Peace River Area Monitoring Program

DECEMBER 2024

Monthly Ambient Air Quality Monitoring Report

PRAMP-202412

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

December 21, 2024

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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
CH4	Methane
EPEA	Environmental Protection and Enhancement Act
H2S	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
SO2	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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December 17,

RE: PRAMP – December 2024 Monthly Ambient Air Quality Monitoring Report

Enclosed is the December 2024 Monthly Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Peace River Area Monitoring Program (PRAMP) regional air quality monitoring network.

The representative of the Person Responsible for this monitoring program is

PRAMP Airshed
Michael Bisaga / Lily Lin, Technical Program Managers
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This report has been prepared, review 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.

PRAMP Airshed has retained the services of Bureau Veritas Canada to conduct continuous ambient monitoring on its behalf.

NETWORK STATION SUMMARY

Listing of Continuous Monitoring Stations

The PRAMP continuous ambient air quality monitoring network stations are:

- 986-C Station
- 842-B Station
- Reno-B Station
- AQHI Grimshaw
- Peace River Complex (PRC) Station

Station ID	Station Name	Latitude	Longitude
1562	986-C	56.36980	-116.92500
1561	842-B	56.27406	-116.98129
1563	Reno-B	55.890868	-117.137080
1689	AQHI-Grimshaw	56.18657	-117.604994
1698	PRC	56.38257	-116.769283

Listing of Intermittent Monitoring Stations

- VOC Canister Sampling Station
  - 986-C Station
  - 842-B Station
  - Reno-B Station

Listing of PRAMP member with EPEA Facility Operating Approval

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

Calibration and Data Submission

Hourly data and calibration reports for December 2024 were submitted to the ETS data system for the 986-C station, 842-B station, Reno-B station, PRC station and AQHI-Grimshaw station.

Monitoring Operations Notes during the Month of December 2024

Precipitation: With lower ambient temperatures recorded this month, the built-in heater may not work as efficiently as it should be when temperatures drop below approximately -10 °C. As a result, precipitation data collected at the 986-C, 842-B and Reno-B stations should be used with caution.

986-CStation

- **THC/CH4/NMHC**: Due to injection issues, BV's Thermo 55i analyzer, s/n: 1022143392, was removed after a successful shut-down calibration on December 28. PRAMP's Thermo 55i analyzer, s/n: 1191032505, was installed afterwards. The analyzer was allowed to stabilize overnight. A successful installation calibration was completed on December 29. Twenty hours of downtime were recorded due to this event.

842-B Station

- No operational issues were identified this month.

Reno-B Station

- No operational issues were identified this month.

PRC Station

- **H2S:**
  - The analyzer failed the repeat zero-span check on December 2 at hour 14, but it passed the later scheduled zero-span check at hour 21. The drift was likely due to unstable lamp voltages. Data were invalidated back to the last valid zero-span check, which was December 1 at hour 23. Twenty-two hours of downtime were recorded.
  - The analyzer failed the daily span check on December 9 due to unstable lamp voltages. CNRL's Thermo 450i analyzer, s/n: 1308857354, was removed for repair after a successful shut-down calibration on December 10. BV's Teledyne T101 analyzer, s/n: 1014, was installed afterwards. The analyzer was allowed to stabilize overnight. A successful installation calibration was completed on December 11. Data were invalidated back to the last valid calibration check point, which was December 8. Sixty-four hours of downtime were recorded due to this event.

AQHI – Grimshaw Station

- No operational issues were identified this month.

Exceedances of the AAAQOs and AAAQGs during the Month of December 2024

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable.

Non-compliance Events during the Month of December 2024

- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except the PRC station – H2S analyzer (88.6%). ***DINC0013545***. Due to unstable lamp voltages, the analyzer failed the daily span check on both December 2 and 9. The Thermo 450i analyzer, s/n: 1308857354, was replaced by the Teledyne T101 analyzer, s/n: 1014, on December 10. A successful installation calibration was completed on the newly installed analyzer on December 11. Eighty-five hours of downtime were recorded due to this issue.

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 986-C, 842-B, and the Reno-B 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 valid NMHC canister events were recorded this month. The canister event that was triggered on December 4 at 18:00 at the Reno-B station was not valid as the system was triggered during the HC analyzer malfunction period.

Revisions to Alberta's Ambient Air Quality Data Warehouse

No revisions to historical data previously submitted to the ETS data system this month.

Deviations from Authorized Monitoring Methods

No deviations from authorized monitoring methods were recorded this month.

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).

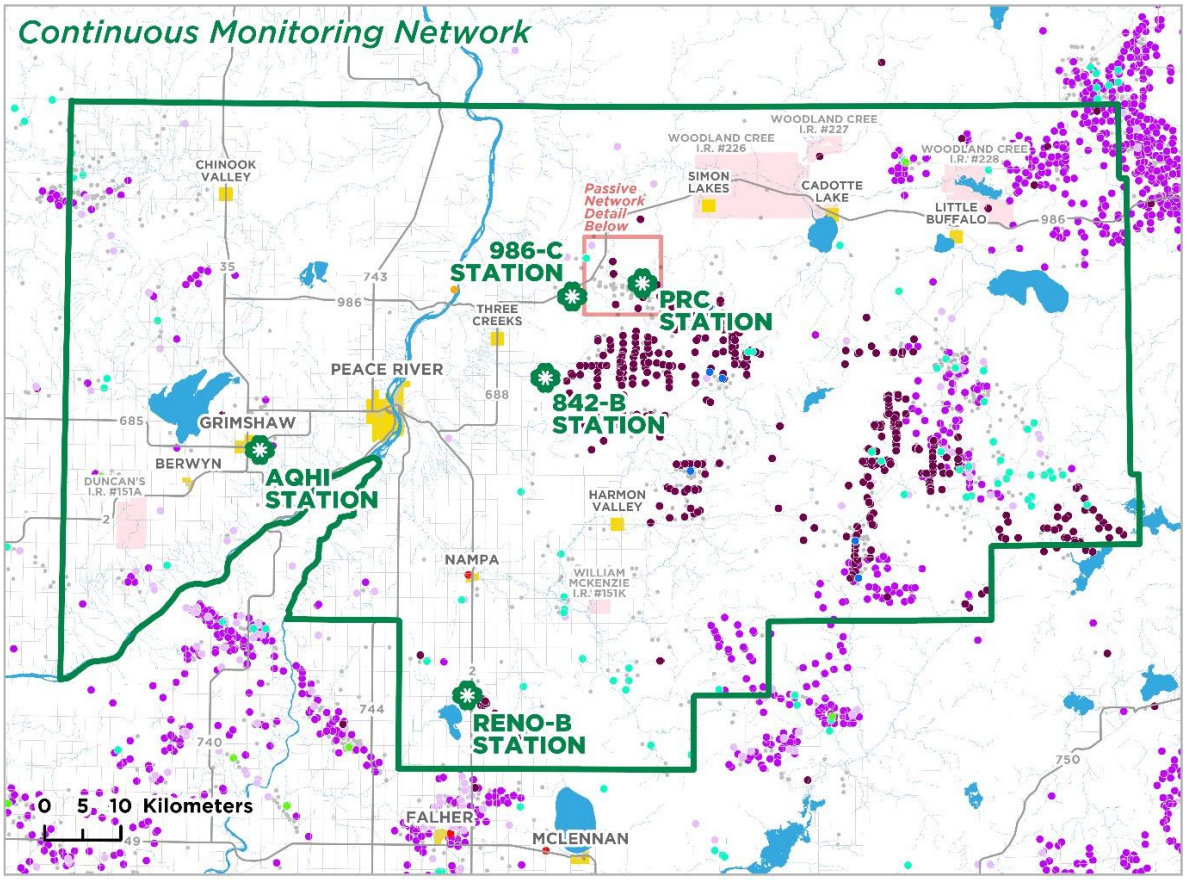
Lily Lin, Technical Program Manager, PRAMP Airshed

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 ETS data system 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

Map of PRAMP Continuous Monitoring Network



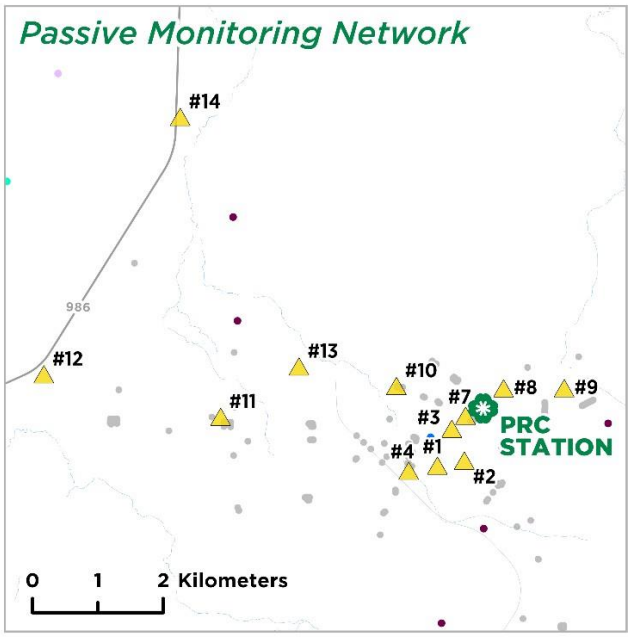
Legend

- PRAMP Boundary
- Populated Place
- First Nation
- Continuous Monitoring Station
- Passive Monitoring Station

Industrial Facilities

- In-Situ Oil Sands
- Heavy Oil/Bitumen Well or Battery
- Conventional Oil Well or Battery
- Natural Gas Well or Battery
- Gas Plant or Gas Processing
- Compressor Station or Pipeline
- Agricultural Storage and Transfer
- Pulp and Paper
- Well (Not Associated with Batteries)

Service Layer Credits: Esri, CGIAR, USGS, Esri, USGS



CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

986 -C Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #1193585646	December 12, 2024	• No operational issues were recorded this month.
TRS Thermo 43iQTL #1191833341 TRS convertor CD Nova CDN-101 #530	December 12, 2024	• Due to a firmware error, the analyzer failed on December 17 at hour 13. The analyzer was reset, and a zero-span check was completed to confirm the analyzer's functionality on December 18 at hour 14. Twenty-five hours of downtime were recorded due to this event. • The analyzer failed the December 18's zero-span check due to low permeation oven temperature after the analyzer reset. The analy7zer passed the December 19's zero-span check. No further issues were identified. Data quality was not affected by this issue.
THC/CH4/NMHC Thermo 55i #1022143392 #1191032505 H2 Generator HG300 #191267063 Zero Air Supply Teledyne T701 #468	December 29, 2024	• Bad injections started being recorded on December 25. BV's Thermo 55i analyzer, s/n: 1022143392, was removed after a successful shut-down calibration on December 28. PRAMP's Thermo 55i analyzer, s/n: 1191032505, was installed afterwards. The analyzer was allowed to stabilize overnight. A successful installation calibration was completed on December 29. Twenty hours of downtime were recorded due to this event. • One-minute data were reviewed and discarded if data quality was affected by the injection issues. Hourly data were re-averaged using the validated one-minute dataset. Twelve hours of data were invalidated as a result.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2-S3 #20626912	December 12, 2024	• No operational issues were recorded this month.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #Y23358	December 12, 2024	• No operational issues were recorded this month.
AT Rotronic HC2-S3 #20626912	December 12, 2024	• No operational issues were recorded this month.
ST COMET #189619	December 12, 2024	• No operational issues were recorded this month.
Precipitation RM Young 52202 #TB 16325	December 12, 2024	• No operational issues were recorded this month.
WS/ WD RM Young 05305AQ #180340	December 12, 2024	• Wind direction data contained in this report represents where the wind is coming from. • The last annual wind system calibration was completed on August 22, 2024. • No operational issues were recorded this month.

Monitored Data Summary for 986-C 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	Dec 1 at hr 10	5.2	ESE	0.3	Dec 5	100.0	94.9
TRS (ppb)	-	-	-	-	-	-	0.34	0.02	0.91	Dec 2 at hr 23	16.9	SW	0.53	Dec 2	96.6	91.5
THC (ppm)	-	-	-	-	-	-	2.11	1.96	2.56	Dec 1 at hr 5	2.3	S	2.25	Dec 1	95.7	90.6
CH4 (ppm)	-	-	-	-	-	-	2.11	1.96	2.56	Dec 1 at hr 5	2.3	S	2.25	Dec 1	95.7	90.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	Dec 29 at hr 13	2.7	WNW	0.00	Dec 1	95.7	90.6
RH (%)	-	-	-	-	-	-	89.8	60	100	Dec 3 at hr 3	16	NNW	100.0	Dec 22	100.0	100.0
BP (millibar)	-	-	-	-	-	-	939	919	960	Dec 1 at hr 3	5.2	SE	958	Dec 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-9.1	-33.5	5.5	Dec 6 at hr 6	19.5	SW	4.2	Dec 6	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.9	18.3	23.9	Dec 17 at hr 12	3.3	E	23.6	Dec 18	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	1.3	0.0	0.3	Dec 27 at hr 1	4.5	SE	0.4	Dec 27	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	3.0	0.1	29.0	Dec 6 at hr 8	29	SW	17.0	Dec 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	190 (S)	-	-	-	-	-	-	-	100.0	100.0

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

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

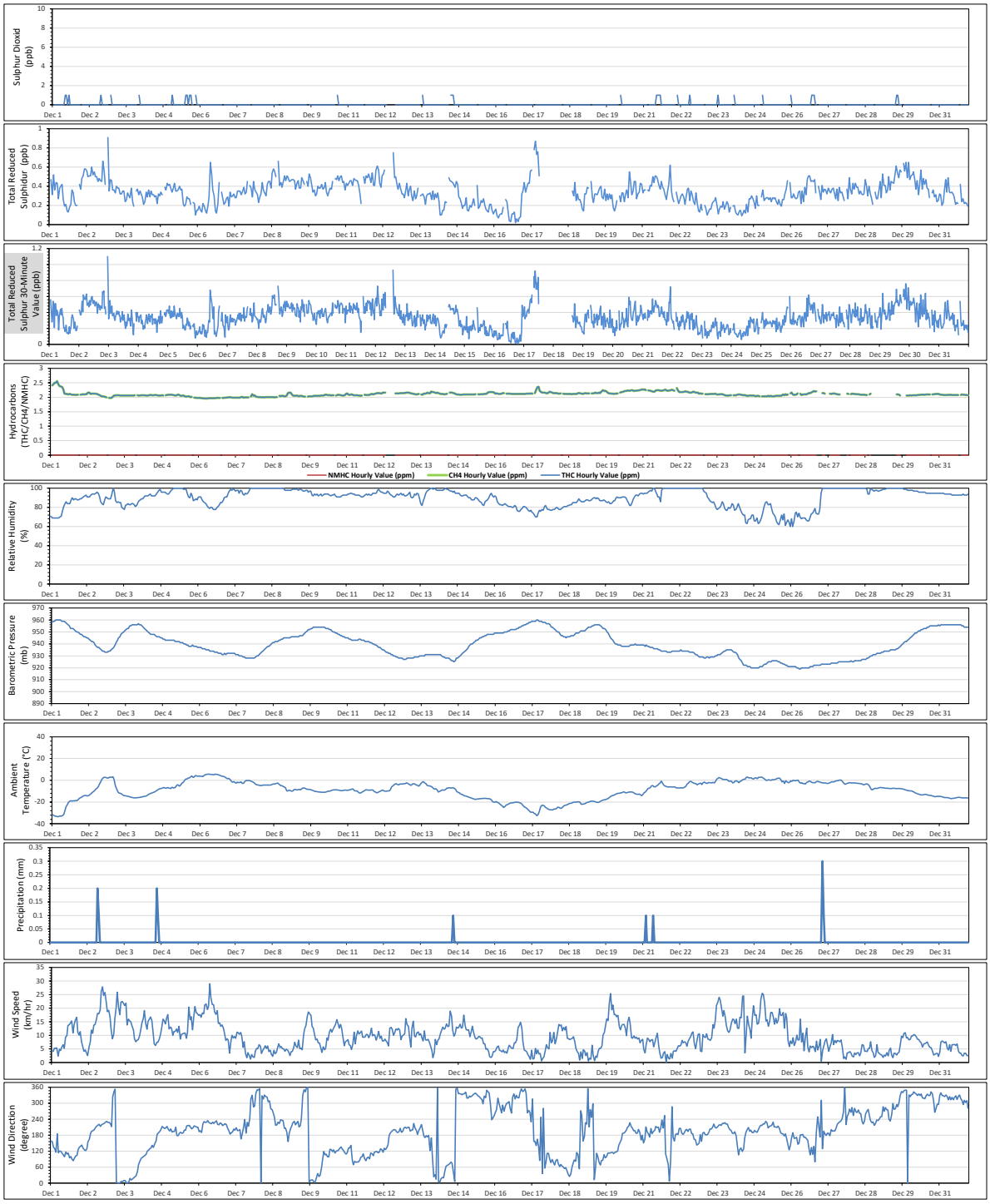
Parameter	Objectives/Guidelines	Exceedances	Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	30-min										
TRS (ppb)	5	0	0.34	0.01	1.10	Dec 2 at 23:00	17.7	SW	0.57	Dec 16	96.6	91.5

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

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

The measured ambient air quality was within the AAAQOs and/or AAAQGs for all monitored parameters.

Timeseries Chart of Hourly Average for the month of Dec 2024 - 986-C Station



842-B Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #1200736629	December 18, 2024	• No operational issues were recorded this month. • Hourly data collected on December 10 at hour 18 was lost due to polling errors.
TRS Thermo 43iQTL #1200736630 TRS Convertor CD Nova CDN-101 #552	December 18, 2024	• No operational issues were recorded this month. • Hourly data collected on December 10 at hour 18 was lost due to polling errors.
THC/CH4/NMHC Thermo 55i #12208316589 H2 Generator HG300 #190567058 Zero Air Supply Teledyne T701 #1087	December 18, 2024	• No operational issues were recorded this month. • Hourly data collected on December 10 at hour 18 was lost due to polling errors.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2-S3 #24010202	December 18, 2024	• No operational issues were recorded this month.
AT Rotronic HC2-S3 #24010202	December 18, 2024	• No operational issues were recorded this month.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #Y23362	December 18, 2024	• No operational issues were recorded this month.
ST COMET #20790297	December 18, 2024	• No operational issues were recorded this month.
Precipitation RM Young 52202 #TB 15878	November 5, 2024	• No operational issues were recorded this month. • The precipitation gauge was not verified during December 18's site visit due to extreme winter conditions.
WS/ WD RM Young 05305AQ #174802	December 18, 2024	• Wind direction data contained in this report represents where the wind is coming from. • The last annual wind system calibration was completed on August 22, 2024. • No operational issues were recorded this month.

Monitored Data Summary for 842-B 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	Dec 2 at hr 20	19.9	SW	0.5	Dec 20	99.9	94.9
TRS (ppb)	-	-	-	-	-	-	0.69	0.46	0.99	Dec 1 at hr 9	4.3	ENE	0.80	Dec 16	99.9	94.9
THC (ppm)	-	-	-	-	-	-	2.06	1.93	2.79	Dec 1 at hr 9	4.3	ENE	2.32	Dec 1	99.9	94.9
CH4 (ppm)	-	-	-	-	-	-	2.06	1.93	2.79	Dec 1 at hr 9	4.3	ENE	2.32	Dec 1	99.9	94.9
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	Dec 22 at hr 18	6.4	SE	0.00	Dec 22	99.9	94.9
RH (%)	-	-	-	-	-	-	81.7	51	98	Dec 27 at hr 9	6	S	96.1	Dec 27	100.0	100.0
BP (millibar)	-	-	-	-	-	-	938	918	958	Dec 1 at hr 1	1.7	ESE	956	Dec 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-9.2	-34.1	5.8	Dec 6 at hr 8	19.1	WSW	4.2	Dec 6	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.5	20.9	23.7	Dec 1 at hr 2	2.1	E	23.1	Dec 1	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	2.6	0.0	0.5	Dec 27 at hr 1	1.8	SSE	0.9	Dec 27	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	2.5	0.1	23.9	Dec 23 at hr 12	23.9	SSW	13.9	Dec 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	195 (SSW)	-	-	-	-	-	-	-	100.0	100.0

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

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

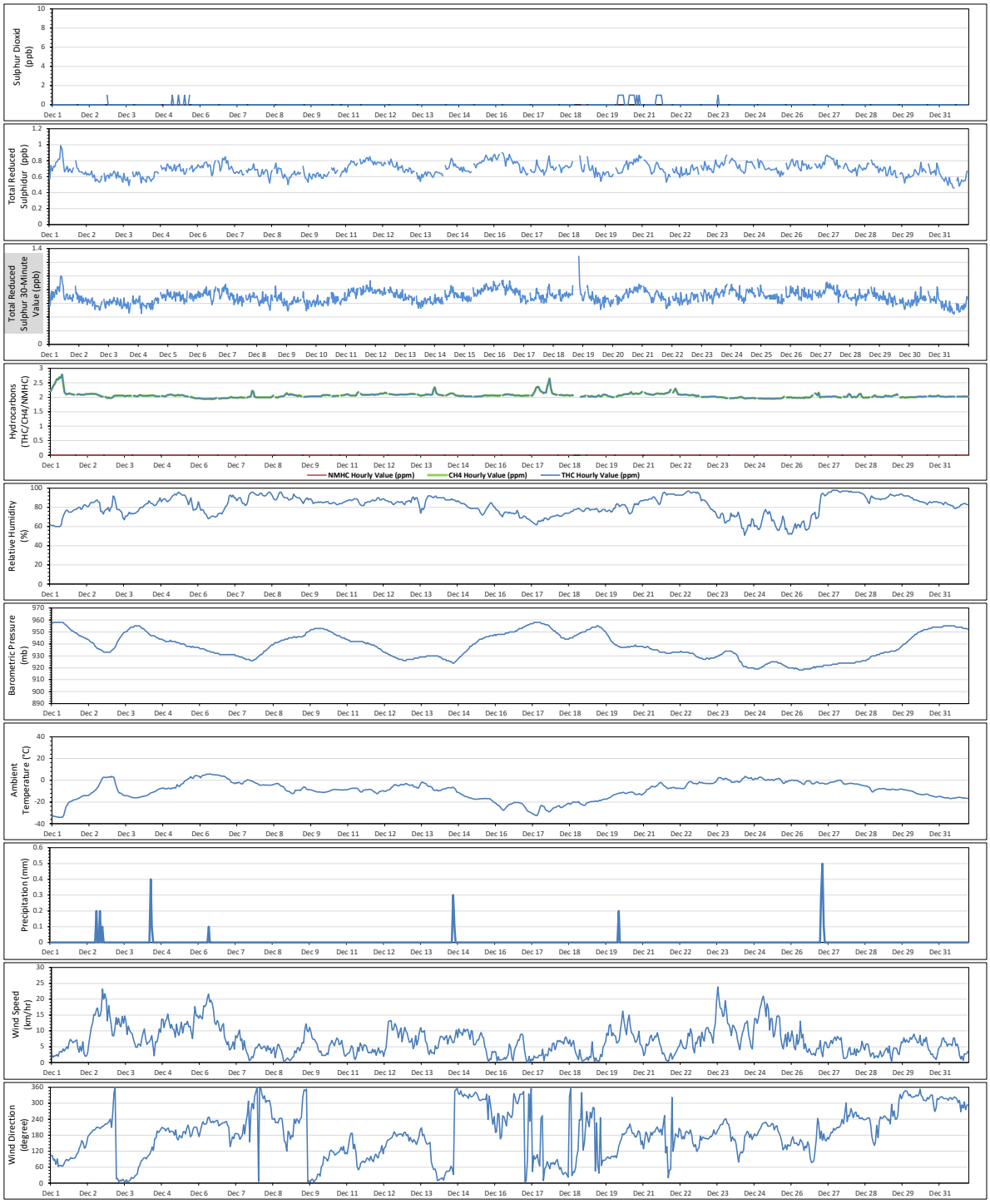
Parameter	Objectives/Guidelines	Exceedances	Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	30-min										
TRS (ppb)	5	0	0.69	0.44	1.29	Dec 18 at 20:30	3.4	SW	0.80	Dec 31	99.9	95.0

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

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

The measured ambient air quality was within the AAAQOs and/or AAAQGs for all monitored parameters.

Timeseries Chart of Hourly Average for the month of Dec 2024 - 842-B Station



Reno-B Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #12101910505	December 13, 2024	• No operational issues were identified this month.
TRS Thermo 43iQTL #12101910504 **TRS Convertor** CD Nova CDN- 101 #590	December 13, 2024	• No operational issues were identified this month.
THC/CH4/NMHC Thermo 55i #119358565 2 H2 Generator HG300 #210467069	December 13, 2024	• The analyzer was unstable on December 4 at hour 18. The scheduled daily zero-span check at hour 19 confirmed that the analyzer's functionality was back to normal. The root cause could not be identified as the issue was self-correct. Data collected at hour 18 was invalidated due to this event. • Bad injections were recorded on December 6 at hours 13 and 14. One-minute data were reviewed and discarded if data quality was compromised by the injection issues. Hourly data were re-averaged using the validated one-minute dataset. Hourly data completeness requirement for December 6 at hours 13 and 14 were met. • The carrier gas cylinder was replaced on December 13.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2- S3 #20467597	December 13, 2024	• No operational issues were identified this month.
BP MetOne 092 #A17940	December 13, 2024	• No operational issues were identified this month.

Parameter	Verification Date	Equipment Operational Summary
AT Rotronic HC2-S3 #20467597	December13, 2024	• No operational issues were identified this month.
ST COME T #NA	December 13, 2024	• No operational issues were identified this month.
Precipitation RM Young 52202 #TB 15877	December 13, 2024	• No operational issues were identified this month.
WS/ WD RM Young 05305AQ #174795	December 13, 2024	• Wind direction data contained in this report represents where the wind is coming from. • The last annual wind system calibration was completed on August 23, 2024. • No operational issues were identified this month.

