/N201588 / Nov 01, 2022			
DIAGNOSTICS:					
Ambient Pressure (mmHg)	707.5	Ambient Temp (°C)	26.1	ASC Heater Duty (%)	0.0
Box Temp (°C)	29.0	Current PMT HV (V)	1539	LED Temp (°C)	37.83
P3 Value	49	PMT Setting (V)	1542	Pump PWM (%)	36
Sample Flow (L/min)	4.98	Sample RH (%RH)	34.3	Sample Temp (°C)	30.5
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)	710.0	707.4	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	26.50	26.9	n/a		+/- 2°C
Sample Flow (L/min)	4.88	5.03	4.88	5	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
Additional Monthly Maintenance :					Completed
Inlet cleaned?					No
Sample tubing inspected (inner and outer)?					Yes
Comments:					
Alarms: 05/03/2022 - 11:32:41 System Reset; 07/26/2022 - 16:40:43 Perform Span Dust Check .					

Meteorological System Checklist



Date:	August 10, 2022
Technician:	Ferdinand Roy
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:	July 11, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher #160348895 expires September 4, 2022
Reference Temperature (°C):	21.0
Station - Ambient Temperature (°C):	21.7
Temperature Difference (°C):	-0.7

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	July 11, 2022
Reference Barometer ID:	FS 10528 July 29, 2023
Reference Pressure - Units/Reading:	millibar 944
Station Pressure - Units/Reading:	millibar 944.5
Pressure Tolerance +/- 15% of error:	802 - 1086 -0.05%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	July 11, 2022
Reference Hygrometer ID:	Fisher #160348895 expires September 4, 2022
Reference Hygrometer % RH- Reading:	61.04
Station Hygrometer % RH- Reading:	60.20
RH Tolerance +/- 15% of difference:	51.88 - 70.20 1.4%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	July 11, 2022	Previous check date:	July 11, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	8.3	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass

Comments

No issues.



Meteorological Sensor Audit/Calibration

Location Information

Company: Bureau Veritas **Performed By:** Ferdinand Roy
Audit Location: Grimshaw **Reviewed By:** Chris Wesson
Audit Date: July 12, 2022 **Start/End Time (mst):** 13:57 / 16:52
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:	0-200
Serial #:	174801	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 18801 id# CA01648 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	18.3	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	354	0.2	0.8	0.5
30	330	27	331	3.3	-0.6	2.0
60	300	56	300	3.8	-0.3	2.1
90	270	87	268	2.8	1.9	2.3
120	240	117	236	3.3	4.0	3.7
150	210	147	204	2.6	5.6	4.1
180	180	177	175	3.3	4.6	4.0
210	150	207	145	3.1	4.8	4.0
240	120	238	115	2.4	5.0	3.7
270	90	270	85	0.3	5.1	2.7
300	60	300	57	-0.3	3.1	1.7
330	30	330	26	-0.3	3.6	2.0
355	0	354	0	0.8	0.1	0.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		2.5

Comments:

Output via RMY32400 serial interface



Peace River Area Monitoring Program

AUGUST 2022

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

CAL-PRAMP-202208-01698

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Bureau Veritas Canada

September 15, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Zero



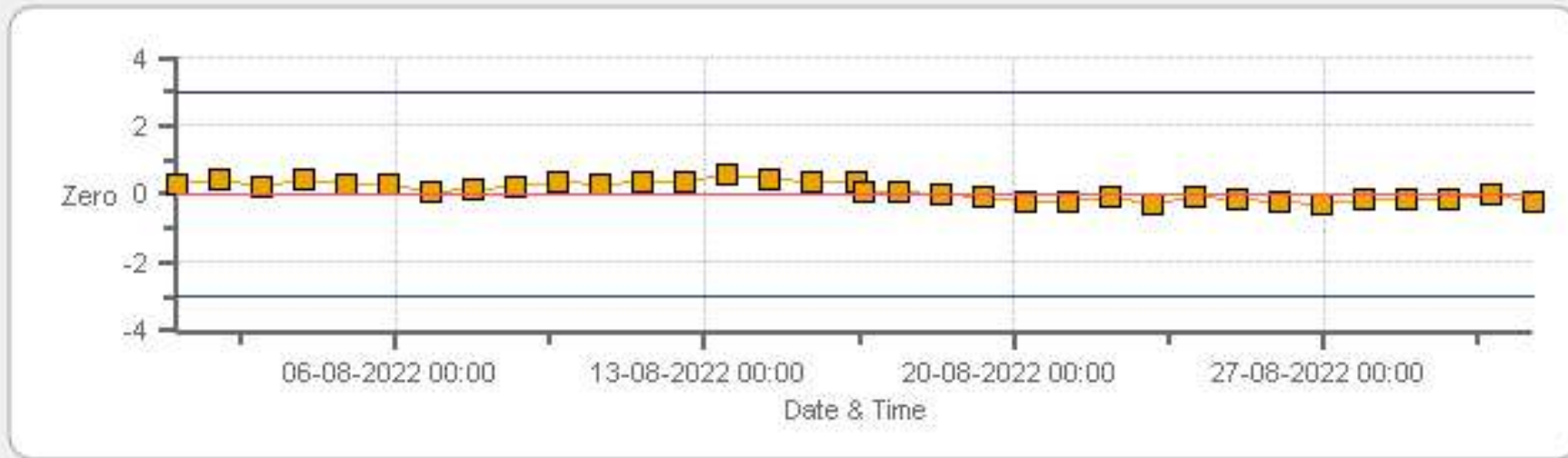
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Span