Monitored Data Summary for Reno-B 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	Dec 2 at hr 18	21.3	SW	0.4	Dec 20	100.0	95.3
TRS (ppb)	-	-	-	-	-	-	0.35	0.24	0.55	Dec 7 at hr 18	3	WSW	0.41	Dec 5	100.0	95.3
THC (ppm)	-	-	-	-	-	-	2.07	1.93	2.43	Dec 26 at hr 17	1.9	NNW	2.16	Dec 20	99.9	95.1
CH4 (ppm)	-	-	-	-	-	-	2.07	1.93	2.43	Dec 26 at hr 17	1.9	NNW	2.16	Dec 20	99.9	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.04	Dec 2 at hr 22	15	SW	0.00	Dec 4	99.9	95.1
RH (%)	-	-	-	-	-	-	86.8	49	100	Dec 5 at hr 6	8.4	S	98.1	Dec 8	100.0	100.0
BP (millibar)	-	-	-	-	-	-	938	918	959	Dec 1 at hr 4	3.4	SSE	956	Dec 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-9.1	-30.6	5.5	Dec 6 at hr 5	17.1	SW	3.6	Dec 6	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.6	21.8	23.7	Dec 1 at hr 3	3.1	ESE	23.4	Dec 1	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	2.8	0.0	0.5	Dec 7 at hr 17	4.5	SSW	1.3	Dec 7	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	4.1	0.0	28.3	Dec 14 at hr 18	28.3	N	19.5	Dec 24	100.0	100.0
WDV (sector)	-	-	-	-	-	-	175 (S)	-	-	-	-	-	-	-	100.0	100.0

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

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

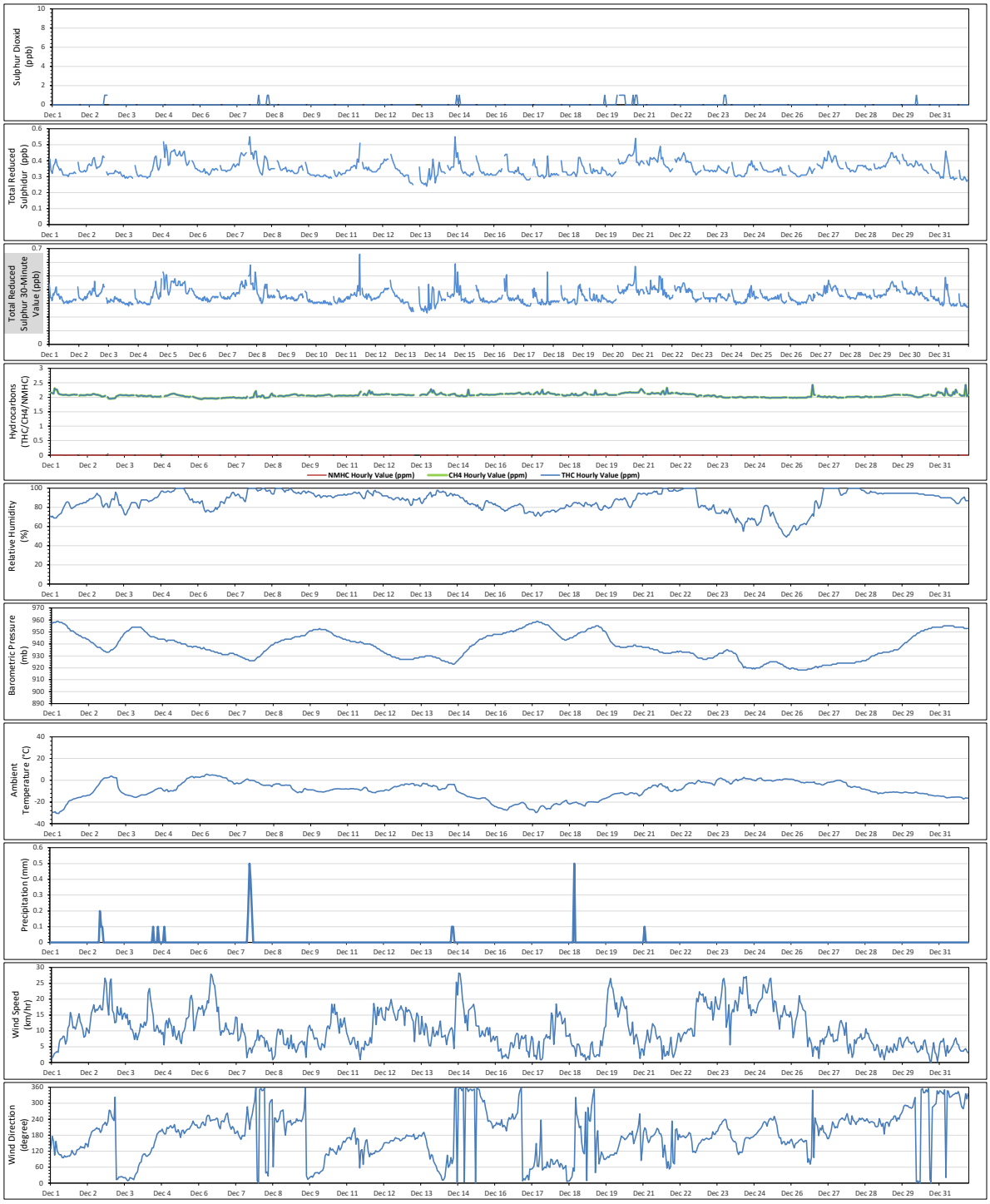
Parameter	Objectives/Guidelines	Exceedances	Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	30-min										
TRS (ppb)	5	0	0.35	0.23	0.66	Dec 11 at 11:00	2.2	ESE	0.42	Dec 13	100.0	95.3

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

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

The measured ambient air quality was within the AAAQOs and/or AAAQGs for all monitored parameters.

Timeseries Chart of Hourly Average for the month of Dec 2024 - Reno-B Station



PRC Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43i #1034746225	December 10, 2024	• No operational issues were identified this month.
H2S Thermo 450i #1308857354 Teledyne T100 #1014	December 10, 2024	• The analyzer failed the repeat zero-span check on December 2 at hour 14, but it passed the later scheduled zero-span check at hour 21. The drift was likely due to unstable lamp voltages. Data were invalidated back to the last valid zero-span check, which was December 1 at hour 23. Twenty-two hours of downtime were recorded. • The analyzer failed the daily span check on December 9 due to unstable lamp voltages. CNRL's Thermo 450i analyzer, s/n: 1308857354, was removed for repair after a successful shut-down calibration on December 10. BV's Teledyne T101 analyzer, s/n: 1014, was installed afterwards. The analyzer was allowed to stabilize overnight. A successful installation calibration was completed on December 11. Data were invalidated back to the last valid calibration check point, which was December 8. Sixty-four hours of downtime were recorded due to this event.
TRS Thermo 450i #1034746224 TRS Convertor CD Nova CDN-101 #516	December 10, 2024	• No operational issues were identified this month.
THC/CH4/NMHC Thermo 55i #1034745845 H2 Generator HG300 #211067076	December 10, 2024	• No operational issues were identified this month.

Parameter	Verification Date	Equipment Operational Summary
RH Rotronic HC2-S3 #20558318	December 11, 2024	• No operational issues were identified this month.
BP MetOne 092 #B19577	December 11, 2024	• No operational issues were identified this month.
AT Rotronic HC2-S3 #20558318	December 11, 2024	• No operational issues were identified this month.
ST Canadian Natural #NA	December 11, 2024	• No operational issues were identified this month.
WS/ WD RM Young 05305VK #129612	December 11, 2024	• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on September 10, 2024. • No operational issues were identified 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	1	Dec 14 at hr 12	15.4	E	0.2	Dec 27	100.0	95.1
H2S (ppb)	10	3	-	0	0	-	0.0	0	1	Dec 1 at hr 21	10.9	ESE	0.0	Dec 1	88.6	83.7
TRS (ppb)	-	-	-	-	-	-	0.1	0	1	Dec 2 at hr 19	22	SW	1.0	Dec 3	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.04	1.94	2.22	Dec 22 at hr 3	4	SSW	2.15	Dec 21	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	2.04	1.94	2.22	Dec 22 at hr 3	4	SSW	2.15	Dec 21	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Dec 1 at hr 0	4.2	S	0.00	Dec 1	100.0	95.1
RH (%)	-	-	-	-	-	-	91.7	61	100	Dec 2 at hr 12	14.4	SSW	100.0	Dec 29	100.0	100.0
BP (millibar)	-	-	-	-	-	-	939	920	959	Dec 1 at hr 1	5.5	SSW	957	Dec 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-9.4	-33.6	5.7	Dec 6 at hr 8	27.2	WSW	3.9	Dec 6	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.3	19.4	26.2	Dec 6 at hr 17	15	SW	25.6	Dec 6	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	3.4	0.3	27.2	Dec 6 at hr 8	27.2	WSW	17.1	Dec 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	205 (SSW)	-	-	-	-	-	-	-	100.0	100.0

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

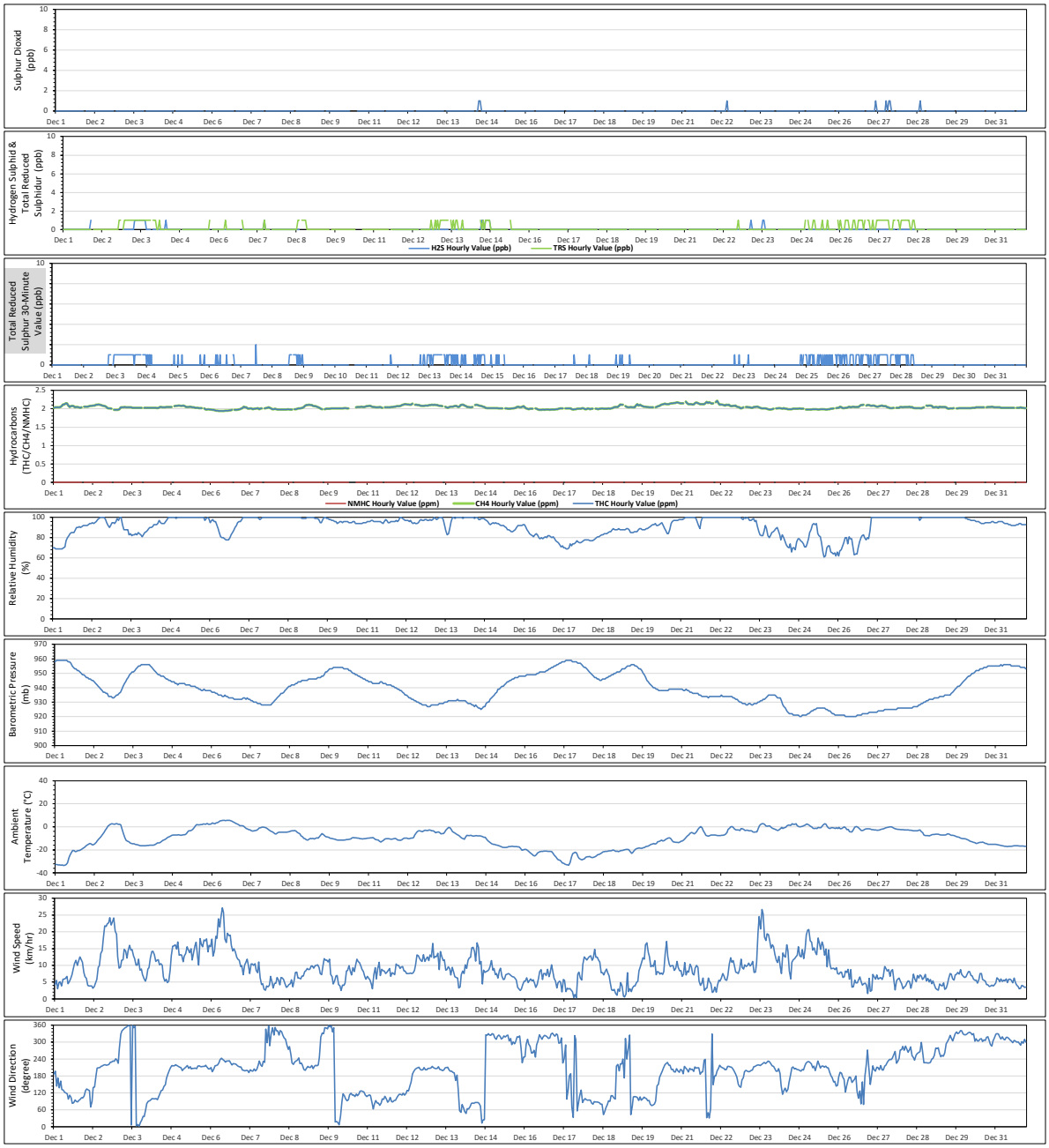
Parameter	Objectives/Guidelines	Exceedances	Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	30-min										
TRS (ppb)	5	0	0.2	0	2	Dec 7 at 11:30	8.3	SSW	1.0	Dec 1	100.0	95.2

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

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

The measured ambient air quality was within the AAAQOs and/or AAAQGs for all monitored parameters.

Timeseries Chart of Hourly Average for the month of Dec 2024 - Peace River Complex (PRC) Station



AQHI – Grimshaw Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Teledyne T100 #722	December 17, 2024	• No major operational issues were identified this month.
TRS Thermo 43iQ-TL #12409233394 TRS Convertor CD Nova CDN-101 #576	December 17, 2024	• No major operational issues were identified this month. • Following a successful shut-down calibration on December 17, the SO2 scrubber was replaced. A post-repair calibration was completed afterwards. Two hours of downtime were recorded as a result.
NOx/NO/NO2 Thermo 42iQ #12409233392	December 17, 2024	• Due to a firmware error, the analyzer failed on December 11 at hour 9. The analyzer was reset, and a zero-span check was initiated to confirm the analyzer's functionality on December 11 at hour 17. Eight hours of downtime were recorded due to this event.
O3 Thermo 49iQ #12326230141	December 18, 2024	• No major operational issues were identified this month.
THC/CH4/NMHC Thermo 55i #12101910497 H2 Generator HG300 #190567059	December 17, 2024	• No major operational issues were identified this month.
PM2.5 Teledyne T640 #318	December 17, 2024	• No major operational issues were identified this month.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Vaisala HMP155 #N2910506	December 17, 2024	• No major operational issues were identified this month.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #A2397	December 17, 2024	• No major operational issues were identified this month.
AT Vaisala HMP155 #N2910506	December 17, 2024	• No major operational issues were identified this month.
ST COMET #NA	December 17, 2024	• No major operational issues were identified this month.
WS/ WD RM Young 05305AQ #174801	December 17, 2024	• Wind direction data contained in this report represents where the wind is coming from. • The last annual wind system calibration was completed on August 21, 2024. • No major 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	Dec 2 at hr 18	16.7	WSW	0.3	Dec 22	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.22	0.12	0.53	Dec 11 at hr 21	3	ESE	0.31	Dec 22	99.7	94.6
NOx (ppb)	-	-	-	-	-	-	9.7	1	83	Dec 13 at hr 10	0.5	WNW	22.0	Dec 13	98.9	93.1
NO (ppb)	-	-	-	-	-	-	2.6	0	67	Dec 31 at hr 9	6.5	N	7.7	Dec 23	98.9	93.1
NO2 (ppb)	159	-	-	0	-	-	7.1	0	40	Dec 17 at hr 7	0.2	N	15.1	Dec 26	98.9	93.1
O3 (ppb)	76	-	-	0	-	-	23.2	1.3	39.8	Dec 23 at hr 19	17.4	W	33.9	Dec 6	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.07	1.95	3.15	Dec 7 at hr 18	3	NW	2.21	Dec 22	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.07	1.95	2.31	Dec 22 at hr 12	4.2	SW	2.20	Dec 22	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	1.12	Dec 7 at hr 18	3	NW	0.05	Dec 7	100.0	95.0
PM2.5 (µg/m3)	80	29	-	0	0	-	8.6	0	61	Dec 26 at hr 15	1.7	NNE	21.5	Dec 21	100.0	99.9
RH (%)	-	-	-	-	-	-	83.0	62	100	Dec 5 at hr 17	3.7	SW	95.0	Dec 27	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	920	961	Dec 1 at hr 1	4.4	NNW	959	Dec 17	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-9.6	-30.9	5.9	Dec 6 at hr 7	17.9	WSW	4.9	Dec 6	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	21.1	18.1	23.7	Dec 18 at hr 10	10.6	NNE	22.2	Dec 17	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	6.4	0.2	23.3	Dec 25 at hr 6	23.3	WSW	14.9	Dec 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	309 (NW)	-	-	-	-	-	-	-	100.0	100.0

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

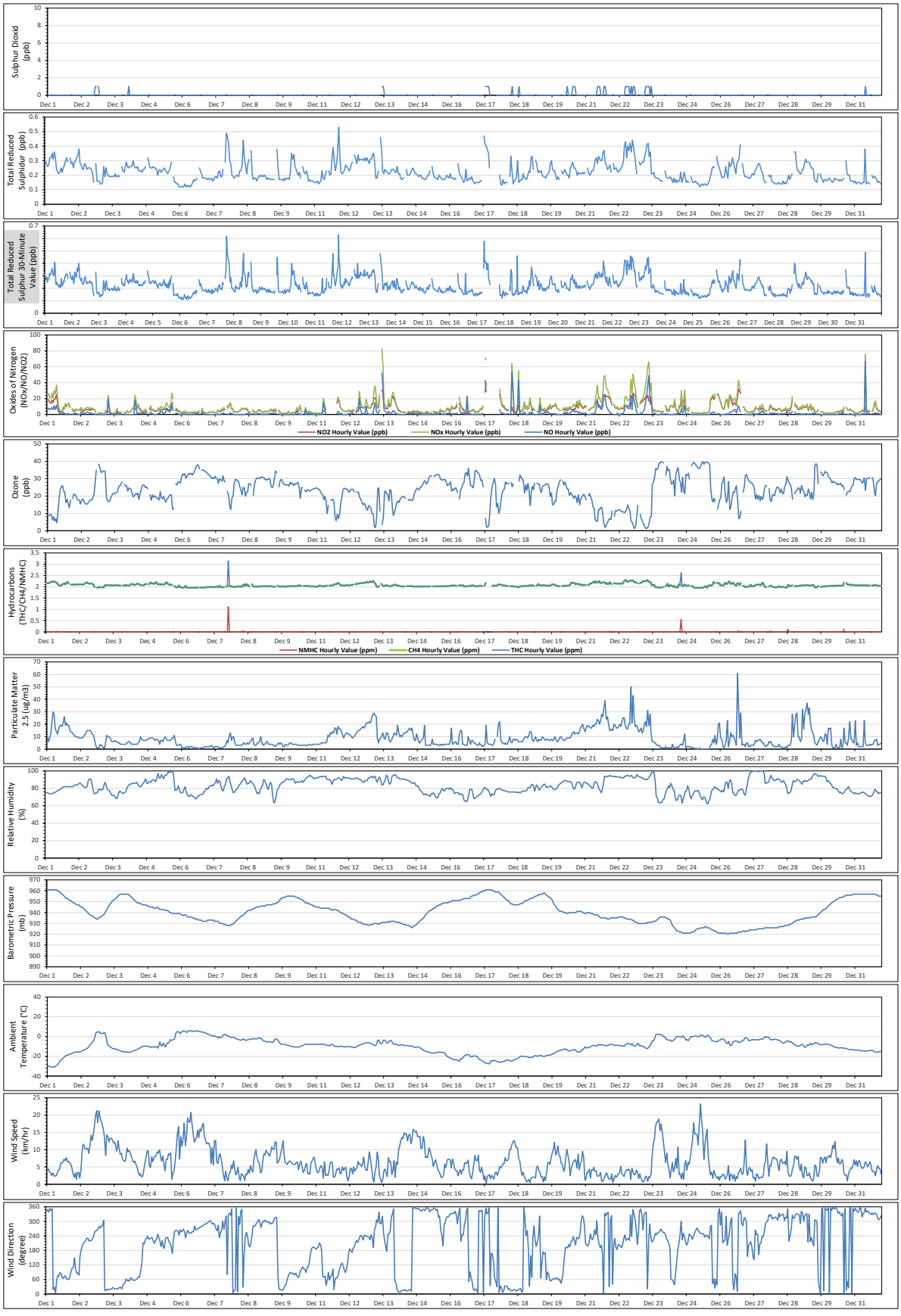
Parameter	Objectives/Guidelines	Exceedances	Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	30-min										
TRS (ppb)	5	0	0.22	0.11	0.63	Dec 11 at 21:00	2.6	ESE	0.31	Dec 6	99.7	94.7

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

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

The measured ambient air quality was within the AAAQOs and/or AAAQGs for all monitored parameters.

Timeseries Chart of Hourly Average for the month of Dec 2024 - AQHI - Grimshaw Station



TABLES, CHARTS AND WIND ROSES

986-C STATION

Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

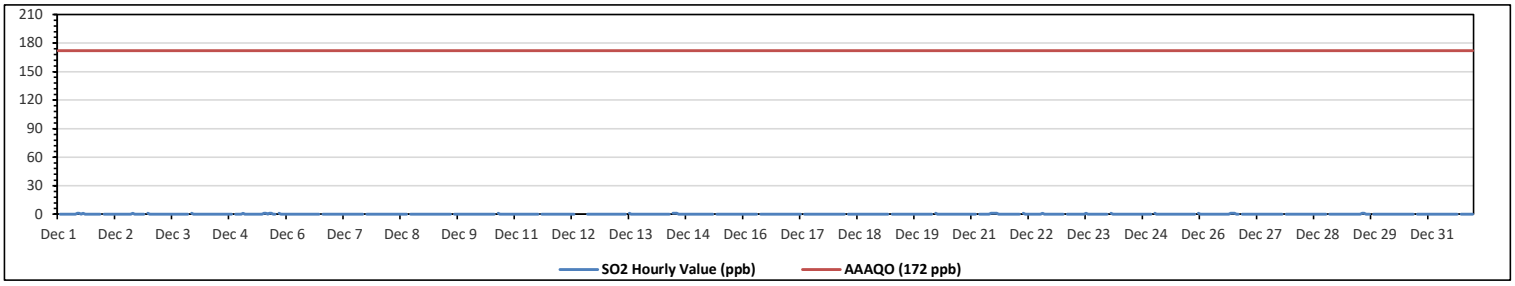
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

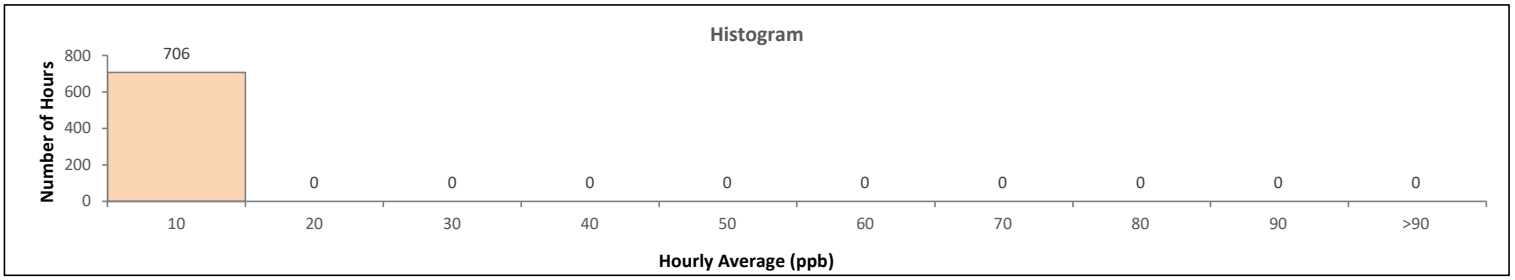
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1 ppb	on Dec 1 at hr 10		Hours in Service:	744	
Maximum Daily Value:	0.3 ppb	on Dec 5		Hours of Data:	706	
Minimum Hourly Value:	0 ppb	on Dec 1 at hr 1		Hours of Missing Data:	0	
Minimum Daily Value:	0.0 ppb	on Dec 4		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			
Dec 1	S	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	S	0	1	0.1
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	1	0	1	0.1
Dec 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	1	0.0
Dec 4	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
Dec 5	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	S	1	0	0	0	0	1	0.3
Dec 6	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
Dec 7	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
Dec 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	0.0
Dec 9	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
Dec 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	1	0.0
Dec 11	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
Dec 12	0	0	0	0	0	0	0	0	C	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Dec 13	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Dec 14	0	0	0	0	0	0	0	0	0	0	S	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Dec 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	0.0
Dec 16	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
Dec 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
Dec 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
Dec 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	0.0
Dec 20	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Dec 21	0	0	0	S	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Dec 22	0	0	S	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Dec 23	0	S	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Dec 24	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
Dec 25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	1	0.1
Dec 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	S	0	0	0	1	0.1
Dec 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	0.0
Dec 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	0.0
Dec 29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	S	0	0	0	0	0	0	1	0.1
Dec 30	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
Dec 31	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
Diurnal Maximum	1	1	0	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1			
Diurnal Average	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



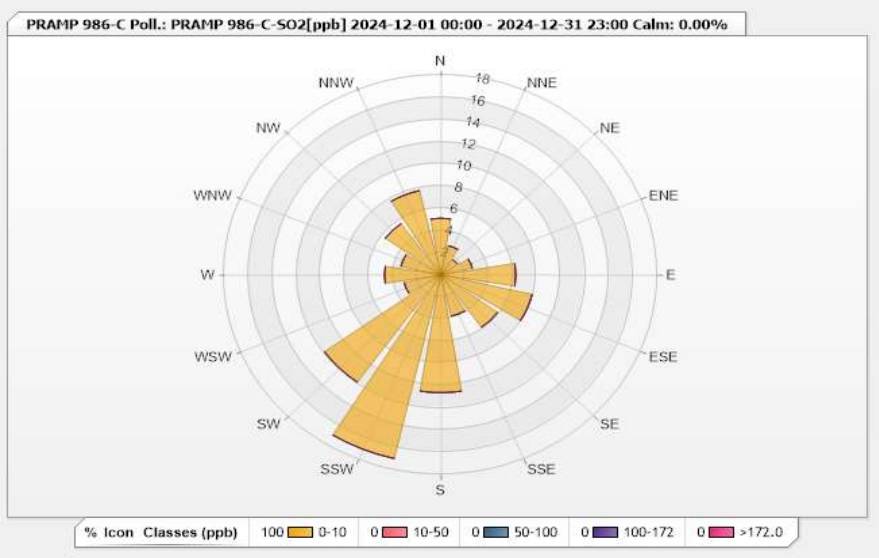


Station: PRAMP 986-C Poll.: PRAMP 986-C-SO2[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	5.1	0	0	0	0	5.1
NNE	2.69	0	0	0	0	2.69
NE	1.7	0	0	0	0	1.7
ENE	2.69	0	0	0	0	2.69
E	6.23	0	0	0	0	6.23
ESE	7.79	0	0	0	0	7.79
SE	5.81	0	0	0	0	5.81
SSE	3.82	0	0	0	0	3.82
S	10.62	0	0	0	0	10.62
SSW	17	0	0	0	0	17
SW	11.9	0	0	0	0	11.9
WSW	3.12	0	0	0	0	3.12
W	4.67	0	0	0	0	4.67
WNW	3.4	0	0	0	0	3.4
NW	5.67	0	0	0	0	5.67
NNW	7.79	0	0	0	0	7.79
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

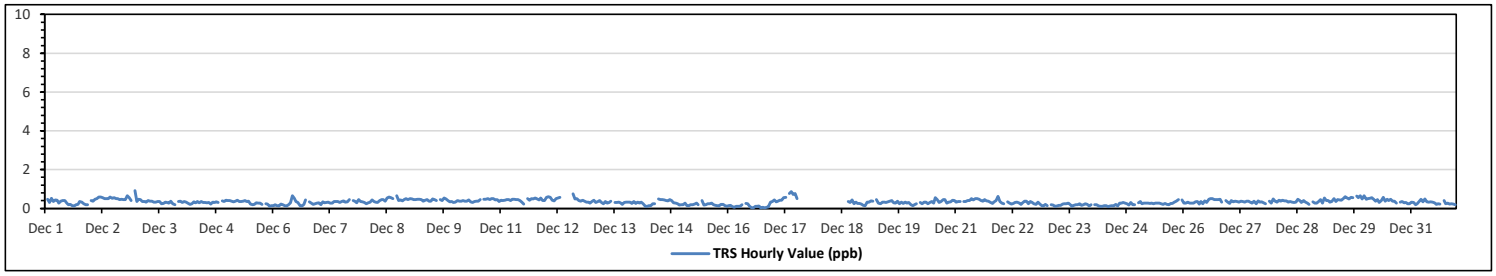
TOTAL REDUCED SULPHUR (TRS) in ppb

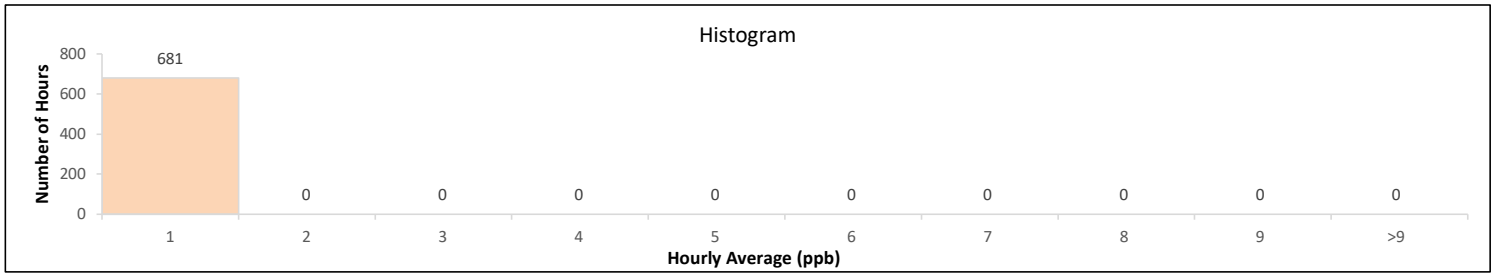
Maximum Hourly Value:	0.91	ppb	on Dec 2 at hr 23	Hours in Service:	744	
Maximum Daily Value:	0.53	ppb	on Dec 2	Hours of Data:	681	
Minimum Hourly Value:	0.02	ppb	on Dec 16 at hr 17	Hours of Missing Data:	25	
Minimum Daily Value:	0.13	ppb	on Dec 16	Hours of Calibration:	38	
Monthly Average:	0.34	ppb		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			
Dec 1	S	0.47	0.31	0.52	0.36	0.44	0.43	0.27	0.38	0.4	0.42	0.27	0.19	0.21	0.14	0.13	0.18	0.21	0.36	0.33	0.24	0.2	0.2	S	0.13	0.52	0.30
Dec 2	0.42	0.37	0.48	0.51	0.58	0.58	0.56	0.5	0.51	0.51	0.6	0.52	0.55	0.5	0.5	0.45	0.48	0.46	0.45	0.66	0.56	0.42	S	**0.91**	0.37	**0.91**	**0.53**
Dec 3	0.35	0.47	0.46	0.36	0.36	0.33	0.4	0.38	0.38	0.32	0.32	0.35	0.35	0.24	0.26	0.33	0.3	0.28	0.38	0.24	0.19	S	0.35	0.37	0.19	0.47	0.34
Dec 4	0.31	0.35	0.32	0.28	0.21	0.24	0.34	0.29	0.36	0.29	0.35	0.31	0.31	0.29	0.3	0.22	0.32	0.3	0.34	0.31	S	0.39	0.36	0.43	0.21	0.43	0.31
Dec 5	0.41	0.42	0.38	0.34	0.38	0.43	0.35	0.35	0.37	0.4	0.36	0.37	0.22	0.19	0.21	0.29	0.27	0.27	0.21	S	0.23	0.22	0.1	0.15	0.10	0.43	0.30
Dec 6	0.15	0.19	0.15	0.13	0.22	0.19	0.14	0.12	0.2	0.29	0.65	0.52	0.36	0.3	0.14	0.12	0.21	0.44	S	0.34	0.28	0.21	0.23	0.27	0.12	0.65	0.25
Dec 7	0.29	0.19	0.34	0.29	0.3	0.32	0.28	0.28	0.35	0.35	0.35	0.31	0.35	0.39	0.32	0.34	0.45	S	0.41	0.38	0.29	0.45	0.36	0.34	0.19	0.45	0.34
Dec 8	0.31	0.23	0.29	0.32	0.44	0.36	0.33	0.3	0.42	0.45	0.45	0.38	0.54	0.58	0.56	0.5	S	0.66	0.41	0.44	0.39	0.45	0.51	0.46	0.23	0.66	0.43
Dec 9	0.51	0.49	0.45	0.46	0.47	0.47	0.46	0.37	0.43	0.46	0.38	0.38	0.49	0.46	0.42	S	0.45	0.4	0.53	0.49	0.41	0.34	0.36	0.3	0.30	0.53	0.43
Dec 10	0.32	0.4	0.38	0.38	0.42	0.37	0.38	0.44	0.34	0.3	0.35	0.38	0.37	0.45	S	0.48	0.47	0.51	0.46	0.5	0.51	0.44	0.45	0.36	0.30	0.51	0.41
Dec 11	0.43	0.41	0.43	0.46	0.46	0.41	0.48	0.47	0.46	0.46	0.41	0.32	0.22	S	0.5	0.43	0.51	0.49	0.53	0.49	0.44	0.54	0.41	0.41	0.22	0.54	0.44
Dec 12	0.57	0.61	0.57	0.43	0.39	0.51	0.53	0.57	C	C	C	C	C	C	0.75	0.49	0.5	0.42	0.37	0.43	0.37	0.32	0.32	0.28	0.28	0.75	0.47
Dec 13	0.36	0.43	0.3	0.36	0.4	0.3	0.25	0.35	0.27	0.3	0.38	S	0.3	0.31	0.32	0.29	0.21	0.3	0.32	0.32	0.33	0.26	0.35	0.26	0.21	0.43	0.32
Dec 14	0.32	0.28	0.33	0.24	0.1	0.1	0.15	0.15	0.24	0.23	S	0.49	0.46	0.45	0.44	0.42	0.39	0.45	0.42	0.29	0.27	0.23	0.17	0.2	0.10	0.49	0.30
Dec 15	0.2	0.28	0.15	0.14	0.2	0.18	0.22	0.27	0.2	S	0.41	0.17	0.19	0.25	0.23	0.27	0.2	0.16	0.14	0.13	0.21	0.21	0.15	0.11	0.11	0.41	0.20
Dec 16	0.14	0.16	0.09	0.07	0.1	0.11	0.11	0.18	S	0.26	0.24	0.12	0.04	0.03	0.11	0.11	0.13	0.02	0.06	0.03	0.07	0.08	0.32	0.35	0.02	0.35	0.13
Dec 17	0.44	0.34	0.38	0.43	0.43	0.56	0.57	S	0.78	0.87	0.73	0.76	0.51	X	X	X	X	X	X	X	X	X	X	X	0.34	0.87	NA
Dec 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	S	0.35	0.3	0.44	0.25	0.32	0.26	0.26	0.22	0.16	0.16	0.44	NA
Dec 19	0.14	0.32	0.32	0.39	0.38	S	0.45	0.28	0.23	0.32	0.32	0.31	0.34	0.38	0.4	0.29	0.27	0.37	0.25	0.32	0.26	0.32	0.27	0.31	0.14	0.45	0.31
Dec 20	0.18	0.14	0.19	0.25	S	0.3	0.24	0.33	0.33	0.24	0.31	0.36	0.28	0.55	0.46	0.31	0.35	0.45	0.45	0.27	0.32	0.34	0.43	0.42	0.14	0.55	0.33
Dec 21	0.33	0.36	0.36	S	0.36	0.35	0.41	0.4	0.5	0.44	0.51	0.5	0.47	0.41	0.37	0.45	0.39	0.37	0.31	0.26	0.34	0.42	0.62	0.35	0.26	0.62	0.40
Dec 22	0.28	0.24	S	0.34	0.28	0.22	0.26	0.3	0.32	0.29	0.21	0.29	0.37	0.38	0.25	0.35	0.31	0.24	0.21	0.33	0.22	0.14	0.13	0.21	0.13	0.38	0.27
Dec 23	0.15	S	0.2	0.17	0.1	0.13	0.16	0.16	0.22	0.24	0.25	0.28	0.2	0.11	0.16	0.19	0.18	0.24	0.16	0.2	0.24	0.21	0.13	0.18	0.10	0.28	0.19
Dec 24	S	0.19	0.2	0.13	0.11	0.1	0.14	0.15	0.09	0.12	0.15	0.12	0.21	0.13	0.27	0.27	0.3	0.27	0.24	0.17	0.3	0.2	0.2	S	0.09	0.30	0.18
Dec 25	0.29	0.36	0.25	0.27	0.28	0.28	0.26	0.28	0.24	0.28	0.27	0.28	0.24	0.21	0.26	0.21	0.19	0.26	0.26	0.32	0.37	0.46	S	0.44	0.19	0.46	0.29
Dec 26	0.28	0.28	0.32	0.28	0.27	0.28	0.34	0.35	0.22	0.35	0.24	0.39	0.31	0.47	0.51	0.51	0.45	0.46	0.45	0.47	0.33	S	0.4	0.33	0.22	0.51	0.36
Dec 27	0.26	0.41	0.34	0.37	0.36	0.32	0.38	0.35	0.33	0.37	0.38	0.33	0.27	0.37	0.25	0.39	0.33	0.34	0.29	0.25	S	0.37	0.27	0.49	0.25	0.49	0.34
Dec 28	0.37	0.32	0.43	0.37	0.43	0.39	0.39	0.32	0.35	0.32	0.31	0.32	0.47	0.4	0.3	0.4	0.32	0.28	0.21	S	0.34	0.27	0.27	0.35	0.21	0.47	0.34
Dec 29	0.45	0.28	0.53	0.41	0.41	0.33	0.36	0.5	0.36	0.45	0.44	0.43	0.51	0.61	0.54	0.49	0.57	0.55	S	0.64	0.56	0.65	0.49	0.65	0.28	0.65	0.49
Dec 30	0.47	0.51	0.52	0.55	0.47	0.37	0.46	0.31	0.41	0.57	0.37	0.48	0.42	0.47	0.38	0.37	0.28	S	0.33	0.36	0.29	0.31	0.24	0.25	0.24	0.57	0.40
Dec 31	0.32	0.31	0.2	0.23	0.35	0.47	0.34	0.49	0.34	0.33	0.34	0.32	0.29	0.21	0.23	0.22	S	0.42	0.24	0.27	0.22	0.23	0.22	0.19	0.19	0.49	0.29
Diurnal Maximum	0.57	0.61	0.57	0.55	0.58	0.58	0.57	0.57	0.78	0.87	0.73	0.76	0.55	0.61	0.75	0.51	0.57	0.66	0.53	0.66	0.56	0.65	0.62	0.91			
Diurnal Average	0.32	0.34	0.33	0.33	0.33	0.33	0.34	0.33	0.34	0.36	0.38	0.36	0.34	0.35	0.34	0.33	0.33	0.36	0.32	0.34	0.32	0.32	0.30	0.34			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.





Peace River Area Monitoring Program

986-C Station - December 2024

Summary of 30-Minute Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Guideline (AAAQG) for TRS: 30-minute 5 ppb

Number of 30-Minute Exceedances: 0

Maximum 30-Minute Value:	1.10 ppb	on Dec 2 at 23:00	# of Instrument in Service	1488
Maximum Daily Value:	0.57 ppb	on Dec 17	# of Valid Measurements	1362
Minimum 30-Minute Value:	0.01 ppb	Dec 16 at 19:00	# of Missing Measurements:	50
Minimum Daily Value:	0.13 ppb	on Dec 16	# of Calibration:	76
Monthly Average:	0.34 ppb		Operational Uptime:	96.6

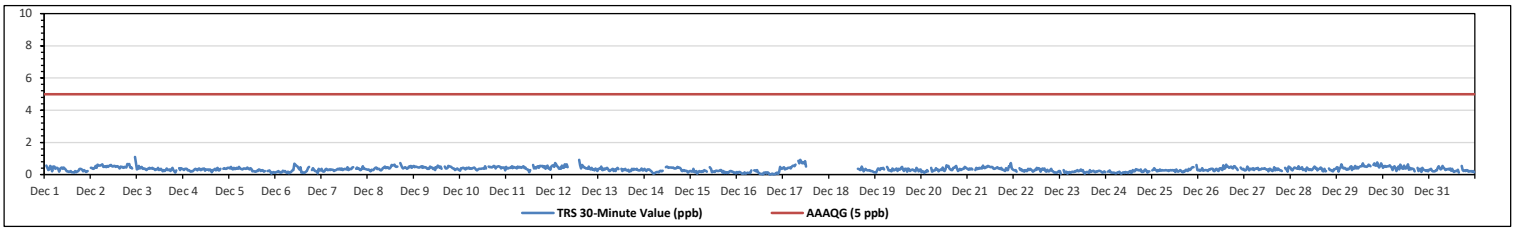
30-Minute Period Starting at (MST)

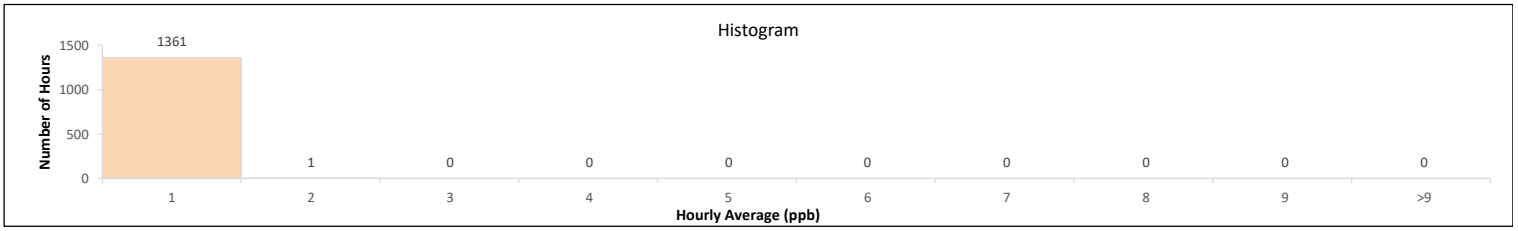
Day	Dec 1	Dec 2	Dec 3	Dec 4	Dec 5	Dec 6	Dec 7	Dec 8	Dec 9	Dec 10	Dec 11	Dec 12	Dec 13	Dec 14	Dec 15	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28	Dec 29	Dec 30	Dec 31	Diurnal Maximum	Diurnal Average
00:00	S	0.43	0.32	0.34	0.43	0.13	0.35	0.31	0.54	0.25	0.48	0.56	0.36	0.36	0.22	0.17	0.41	X	0.15	0.15	0.36	0.3	0.23	S	0.27	0.26	0.26	0.43	0.46	0.43	0.31	0.56	0.33
00:30	S	0.42	0.37	0.28	0.39	0.16	0.23	0.32	0.47	0.4	0.38	0.58	0.37	0.28	0.18	0.11	0.47	X	0.13	0.22	0.31	0.27	0.08	S	0.31	0.31	0.26	0.31	0.44	0.51	0.33	0.58	0.32
01:00	0.56	0.37	0.55	0.35	0.48	0.16	0.18	0.26	0.51	0.38	0.39	0.48	0.35	0.23	0.2	0.16	0.32	X	0.26	0.17	0.38	0.29	S	0.18	0.4	0.25	0.31	0.27	0.19	0.54	0.37	0.56	0.33
01:30	0.38	0.37	0.39	0.35	0.36	0.22	0.2	0.2	0.48	0.42	0.43	0.73	0.51	0.33	0.35	0.17	0.36	X	0.38	0.11	0.33	0.19	S	0.2	0.31	0.3	0.5	0.37	0.36	0.49	0.25	0.73	0.35
02:00	0.28	0.42	0.43	0.37	0.33	0.14	0.32	0.31	0.46	0.42	0.43	0.63	0.3	0.33	0.16	0.12	0.35	X	0.37	0.21	0.39	S	0.29	0.26	0.3	0.4	0.42	0.44	0.42	0.5	0.2	0.63	0.34
02:30	0.33	0.54	0.48	0.26	0.42	0.16	0.37	0.28	0.45	0.35	0.42	0.52	0.3	0.32	0.15	0.06	0.41	X	0.28	0.17	0.33	S	0.11	0.15	0.2	0.25	0.27	0.42	0.64	0.53	0.21	0.64	0.32
03:00	0.54	0.41	0.36	0.3	0.34	0.13	0.28	0.28	0.45	0.33	0.52	0.49	0.39	0.27	0.22	0.06	0.43	X	0.4	0.3	S	0.4	0.19	0.13	0.3	0.27	0.37	0.39	0.44	0.52	0.21	0.54	0.34
03:30	0.49	0.62	0.36	0.25	0.35	0.14	0.29	0.36	0.48	0.43	0.4	0.36	0.32	0.22	0.07	0.07	0.44	X	0.38	0.2	S	0.29	0.16	0.13	0.23	0.3	0.37	0.35	0.38	0.58	0.26	0.62	0.32
04:00	0.21	0.59	0.39	0.19	0.41	0.25	0.33	0.43	0.52	0.39	0.48	0.42	0.39	0.13	0.18	0.14	0.39	X	0.43	S	0.3	0.34	0.08	0.13	0.32	0.28	0.32	0.52	0.43	0.5	0.26	0.59	0.34
04:30	0.51	0.57	0.33	0.23	0.35	0.2	0.28	0.45	0.41	0.45	0.44	0.36	0.41	0.08	0.23	0.07	0.48	X	0.33	S	0.43	0.23	0.12	0.1	0.25	0.27	0.4	0.34	0.39	0.44	0.43	0.57	0.33
05:00	0.51	0.56	0.3	0.2	0.48	0.24	0.32	0.34	0.5	0.35	0.44	0.57	0.36	0.09	0.19	0.09	0.55	X	S	0.42	0.34	0.26	0.16	0.09	0.29	0.24	0.29	0.43	0.31	0.28	0.53	0.57	0.34
05:30	0.36	0.6	0.36	0.27	0.39	0.14	0.31	0.37	0.44	0.38	0.39	0.45	0.25	0.11	0.17	0.12	0.57	X	S	0.18	0.35	0.18	0.11	0.11	0.27	0.32	0.35	0.36	0.35	0.46	0.42	0.60	0.32
06:00	0.43	0.63	0.37	0.32	0.37	0.1	0.31	0.36	0.46	0.35	0.51	0.43	0.23	0.14	0.24	0.11	0.52	X	0.49	0.22	0.42	0.29	0.14	0.14	0.26	0.31	0.38	0.47	0.32	0.52	0.32	0.63	0.34
06:30	0.42	0.49	0.42	0.37	0.34	0.18	0.24	0.3	0.45	0.4	0.45	0.63	0.28	0.17	0.19	0.11	0.62	X	0.42	0.26	0.39	0.23	0.18	0.14	0.26	0.36	0.37	0.3	0.39	0.4	0.36	0.63	0.34
07:00	0.36	0.49	0.38	0.32	0.32	0.09	0.27	0.27	0.37	0.43	0.49	0.49	0.33	0.16	0.3	0.11	S	X	0.27	0.26	0.42	0.24	0.16	0.18	0.29	0.35	0.41	0.32	0.48	0.22	0.55	0.55	0.32
07:30	0.18	0.52	0.38	0.26	0.39	0.15	0.3	0.32	0.36	0.45	0.44	0.65	0.36	0.14	0.25	0.26	S	X	0.29	0.4	0.38	0.35	0.16	0.11	0.27	0.36	0.3	0.32	0.52	0.39	0.44	0.65	0.33
08:00	0.36	0.47	0.41	0.35	0.39	0.15	0.33	0.41	0.35	0.38	0.43	0.46	0.22	0.24	0.22	S	0.85	X	0.25	0.33	0.57	0.28	0.24	0.06	0.27	0.23	0.32	0.24	0.3	0.51	0.38	0.85	0.34
08:30	0.4	0.55	0.36	0.38	0.35	0.24	0.37	0.43	0.51	0.31	0.48	C	0.33	0.25	0.18	S	0.71	X	0.21	0.32	0.43	0.37	0.21	0.11	0.22	0.22	0.33	0.45	0.43	0.32	0.3	0.71	0.35
09:00	0.44	0.49	0.36	0.3	0.35	0.3	0.32	0.5	0.47	0.27	0.52	C	0.23	0.21	S	0.26	0.92	X	0.38	0.21	0.4	0.32	0.28	0.14	0.26	0.34	0.38	0.35	0.37	0.62	0.34	0.92	0.37
09:30	0.37	0.54	0.28	0.28	0.45	0.28	0.39	0.4	0.45	0.32	0.4	C	0.37	0.25	S	0.26	0.82	X	0.27	0.26	0.48	0.27	0.21	0.1	0.3	0.35	0.36	0.28	0.54	0.52	0.32	0.82	0.36
10:00	0.45	0.59	0.33	0.36	0.39	0.68	0.31	0.44	0.34	0.35	0.45	C	0.42	S	0.46	0.2	0.69	X	0.3	0.32	0.47	0.19	0.22	0.16	0.26	0.27	0.36	0.34	0.38	0.38	0.36	0.69	0.37
10:30	0.38	0.6	0.32	0.34	0.33	0.62	0.39	0.47	0.42	0.35	0.36	C	0.34	S	0.36	0.29	0.77	X	0.34	0.29	0.55	0.23	0.28	0.15	0.29	0.22	0.4	0.29	0.49	0.35	0.32	0.77	0.38
11:00	0.33	0.53	0.41	0.38	0.4	0.55	0.29	0.38	0.28	0.37	0.32	C	S	0.47	0.15	0.14	0.69	X	0.38	0.45	0.53	0.31	0.33	0.13	0.26	0.39	0.34	0.3	0.38	0.56	0.39	0.69	0.37
11:30	0.21	0.51	0.3	0.25	0.34	0.5	0.33	0.38	0.47	0.39	0.31	C	S	0.5	0.19	0.1	0.84	X	0.24	0.26	0.48	0.28	0.23	0.11	0.29	0.4	0.32	0.35	0.47	0.39	0.25	0.84	0.35
12:00	0.21	0.55	0.33	0.32	0.2	0.4	0.37	0.47	0.43	0.39	0.15	C	0.37	0.49	0.21	0.04	0.51	X	0.36	0.22	0.46	0.41	0.28	0.19	0.16	0.32	0.32	0.43	0.5	0.38	0.37	0.55	0.34
12:30	0.16	0.54	0.37	0.31	0.24	0.32	0.34	0.61	0.56	0.36	0.29	C	0.23	0.43	0.17	0.04	X	X	0.31	0.34	0.49	0.33	0.12	0.23	0.33	0.29	0.21	0.5	0.53	0.47	0.22	0.61	0.33
13:00	0.18	0.48	0.28	0.32	0.21	0.47	0.33	0.58	0.52	0.52	S	C	0.33	0.44	0.25	0.04	X	X	0.33	0.59	0.47	0.4	0.07	0.11	0.23	0.58	0.37	0.39	0.53	0.64	0.17	0.64	0.36
13:30	0.24	0.52	0.2	0.26	0.18	0.13	0.46	0.58	0.41	0.39	S	C	0.3	0.45	0.25	0.02	X	S	0.43	0.5	0.35	0.35	0.15	0.15	0.19	0.35	0.36	0.41	0.69	0.31	0.24	0.69	0.33
14:00	0.14	0.53	0.28	0.32	0.18	0.17	0.29	0.62	0.5	S	0.6	0.93	0.37	0.45	0.22	0.13	X	S	0.48	0.54	0.35	0.19	0.16	0.3	0.24	0.4	0.27	0.26	0.53	0.43	0.24	0.93	0.36
14:30	0.15	0.47	0.23	0.28	0.25	0.12	0.35	0.5	0.35	S	0.39	0.58	0.26	0.43	0.23	0.09	X	S	0.32	0.39	0.39	0.32	0.16	0.24	0.28	0.62	0.23	0.34	0.55	0.32	0.22	0.62	0.32
15:00	0.14	0.39	0.28	0.15	0.24	0.1	0.34	0.49	S	0.5	0.47	0.38	0.27	0.45	0.25	0.15	X	0.36	0.24	0.33	0.43	0.38	0.1	0.21	0.25	0.51	0.32	0.36	0.5	0.39	0.31	0.51	0.32
15:30	0.13	0.51	0.38	0.3	0.33	0.14	0.34	0.5	S	0.46	0.39	0.6	0.31	0.38	0.3	0.07	X	0.34	0.35	0.3	0.47	0.31	0.28	0.34	0.17	0.51	0.47	0.45	0.48	0.35	0.12	0.60	0.35
16:00	0.22	0.47	0.3	0.29	0.31	0.19	0.44	S	0.5	0.48	0.49	0.54	0.18	0.39	0.28	0.15	X	0.28	0.35	0.3	0.38	0.39	0.17	0.29	0.15	0.43	0.27	0.4	0.52	0.34	S	0.54	0.34
16:30	0.14	0.49	0.3	0.35	0.23	0.24	0.47	S	0.39	0.45	0.52	0.45	0.24	0.4	0.13	0.1	X	0.31	0.19	0.41	0.4	0.23	0.2	0.31	0.23	0.47	0.39	0.24	0.62	0.21	S	0.62	0.33
17:00	0.18	0.43	0.33	0.26	0.28	0.41	S	0.73	0.39	0.48	0.42	0.45	0.24	0.49	0.22	0.02	X	0.51	0.39	0.42	0.34	0.18	0.23	0.27	0.21	0.5	0.29	0.2	0.59	S	0.54	0.73	0.36
17:30	0.23	0.48	0.23	0.35	0.26	0.48	S	0.59	0.41	0.55	0.55	0.39	0.37	0.41	0.11	0.02	X	0.37	0.34	0.48	0.41	0.31	0.25	0.27	0.31	0.43	0.39	0.36	0.52	S	0.3	0.59	0.36
18:00	0.34	0.46	0.33	0.42	0.19	S	0.37	0.45	0.55	0.52	0.54	0.39	0.29	0.44	0.17	0.05	X	0.21	0.22	0.54	0.31	0.2	0.18	0.32	0.29	0.39	0.32	0.2	S	0.43	0.23	0.55	0.33
18:30	0.37	0.45	0.43	0.27	0.23	S	0.45	0.38	0.52	0.39	0.52	0.36	0.36	0.4	0.11	0.08	X	0.28	0.28	0.37	0.31	0.21	0.15	0.16	0.24	0.52	0.26	0.22	S	0.24	0.26	0.52	0.32
19:00	0.34	0.66	0.29	0.27	S	0.29	0.36	0.42	0.5	0.48	0.54	0.5	0.32	0.34	0.14	0.01	X	0.35	0.31	0.24	0.27	0.29	0.2	0.16	0.36	0.52	0.27	S	0.6	0.34	0.24	0.66	0.34
19:30	0.31	0.65	0.2	0.35	S	0.4	0.39	0.47	0.49	0.51	0.44	0.35	0.33	0.23	0.11	0.05	X	0.28	0.33	0.29	0.24	0.36	0.19	0.19	0.28	0.43	0.22	S	0.69	0.37	0.3	0.69	0.34
20:00	0.2	0.67	0.12	S	0.24	0.33	0.28	0.43	0.43	0.52	0.52	0.32	0.37	0.24	0.18	0.03	X	0.26	0.27	0.36	0.4	0.23	0.22	0.28	0.32	0.38	S	0.39	0.56	0.16	0.26	0.67	0.32
20:30	0.28	0.45	0.26	S	0.22	0.23	0.3	0.35	0.38	0.51	0.36	0.42	0.28	0.3	0.24	0.1	X	0.26	0.25	0.29	0.29	0.21	0.25	0.32	0.42	0.29	S	0.28	0.57	0.42	0.18	0.57	0.31
21:00	0.22	0.47	S	0.37	0.26	0.23	0.38	0.4	0.38	0.49	0.51	0.31	0.26	0.22	0.23	0.12	X	0.28	0.21	0.32	0.3	0.12	0.24	0.27	0.47	S	0.43	0.3	0.76	0.33	0.24	0.76	0.33
21:30	0.17	0.38	S	0.4	0.18	0.19	0.52	0.5	0.3	0.39	0.57	0.34	0.26	0.25	0.19	0.04	X	0.23	0.43	0.36	0.53	0.15	0.19	0.13	0.46	S	0.32	0.23	0.55	0.29	0.21	0.57	0.31
22:00	0.18	S	0.4	0.35	0.08	0.09	0.36	0.47	0.33	0.44	0.39	0.27	0.32	0.23	0.19	0.16	X	0.23	0.32	0.36	0.52	0.13	0.12	0.2	S	0.44	0.35	0.21	0.44	0.27	0.24	0.52	0.29
22:30	0.23	S	0.29	0.37	0.12	0.37	0.35	0.54	0.39	0.45	0.43	0.38	0.38	0.12	0.1	0.49	X	0.21	0.21	0.49	0.72	0.13	0.14	0.21	S	0.35	0.19	0.34	0.54	0.22	0.19	0.72	0.32
23:00	S	1.1	0.4	0.43	0.17	0.28	0.34	0.42	0.32	0.45	0.31	0.31	0.27	0.18	0.12	0.35	X	0.17	0.31	0.44	0.39	0.17	0.2	S	0.6	0.32	0.5	0.34	0.71	0.3	0.24	1.10	0.36
23:30	S	0.73	0.35	0.43	0.12	0.27	0.33	0.5	0.28	0.27	0.5	0.24	0.26	0.23	0.09	0.35	X	0.15	0.32	0.39	0.32	0.24	0.15	S	0.29	0.35	0.47	0.35	0.58	0.21	0.15	0.73	0.32
Minimum	0.13	0.37	0.12	0.15	0.08	0.09	0.18	0.2	0.28	0.25	0.15	0.24	0.18	0.08	0.07	0.01	0.32	0.15	0.13	0.11	0.24	0.12	0.07	0.06	0.15	0.22	0.19	0.2	0.19	0.16	0.12		
Maximum	0.56	1.1	0.55	0.43	0.48	0.68	0.52	0.73	0.56	0.55	0.6	0.93	0.51	0.5	0.46	0.49	0.92	0.51	0.49	0.59	0.72	0.41	0.33	0.34	0.6	0.62	0.5	0.52	0.76	0.64	0.55		
Average	0.3	0.53	0.34	0.31	0.3	0.26	0.34	0.43	0.43	0.41	0.44	0.47	0.32	0.3	0.2	0.13	0.57	0.28	0.32	0.33	0.4	0.27	0.19	0.19	0.29	0.36	0.34	0.34	0.49	0.4	0.3		