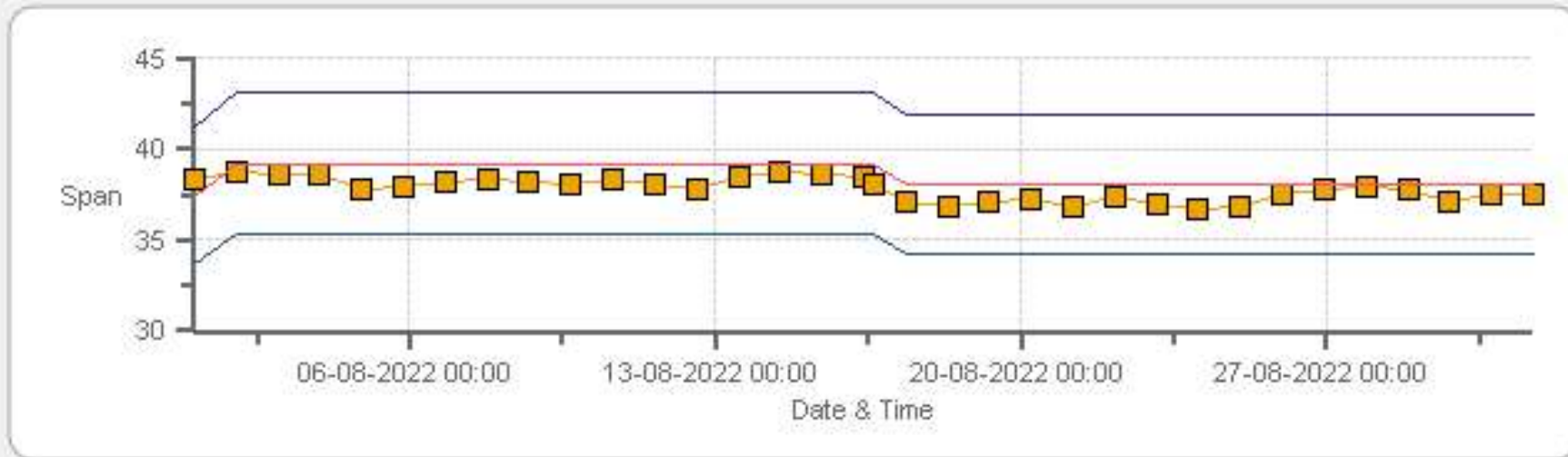
Span SpanRef Span Low Span High

H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Span



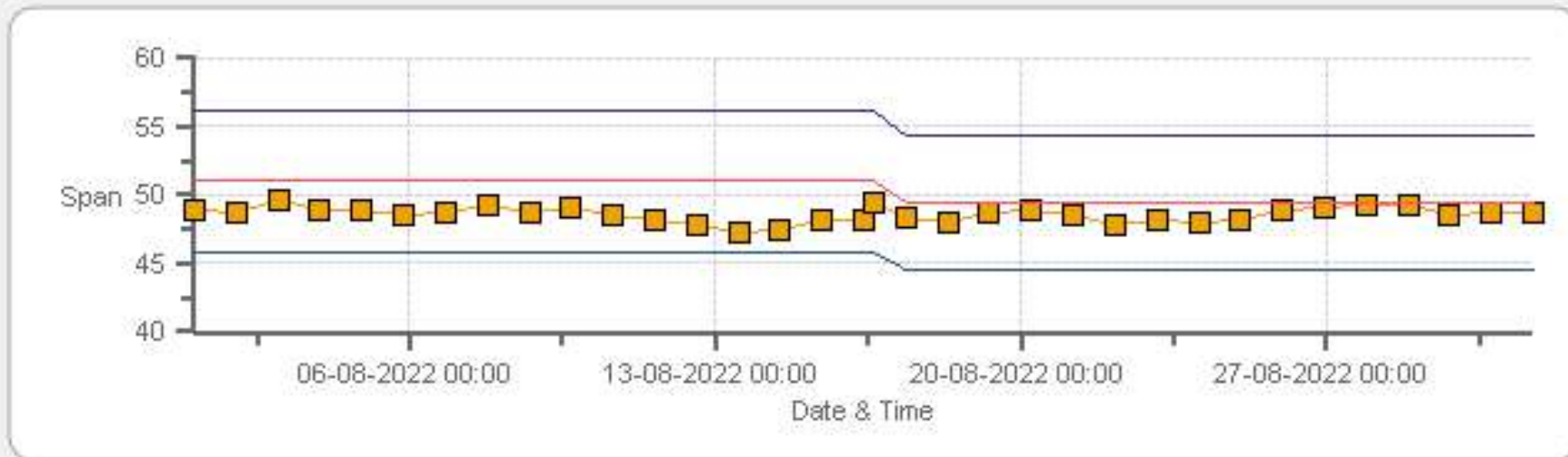
Span Span Ref Span Low Span High

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Zero



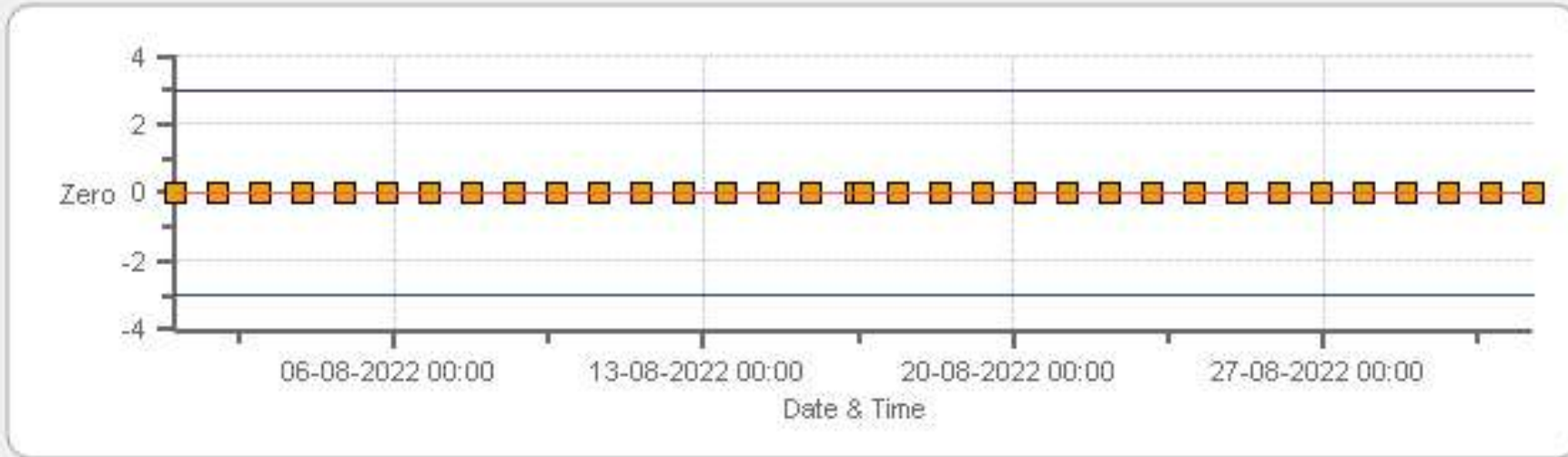
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Span



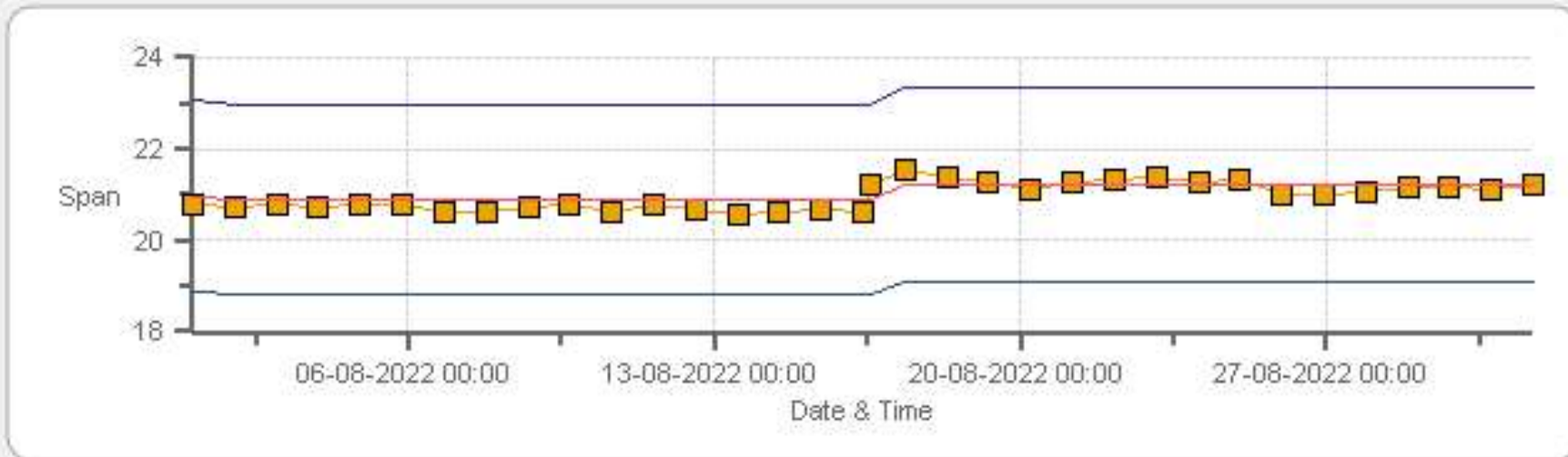
Span SpanRef Span Low Span High

THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Zero



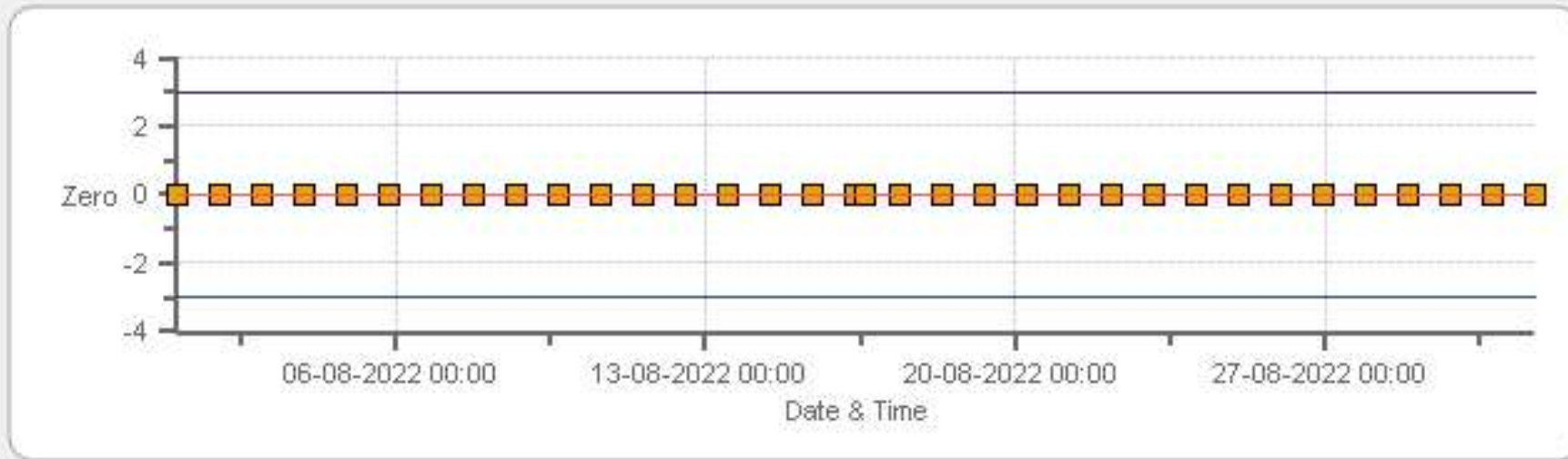
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Span