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



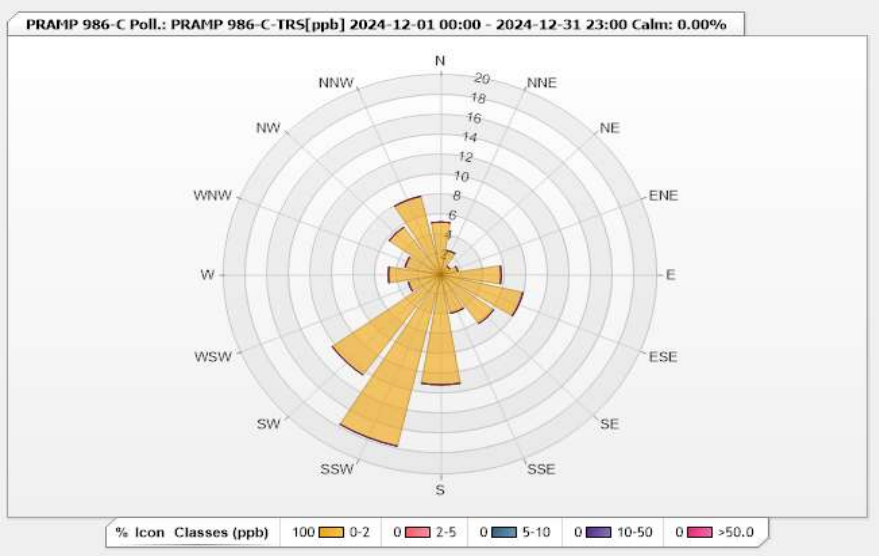


Station: PRAMP 986-C Poll.: PRAMP 986-C-TRS[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 91.53% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	5.29	0	0	0	0	5.29
NNE	2.5	0	0	0	0	2.5
NE	1.03	0	0	0	0	1.03
ENE	1.62	0	0	0	0	1.62
E	5.58	0	0	0	0	5.58
ESE	7.78	0	0	0	0	7.78
SE	6.02	0	0	0	0	6.02
SSE	3.96	0	0	0	0	3.96
S	11.01	0	0	0	0	11.01
SSW	17.62	0	0	0	0	17.62
SW	12.33	0	0	0	0	12.33
WSW	3.08	0	0	0	0	3.08
W	4.85	0	0	0	0	4.85
WNW	3.38	0	0	0	0	3.38
NW	5.87	0	0	0	0	5.87
NNW	8.08	0	0	0	0	8.08
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

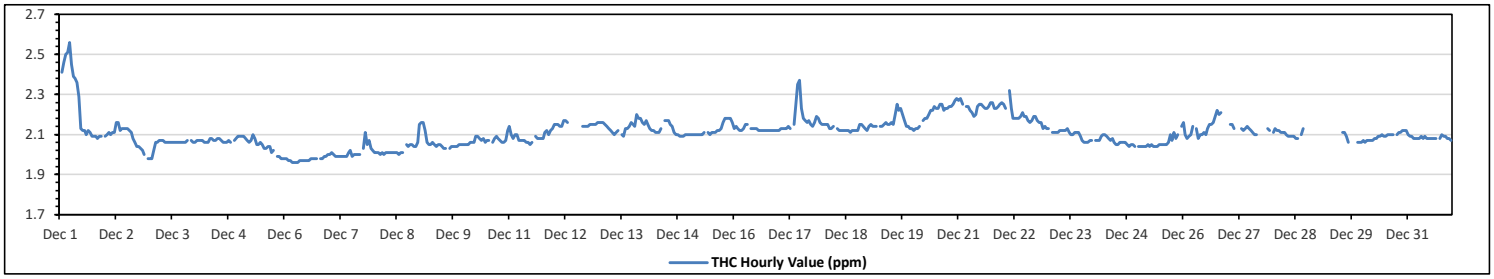
TOTAL HYDROCARBONS (THC) in ppm

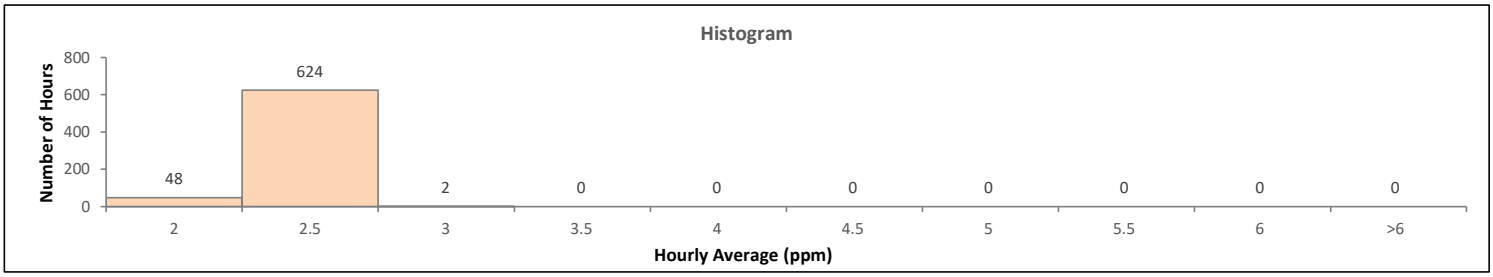
Maximum Hourly Value:	2.56	ppm	on Dec 1 at hr 5	Hours in Service:	744	
Maximum Daily Value:	2.25	ppm	on Dec 1	Hours of Data:	674	
Minimum Hourly Value:	1.96	ppm	on Dec 6 at hr 4	Hours of Missing Data:	32	
Minimum Daily Value:	1.97	ppm	on Dec 6	Hours of Calibration:	38	
Monthly Average:	2.11	ppm		Operational Uptime:	95.7	

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			
Dec 1	S	2.41	2.46	2.50	2.51	**2.56**	2.45	2.39	2.38	2.36	2.29	2.13	2.12	2.12	2.10	2.12	2.11	2.09	2.09	2.09	2.08	2.09	2.09	S	2.08	**2.56**	**2.25**
Dec 2	2.09	2.10	2.11	2.10	2.11	2.11	2.16	2.16	2.12	2.13	2.13	2.13	2.13	2.12	2.11	2.08	2.06	2.04	2.04	2.03	2.02	2.00	S	1.98	1.98	2.16	2.09
Dec 3	1.98	1.98	2.02	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	S	2.07	2.06	1.98	2.07	2.05
Dec 4	2.06	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.08	2.08	2.07	2.07	2.08	2.08	2.07	2.06	2.06	2.06	2.07	2.06	S	2.07	2.08	2.09	2.06	2.09	2.07
Dec 5	2.09	2.09	2.09	2.08	2.07	2.06	2.07	2.10	2.08	2.05	2.05	2.06	2.05	2.03	2.03	2.04	2.04	2.01	2.02	S	1.99	1.99	1.98	1.98	1.98	2.10	2.05
Dec 6	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	S	1.98	1.98	1.99	1.99	2.00	1.96	2.00	1.97
Dec 7	2.00	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.01	2.02	1.99	2.00	2.00	2.00	2.00	S	2.03	2.11	2.05	2.07	2.03	2.02	1.99	2.11	2.01
Dec 8	2.01	2.01	2.01	2.00	2.01	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.01	2.01	S	2.05	2.04	2.05	2.05	2.04	2.04	2.06	2.00	2.06	2.02
Dec 9	2.15	2.16	2.16	2.12	2.06	2.05	2.05	2.06	2.05	2.04	2.05	2.05	2.04	2.03	2.03	S	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.03	2.16	2.06
Dec 10	2.05	2.05	2.05	2.06	2.06	2.06	2.09	2.09	2.08	2.07	2.08	2.06	2.07	2.07	S	2.06	2.08	2.09	2.08	2.07	2.06	2.06	2.07	2.06	2.05	2.12	2.07
Dec 11	2.14	2.10	2.08	2.10	2.10	2.07	2.07	2.07	2.07	2.06	2.06	2.05	2.06	S	2.09	2.08	2.08	2.08	2.08	2.11	2.12	2.10	2.12	2.13	2.05	2.14	2.09
Dec 12	2.15	2.15	2.15	2.14	2.14	2.17	2.17	2.16	C	C	C	C	C	C	C	2.14	2.14	2.14	2.14	2.15	2.15	2.15	2.15	2.16	2.14	2.17	NA
Dec 13	2.16	2.16	2.16	2.15	2.14	2.13	2.12	2.11	2.10	2.11	2.12	S	2.10	2.09	2.13	2.13	2.14	2.16	2.15	2.14	2.20	2.18	2.18	2.16	2.09	2.20	2.14
Dec 14	2.15	2.17	2.15	2.13	2.12	2.12	2.11	2.11	2.11	2.13	S	2.17	2.17	2.17	2.15	2.14	2.11	2.10	2.10	2.09	2.09	2.09	2.10	2.10	2.09	2.17	2.13
Dec 15	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.11	S	2.11	2.10	2.11	2.11	2.11	2.12	2.12	2.13	2.16	2.18	2.18	2.18	2.18	2.16	2.10	2.18	2.12
Dec 16	2.13	2.14	2.13	2.12	2.12	2.13	2.15	2.15	S	2.13	2.13	2.13	2.13	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.15	2.13
Dec 17	2.12	2.13	2.13	2.13	2.13	2.14	2.13	S	2.15	2.24	2.35	2.37	2.23	2.18	2.17	2.16	2.17	2.15	2.14	2.16	2.19	2.18	2.16	2.15	2.12	2.37	2.18
Dec 18	2.15	2.15	2.15	2.13	2.13	2.14	S	2.13	2.12	2.12	2.12	2.12	2.12	2.12	2.11	2.12	2.12	2.12	2.12	2.15	2.15	2.14	2.13	2.12	2.11	2.15	2.13
Dec 19	2.14	2.15	2.14	2.14	2.14	S	2.14	2.14	2.15	2.16	2.15	2.15	2.16	2.15	2.20	2.25	2.22	2.23	2.20	2.17	2.14	2.14	2.13	2.13	2.13	2.25	2.16
Dec 20	2.12	2.13	2.13	2.14	S	2.17	2.18	2.18	2.20	2.22	2.22	2.24	2.23	2.23	2.25	2.25	2.22	2.23	2.23	2.24	2.24	2.25	2.27	2.28	2.12	2.28	2.21
Dec 21	2.27	2.28	2.25	S	2.24	2.24	2.22	2.21	2.19	2.20	2.24	2.25	2.25	2.24	2.23	2.23	2.24	2.26	2.26	2.23	2.23	2.24	2.25	2.26	2.19	2.28	2.24
Dec 22	2.25	2.23	S	2.32	2.23	2.18	2.18	2.18	2.18	2.19	2.21	2.19	2.19	2.17	2.16	2.17	2.19	2.19	2.17	2.16	2.16	2.13	2.14	2.13	2.13	2.32	2.19
Dec 23	2.13	S	2.11	2.11	2.11	2.11	2.12	2.12	2.12	2.12	2.13	2.11	2.10	2.10	2.11	2.11	2.11	2.09	2.07	2.06	2.06	2.06	2.07	2.07	2.06	2.13	2.10
Dec 24	S	2.07	2.07	2.07	2.09	2.10	2.10	2.09	2.08	2.07	2.08	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.05	2.04	S	2.04	2.10	2.07
Dec 25	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.05	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.06	2.10	2.07	2.11	2.08	2.10	S	2.14	2.04	2.14	2.06
Dec 26	2.16	2.10	2.08	2.09	2.10	2.14	X	2.13	2.08	2.10	2.10	2.11	2.10	2.13	2.15	2.15	2.16	2.19	2.22	2.20	2.21	S	X	2.12	2.08	2.22	2.13
Dec 27	X	2.15	2.15	2.13	X	2.14	X	2.13	2.12	2.13	2.14	2.13	2.12	2.11	2.10	2.10	X	2.11	X	2.12	S	2.13	2.12	X	2.10	2.15	NA
Dec 28	2.11	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.09	2.09	2.09	2.09	2.08	2.08	X	2.10	2.13	NRM	NRM	NRM	NRM	NRM	NRM	NRM	2.08	2.13	NA
Dec 29	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	2.11	2.11	2.09	2.06	X	S	X	X	2.06	2.06	2.06	2.06	2.11	NA
Dec 30	2.07	2.06	2.07	2.07	2.07	2.07	2.08	2.08	2.09	2.09	2.10	2.09	2.09	2.10	2.10	2.10	2.10	S	2.10	2.11	2.11	2.12	2.12	2.12	2.06	2.12	2.09
Dec 31	2.10	2.09	2.09	2.08	2.08	2.08	2.08	2.09	2.08	2.09	2.08	2.08	2.08	2.08	2.08	2.08	S	2.08	2.10	2.09	2.09	2.08	2.08	2.07	2.07	2.10	2.08
Diurnal Maximum	2.27	2.41	2.46	2.50	2.51	2.56	2.45	2.39	2.38	2.36	2.35	2.37	2.25	2.24	2.25	2.25	2.24	2.26	2.26	2.24	2.24	2.25	2.27	2.28			
Diurnal Average	2.11	2.12	2.11	2.11	2.11	2.11	2.11	2.11	2.10	2.11	2.11	2.11	2.10	2.10	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.10	2.10	2.11			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.



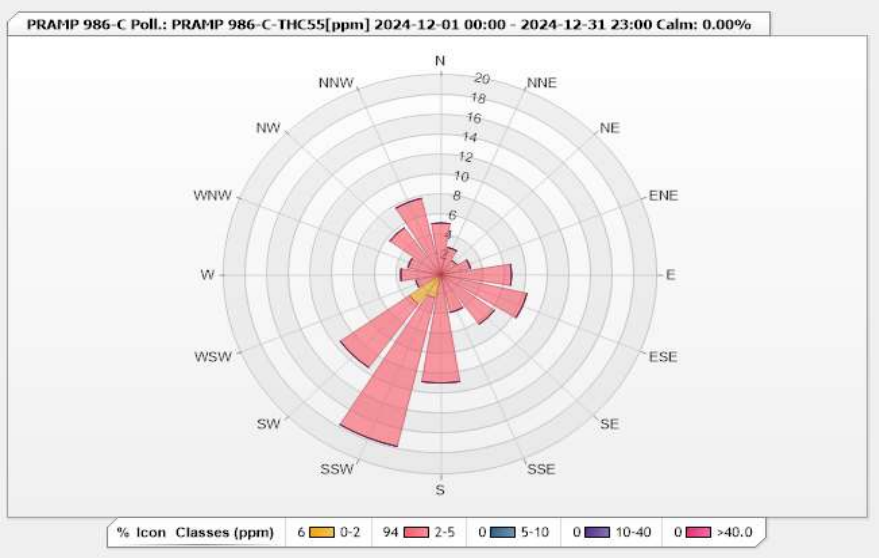


Station: PRAMP 986-C Poll.: PRAMP 986-C-THC55[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 90.59% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	5.19	0	0	0	5.19
NNE	0	2.82	0	0	0	2.82
NE	0	1.78	0	0	0	1.78
ENE	0	2.82	0	0	0	2.82
E	0	6.53	0	0	0	6.53
ESE	0	8.16	0	0	0	8.16
SE	0	6.08	0	0	0	6.08
SSE	0	3.86	0	0	0	3.86
S	0.3	10.53	0	0	0	10.83
SSW	2.37	15.28	0	0	0	17.65
SW	3.56	7.86	0	0	0	11.42
WSW	0	2.37	0	0	0	2.37
W	0	3.71	0	0	0	3.71
WNW	0	3.12	0	0	0	3.12
NW	0	5.79	0	0	0	5.79
NNW	0	7.86	0	0	0	7.86
Summary	6.23	93.76	0	0	0	100



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

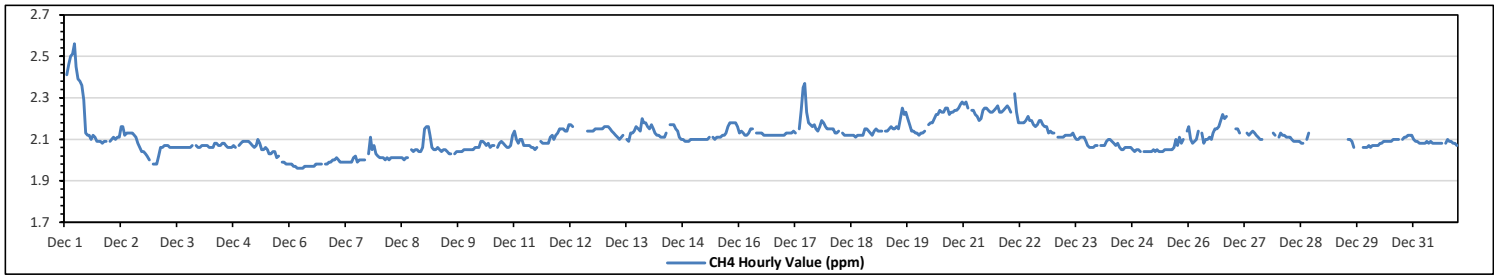
METHANE (CH4) in ppm

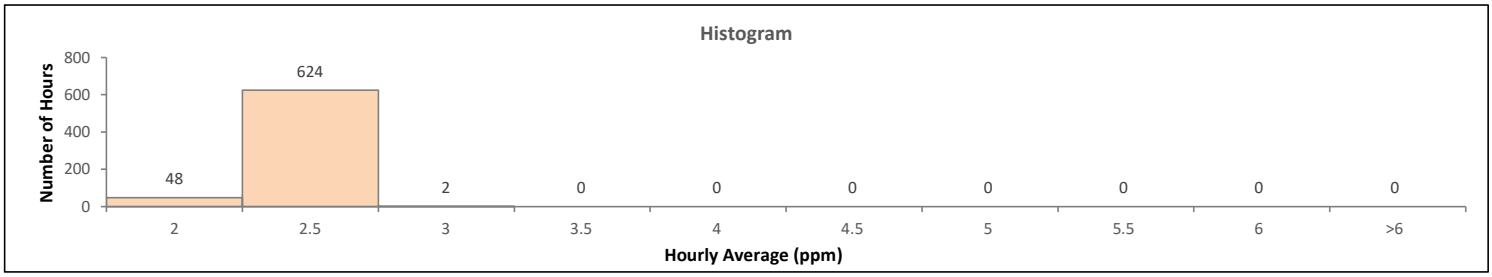
Maximum Hourly Value:	2.56	ppm	on Dec 1 at hr 5	Hours in Service:	744	
Maximum Daily Value:	2.25	ppm	on Dec 1	Hours of Data:	674	
Minimum Hourly Value:	1.96	ppm	on Dec 6 at hr 4	Hours of Missing Data:	32	
Minimum Daily Value:	1.97	ppm	on Dec 6	Hours of Calibration:	38	
Monthly Average:	2.11	ppm		Operational Uptime:	95.7	