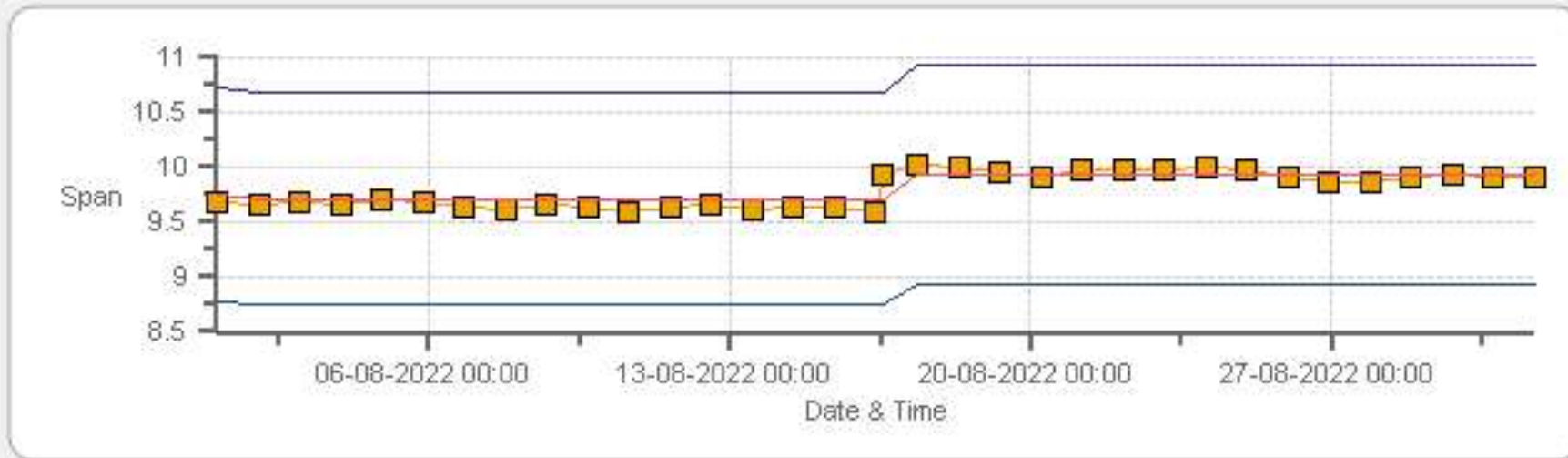
Span Span Ref Span Low Span High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Zero



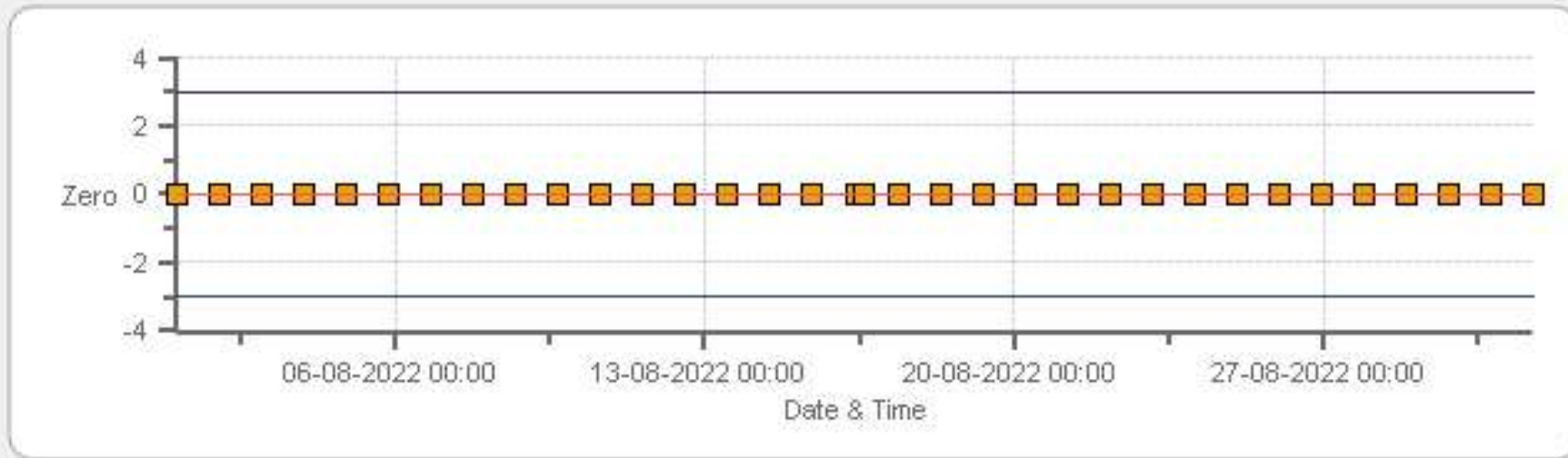
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Span