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			
Dec 1	S	2.41	2.46	2.50	2.51	**2.56**	2.45	2.39	2.38	2.36	2.29	2.13	2.12	2.12	2.10	2.12	2.11	2.09	2.09	2.09	2.08	2.09	2.09	S	2.08	**2.56**	**2.25**
Dec 2	2.09	2.10	2.11	2.10	2.11	2.11	2.16	2.16	2.12	2.13	2.13	2.13	2.13	2.12	2.11	2.08	2.06	2.04	2.04	2.03	2.02	2.00	S	1.98	1.98	2.16	2.09
Dec 3	1.98	1.98	2.02	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	S	2.07	2.06	1.98	2.07	2.05
Dec 4	2.06	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.08	2.08	2.07	2.07	2.08	2.08	2.07	2.06	2.06	2.06	2.07	2.06	S	2.07	2.08	2.09	2.06	2.09	2.07
Dec 5	2.09	2.09	2.09	2.08	2.07	2.06	2.07	2.10	2.08	2.05	2.05	2.06	2.05	2.03	2.03	2.04	2.04	2.01	2.02	S	1.99	1.99	1.98	1.98	1.98	2.10	2.05
Dec 6	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	S	1.98	1.98	1.99	1.99	2.00	1.96	2.00	1.97
Dec 7	2.00	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.01	2.02	1.99	2.00	2.00	2.00	2.00	S	2.03	2.11	2.05	2.07	2.03	2.02	1.99	2.11	2.01
Dec 8	2.01	2.01	2.01	2.00	2.01	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.01	2.01	S	2.05	2.04	2.05	2.05	2.04	2.04	2.06	2.00	2.06	2.02
Dec 9	2.15	2.16	2.16	2.12	2.06	2.05	2.05	2.06	2.05	2.04	2.05	2.05	2.04	2.03	2.03	S	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.03	2.16	2.06
Dec 10	2.05	2.05	2.05	2.06	2.06	2.06	2.09	2.09	2.08	2.07	2.08	2.06	2.07	2.07	S	2.06	2.08	2.09	2.08	2.07	2.06	2.06	2.07	2.12	2.05	2.12	2.07
Dec 11	2.14	2.10	2.08	2.10	2.10	2.07	2.07	2.07	2.07	2.06	2.06	2.05	2.06	S	2.09	2.08	2.08	2.08	2.08	2.11	2.12	2.10	2.12	2.13	2.05	2.14	2.09
Dec 12	2.15	2.15	2.15	2.14	2.14	2.17	2.17	2.16	C	C	C	C	C	C	C	2.14	2.14	2.14	2.14	2.15	2.15	2.15	2.15	2.15	2.14	2.17	NA
Dec 13	2.16	2.16	2.16	2.15	2.14	2.13	2.12	2.11	2.10	2.11	2.12	S	2.10	2.09	2.13	2.13	2.14	2.16	2.15	2.14	2.20	2.18	2.18	2.16	2.09	2.20	2.14
Dec 14	2.15	2.17	2.15	2.13	2.12	2.12	2.11	2.11	2.11	2.13	S	2.17	2.17	2.17	2.15	2.14	2.11	2.10	2.10	2.09	2.09	2.09	2.10	2.10	2.09	2.17	2.13
Dec 15	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.11	S	2.11	2.10	2.11	2.11	2.11	2.12	2.12	2.13	2.16	2.18	2.18	2.18	2.18	2.16	2.10	2.18	2.12
Dec 16	2.13	2.14	2.13	2.12	2.12	2.13	2.15	2.15	S	2.13	2.13	2.13	2.13	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.15	2.13
Dec 17	2.12	2.13	2.13	2.13	2.13	2.14	2.13	S	2.15	2.24	2.35	2.37	2.23	2.18	2.17	2.16	2.17	2.15	2.14	2.16	2.19	2.18	2.16	2.15	2.12	2.37	2.18
Dec 18	2.15	2.15	2.15	2.13	2.13	2.14	S	2.13	2.12	2.12	2.12	2.12	2.12	2.12	2.11	2.12	2.12	2.12	2.12	2.15	2.15	2.14	2.13	2.12	2.11	2.15	2.13
Dec 19	2.14	2.15	2.14	2.14	2.14	S	2.14	2.14	2.15	2.16	2.15	2.15	2.16	2.15	2.20	2.25	2.22	2.23	2.20	2.17	2.14	2.14	2.13	2.13	2.13	2.25	2.16
Dec 20	2.12	2.13	2.13	2.14	S	2.17	2.18	2.18	2.20	2.22	2.22	2.24	2.23	2.23	2.25	2.25	2.22	2.23	2.23	2.24	2.24	2.25	2.27	2.28	2.12	2.28	2.21
Dec 21	2.27	2.28	2.25	S	2.24	2.24	2.22	2.21	2.19	2.20	2.24	2.25	2.25	2.24	2.23	2.23	2.24	2.25	2.26	2.23	2.23	2.24	2.25	2.26	2.19	2.28	2.24
Dec 22	2.25	2.23	S	2.32	2.23	2.18	2.18	2.18	2.18	2.19	2.21	2.19	2.19	2.17	2.16	2.17	2.19	2.19	2.17	2.16	2.16	2.13	2.14	2.13	2.13	2.32	2.19
Dec 23	2.13	S	2.11	2.11	2.11	2.11	2.12	2.12	2.12	2.12	2.13	2.11	2.10	2.10	2.11	2.11	2.11	2.09	2.07	2.06	2.06	2.06	2.07	2.07	2.06	2.13	2.10
Dec 24	S	2.07	2.07	2.07	2.09	2.10	2.10	2.09	2.08	2.07	2.08	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.05	2.04	S	2.04	2.10	2.07
Dec 25	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.05	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.06	2.10	2.07	2.11	2.08	2.10	S	2.14	2.04	2.14	2.06
Dec 26	2.16	2.10	2.08	2.09	2.10	2.14	X	2.13	2.08	2.10	2.10	2.11	2.10	2.13	2.15	2.15	2.16	2.19	2.22	2.20	2.21	S	X	2.12	2.08	2.22	2.13
Dec 27	X	2.15	2.15	2.13	X	2.14	X	2.13	2.12	2.13	2.14	2.13	2.12	2.11	2.10	2.10	X	2.11	X	2.12	S	2.13	2.12	X	2.10	2.15	NA
Dec 28	2.11	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.09	2.09	2.09	2.09	2.08	2.08	X	2.10	2.13	NRM	NRM	NRM	NRM	NRM	NRM	NRM	2.08	2.13	NA
Dec 29	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	2.10	2.10	2.09	2.06	X	S	X	X	2.06	2.06	2.06	2.06	2.10	NA
Dec 30	2.07	2.06	2.07	2.07	2.07	2.07	2.08	2.08	2.09	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.10	S	2.10	2.11	2.11	2.12	2.12	2.12	2.06	2.12	2.09
Dec 31	2.10	2.09	2.09	2.08	2.08	2.08	2.08	2.09	2.08	2.09	2.08	2.08	2.08	2.08	2.08	2.08	S	2.08	2.10	2.09	2.09	2.08	2.08	2.07	2.07	2.10	2.08
Diurnal Maximum	2.27	2.41	2.46	2.50	2.51	2.56	2.45	2.39	2.38	2.36	2.35	2.37	2.25	2.24	2.25	2.25	2.24	2.25	2.26	2.24	2.24	2.25	2.27	2.28			
Diurnal Average	2.11	2.12	2.11	2.11	2.11	2.11	2.11	2.11	2.10	2.11	2.11	2.11	2.10	2.10	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.10	2.10	2.10			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.



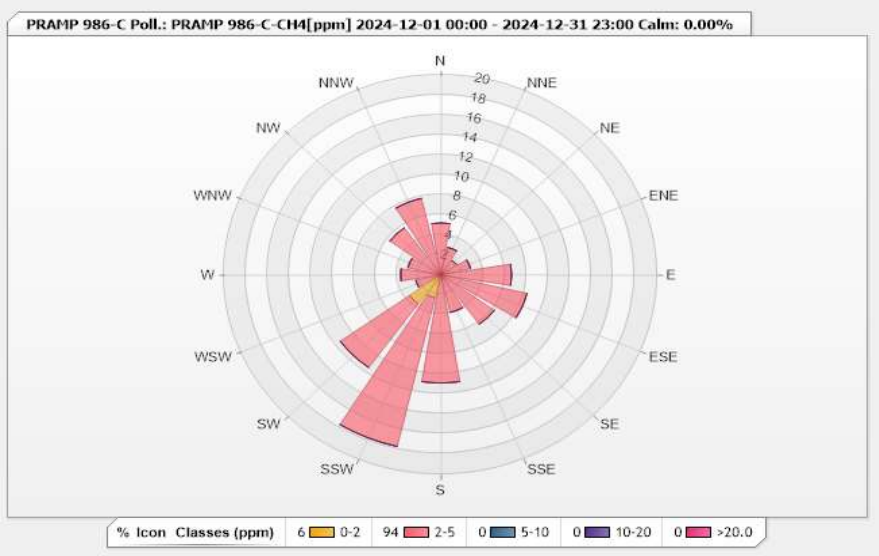


Station: PRAMP 986-C Poll.: PRAMP 986-C-CH4[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 90.59% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	5.19	0	0	0	5.19
NNE	0	2.82	0	0	0	2.82
NE	0	1.78	0	0	0	1.78
ENE	0	2.82	0	0	0	2.82
E	0	6.53	0	0	0	6.53
ESE	0	8.16	0	0	0	8.16
SE	0	6.08	0	0	0	6.08
SSE	0	3.86	0	0	0	3.86
S	0.3	10.53	0	0	0	10.83
SSW	2.37	15.28	0	0	0	17.65
SW	3.56	7.86	0	0	0	11.42
WSW	0	2.37	0	0	0	2.37
W	0	3.71	0	0	0	3.71
WNW	0	3.12	0	0	0	3.12
NW	0	5.79	0	0	0	5.79
NNW	0	7.86	0	0	0	7.86
Summary	6.23	93.76	0	0	0	100



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

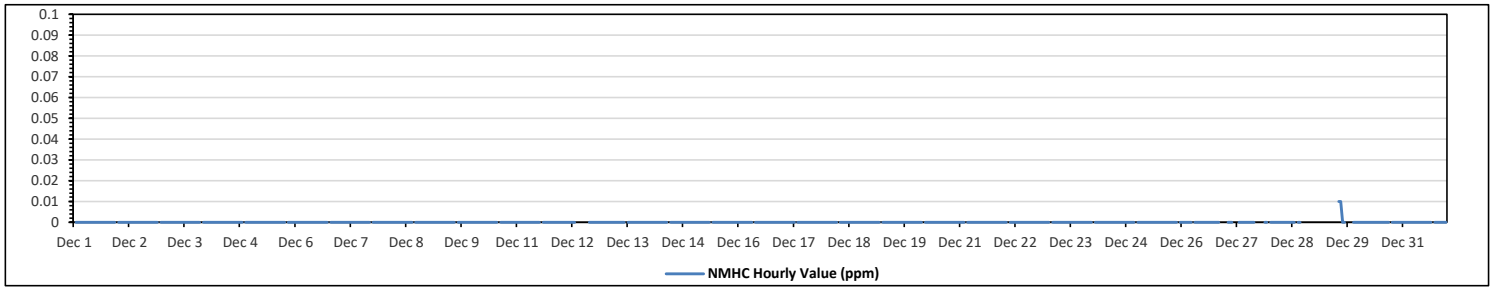
NON-METHANE HYDROCARBONS (NMHC) in ppm

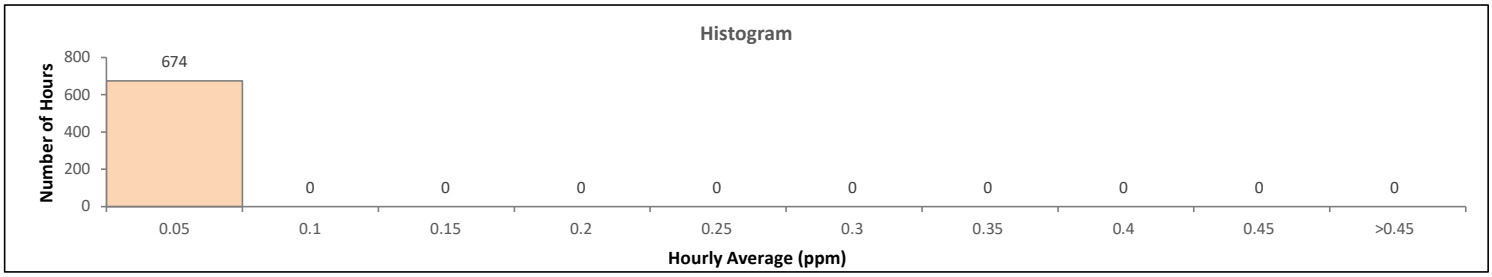
Maximum Hourly Value:	0.01	ppm	on Dec 29 at hr 13	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on Dec 1	Hours of Data:	674
Minimum Hourly Value:	0.00	ppm	on Dec 1 at hr 1	Hours of Missing Data:	32
Minimum Daily Value:	0.00	ppm	on Dec 1	Hours of Calibration:	38
Monthly Average:	0.00	ppm		Operational Uptime:	95.7

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			
Dec 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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
Dec 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
Dec 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
Dec 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	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	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
Dec 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	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
Dec 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	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	0.00	NA
Dec 13	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
Dec 14	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
Dec 15	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
Dec 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
Dec 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 18	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
Dec 19	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
Dec 20	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
Dec 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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
Dec 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 24	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
Dec 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Dec 26	0.00	0.00	0.00	0.00	0.00	0.00	X	0.00	0.00	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	X	0.00	0.00	0.00	0.00
Dec 27	X	0.00	0.00	0.00	X	0.00	X	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	0.00	X	0.00	S	0.00	0.00	X	0.00	0.00	NA
Dec 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	X	0.00	0.00	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.00	0.00	NA
Dec 29	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.01	0.01	0.00	0.00	X	S	X	X	0.00	0.00	0.00	0.00	0.01	NA
Dec 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
Dec 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	0.01	0.01	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			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



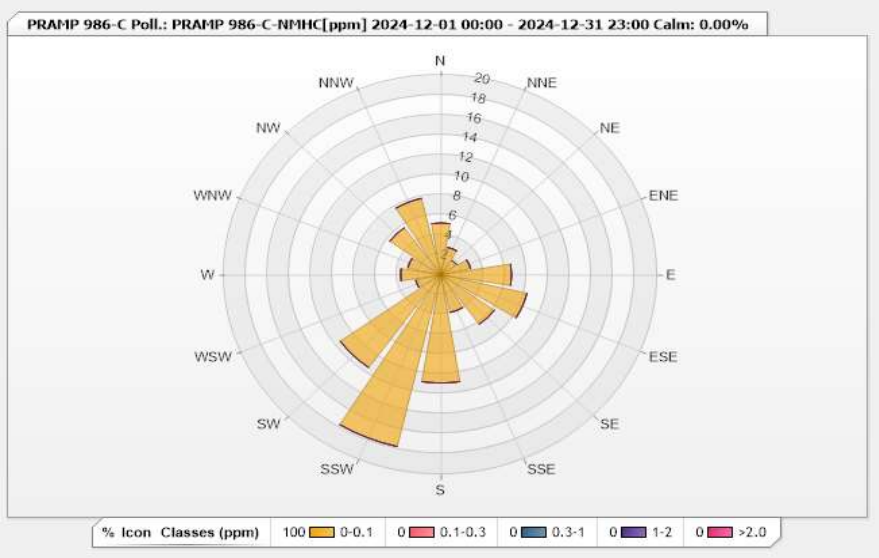


Station: PRAMP 986-C Poll.: PRAMP 986-C-NMHC[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 90.59% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	5.19	0	0	0	0	5.19
NNE	2.82	0	0	0	0	2.82
NE	1.78	0	0	0	0	1.78
ENE	2.82	0	0	0	0	2.82
E	6.53	0	0	0	0	6.53
ESE	8.16	0	0	0	0	8.16
SE	6.08	0	0	0	0	6.08
SSE	3.86	0	0	0	0	3.86
S	10.83	0	0	0	0	10.83
SSW	17.66	0	0	0	0	17.66
SW	11.42	0	0	0	0	11.42
WSW	2.37	0	0	0	0	2.37
W	3.71	0	0	0	0	3.71
WNW	3.12	0	0	0	0	3.12
NW	5.79	0	0	0	0	5.79
NNW	7.86	0	0	0	0	7.86
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

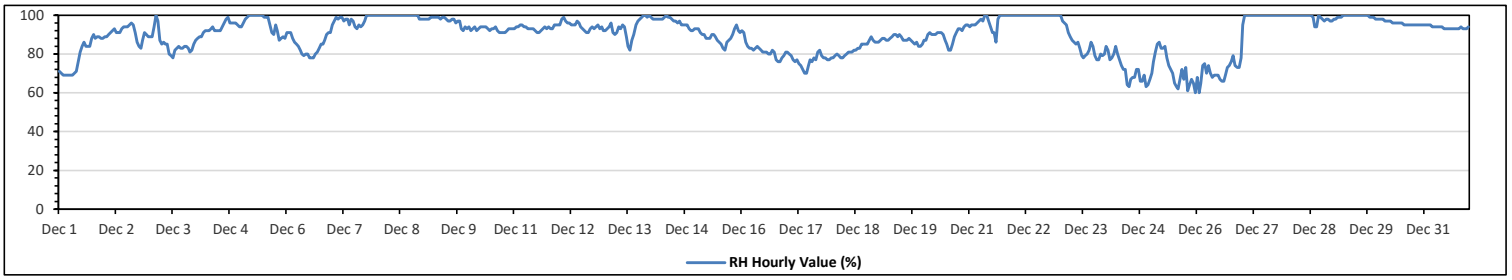
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Dec 3 at hr 3	Hours in Service:	744	
Maximum Daily Value:	100.0	%	on Dec 22	Hours of Data:	744	
Minimum Hourly Value:	60	%	on Dec 25 at hr 23	Hours of Missing Data:	0	
Minimum Daily Value:	70.8	%	on Dec 26	Hours of Calibration:	0	
Monthly Average:	89.8	%		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
Dec 1	71	70	69	69	69	69	69	69	70	71	76	81	84	86	84	84	84	88	90	88	89	89	88	88	69	90	79.0
Dec 2	89	89	90	91	92	93	91	91	91	93	94	94	94	95	96	95	91	86	84	83	87	91	90	89	83	96	90.8
Dec 3	89	89	94	**100**	97	87	85	86	85	85	80	79	78	82	83	84	83	83	84	84	83	81	82	85	78	**100**	85.3
Dec 4	87	88	89	89	91	92	92	92	93	94	92	92	92	92	94	96	98	99	96	96	96	96	95	94	87	99	93.1
Dec 5	94	96	98	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	99	99	95	91	90	95	92	87	88	89	88	87	**100**	95.8
Dec 6	91	91	91	88	86	85	84	82	80	79	80	80	78	78	78	80	81	83	85	85	87	90	91	91	78	91	84.3
Dec 7	95	97	99	98	99	99	97	98	98	95	98	97	94	93	95	94	95	97	**100**	**100**	**100**	**100**	**100**	**100**	93	**100**	97.4
Dec 8	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	98	98	**100**	99.8
Dec 9	98	98	98	98	99	99	99	99	99	98	99	99	98	97	97	98	98	96	97	97	93	92	94	93	92	99	97.2
Dec 10	94	92	93	94	92	93	94	94	94	94	93	92	93	93	94	92	91	91	91	91	92	93	93	93	91	94	92.8
Dec 11	93	94	94	95	95	94	94	93	93	93	93	92	91	91	92	93	94	93	94	93	93	95	95	95	91	95	93.4
Dec 12	95	98	99	97	96	96	95	95	95	97	96	94	93	92	91	91	93	94	93	94	95	93	94	92	91	99	94.5
Dec 13	92	93	94	96	91	90	91	94	93	95	94	89	84	82	87	90	95	97	98	99	**100**	**100**	99	**100**	82	**100**	93.5
Dec 14	99	98	98	98	98	98	98	99	**100**	99	99	98	97	97	96	97	95	95	95	95	93	92	92	93	92	**100**	96.6
Dec 15	93	93	91	90	90	88	88	88	90	90	89	87	86	85	83	82	86	87	88	90	93	95	92	91	82	95	89.0
Dec 16	92	91	86	84	83	83	82	83	84	83	82	81	81	81	80	80	82	81	77	76	76	78	79	81	76	92	81.9
Dec 17	81	80	79	77	76	77	75	74	72	70	70	74	77	76	78	77	81	82	79	78	78	77	77	78	70	82	76.8
Dec 18	78	79	80	79	78	78	79	80	81	81	81	82	82	83	83	85	85	85	85	87	89	87	86	86	78	89	82.5
Dec 19	86	87	88	88	87	87	88	89	90	90	89	90	89	87	87	87	88	87	86	85	86	84	84	85	84	90	87.3
Dec 20	87	87	90	91	90	90	90	91	91	91	90	87	85	82	82	85	89	91	93	93	92	94	95	95	82	95	89.6
Dec 21	94	95	95	95	96	97	98	97	**100**	**100**	97	94	91	91	86	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	86	**100**	96.8
Dec 22	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	100	**100**	**100.0**
Dec 23	**100**	97	96	95	91	89	87	86	85	86	83	79	78	79	80	82	86	84	79	77	77	80	79	80	77	**100**	84.8
Dec 24	84	82	77	78	80	84	80	77	74	72	72	64	63	67	68	68	72	72	66	66	69	63	64	67	63	84	72.0
Dec 25	70	76	81	85	86	83	83	84	78	74	72	70	65	63	62	67	72	67	73	61	64	67	65	**60**	**60**	86	72.0
Dec 26	68	**60**	65	74	75	70	74	70	68	69	69	69	67	66	66	69	73	74	76	79	74	73	73	78	**60**	79	**70.8**
Dec 27	95	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	95	**100**	99.8
Dec 28	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	94	94	**100**	99	98	97	98	98	97	97	94	**100**	98.8
Dec 29	98	98	99	99	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	99	99	98	98	98	**100**	99.4
Dec 30	98	98	98	97	97	97	97	96	96	96	96	96	96	95	95	95	95	95	95	95	95	95	95	95	95	98	96.0
Dec 31	95	95	95	95	94	94	94	94	94	94	93	93	93	93	93	93	93	93	93	94	93	93	93	94	93	95	93.7
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	90.5	90.7	91.2	91.6	91.2	90.7	90.5	90.4	90.1	90.0	89.6	88.8	88.0	87.9	87.8	88.7	90.0	90.0	90.0	89.5	89.6	89.8	89.6	89.8			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

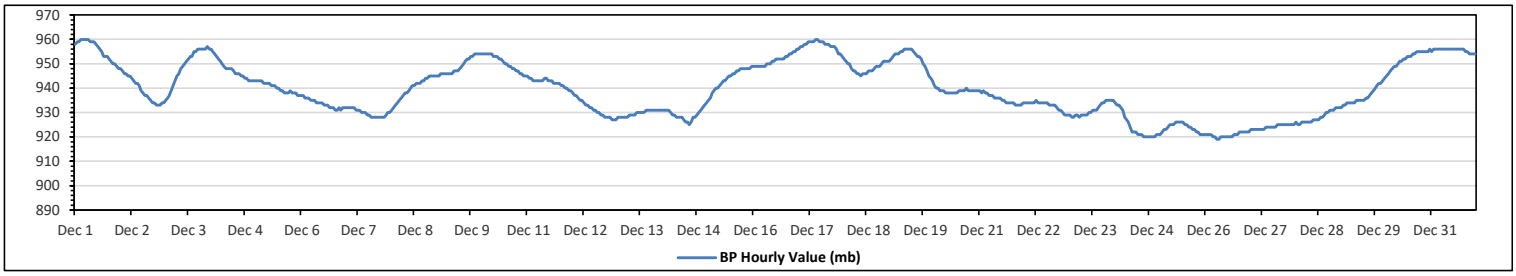
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	960	mb	on Dec 1 at hr 3	Hours in Service:	744
Maximum Daily Value:	958	mb	on Dec 17	Hours of Data:	744
Minimum Hourly Value:	919	mb	on Dec 26 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	921	mb	on Dec 26	Hours of Calibration:	0
Monthly Average:	939	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
Dec 1	958	959	959	**960**	**960**	**960**	**960**	**960**	959	959	959	958	957	956	955	953	953	953	952	951	950	950	949	948	948	**960**	956
Dec 2	948	947	946	946	945	945	944	943	942	942	941	939	938	937	937	936	935	934	934	933	933	933	934	934	933	948	939
Dec 3	935	936	937	939	941	943	945	946	948	949	950	951	952	953	953	955	955	956	956	956	956	956	957	956	935	957	949
Dec 4	956	955	954	953	952	951	950	949	948	948	948	948	947	946	946	946	945	945	944	944	943	943	943	943	943	956	948
Dec 5	943	943	943	943	942	942	942	942	941	941	941	940	940	939	939	938	938	938	939	938	938	938	937	937	937	943	940
Dec 6	937	937	936	936	936	935	935	935	934	934	934	934	933	933	933	932	932	932	931	931	932	931	932	932	931	937	934
Dec 7	932	932	932	932	932	931	931	931	930	930	930	929	929	928	928	928	928	928	928	928	928	929	930	930	928	932	930
Dec 8	931	932	933	934	935	936	937	938	938	939	940	941	941	942	942	942	943	943	944	944	945	945	945	945	931	945	940
Dec 9	945	945	946	946	946	946	946	946	946	947	947	947	948	949	950	951	952	952	953	953	954	954	954	954	945	954	949
Dec 10	954	954	954	954	954	954	953	953	953	952	952	951	950	950	949	949	948	948	947	947	946	946	945	945	945	954	950
Dec 11	945	944	944	943	943	943	943	943	943	944	944	943	943	943	942	942	942	942	941	941	940	940	939	939	939	945	942
Dec 12	938	937	937	936	935	935	934	933	933	932	932	931	931	930	930	929	929	928	928	928	928	927	927	927	927	938	931
Dec 13	928	928	928	928	928	928	929	929	929	929	930	930	930	930	930	931	931	931	931	931	931	931	931	931	928	931	930
Dec 14	931	931	931	931	930	929	929	928	928	928	928	927	926	926	925	926	928	928	929	930	931	932	933	934	925	934	929
Dec 15	935	936	938	939	940	940	941	942	943	943	944	945	945	946	946	947	947	948	948	948	948	948	948	949	935	949	944
Dec 16	949	949	949	949	949	949	949	950	950	950	951	951	952	952	952	952	952	953	953	954	954	955	955	956	949	956	951
Dec 17	956	957	957	958	958	959	959	959	959	**960**	**960**	959	959	959	958	958	958	957	957	957	956	954	954	953	953	**960**	**958**
Dec 18	952	951	950	950	948	947	947	946	946	945	946	946	946	947	947	947	948	949	949	949	950	951	951	951	945	952	948
Dec 19	951	952	953	954	954	954	955	955	956	956	956	956	956	955	954	953	953	952	950	949	947	945	944	943	943	956	952
Dec 20	941	940	940	939	939	939	938	938	938	938	938	938	938	939	939	939	939	940	939	939	939	939	939	939	938	941	939
Dec 21	939	938	939	938	938	937	937	937	936	936	936	936	935	935	934	934	934	934	934	933	933	933	933	934	933	939	936
Dec 22	934	934	934	934	934	934	935	934	934	934	934	934	934	933	933	933	933	932	931	931	930	929	929	929	929	935	933
Dec 23	929	928	928	929	929	928	929	929	929	929	930	930	931	931	931	932	933	934	934	935	935	935	935	935	928	935	931
Dec 24	934	933	933	932	931	928	927	926	924	922	922	922	921	921	921	920	920	920	920	920	920	920	921	921	920	934	924
Dec 25	921	922	923	923	924	925	925	925	926	926	926	926	926	925	925	924	924	923	923	922	922	921	921	921	921	926	924
Dec 26	921	921	921	921	920	920	**919**	**919**	920	920	920	920	920	920	920	921	921	921	922	922	922	922	922	922	**919**	922	**921**
Dec 27	923	923	923	923	923	923	923	923	924	924	924	924	924	924	925	925	925	925	925	925	925	925	925	925	923	925	924
Dec 28	926	925	925	926	926	926	926	926	926	927	927	927	927	928	928	929	930	930	931	931	931	932	932	932	925	932	928
Dec 29	932	933	933	934	934	934	934	934	935	935	935	935	935	936	936	937	938	939	940	941	942	942	943	944	932	944	937
Dec 30	945	946	947	948	949	949	950	951	951	952	952	953	953	953	954	954	955	955	955	955	955	955	955	956	945	956	952
Dec 31	955	956	956	956	956	956	956	956	956	956	956	956	956	956	956	956	956	956	955	955	954	954	954	954	954	956	956
Diurnal Maximum	958	959	959	960	960	960	960	960	959	960	960	959	959	959	958	958	958	957	957	957	956	956	957	956			
Diurnal Average	939	939	940	940	940	940	940	940	940	940	940	940	939	939	939	939	940	940	939	939	939	939	939	939			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

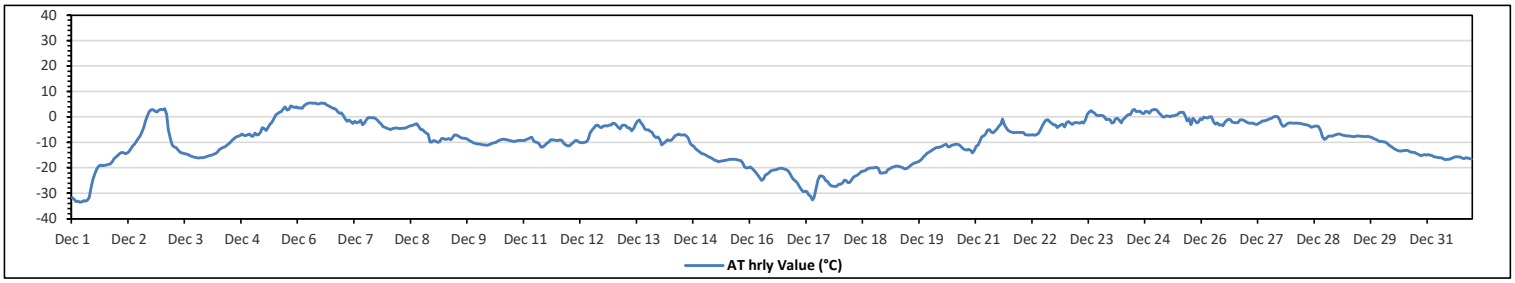
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	5.5	°C	on Dec 6 at hr 6	Hours in Service:	744	
Maximum Daily Value:	4.2	°C	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	-33.5	°C	on Dec 1 at hr 4	Hours of Missing Data:	0	
Minimum Daily Value:	-27.3	°C	on Dec 17	Hours of Calibration:	0	
Monthly Average:	-9.1	°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			
Dec 1	-31.7	-32.3	-33.2	-33.1	**-33.5**	-33.4	-32.8	-33.1	-32.7	-31.6	-27.6	-24.3	-22.2	-20.3	-19.2	-18.9	-19.1	-19	-18.9	-18.7	-18.5	-17.7	-16.5	-15.9	**-33.5**	-15.9	-25.2
Dec 2	-15.3	-14.5	-14	-14	-14.4	-14.3	-13.6	-12.5	-11.4	-10.6	-9.5	-8.4	-7.4	-5.8	-3.8	-1.5	0.6	2.3	2.8	2.8	2.3	2	2.7	3	-15.3	3.0	-6.4
Dec 3	2.8	3.2	1	-4.9	-8.2	-10.9	-11.8	-12	-12.8	-13.6	-14.1	-14.3	-14.5	-14.7	-15	-15.4	-15.7	-15.9	-16.1	-16.2	-16.1	-16	-15.9	-15.6	-16.2	3.2	-11.8
Dec 4	-15.4	-15.1	-14.9	-14.7	-14.4	-13.7	-12.9	-12.3	-12	-11.7	-11.1	-10.6	-9.9	-9.1	-8.4	-7.9	-7.6	-7.3	-6.7	-7.2	-7.3	-6.9	-6.8	-7.4	-15.4	-6.7	-10.5
Dec 5	-7.6	-6.4	-7	-6.9	-6.1	-4.2	-4.5	-5.4	-4.1	-2.8	-2.1	-0.6	0.8	1.3	1.8	2.1	3.1	4	2.7	2.9	4.3	3.9	3.8	4	-7.6	4.3	-1.0
Dec 6	3.5	3.6	3.4	4.4	5	5.3	**5.5**	**5.5**	5.3	5.4	5.2	5.2	**5.5**	5.3	5.3	4.8	4.4	4	3.5	3.4	2.9	2	1.4	1.6	1.4	**5.5**	**4.2**
Dec 7	0.6	-0.8	-1.7	-1.2	-1.9	-2.6	-1.7	-2.3	-2.1	-1.4	-3	-2.6	-1.3	-0.3	-0.3	-0.2	-0.3	-0.7	-1.2	-2.1	-2.7	-3.9	-4.1	-4.4	-4.4	0.6	-1.8
Dec 8	-4.7	-5	-4.6	-4.4	-4.3	-4.4	-4.5	-4.4	-4.4	-4.3	-4	-3.6	-3.4	-3.1	-2.8	-2.7	-3.9	-5	-4.9	-5.6	-6.3	-6.8	-9.8	-9.8	-9.8	-2.7	-4.9
Dec 9	-9.2	-9.6	-10	-9.7	-8.5	-8.4	-8.8	-8.7	-8.4	-9	-8	-7	-7.1	-7.4	-8	-8.3	-8.3	-8.5	-8.9	-9.4	-9.7	-10.2	-10.4	-10.6	-10.6	-7.0	-8.8
Dec 10	-10.7	-10.8	-11	-11	-11.1	-11	-10.7	-10.4	-10.1	-10	-9.5	-9.1	-8.8	-8.7	-8.9	-9	-9.2	-9.4	-9.6	-9.6	-9.4	-9.2	-9.2	-9.3	-11.1	-8.7	-9.8
Dec 11	-9.2	-8.9	-8.6	-8.2	-8	-9.5	-9.8	-9.9	-10.7	-11.9	-11.8	-11.1	-10.3	-9.8	-9	-9	-9.1	-9.2	-9.2	-9	-9.2	-10.3	-10.9	-11.4	-11.9	-8.0	-9.8
Dec 12	-11.3	-10.6	-10.1	-9.4	-9.2	-9.8	-10.1	-10.1	-9.9	-9.7	-8.8	-6.4	-5.2	-4.3	-3.3	-3.2	-4	-4.2	-3.6	-3.4	-3.6	-3.1	-3.1	-2.5	-11.3	-2.5	-6.6
Dec 13	-2.6	-3.3	-4.1	-4.7	-3.3	-3.1	-3.4	-4.3	-4.3	-5.5	-4.6	-2.9	-1.7	-1.2	-2.5	-3.2	-4.7	-5.1	-5.1	-5.7	-6.1	-7.5	-8.1	-7.8	-8.1	-1.2	-4.4
Dec 14	-8.8	-10.9	-10.4	-9.7	-9	-9.2	-9.2	-8.4	-7.5	-7.1	-6.8	-7.1	-7	-6.9	-7.5	-8.3	-10.4	-11.1	-11.5	-12.5	-13.1	-13.6	-14.2	-14.5	-14.5	-6.8	-9.8
Dec 15	-14.8	-15.2	-15.7	-16	-16.4	-17	-17.2	-17.6	-17.4	-17.3	-17.2	-17	-16.9	-16.6	-16.6	-16.6	-16.6	-16.8	-17	-17.1	-18	-19.7	-20.1	-20	-20.1	-14.8	-17.1
Dec 16	-19.6	-20.3	-20.9	-21.8	-22.8	-23.8	-24.9	-24.4	-22.9	-22.5	-21.9	-21.2	-20.9	-20.8	-20.6	-20.3	-20.2	-20.2	-20.4	-20.6	-21	-22	-23.6	-24.6	-24.9	-19.6	-21.8
Dec 17	-25.2	-25.9	-27.3	-28.4	-29.4	-29.3	-29.4	-30.6	-31.1	-32.6	-31.6	-28.3	-24.8	-23.1	-23.1	-23.5	-24.9	-25.4	-26.5	-27	-27.2	-27.3	-27.2	-26.5	-32.6	-23.1	**-27.3**
Dec 18	-26.5	-25.9	-24.8	-25.1	-25.8	-25.7	-24.5	-23.6	-23.1	-22.9	-22.2	-21.5	-21.3	-21	-20.5	-20.2	-20.1	-20.1	-19.9	-19.8	-20.2	-22	-22	-21.9	-26.5	-19.8	-22.5
Dec 19	-21.7	-20.8	-20.4	-20	-19.6	-19.4	-19.2	-19.4	-19.6	-20	-20.4	-20.3	-19.8	-19.1	-18.6	-18.1	-17.9	-17.6	-17.3	-16.6	-15.7	-14.9	-14.3	-13.9	-21.7	-13.9	-18.5
Dec 20	-13.4	-12.8	-12.3	-12	-12	-11.7	-11.5	-10.9	-10.8	-11.7	-11.7	-11.1	-10.9	-10.8	-10.8	-11	-11.8	-12.4	-12.8	-13	-12.7	-13.2	-14.1	-13.2	-14.1	-10.8	-12.0
Dec 21	-11.5	-11	-9.6	-7.8	-7.4	-6.8	-5.2	-5	-5.9	-6.2	-5.5	-4.7	-3.6	-2.8	-0.8	-3	-4.3	-5.3	-5.7	-6	-6.2	-6.1	-6.1	-6.1	-11.5	-0.8	-5.9
Dec 22	-6.1	-6.1	-6.9	-7.1	-7.1	-7.1	-6.9	-7.2	-6.9	-6.5	-5.2	-3.6	-2.4	-1.3	-1	-1.8	-2.5	-3	-3	-4.2	-3.5	-3	-2.8	-4	-7.2	-1.0	-4.6
Dec 23	-2.2	-1.8	-2.4	-2.9	-2.3	-2.2	-2.3	-2.4	-1.9	-2.5	-1.2	1.1	2	2.5	2	1.5	0.6	0.6	0.6	0.6	0.1	-1	-0.9	-1.1	-2.9	2.5	-0.6
Dec 24	-2.4	-2.1	-0.7	-0.5	-1.3	-2.3	-1.1	-0.4	0.5	1	1	2.6	2.9	2.1	2.2	2.2	1.4	1.3	2.3	2.1	1.4	2.6	2.8	3	-2.4	3.0	0.9
Dec 25	2.6	1.6	0.9	0.1	-0.1	0.5	0.3	0.1	0.5	0.5	0.7	1	1.7	1.8	1.8	0.4	-1.5	-0.7	-3	-0.5	-1.4	-2.3	-2	-0.6	-3.0	2.6	0.1
Dec 26	-1	-0.1	-0.2	-0.4	0.1	0	-1.8	-2.8	-2.3	-3.1	-3	-3.4	-2.1	-1.4	-0.9	-1.1	-2	-2.2	-2.3	-2.2	-1.2	-1	-1.4	-1.6	-3.4	0.1	-1.6
Dec 27	-2.2	-2.5	-2.4	-2.5	-2.8	-2.9	-2.6	-2.2	-1.5	-1.5	-1.4	-1.1	-0.6	-0.4	0	0.2	0.1	-1	-2.8	-3.7	-3.4	-2.8	-2.5	-2.3	-3.7	0.2	-1.9
Dec 28	-2.4	-2.5	-2.5	-2.5	-2.6	-2.7	-2.9	-3	-3.2	-3.6	-4.1	-3.9	-3.6	-3.5	-3.9	-5.4	-7.8	-8.9	-8.3	-7.6	-7.4	-7.6	-7.2	-6.9	-8.9	-2.4	-4.8
Dec 29	-6.7	-6.8	-6.9	-7.2	-7.3	-7.5	-7.5	-7.6	-7.7	-7.7	-7.5	-7.5	-7.6	-7.6	-7.7	-7.7	-7.6	-7.8	-8	-8.4	-8.7	-9.1	-9.6	-9.6	-9.6	-6.7	-7.8
Dec 30	-9.7	-9.8	-10.2	-10.9	-11.5	-12	-12.5	-12.8	-13.3	-13.4	-13.4	-13.3	-13.1	-13.1	-13.5	-13.8	-13.9	-14	-14.5	-14.8	-15.3	-15	-14.8	-14.9	-15.3	-9.7	-13.1
Dec 31	-14.8	-14.9	-15.1	-15.6	-15.8	-15.9	-16	-16.1	-16.4	-16.8	-16.6	-16.6	-16.4	-16.2	-15.8	-15.6	-15.6	-15.8	-16.2	-16.3	-16.1	-16.2	-16.3	-16.5	-16.8	-14.8	-16.0
Diurnal Maximum	3.5	3.6	3.4	4.4	5.0	5.3	5.5	5.5	5.3	5.4	5.2	5.2	5.5	5.3	5.3	4.8	4.4	4.0	3.5	3.4	4.3	3.9	3.8	4.0			
Diurnal Average	-9.6	-9.6	-9.8	-9.9	-10.0	-10.2	-10.1	-10.1	-9.9	-10.0	-9.6	-8.8	-8.1	-7.6	-7.4	-7.6	-8.0	-8.2	-8.4	-8.6	-8.7	-9.0	-9.1	-9.1			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

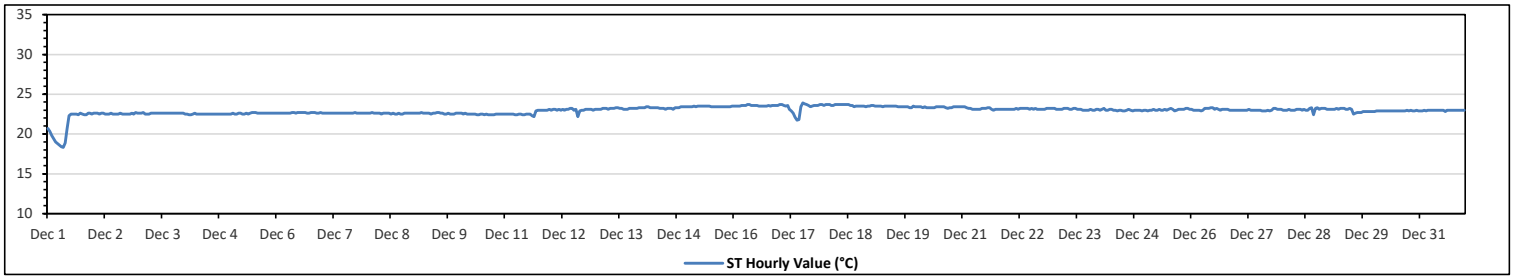
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	23.9	°C	on Dec 17 at hr 12	Hours in Service:	744
Maximum Daily Value:	23.6	°C	on Dec 18	Hours of Data:	744
Minimum Hourly Value:	18.3	°C	on Dec 1 at hr 8	Hours of Missing Data:	0
Minimum Daily Value:	21.1	°C	on Dec 1	Hours of Calibration:	0
Monthly Average:	22.9	°C		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
Dec 1	20.7	20.3	19.8	19.4	19.0	18.8	18.6	18.4	**18.3**	18.9	20.7	22.3	22.5	22.5	22.5	22.5	22.4	22.6	22.5	22.4	22.4	22.6	22.6	22.5	**18.3**	22.6	**21.1**
Dec 2	22.6	22.6	22.6	22.5	22.6	22.6	22.5	22.5	22.5	22.6	22.5	22.5	22.5	22.5	22.6	22.5	22.5	22.5	22.5	22.5	22.6	22.5	22.7	22.6	22.5	22.7	22.5
Dec 3	22.6	22.6	22.7	22.5	22.5	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.5	22.7	22.6
Dec 4	22.5	22.5	22.4	22.4	22.5	22.6	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.4	22.6	22.5
Dec 5	22.5	22.6	22.5	22.5	22.6	22.6	22.5	22.5	22.6	22.5	22.6	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.5	22.7	22.6
Dec 6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.6	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.7	22.7	22.7	22.6	22.6	22.7	22.6	22.7	22.6
Dec 7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.6
Dec 8	22.6	22.6	22.7	22.6	22.6	22.6	22.6	22.5	22.6	22.6	22.6	22.6	22.5	22.6	22.5	22.5	22.6	22.5	22.5	22.6	22.6	22.6	22.6	22.6	22.5	22.7	22.6
Dec 9	22.6	22.6	22.6	22.6	22.7	22.6	22.6	22.6	22.6	22.5	22.6	22.6	22.7	22.7	22.6	22.6	22.5	22.5	22.6	22.5	22.5	22.5	22.6	22.6	22.5	22.7	22.6
Dec 10	22.6	22.6	22.5	22.6	22.5	22.5	22.5	22.5	22.5	22.4	22.4	22.5	22.5	22.4	22.5	22.4	22.4	22.4	22.4	22.5	22.5	22.5	22.5	22.5	22.4	22.6	22.5
Dec 11	22.5	22.5	22.5	22.5	22.5	22.4	22.4	22.5	22.5	22.4	22.4	22.5	22.5	22.5	22.3	22.2	22.9	23.0	23.0	23.0	23.0	23.0	23.0	23.1	22.2	23.1	22.6
Dec 12	23.0	23.1	23.1	23.0	23.1	23.0	23.1	23.0	23.1	23.1	23.2	23.2	23.0	23.1	22.2	22.9	23.0	23.0	23.1	23.1	23.1	23.1	23.0	23.1	22.2	23.2	23.0
Dec 13	23.1	23.1	23.1	23.2	23.2	23.2	23.1	23.2	23.2	23.2	23.3	23.3	23.2	23.2	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.1	23.3	23.2
Dec 14	23.3	23.3	23.4	23.4	23.3	23.3	23.3	23.3	23.3	23.2	23.2	23.2	23.1	23.2	23.2	23.2	23.1	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.1	23.4	23.3
Dec 15	23.4	23.4	23.4	23.5	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.5	23.4
Dec 16	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.7	23.7	23.6	23.6	23.6	23.6	23.5	23.5	23.5	23.5	23.5	23.6	23.5	23.6	23.6	23.6	23.6	23.5	23.7	23.6
Dec 17	23.7	23.7	23.6	23.5	23.6	23.1	22.9	22.6	22.1	21.7	21.8	23.4	**23.9**	23.8	23.7	23.6	23.4	23.5	23.6	23.6	23.6	23.7	23.7	23.6	21.7	**23.9**	23.3
Dec 18	23.7	23.7	23.7	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.6	23.6	23.4	23.5	23.5	23.5	23.5	23.5	23.4	23.5	23.5	23.4	23.7	**23.6**
Dec 19	23.6	23.6	23.5	23.5	23.5	23.5	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.3	23.3	23.5	23.4	23.3	23.6	23.5
Dec 20	23.4	23.4	23.4	23.3	23.4	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.3	23.2	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.2	23.4	23.4
Dec 21	23.4	23.4	23.3	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.3	23.3	23.1	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.4	23.2
Dec 22	23.1	23.1	23.1	23.1	23.2	23.1	23.2	23.2	23.2	23.2	23.2	23.1	23.2	23.1	23.2	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.1	23.2	23.2
Dec 23	23.2	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.1	23.1	23.2	23.2	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.1	23.0	23.0	23.1	23.1	23.0	23.2	23.1
Dec 24	23.0	23.1	23.2	23.0	23.0	23.1	23.1	23.0	23.0	22.9	23.0	23.0	22.9	22.9	23.0	23.1	23.0	22.9	23.0	23.0	23.0	23.0	22.9	23.0	22.9	23.2	23.0
Dec 25	23.0	22.9	23.0	23.0	23.1	23.0	23.0	23.1	23.0	23.0	23.1	23.0	23.1	23.2	23.1	22.9	23.0	23.1	23.1	23.1	23.1	23.2	23.2	23.1	22.9	23.2	23.1
Dec 26	23.1	23.0	23.0	23.0	23.0	22.9	23.0	23.2	23.2	23.2	23.3	23.3	23.1	23.2	23.1	23.0	23.1	23.1	23.1	23.1	23.0	23.0	23.0	23.0	22.9	23.3	23.1
Dec 27	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.0	23.0	23.0	23.0	23.0	23.0	22.9	22.9	22.9	23.0	22.9	23.0	23.2	23.2	23.1	23.1	23.1	22.9	23.2	23.0
Dec 28	23.0	23.0	23.0	23.1	23.0	23.0	23.0	23.1	23.1	23.1	23.0	23.1	23.0	23.0	23.2	23.3	22.4	23.2	23.3	23.1	23.2	23.2	23.2	23.1	22.4	23.3	23.1
Dec 29	23.1	23.1	23.1	23.1	23.2	23.1	23.2	23.2	23.2	23.1	23.1	23.2	23.1	22.5	22.6	22.7	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.5	23.2	23.0
Dec 30	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	23.0	22.9	23.0	22.9	22.9	23.0	22.9	22.8	23.0	22.9
Dec 31	22.9	22.9	23.0	22.9	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.8	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.8	23.0	23.0
Diurnal Maximum	23.7	23.7	23.7	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.9	23.8	23.7	23.6	23.5	23.5	23.6	23.6	23.6	23.7	23.7	23.6			
Diurnal Average	22.9	22.9	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.9	23.0	23.0	23.0	22.9	22.9	22.9	23.0	23.0	23.0	23.0	23.0	23.0	23.0			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

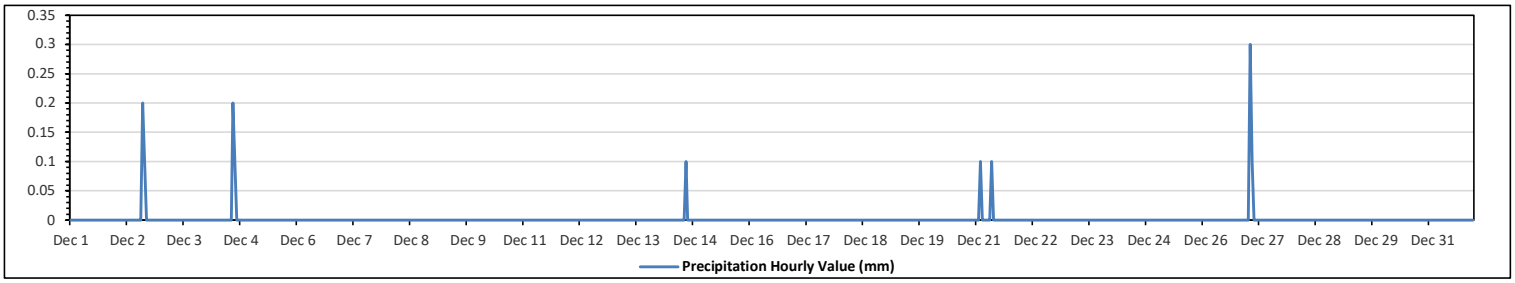
PRECIPITATION in mm

Maximum Hourly Value:	0.3	mm	on Dec 27 at hr 1	Hours in Service:	744	
Maximum Daily Value:	0.4	mm	on Dec 27	Hours of Data:	744	
Minimum Hourly Value:	0.0	mm	on Dec 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	mm	on Dec 1	Hours of Calibration:	0	
Monthly Total:	1.3	mm		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0	0	0	0.0	0.2	0.3
Dec 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dec 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0	0	0	0.0	0.2	0.3
Dec 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
Dec 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 21	0	0	0.1	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	0.2
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 27	0	**0.3**	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	**0.3**	**0.4**
Dec 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
Dec 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
Dec 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
Dec 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	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	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			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance		
K	Collection Error	ND	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.