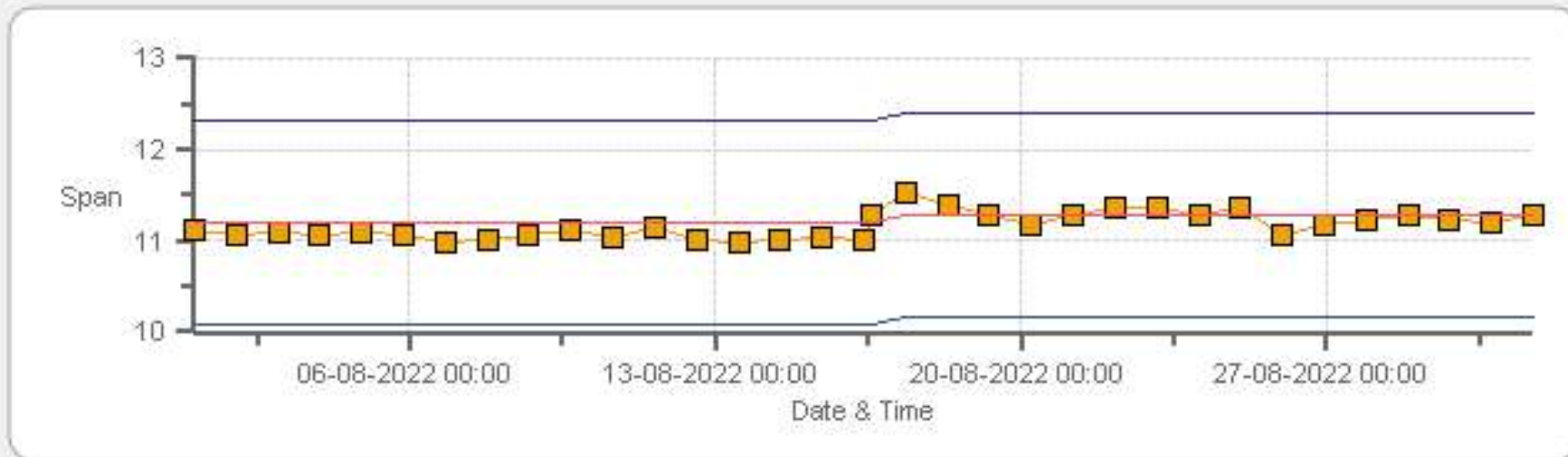
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 08-2022 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	16-Aug-2022	PREVIOUS CALIBRATION DATE:	13-Jul-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	19.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	09:54
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:54

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	430
INITIAL		FINAL	
BKG/OFFSET	18.3	BKG/OFFSET	17.7
COEF/SLOPE	1.068	COEF/SLOPE	1.045
Expected (reference) Value	249.6	Expected (reference) Value	243.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1550	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:

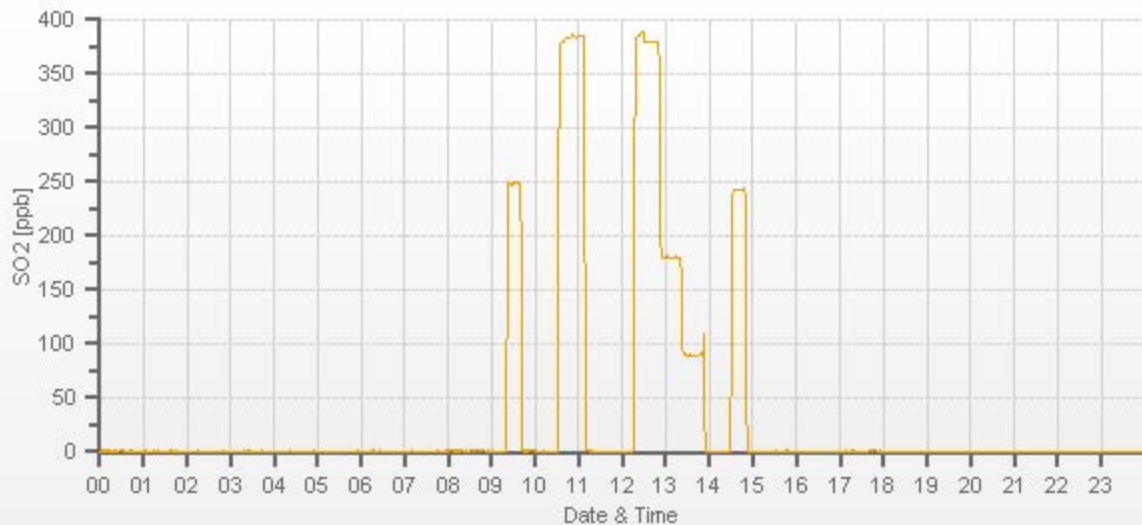
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4002	60.56	4002	0.00	0.3	0	0.985	1.000
3942	60.56	4003	379.75	385.9	379.9	0.985	1.000
3973	28.66	4001	179.79	n/a	179.9	n/a	0.999
3987	14.30	4002	89.72	n/a	89.9	n/a	0.998

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.



H2S Analyzer Calibration by Dilution



DATE:	16-Aug-2022	PREVIOUS CALIBRATION DATE:	13-Jul-2022
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	19.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	09:54
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:54

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	860
INITIAL		FINAL	
BKG/OFFSET	13.6	BKG/OFFSET	13.8
COEF/SLOPE	1.024	COEF/SLOPE	1.015
Expected (reference) Value	39.2	Expected (reference) Value	38

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	310	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:

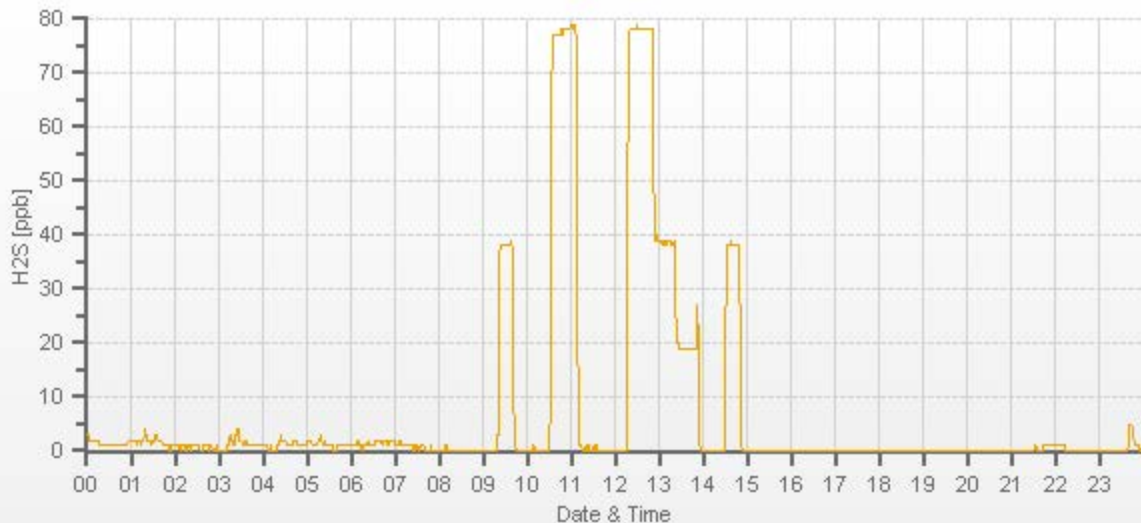
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4002	33.24	4002	0.00	0.5	0	0.998	1.001
3970	33.24	4003	78.14	78.8	78.1	0.998	1.001
3985	16.18	4001	38.05	n/a	38.5	n/a	0.988
3993	8.10	4002	19.04	n/a	19.1	n/a	0.997

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.



TRS Analyzer Calibration by Dilution



DATE:	16-Aug-2022	PREVIOUS CALIBRATION DATE:	14-Jul-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	19.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	09:54
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:54

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	723
INITIAL		FINAL	
BKG/OFFSET	23.1	BKG/OFFSET	23.2
COEF/SLOPE	0.988	COEF/SLOPE	0.99
Expected (reference) Value	51	Expected (reference) Value	49.47

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	310	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:

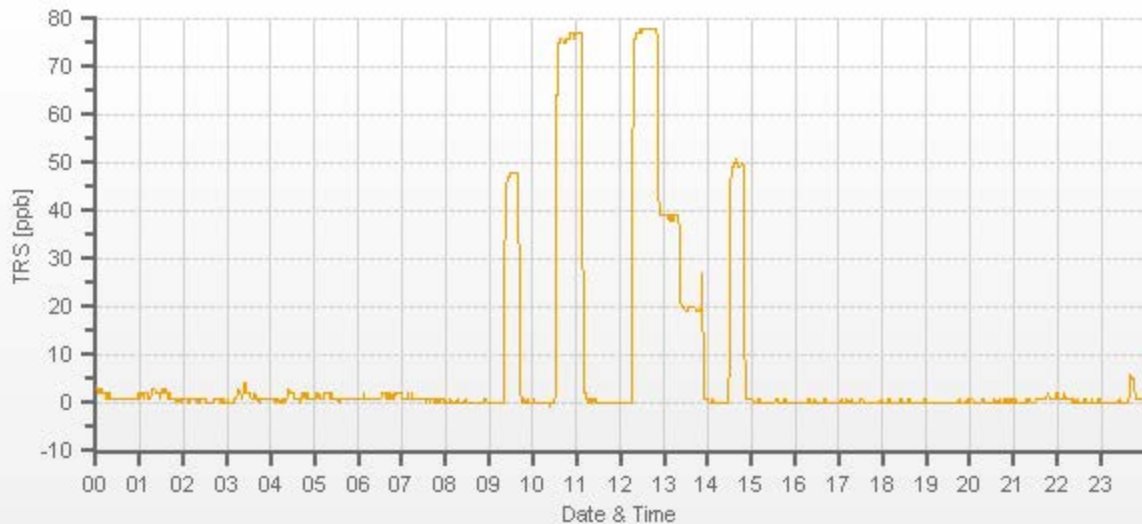
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
4002	33.24	4002	0.00	0.09	0	1.020	1.001
3970	33.24	4003	78.14	76.7	78.09	1.020	1.001
3985	16.18	4001	38.05	n/a	38.78	n/a	0.981
3993	8.10	4002	19.04	n/a	19.13	n/a	0.995

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.2%

COMMENTS:

TRS Converter CDNOVA CDN-101 #506. Sample filter changed. Monthly calibration - no issues.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	16-Aug-2022	PREVIOUS CALIBRATION DATE:	13-Jul-2022	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	19.2		Thermo 55i	1022143392	1107.7
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	940	PARAMETER:	CH4	NMHC	THC
PURPOSE	Routine	START TIME (MST):	09:54	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:52	PREVIOUS CF:	1.000	1.000	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	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:	17100415	ID:	916	CYLINDER (psi):	1100	LOW ID:	n/a
MFC CALIBRATION DATE:	28-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
	9.71	11.19	20.90		9.93	11.28	21.21

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
2998	X	2998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
2927	72.00	2999	14.60	13.40	28.00	14.26	13.00	27.70	14.63	13.41	28.04	1.024	1.031	1.011	0.998	0.999	0.999
2963	36.00	2999	7.30	6.70	14.00	n/a	n/a	n/a	7.34	6.70	14.04	n/a	n/a	n/a	0.994	1.000	0.997
2982	18.00	3000	3.65	3.35	7.00	n/a	n/a	n/a	3.69	3.36	7.04	n/a	n/a	n/a	0.989	0.997	0.994