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	29.0	kph	on Dec 6 at hr 8	Hours in Service:	744	
Maximum Daily Value:	17.0	kph	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	0.1	kph	on Dec 21 at hr 18	Hours of Missing Data:	0	
Minimum Daily Value:	4.0	kph	on Dec 28	Hours of Calibration:	0	
Monthly Average:	3.0	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
Dec 1	4.2	4.1	5.3	5.2	5.4	2.3	4.9	4.4	5.7	6.5	5.2	9.3	9.9	13.6	13.9	14.5	15.3	10.9	13.8	15.7	16.7	11.1	10.1	11.4	2.3	16.7	9.1
Dec 2	7.6	5.7	4.1	4.6	3.4	2.6	5.6	7.6	11.9	10.8	13.7	14.0	15.9	18.0	17.9	19.3	26.2	27.9	24.7	25.8	22.1	18.7	19.2	16.9	2.6	27.9	14.3
Dec 3	12.2	8.7	10.4	16.0	20.2	25.9	20.4	17.7	22.3	22.5	21.8	21.0	21.9	13.8	16.0	15.3	15.0	13.4	11.9	8.7	7.6	8.2	8.4	9.8	7.6	25.9	15.4
Dec 4	11.8	14.6	16.2	19.1	14.5	12.2	15.2	16.0	16.8	15.6	10.9	6.9	6.3	7.4	7.4	8.6	10.5	12.6	16.0	15.5	14.2	16.5	17.6	12.4	6.3	19.1	13.1
Dec 5	13.0	12.7	10.0	11.4	11.5	12.4	11.1	13.3	8.6	10.3	10.6	10.8	10.9	8.9	11.2	20.4	15.8	16.9	12.1	17.2	20.6	18.3	18.0	17.4	8.6	20.6	13.5
Dec 6	17.7	16.7	18.2	17.9	21.2	21.6	19.5	20.7	**29.0**	23.8	21.4	21.3	18.6	17.8	19.1	14.4	14.6	13.3	13.8	12.6	10.8	8.1	8.7	8.2	8.1	**29.0**	**17.0**
Dec 7	3.4	7.7	10.0	9.0	9.6	8.9	11.2	11.0	10.4	11.1	9.6	5.6	7.7	3.3	1.7	3.6	2.5	1.3	2.9	2.0	1.9	4.2	5.2	5.1	1.3	11.2	6.2
Dec 8	6.5	6.0	3.3	4.5	5.3	6.2	5.2	6.1	4.0	4.5	3.0	2.2	4.5	3.2	3.7	5.7	6.8	5.5	5.9	5.1	5.0	4.1	4.9	4.6	2.2	6.8	4.8
Dec 9	3.9	2.5	3.9	4.1	5.5	7.4	6.0	5.5	8.2	5.1	5.3	4.7	10.0	12.4	13.6	17.0	18.6	17.9	17.4	13.3	12.5	10.4	8.3	8.6	2.5	18.6	9.3
Dec 10	7.3	7.1	5.3	3.7	5.8	4.7	5.2	9.0	8.2	11.2	12.3	11.2	12.2	13.2	14.0	15.8	14.2	12.7	14.0	12.7	9.3	6.2	7.6	7.9	3.7	15.8	9.6
Dec 11	8.4	6.5	6.2	4.8	6.7	11.2	6.8	10.0	11.7	10.5	11.0	11.6	9.3	9.3	9.4	10.4	10.2	9.1	10.3	12.6	9.8	10.3	10.0	8.2	4.8	12.6	9.3
Dec 12	9.8	11.5	8.9	9.7	8.0	7.9	8.6	8.0	7.3	6.1	12.6	12.9	12.2	10.0	11.2	12.4	11.9	12.5	12.0	8.4	9.7	10.1	10.6	16.2	6.1	16.2	10.4
Dec 13	13.9	13.4	9.6	5.7	12.5	15.2	9.7	9.4	11.0	11.3	10.1	10.6	9.3	8.0	11.7	8.3	8.2	8.5	7.7	6.1	4.5	1.7	3.6	8.5	1.7	15.2	9.1
Dec 14	6.5	8.3	8.7	10.6	11.9	13.0	12.2	12.6	14.2	13.2	13.3	18.9	17.1	12.0	9.7	10.7	13.0	12.7	12.9	14.1	12.6	13.0	17.5	13.6	6.5	18.9	12.6
Dec 15	12.1	12.0	12.1	9.5	11.4	13.4	11.0	9.2	8.6	8.9	9.6	9.5	8.9	9.0	7.0	6.9	4.9	5.1	4.1	2.1	1.9	2.2	4.0	4.0	1.9	13.4	7.8
Dec 16	4.5	5.7	6.1	4.5	4.3	3.9	4.6	3.6	4.0	3.4	5.4	6.4	5.7	5.2	5.2	7.3	7.3	8.4	12.9	13.5	14.8	12.7	7.6	4.6	3.4	14.8	6.7
Dec 17	4.3	4.0	2.8	2.2	1.2	4.5	1.3	1.5	5.2	3.2	4.6	3.1	3.3	0.6	1.4	2.0	4.4	6.5	5.4	5.0	11.1	7.2	7.9	11.1	0.6	11.1	4.3
Dec 18	6.9	8.3	11.0	14.0	13.5	13.8	11.7	12.9	12.0	13.2	8.9	8.7	8.4	8.7	8.9	9.5	7.6	5.2	4.0	3.3	0.9	3.9	1.4	4.7	0.9	14.0	8.4
Dec 19	4.2	2.6	3.6	0.6	1.6	1.1	6.4	2.5	0.7	2.3	1.9	4.2	5.2	5.2	6.2	10.1	11.1	13.9	16.1	15.5	21.4	25.4	19.4	21.2	0.6	25.4	8.4
Dec 20	17.6	17.6	16.9	17.4	13.2	12.1	13.6	14.0	14.0	12.5	9.9	15.1	16.7	14.2	9.1	8.9	9.8	8.9	9.3	8.6	9.0	7.2	8.1	8.5	7.2	17.6	12.2
Dec 21	4.7	3.5	6.7	9.0	8.4	7.7	8.3	8.4	5.8	7.4	9.1	10.8	6.2	3.6	1.6	1.8	3.4	4.0	**0.1**	2.9	1.6	1.3	3.3	1.6	**0.1**	10.8	5.1
Dec 22	4.1	4.3	4.1	5.0	6.2	6.0	6.4	8.1	7.3	7.6	7.3	6.0	8.0	8.8	9.5	10.9	11.3	6.9	5.1	7.7	10.3	10.6	4.2	4.0	4.0	11.3	7.1
Dec 23	10.3	9.4	9.2	10.6	8.6	8.4	8.1	9.1	13.9	12.7	15.8	21.0	22.2	24.0	23.1	20.1	17.1	19.1	16.8	13.7	11.7	11.1	11.9	14.5	8.1	24.0	14.3
Dec 24	16.0	15.9	14.3	16.0	12.6	12.5	16.7	16.5	24.4	24.5	3.5	10.8	17.1	13.9	12.1	8.9	16.8	20.9	17.3	17.6	14.1	14.4	18.0	23.4	3.5	24.5	15.8
Dec 25	25.5	25.1	22.0	15.3	15.8	13.4	15.2	18.5	18.5	16.6	14.1	16.3	14.5	15.6	19.8	17.4	17.3	18.4	12.6	18.1	16.4	7.9	5.9	8.0	5.9	25.5	16.2
Dec 26	7.0	9.1	6.3	7.4	10.1	8.3	8.3	16.0	7.5	10.8	4.3	9.3	12.6	5.7	3.9	6.1	5.5	6.0	5.7	4.0	7.8	4.6	6.0	8.5	3.9	16.0	7.5
Dec 27	0.5	4.5	6.0	7.9	8.7	6.5	4.1	6.1	7.1	10.3	6.6	8.1	7.3	8.1	8.0	7.6	8.3	5.5	1.4	2.0	1.2	3.5	3.6	4.0	0.5	10.3	5.7
Dec 28	3.5	2.3	2.0	3.5	2.9	3.5	3.6	2.4	3.5	6.6	6.4	4.1	4.2	4.0	5.1	5.2	7.6	4.4	3.5	1.8	2.6	6.6	3.7	3.3	1.8	7.6	**4.0**
Dec 29	2.9	2.7	1.9	2.7	2.3	3.6	2.4	4.5	5.3	2.7	1.7	3.4	3.3	2.7	3.4	3.8	6.8	9.7	9.1	10.7	11.0	9.0	9.2	8.3	1.7	11.0	5.1
Dec 30	8.5	9.8	9.8	10.3	10.1	9.4	8.6	8.4	7.6	7.2	5.7	6.8	7.0	7.3	7.5	6.3	5.6	5.5	4.3	2.7	3.0	3.3	3.3	2.2	2.2	10.3	6.7
Dec 31	3.8	7.5	8.0	7.5	7.3	7.6	5.3	4.6	6.6	4.1	6.5	6.6	6.7	6.3	6.8	4.2	3.5	3.4	2.6	2.4	3.4	3.4	2.6	2.5	2.4	8.0	5.1
Diurnal Maximum	25.5	25.1	22.0	19.1	21.2	25.9	20.4	20.7	29.0	24.5	21.8	21.3	22.2	24.0	23.1	20.4	26.2	27.9	24.7	25.8	22.1	25.4	19.4	23.4			
Diurnal Average	8.5	8.7	8.5	8.7	9.0	9.3	8.9	9.6	10.4	10.2	9.1	10.0	10.4	9.5	9.6	10.1	10.7	10.5	9.9	9.7	9.7	8.9	8.7	9.1			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.
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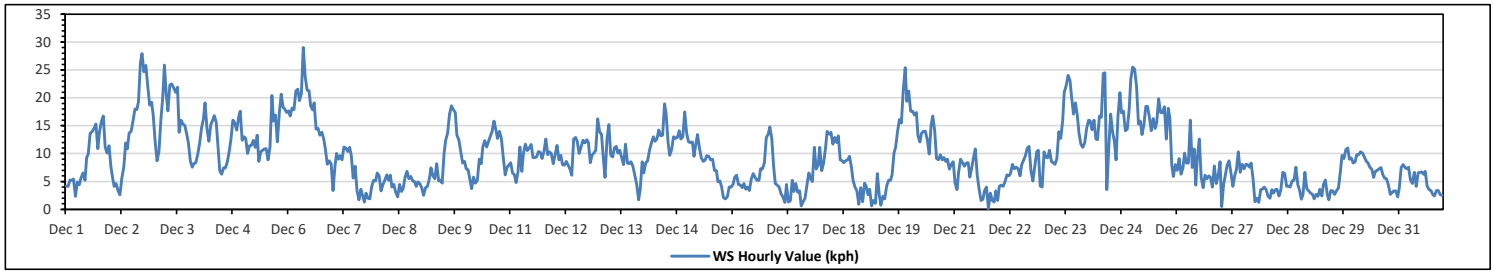
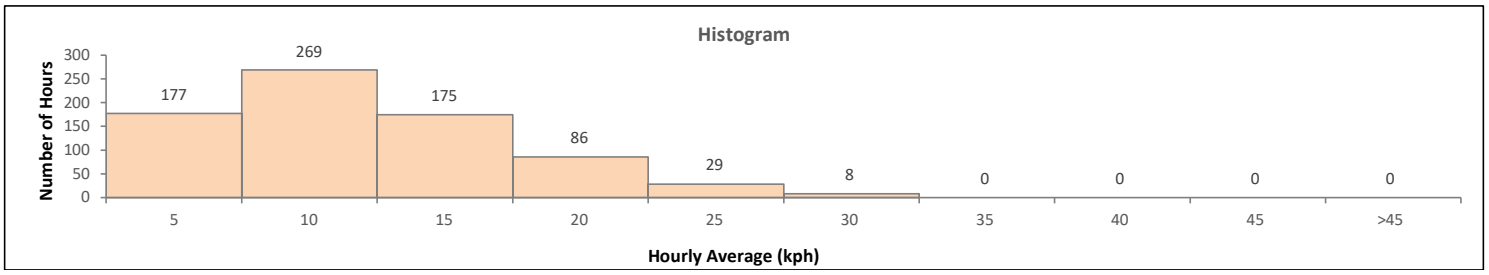


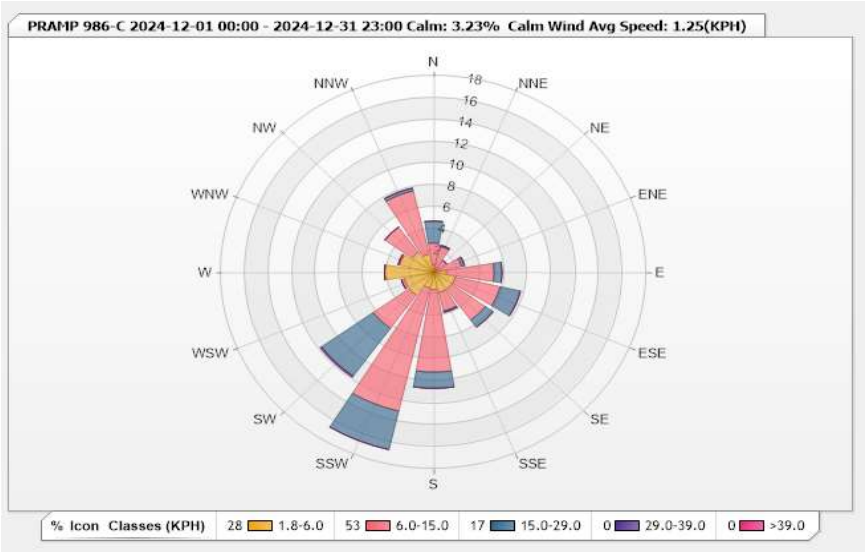


Station: PRAMP 986-C Monitor: WDS [KPH] Monthly: 12-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 3.23% 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	0.67	2.02	2.02	0	0	4.71
NNE	0.27	2.15	0.13	0	0	2.55
NE	0.4	0.94	0	0	0	1.34
ENE	0.13	2.28	0.27	0	0	2.68
E	1.08	4.03	0.67	0	0	5.78
ESE	1.88	3.9	1.75	0	0	7.53
SE	1.88	3.49	0.81	0	0	6.18
SSE	1.88	1.75	0.13	0	0	3.76
S	1.61	7.53	1.48	0	0	10.62
SSW	1.48	11.56	3.63	0	0	16.67
SW	2.55	3.76	5.38	0.13	0	11.82
WSW	2.55	0.27	0	0	0	2.82
W	4.17	0	0	0	0	4.17
WNW	2.96	0.13	0	0	0	3.09
NW	2.28	2.82	0	0	0	5.1
NNW	1.75	5.91	0.27	0	0	7.93
Summary	27.54	52.54	16.54	0.13	0	96.75



Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

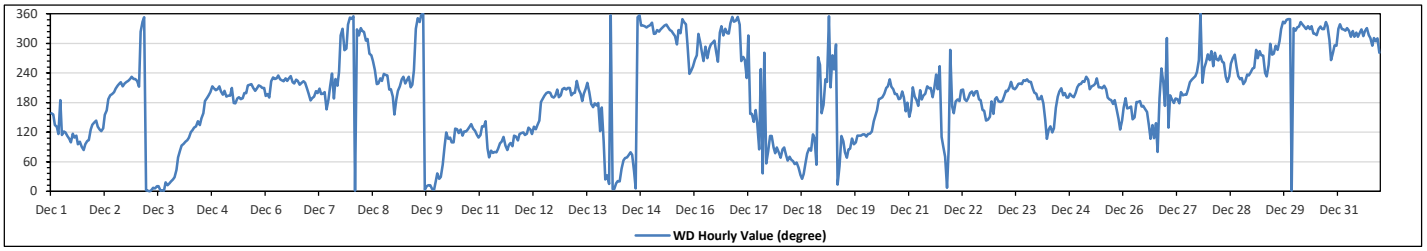
WIND DIRECTION (VWD) in sector

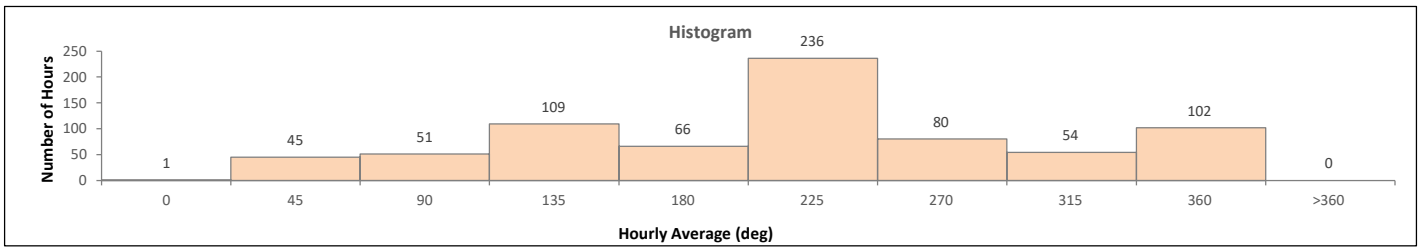
Monthly Average:	190 (S)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Dec 1	SSE	SSE	SE	SE	ESE	S	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	E	E	E	E	E	E	ESE	SE	SE	110	ESE
Dec 2	SE	SE	SE	SE	ESE	SE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	210	SSW
Dec 3	SW	SSW	NW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	5	N
Dec 4	E	E	E	E	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	152	SSE
Dec 5	SSW	SSW	S	SSW	SSW	SSW	S	S	S	S	S	S	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	203	SSW
Dec 6	S	SSW	S	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	222	SW
Dec 7	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSE	S	SSW	WSW	S	SW	SSW	WSW	NW	NNW	WNW	WNW	NNW	N	206	SSW
Dec 8	N	N	N	NNW	NW	NNW	NW	NW	NW	NW	W	W	W	WSW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	S	274	W
Dec 9	SSE	S	SSW	SSW	SW	SW	SW	SW	SW	SSW	SW	WSW	NNW	N	NNW	N	N	N	N	NNE	NNE	N	N	NNE	342	NNW
Dec 10	NE	NNE	NNE	NE	E	ESE	ESE	ESE	E	E	SE	SE	ESE	SE	ESE	ESE	ESE	SE	SE	SE	SE	ESE	ESE	ESE	113	ESE
Dec 11	ESE	SE	SE	SE	E	ENE	E	ENE	E	ENE	E	E	E	ESE	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	98	E
Dec 12	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	SE	S	S	SSW	SSW	SSW	SSW	S	S	SSW	SSW	S	SSW	SSW	SSW	173	S
Dec 13	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	S	SSW	SSW	SW	SSW	S	S	S	S	S	ESE	SSE	E	NNE	NNE	194	SSW
Dec 14	NNE	N	N	N	NNE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	19	NNE
Dec 15	NNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	WNW	NW	NW	NNW	NNW	NNW	WNW	SW	WSW	WSW	324	NW
Dec 16	W	W	NW	WNW	W	W	WNW	W	WNW	WNW	WNW	NW	W	W	NW	NNW	NW	NNW	NW	NW	NNW	N	NNW	NNW	315	NW
Dec 17	N	NNW	W	W	W	SW	NW	SSE	SSE	SE	SSE	SE	E	WSW	NE	W	NE	E	ESE	ESE	E	ENE	E	ENE	95	E
Dec 18	ENE	E	E	ENE	ENE	ENE	ENE	ENE	NE	ENE	NE	NNE	NNE	NE	ENE	ENE	E	E	ESE	ESE	NE	W	WSW	SSE	65	ENE
Dec 19	S	SW	SW	N	SSW	W	WSW	WNW	NNE	NE	ESE	E	ENE	ENE	E	E	ESE	E	E	ESE	ESE	ESE	ESE	ESE	109	ESE
Dec 20	ESE	ESE	ESE	ESE	SE	SSE	SSE	S	S	S	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	S	S	SSW	S	SSE	S	174	S
Dec 21	SSE	SSE	SSW	S	S	S	SSW	S	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SSW	WSW	ESE	E	ENE	N	E	WNW	195	SSW
Dec 22	S	SSE	S	S	S	SSW	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SSE	SE	SE	SSE	S	SSE	181	S
Dec 23	S	S	S	S	S	S	SSW	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	210	SSW
Dec 24	S	S	S	S	SE	ESE	SE	SE	ESE	SE	SSE	S	SSW	SSW	SSW	SSW	S	S	SSW	S	S	SSW	SSW	SW	178	S
Dec 25	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	SSE	SE	SE	SE	205	SSW
Dec 26	SSE	S	SSE	SSE	S	SE	SSE	S	S	S	S	S	SSE	SSE	SE	ESE	SE	ESE	SE	E	S	WSW	SW	S	167	SSE
Dec 27	NW	SE	SSW	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	W	N	SW	WSW	W	W	208	SSW
Dec 28	W	WNW	WSW	W	W	W	W	W	W	SW	SW	SW	WSW	W	W	WSW	SW	SW	SW	SW	SW	SW	SW	WSW	248	WSW
Dec 29	WSW	WSW	WNW	W	WNW	W	W	WSW	SW	WSW	WNW	W	W	WNW	WNW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	317	NW
Dec 30	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	W	W	WNW	WNW	328	NNW
Dec 31	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NNW	NW	NW	WNW	NW	WNW	NW	W	322	NW

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

986-C Station - December 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	29.0	kph	on Dec 6 at hr 8	Hours in Service:	744
Maximum Daily Value:	17.0	kph	on Dec 6	Hours of Data:	744
Minimum Hourly Value:	0.1	kph	on Dec 21 at hr 18	Hours of Missing Data:	0
Minimum Daily Value:	4.0	kph	on Dec 28	Hours of Calibration:	0
Monthly Average:	3.0	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 190 degree (S)

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			
Dec 1	4.2	4.1	5.3	5.2	5.4	2.3	4.9	4.4	5.7	6.5	5.2	9.3	9.9	13.6	13.9	14.5	15.3	10.9	13.8	15.7	16.7	11.1	10.1	11.4	2.3	16.7	9.1
	SSE	SSE	SE	SE	ESE	S	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	E	E	E	E	E	E	ESE	SE	SE			110(ESE)
Dec 2	7.6	5.7	4.1	4.6	3.4	2.6	5.6	7.6	11.9	10.8	13.7	14.0	15.9	18.0	17.9	19.3	26.2	27.9	24.7	25.8	22.1	18.7	19.2	16.9	2.6	27.9	14.3
	SE	SE	SE	SE	ESE	SE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW			210(SSW)
Dec 3	12.2	8.7	10.4	16.0	20.2	25.9	20.4	17.7	22.3	22.5	21.8	21.0	21.9	13.8	16.0	15.3	15.0	13.4	11.9	8.7	7.6	8.2	8.4	9.8	7.6	25.9	15.4
	SW	SSW	NW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE			5(N)
Dec 4	11.8	14.6	16.2	19.1	14.5	12.2	15.2	16.0	16.8	15.6	10.9	6.9	6.3	7.4	7.4	8.6	10.5	12.6	16.0	15.5	14.2	16.5	17.6	12.4	6.3	19.1	13.1
	E	E	E	E	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			152(SSE)
Dec 5	13.0	12.7	10.0	11.4	11.5	12.4	11.1	13.3	8.6	10.3	10.6	10.8	10.9	8.9	11.2	20.4	15.8	16.9	12.1	17.2	20.6	18.3	18.0	17.4	8.6	20.6	13.5
	SSW	SSW	S	SSW	SSW	SSW	S	S	S	S	S	S	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			203(SSW)
Dec 6	17.7	16.7	18.2	17.9	21.2	21.6	19.5	20.7	**29.0**	23.8	21.4	21.3	18.6	17.8	19.1	14.4	14.6	13.3	13.8	12.6	10.8	8.1	8.7	8.2	8.1	**29.0**	**17.0**
	S	SSW	S	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW			222(SW)
Dec 7	3.4	7.7	10.0	9.0	9.6	8.9	11.2	11.0	10.4	11.1	9.6	5.6	7.7	3.3	1.7	3.6	2.5	1.3	2.9	2.0	1.9	4.2	5.2	5.1	1.3	11.2	6.2
	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSE	S	SSW	WSW	S	SW	SSW	WSW	NW	NNW	WNW	WNW	NNW	N			206(SSW)
Dec 8	6.5	6.0	3.3	4.5	5.3	6.2	5.2	6.1	4.0	4.5	3.0	2.2	4.5	3.2	3.7	5.7	6.8	5.5	5.9	5.1	5.0	4.1	4.9	4.6	2.2	6.8	4.8
	N	N	N	NNW	NW	NNW	NW	NW	NW	NW	W	W	W	WSW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	S			274(W)
Dec 9	3.9	2.5	3.9	4.1	5.5	7.4	6.0	5.5	8.2	5.1	5.3	4.7	10.0	12.4	13.6	17.0	18.6	17.9	17.4	13.3	12.5	10.4	8.3	8.6	2.5	18.6	9.3
	SSE	S	SSW	SSW	SW	SW	SW	SW	SW	SSW	SW	WSW	NNW	N	NNW	N	N	N	N	NNE	NNE	N	N	NNE			342(NNW)
Dec 10	7.3	7.1	5.3	3.7	5.8	4.7	5.2	9.0	8.2	11.2	12.3	11.2	12.2	13.2	14.0	15.8	14.2	12.7	14.0	12.7	9.3	6.2	7.6	7.9	3.7	15.8	9.6
	NE	NNE	NNE	NE	E	ESE	ESE	ESE	E	E	SE	SE	ESE	SE	ESE	ESE	ESE	SE	SE	SE	SE	ESE	ESE	ESE			113(ESE)
Dec 11	8.4	6.5	6.2	4.8	6.7	11.2	6.8	10.0	11.7	10.5	11.0	11.6	9.3	9.3	9.4	10.4	10.2	9.1	10.3	12.6	9.8	10.3	10.0	8.2	4.8	12.6	9.3
	ESE	SE	SE	SE	E	ENE	E	ENE	E	ENE	E	E	E	ESE	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE			98(E)
Dec 12	9.8	11.5	8.9	9.7	8.0	7.9	8.6	8.0	7.3	6.1	12.6	12.9	12.2	10.0	11.2	12.4	11.9	12.5	12.0	8.4	9.7	10.1	10.6	16.2	6.1	16.2	10.4
	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	SE	S	S	SSW	SSW	SSW	SSW	S	S	SSW	SSW	S	SSW	SSW	SSW			173(S)
Dec 13	13.9	13.4	9.6	5.7	12.5	15.2	9.7	9.4	11.0	11.3	10.1	10.6	9.3	8.0	11.7	8.3	8.2	8.5	7.7	6.1	4.5	1.7	3.6	8.5	1.7	15.2	9.1
	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	S	SSW	SSW	SW	SSW	S	S	S	S	S	ESE	SSE	E	NNE	NNE			194(SSW)
Dec 14	6.5	8.3	8.7	10.6	11.9	13.0	12.2	12.6	14.2	13.2	13.3	18.9	17.1	12.0	9.7	10.7	13.0	12.7	12.9	14.1	12.6	13.0	17.5	13.6	6.5	18.9	12.6
	NNE	N	N	N	NNE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW			19(NNE)
Dec 15	12.1	12.0	12.1	9.5	11.4	13.4	11.0	9.2	8.6	8.9	9.6	9.5	8.9	9.0	7.0	6.9	4.9	5.1	4.1	2.1	1.9	2.2	4.0	4.0	1.9	13.4	7.8
	NNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	WNW	NW	NW	NNW	NNW	NNW	WNW	SW	WSW	WSW			324(NW)
Dec 16	4.5	5.7	6.1	4.5	4.3	3.9	4.6	3.6	4.0	3.4	5.4	6.4	5.7	5.2	5.2	7.3	7.3	8.4	12.9	13.5	14.8	12.7	7.6	4.6	3.4	14.8	6.7
	W	W	NW	WNW	W	W	WNW	W	WNW	WNW	WNW	NW	W	W	NW	NNW	NW	NNW	NW	NW	NNW	N	NNW	NNW			315(NW)
Dec 17	4.3	4.0	2.8	2.2	1.2	4.5	1.3	1.5	5.2	3.2	4.6	3.1	3.3	0.6	1.4	2.0	4.4	6.5	5.4	5.0	11.1	7.2	7.9	11.1	0.6	11.1	4.3
	N	NNW	W	W	W	SW	NW	SSE	SSE	SE	SSE	SE	E	WSW	NE	W	NE	E	ESE	ESE	E	ENE	E	ENE			95(E)
Dec 18	6.9	8.3	11.0	14.0	13.5	13.8	11.7	12.9	12.0	13.2	8.9	8.7	8.4	8.7	8.9	9.5	7.6	5.2	4.0	3.3	0.9	3.9	1.4	4.7	0.9	14.0	8.4
	ENE	E	E	ENE	ENE	ENE	ENE	ENE	NE	ENE	NE	NNE	NNE	NE	ENE	ENE	E	E	ESE	ESE	NE	W	WSW	SSE			65(ENE)
Dec 19	4.2	2.6	3.6	0.6	1.6	1.1	6.4	2.5	0.7	2.3	1.9	4.2	5.2	5.2	6.2	10.1	11.1	13.9	16.1	15.5	21.4	25.4	19.4	21.2	0.6	25.4	8.4
	S	SW	SW	N	SSW	W	WSW	WNW	NNE	NE	ESE	E	ENE	ENE	E	E	ESE	E	E	ESE	ESE	ESE	ESE	ESE			109(ESE)
Dec 20	17.6	17.6	16.9	17.4	13.2	12.1	13.6	14.0	14.0	12.5	9.9	15.1	16.7	14.2	9.1	8.9	9.8	8.9	9.3	8.6	9.0	7.2	8.1	8.5	7.2	17.6	12.2
	ESE	ESE	ESE	ESE	SE	SSE	SSE	S	S	S	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	S	S	SSW	S	SSE	S			174(S)
Dec 21	4.7	3.5	6.7	9.0	8.4	7.7	8.3	8.4	5.8	7.4	9.1	10.8	6.2	3.6	1.6	1.8	3.4	4.0	**0.1**	2.9	1.6	1.3	3.3	1.6	**0.1**	10.8	5.1
	SSE	SSE	SSW	S	S	S	SSW	S	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SSW	WSW	ESE	E	ENE	N	E	WNW			195(SSW)
Dec 22	4.1	4.3	4.1	5.0	6.2	6.0	6.4	8.1	7.3	7.6	7.3	6.0	8.0	8.8	9.5	10.9	11.3	6.9	5.1	7.7	10.3	10.6	4.2	4.0	4.0	11.3	7.1
	S	SSE	S	S	S	SSW	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SSE	SE	SE	SSE	S	SSE			181(S)
Dec 23	10.3	9.4	9.2	10.6	8.6	8.4	8.1	9.1	13.9	12.7	15.8	21.0	22.2	24.0	23.1	20.1	17.1	19.1	16.8	13.7	11.7	11.1	11.9	14.5	8.1	24.0	14.3
	S	S	S	S	S	S	SSW	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW			210(SSW)
Dec 24	16.0	15.9	14.3	16.0	12.6	12.5	16.7	16.5	24.4	24.5	3.5	10.8	17.1	13.9	12.1	8.9	16.8	20.9	17.3	17.6	14.1	14.4	18.0	23.4	3.5	24.5	15.8
	S	S	S	S	SE	ESE	SE	SE	ESE	SE	SSE	S	SSW	SSW	SSW	SSW	S	S	SSW	S	S	SSW	SSW	SW			178(S)
Dec 25	25.5	25.1	22.0	15.3	15.8	13.4	15.2	18.5	18.5	16.6	14.1	16.3	14.5	15.6	19.8	17.4	17.3	18.4	12.6	18.1	16.4	7.9	5.9	8.0	5.9	25.5	16.2
	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	SSE	SE	SE	SE			205(SSW)
Dec 26	7.0	9.1	6.3	7.4	10.1	8.3	8.3	16.0	7.5	10.8	4.3	9.3	12.6	5.7	3.9	6.1	5.5	6.0	5.7	4.0	7.8	4.6	6.0	8.5	3.9	16.0	7.5
	SSE	S	SSE	SSE	S	SE	SSE	S	S	S	S	S	SSE	SSE	SE	ESE	SE	ESE	SE	E	S	WSW	SW	S			167(SSE)
Dec 27	0.5	4.5	6.0	7.9	8.7	6.5	4.1	6.1	7.1	10.3	6.6	8.1	7.3	8.1	8.0	7.6	8.3	5.5	1.4	2.0	1.2	3.5	3.6	4.0	0.5	10.3	5.7
	NW	SE	SSW	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	W	N	SW	WSW	W	W			208(SSW)
Dec 28	3.5	2.3	2.0	3.5	2.9	3.5	3.6	2.4	3.5	6.6	6.4	4.1	4.2	4.0	5.1	5.2	7.6	4.4	3.5	1.8	2.6	6.6	3.7	3.3	1.8	7.6	**4.0**
	W	WNW	WSW	W	W	W	W	W	W	SW	SW	SW	WSW	W	W	WSW	SW	SW	SW	SW	SW	SW	SW	WSW			248(WSW)
Dec 29	2.9	2.7	1.9	2.7	2.3	3.6	2.4	4.5	5.3	2.7	1.7	3.4	3.3	2.7	3.4	3.8	6.8	9.7	9.1	10.7	11.0	9.0	9.2	8.3	1.7	11.0	5.1
	WSW	WSW	WNW	W	WNW	W	W	WSW	SW	WSW	WNW	W	W	WNW	WNW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW			317(NW)
Dec 30	8.5	9.8	9.8	10.3	10.1	9.4	8.6	8.4	7.6	7.2	5.7	6.8	7.0	7.3	7.5	6.3	5.6	5.5	4.3	2.7	3.0	3.3	3.3	2.2	2.2	10.3	6.7
	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	W	W	WNW	WNW			328(NNW)
Dec 31	3.8	7.5	8.0	7.5	7.3	7.6	5.3	4.6	6.6	4.1	6.5	6.6	6.7	6.3	6.8	4.2	3.5	3.4	2.6	2.4	3.4	3.4	2.6	2.5	2.4	8.0	5.1
	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NNW	NW	NW	WNW	NW	WNW	NW	W			322(NW)