LINEAR REGRESSION ANALYSIS:

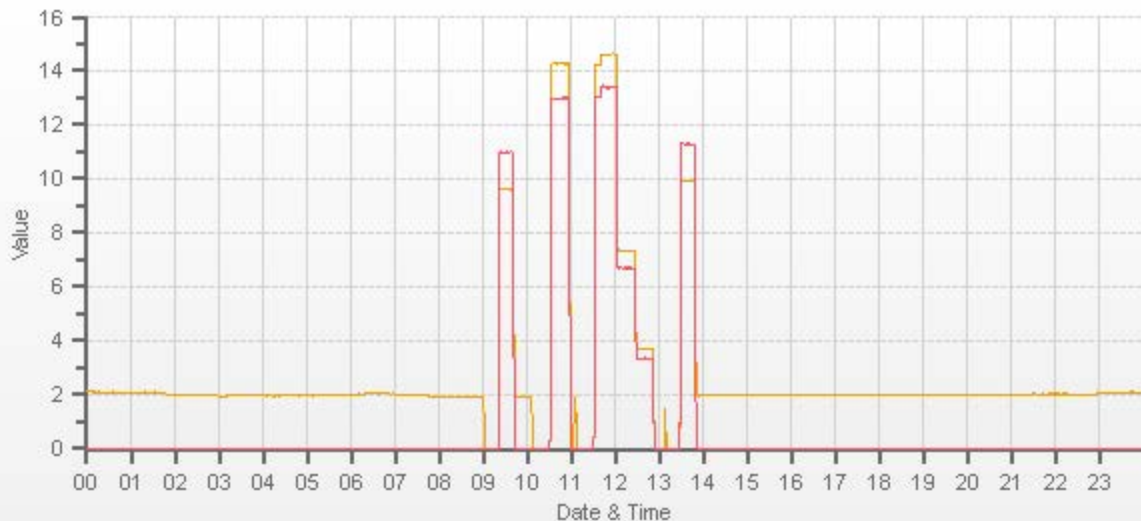
	CORRELATION	SLOPE	INTERCEPT
CH ₄	1.000	1.002	0.1%
NMHC	1.000	1.000	0.0%
THC	1.000	1.001	0.0%

Comments:

Sample filter changed. Monthly calibration - no issues.

Use Zero Chrom?

No



CAL-PRAMP-202208-01698

Page 17 of 20
CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	August 16, 2022
Technician:	Ferdinand Roy
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:	July 14, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher #160348895 expires September 4, 2022
Reference Temperature (°C):	19.9
Station - Ambient Temperature (°C):	20.1
Temperature Difference (°C):	-0.2

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	July 21, 2022
Reference Barometer ID:	FS 10528, Expire: July 29, 2023
Reference Pressure - Units/Reading:	millibar 940
Station Pressure - Units/Reading:	millibar 944
Pressure Tolerance +/- 15% of error:	799 - 1081 -0.43%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	July 14, 2022
Reference Hygrometer ID:	Fisher #160348895 expires September 4, 2022
Reference Hygrometer % RH- Reading:	57.12
Station Hygrometer % RH- Reading:	55.50
RH Tolerance +/- 15% of difference:	48.55 - 65.69 2.8%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	July 14, 2022	Previous check date:	July 14, 2022
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	15.1	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass

Comments

No issues.



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.



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Ferdinand Roy
Audit Location:	Peace River Compliance	Reviewed By:	Chris Wesson
Audit Date:	August 17, 2022	Start/End Time (mst):	8:15/9:20
Calibration Purpose:	routine annual	Weather Conditions:	Mainly clear

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:	June 16, 2021	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	0.1	0.1	-
1000	18.4	18.5	18.5	0.996
2000	36.9	36.9	37.0	0.998
3000	55.3	55.4	55.4	0.998
4000	73.7	73.9	73.9	0.998
5000	92.2	92.4	92.4	0.997
6000	110.6	110.9	110.9	0.997
7000	129.0	129.5	129.5	0.996
8000	147.4	148.0	148.0	0.996
9000	165.9	166.6	166.6	0.996
10000	184.3	185.1	185.2	0.995
The audit meets AMD requirements.			Average Correction Factor=	0.997

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	29	329	1.0	1.0	1.0
60	300	59	300	1.0	0.0	0.5
90	270	89	271	1.0	-1.0	1.0
120	240	119	241	1.0	-1.0	1.0
150	210	151	212	-1.0	-2.0	1.5
180	180	181	181	-1.0	-1.0	1.0
210	150	211	151	-1.0	-1.0	1.0
240	120	241	120	-1.0	0.0	0.5
270	90	271	89	-1.0	1.0	1.0
300	60	300	59	0.0	1.0	0.5
330	30	329	29	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=		0.9

Comments:

Physical inspection completed - no issues.

List of SOPs

MONITOR	SOP
SULPHUR DIOXIDE (SO ₂)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
HYDROGEN SULPHIDE (H ₂ S)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL REDUCED SULPHUR (TRS)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL HYDROCARBONS (THC), METHANE (CH ₄), NON-METHANE(NMHC)	Bureau Veritas EMS SOP-00001: Methane, Non-Methane Hydrocarbon Analyzer Monitoring
OXIDES OF NITROGEN (NO _x), NITRIC OXIDE (NO) & NITROGEN DIOXIDE (NO ₂)	Bureau Veritas EMS SOP-00213: Ambient NO/NO ₂ /NO _x Monitoring
OZONE (O ₃)	Bureau Veritas EMS SOP-00212: Ambient O ₃ Monitoring
PARTICULATE MATTER < 2.5 MICRONS (PM _{2.5})	Bureau Veritas EMS SOP-00015: Teledyne API PM Monitor Model T640
WIND SPEED (WS) & WIND DIRECTION (WD)	Bureau Veritas EMS SOP-00013: RM Young Wind Monitor Calibration



Peace River Area Monitoring Program

AUGUST 2022

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202208-INTEGRATED

September 16, 2022

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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
September 16, 2022

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

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

Enclosed is the August 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)	√	√	√	
Passives: 2-Month exposure (PACs)	√			
Passives: 1-Month Exposure (H ₂ S, SO ₂)				√

Listing of Passives: 1-Month Exposure 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
Passives: PACs	PRAMP	ECCC	AEP	AEP
Passives: H ₂ S, SO ₂	PRAMP	Bureau Veritas	PRAMP	PRAMP

Monitoring Notes during the Month of August 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 August.

- **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 July and August were installed on June 30, and were removed on September 1. The sample media for sampling period of September and October were installed at the same time.

- **Passives H₂S, SO₂ Sampling Program**
 - There were no exceedances of the AAQOs for all monitored parameters at any of the passive stations during this month.
 - The passive sample filters were installed at the stations on August 1 and were removed on September 1.

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

September 16, 2022

INTEGRATED SAMPLING RESULTS SUMMARY

- **Passive analytical results**

	H ₂ S		SO ₂	
Minimum (ppb)	0.35	#9	0.2	#4
Maximum (ppb)	1.02	#13	0.6	#3
Average (ppb)	0.56	-	0.31	-

ANALYTICAL SAMPLING RESULTS

NMHC Canisters – VOCs



PEACE RIVER AREA MONITORING PROGRAM

PRC Site - August 2022

Passive Results

	H₂S		SO₂	
Minimum (ppb)	0.35	#9	0.2	#4
Maximum (ppb)	1.02	#13	0.6	#3
Average (ppb)	0.56	-	0.31	-
No.	Calculated Value		Calculated Value	
1	0.37		0.3	
2	0.48		0.3	
3	0.69		0.6	
4	0.90		0.2	
7	0.36		0.2	
8	0.36		0.2	
9	0.35		0.2	
10	0.53		0.3	
11	0.86		0.4	
12	0.38		0.2	
13	1.02		0.5	
14	0.39		0.3	
Reportable Detection Limit (RDL)	0.02		0.1	

End of Report



Peace River Area Monitoring Program

AUGUST 2022

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202208

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

September 15, 2022

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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	SO2	H2S	NO2	O3	NOx	NH3	HNO3	VOC	PM2.5	PM10	TSP	Dustfall					
1	01/08/22	7:15	01/09/22	8:00am		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						9:15	9:30am				X	X										
Blank											X	X										
Blank											X	X										

Notes/Comments: Client 12521 / Scenario 18009

Sampled By Bo Guerin Phone/Email 7974420 Received By Bo Guerin Date/Time Aug. 1-22 Project # CNRL PRC
 Date Shipped sep. 1. 22 Signature [Signature] PO# _____

DB 22-09-06 @ 10:30
14502 14 H2S



Your Project #: 2022/08/01 - 2022/09/01
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: 2022/09/16
Report #: R3233409
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C267852

Received: 2022/09/06, 10:30

Sample Matrix: Air
Samples Received: 12

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
H2S Passive Analysis	12	2022/09/09	2022/09/14	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	12	2022/09/07	2022/09/14	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 

Belma Elefante
Customer Service Associate
16 Sep 2022 08:35:39

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.



Bureau Veritas Job #: C267852
 Report Date: 2022/09/16

Peace River Area Monitoring Program Committee
 Client Project #: 2022/08/01 - 2022/09/01
 Site Location: PEACE RIVER COMPLEX
 Sampler Initials: BG

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		BBG059	BBG060	BBG061	BBG062	BBG063	BBG064	BBG065		
Sampling Date		2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.37	0.48	0.69	0.90	0.36	0.36	0.35	0.02	A710255
Calculated SO2	ppb	0.3	0.3	0.6	0.2	0.2	0.2	0.2	0.1	A707456
RDL = Reportable Detection Limit										

Bureau Veritas ID		BBG066		BBG067	BBG068	BBG069	BBG070		
Sampling Date		2022/08/01 07:15		2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15	2022/08/01 07:15		
	UNITS	10	QC Batch	11	12	13	14	RDL	QC Batch
Passive Monitoring									
Calculated H2S	ppb	0.53	A710255	0.86	0.38	1.02	0.39	0.02	A710257
Calculated SO2	ppb	0.3	A707456	0.4	0.2	0.5	0.3	0.1	A707456
RDL = Reportable Detection Limit									



**BUREAU
VERITAS**

Bureau Veritas Job #: C267852
Report Date: 2022/09/16

Peace River Area Monitoring Program Committee
Client Project #: 2022/08/01 - 2022/09/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C267852
Report Date: 2022/09/16

Peace River Area Monitoring Program Committee
Client Project #: 2022/08/01 - 2022/09/01
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
A707456	OZ	Spiked Blank	Calculated SO2			99	%	90 - 110
A707456	OZ	Method Blank	Calculated SO2		<0.1		ppb	
A710255	XSZ	Spiked Blank	Calculated H2S			101	%	90 - 110
A710257	XSZ	Spiked Blank	Calculated H2S			101	%	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 #: C267852
Report Date: 2022/09/16

Peace River Area Monitoring Program Committee
Client Project #: 2022/08/01 - 2022/09/01
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:

A handwritten signature in cursive script that reads 'Yang Liu'.

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