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance			
K	Collection Error	**ND**	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.

842-B STATION

Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

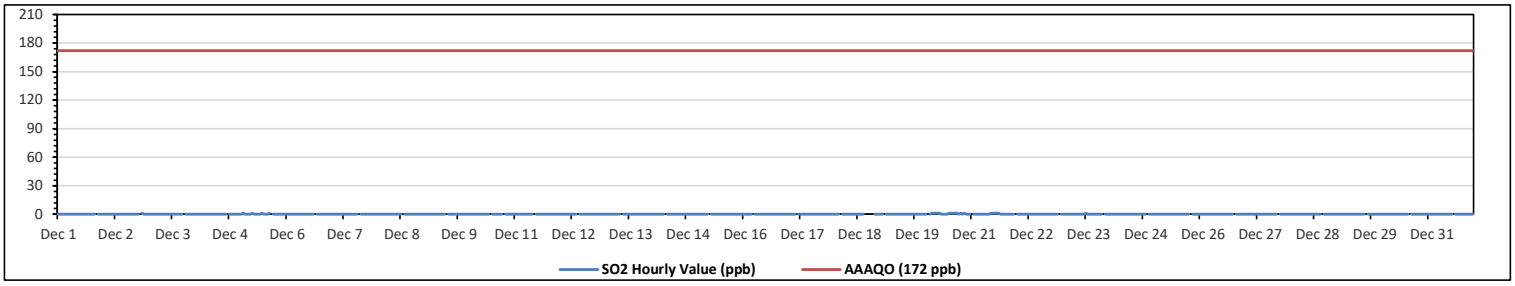
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

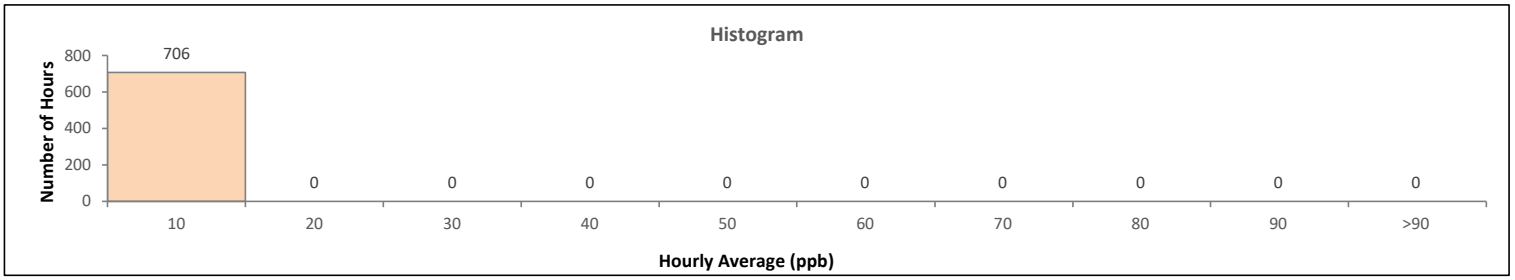
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Dec 2 at hr 20	Hours in Service:	744	
Maximum Daily Value:	0.5	ppb	on Dec 20	Hours of Data:	706	
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 0	Hours of Missing Data:	1	
Minimum Daily Value:	0.0	ppb	on Dec 1	Hours of Calibration:	37	
Monthly Average:	0.0	ppb		Operational Uptime:	99.9	

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			
Dec 1	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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	1	0.0
Dec 3	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
Dec 4	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
Dec 5	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1	S	0	0	0	0	0	0	0	0	1	0.2
Dec 6	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
Dec 7	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
Dec 8	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
Dec 9	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
Dec 10	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	K	0	0	0	0	0	0	0	0.0
Dec 11	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
Dec 12	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
Dec 13	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
Dec 14	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
Dec 15	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
Dec 16	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
Dec 17	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
Dec 18	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0.0
Dec 19	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
Dec 20	0	S	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	1	0	1	0	0	0	0	1	0.5
Dec 21	S	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	S	0	1	0.2
Dec 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	0	0.0
Dec 23	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	1	0.0
Dec 24	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
Dec 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Dec 26	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
Dec 27	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
Dec 28	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
Dec 29	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
Dec 30	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
Dec 31	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
Diurnal Maximum	0	1	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	0	1	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	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



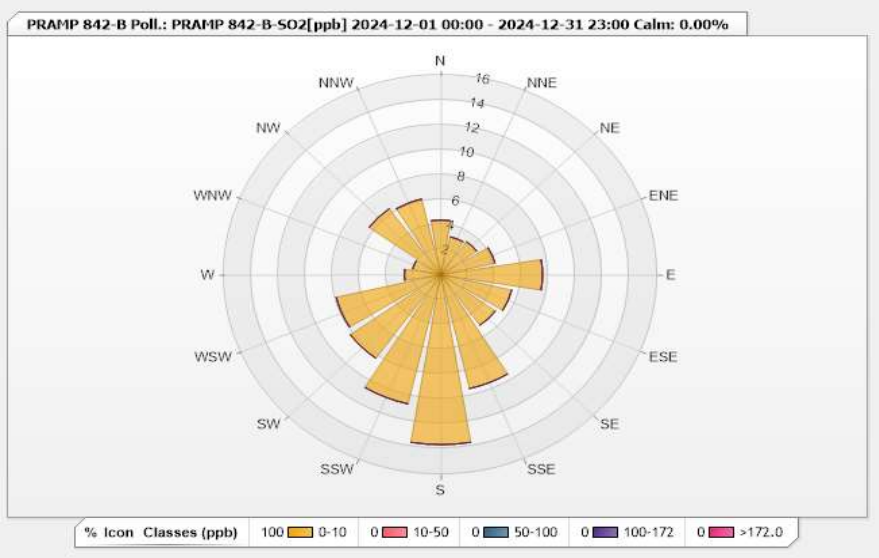


Station: PRAMP 842-B Poll.: PRAMP 842-B-SO2[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	4.39	0	0	0	0	4.39
NNE	3.12	0	0	0	0	3.12
NE	3.26	0	0	0	0	3.26
ENE	4.11	0	0	0	0	4.11
E	7.51	0	0	0	0	7.51
ESE	5.38	0	0	0	0	5.38
SE	4.96	0	0	0	0	4.96
SSE	9.35	0	0	0	0	9.35
S	13.6	0	0	0	0	13.6
SSW	10.62	0	0	0	0	10.62
SW	8.22	0	0	0	0	8.22
WSW	7.93	0	0	0	0	7.93
W	2.69	0	0	0	0	2.69
WNW	2.12	0	0	0	0	2.12
NW	6.52	0	0	0	0	6.52
NNW	6.23	0	0	0	0	6.23
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

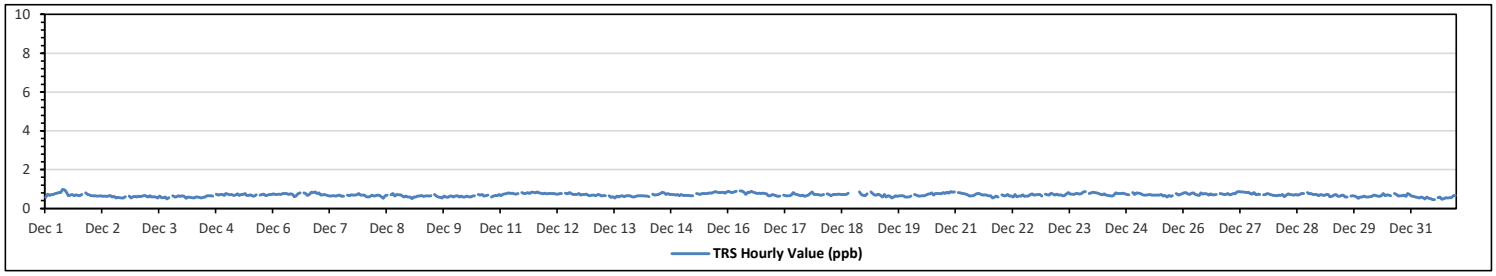
TOTAL REDUCED SULPHUR (TRS) in ppb

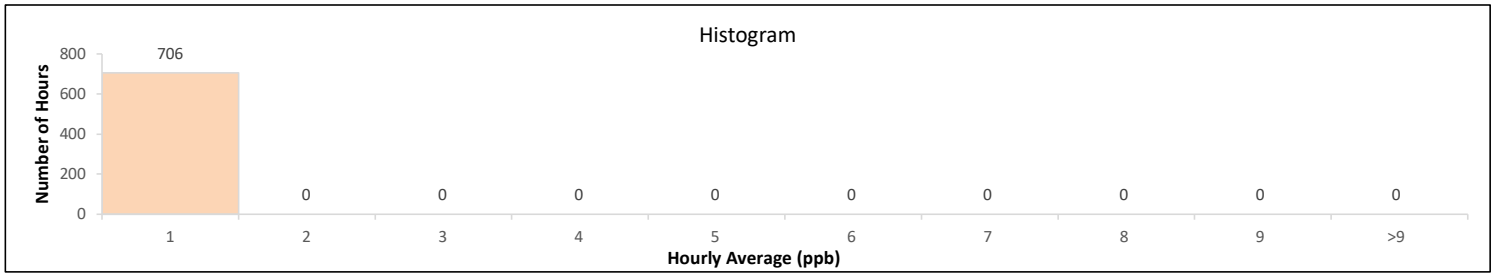
Maximum Hourly Value:	0.99	ppb	on Dec 1 at hr 9	Hours in Service:	744
Maximum Daily Value:	0.80	ppb	on Dec 16	Hours of Data:	706
Minimum Hourly Value:	0.46	ppb	on Dec 31 at hr 11	Hours of Missing Data:	1
Minimum Daily Value:	0.56	ppb	on Dec 31	Hours of Calibration:	37
Monthly Average:	0.69	ppb		Operational Uptime:	99.9

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			
Dec 1	0.57	0.74	0.67	0.73	0.72	0.78	0.79	0.82	0.82	**0.99**	0.94	0.8	0.66	0.69	0.73	0.66	0.7	0.67	0.65	0.71	S	0.8	0.71	0.7	0.57	**0.99**	0.74
Dec 2	0.66	0.66	0.66	0.64	0.63	0.66	0.62	0.64	0.62	0.63	0.67	0.59	0.62	0.54	0.57	0.55	0.53	0.54	0.61	S	0.64	0.54	0.61	0.62	0.53	0.67	0.61
Dec 3	0.58	0.64	0.61	0.63	0.67	0.64	0.58	0.66	0.59	0.61	0.58	0.53	0.64	0.56	0.55	0.59	0.49	0.56	S	0.66	0.6	0.61	0.66	0.62	0.49	0.67	0.60
Dec 4	0.66	0.62	0.52	0.6	0.57	0.56	0.53	0.6	0.6	0.57	0.54	0.57	0.58	0.66	0.66	0.66	0.64	S	0.74	0.69	0.71	0.71	0.67	0.76	0.52	0.76	0.63
Dec 5	0.74	0.7	0.73	0.67	0.69	0.75	0.67	0.73	0.73	0.76	0.67	0.67	0.7	0.63	0.64	0.7	S	0.69	0.71	0.74	0.66	0.69	0.71	0.71	0.63	0.76	0.70
Dec 6	0.75	0.73	0.71	0.74	0.71	0.77	0.78	0.78	0.72	0.75	0.74	0.61	0.63	0.75	0.8	S	0.8	0.77	0.67	0.72	0.83	0.81	0.85	0.77	0.61	0.85	0.75
Dec 7	0.8	0.69	0.7	0.73	0.69	0.65	0.64	0.66	0.66	0.64	0.67	0.68	0.62	0.63	S	0.68	0.65	0.7	0.68	0.69	0.7	0.76	0.68	0.69	0.62	0.80	0.68
Dec 8	0.69	0.61	0.6	0.62	0.69	0.63	0.66	0.69	0.67	0.58	0.52	0.65	0.68	S	0.7	0.77	0.64	0.71	0.7	0.7	0.63	0.58	0.63	0.6	0.52	0.77	0.65
Dec 9	0.58	0.5	0.59	0.59	0.63	0.63	0.67	0.62	0.63	0.66	0.63	0.65	S	0.73	0.63	0.58	0.57	0.53	0.64	0.6	0.57	0.63	0.63	0.59	0.50	0.73	0.61
Dec 10	0.64	0.65	0.6	0.63	0.58	0.58	0.63	0.61	0.6	0.63	0.66	S	0.71	0.68	0.71	0.64	0.66	0.68	K	0.6	0.64	0.67	0.66	0.71	0.58	0.71	0.64
Dec 11	0.65	0.71	0.75	0.76	0.8	0.78	0.79	0.75	0.74	0.77	S	0.82	0.76	0.77	0.81	0.78	0.83	0.84	0.8	0.85	0.8	0.79	0.75	0.79	0.65	0.85	0.78
Dec 12	0.75	0.78	0.78	0.77	0.78	0.74	0.74	0.78	0.76	S	0.79	0.75	0.82	0.77	0.73	0.72	0.72	0.78	0.68	0.72	0.71	0.74	0.67	0.65	0.65	0.82	0.74
Dec 13	0.69	0.69	0.66	0.71	0.7	0.64	0.67	0.66	S	0.65	0.57	0.61	0.54	0.63	0.59	0.63	0.66	0.61	0.66	0.65	0.65	0.61	0.59	0.62	0.54	0.71	0.64
Dec 14	0.66	0.66	0.65	0.65	0.64	0.64	0.61	S	0.74	0.69	0.7	0.71	0.76	0.83	0.8	0.73	0.76	0.72	0.72	0.71	0.68	0.72	0.66	0.72	0.61	0.83	0.70
Dec 15	0.67	0.67	0.67	0.67	0.65	0.66	S	0.76	0.75	0.71	0.76	0.76	0.78	0.77	0.8	0.79	0.83	0.87	0.84	0.81	0.81	0.84	0.79	0.86	0.65	0.87	0.76
Dec 16	0.88	0.83	0.81	0.86	0.88	S	0.9	0.89	0.83	0.73	0.83	0.81	0.88	0.83	0.8	0.76	0.79	0.77	0.79	0.77	0.75	0.65	0.65	0.72	0.65	0.90	**0.80**
Dec 17	0.69	0.65	0.62	0.64	S	0.69	0.66	0.66	0.65	0.68	0.81	0.74	0.71	0.68	0.66	0.69	0.62	0.66	0.68	0.77	0.86	0.73	0.71	0.73	0.62	0.86	0.70
Dec 18	0.68	0.69	0.72	S	0.75	0.72	0.65	0.71	0.71	0.73	0.74	0.73	0.71	0.72	0.73	0.79	C	C	C	C	C	0.86	0.73	0.67	0.65	0.86	0.72
Dec 19	0.66	0.75	S	0.85	0.75	0.68	0.68	0.74	0.67	0.59	0.71	0.6	0.65	0.64	0.54	0.6	0.66	0.62	0.65	0.66	0.66	0.6	0.6	0.6	0.54	0.85	0.66
Dec 20	0.63	S	0.71	0.68	0.64	0.64	0.65	0.65	0.69	0.74	0.75	0.8	0.69	0.78	0.77	0.78	0.75	0.82	0.78	0.83	0.79	0.87	0.83	0.85	0.63	0.87	0.74
Dec 21	S	0.81	0.8	0.78	0.76	0.74	0.7	0.63	0.65	0.66	0.73	0.78	0.77	0.72	0.69	0.7	0.69	0.66	0.65	0.53	0.57	0.63	0.6	S	0.53	0.81	0.69
Dec 22	0.7	0.65	0.65	0.72	0.64	0.64	0.59	0.72	0.61	0.64	0.63	0.7	0.62	0.64	0.63	0.72	0.75	0.68	0.7	0.71	0.72	0.63	S	0.74	0.59	0.75	0.67
Dec 23	0.7	0.68	0.79	0.74	0.68	0.74	0.69	0.7	0.66	0.65	0.74	0.81	0.74	0.74	0.71	0.76	0.78	0.74	0.76	0.85	0.87	S	0.77	0.8	0.65	0.87	0.74
Dec 24	0.83	0.81	0.8	0.78	0.73	0.7	0.75	0.69	0.67	0.66	0.64	0.67	0.8	0.78	0.78	0.78	0.79	0.75	0.73	0.7	S	0.82	0.71	0.8	0.64	0.83	0.75
Dec 25	0.79	0.76	0.72	0.69	0.69	0.7	0.71	0.69	0.68	0.69	0.69	0.69	0.71	0.64	0.67	0.6	0.67	0.62	0.65	S	0.77	0.69	0.71	0.75	0.60	0.79	0.69
Dec 26	0.8	0.82	0.75	0.73	0.79	0.8	0.72	0.69	0.67	0.8	0.74	0.76	0.75	0.69	0.75	0.7	0.7	0.72	S	0.76	0.75	0.71	0.72	0.76	0.67	0.82	0.74
Dec 27	0.7	0.73	0.78	0.75	0.85	0.87	0.85	0.85	0.84	0.82	0.83	0.77	0.74	0.81	0.7	0.74	0.72	S	0.7	0.73	0.77	0.74	0.7	0.67	0.67	0.87	0.77
Dec 28	0.67	0.65	0.69	0.67	0.71	0.61	0.68	0.75	0.72	0.7	0.68	0.71	0.69	0.72	0.77	0.76	S	0.81	0.75	0.76	0.73	0.71	0.73	0.65	0.61	0.81	0.71
Dec 29	0.71	0.68	0.67	0.72	0.71	0.61	0.62	0.68	0.73	0.63	0.62	0.67	0.68	0.59	0.59	S	0.63	0.65	0.64	0.59	0.52	0.6	0.58	0.63	0.52	0.73	0.64
Dec 30	0.59	0.6	0.61	0.62	0.69	0.67	0.64	0.62	0.66	0.78	0.66	0.7	0.68	0.65	S	0.76	0.71	0.63	0.66	0.65	0.68	0.62	0.77	0.71	0.59	0.78	0.67
Dec 31	0.64	0.62	0.58	0.57	0.54	0.59	0.55	0.49	0.59	0.52	0.51	0.46	0.46	S	0.55	0.59	0.48	0.51	0.56	0.54	0.55	0.55	0.66	0.67	0.46	0.67	0.56
Diurnal Maximum	0.88	0.83	0.81	0.86	0.88	0.87	0.90	0.89	0.84	0.99	0.94	0.82	0.88	0.83	0.81	0.79	0.83	0.87	0.84	0.85	0.87	0.87	0.85	0.86			
Diurnal Average	0.69	0.69	0.69	0.70	0.70	0.68	0.68	0.70	0.69	0.69	0.69	0.69	0.69	0.70	0.69	0.70	0.69	0.69	0.70	0.70	0.70	0.70	0.69	0.71			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

842-B Station - December 2024

Summary of 30-Minute Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Guideline (AAAQG) for TRS: 30-minute 5 ppb

Number of 30-Minute Exceedances: 0

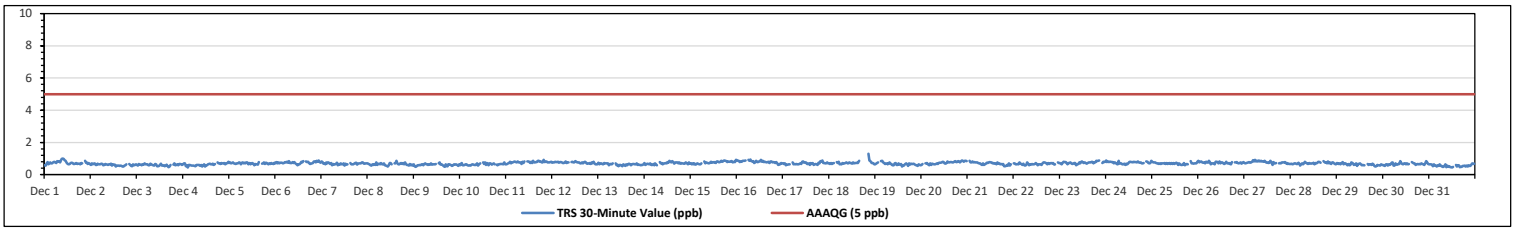
Maximum 30-Minute Value:	1.29 ppb	on Dec 18 at 20:30	# of Instrument in Service	1488
Maximum Daily Value:	0.80 ppb	on Dec 16	# of Valid Measurements	1414
Minimum 30-Minute Value:	0.44 ppb	Dec 31 at 12:00	# of Missing Measurements:	1
Minimum Daily Value:	0.56 ppb	on Dec 31	# of Calibration:	73
Monthly Average:	0.69 ppb		Operational Uptime:	99.9

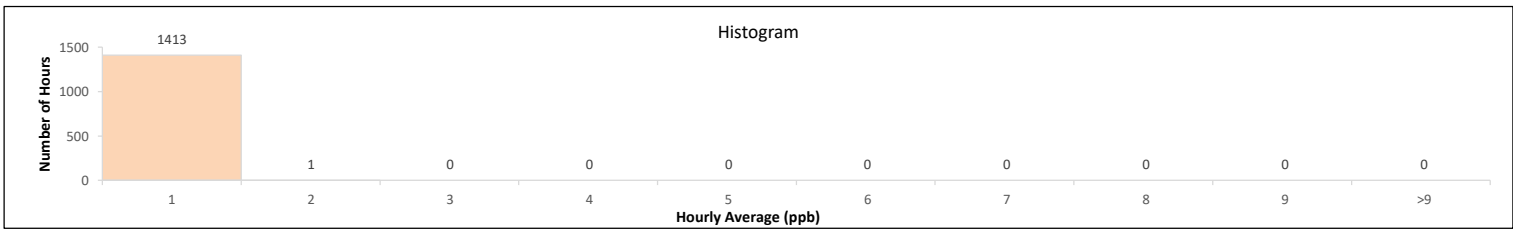
30-Minute Period Starting at (MST)	Dec 1	Dec 2	Dec 3	Dec 4	Dec 5	Dec 6	Dec 7	Dec 8	Dec 9	Dec 10	Dec 11	Dec 12	Dec 13	Dec 14	Dec 15	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28	Dec 29	Dec 30	Dec 31	Diurnal Maximum	Diurnal Average
00:00	0.58	0.61	0.6	0.63	0.72	0.71	0.82	0.71	0.64	0.59	0.64	0.74	0.74	0.73	0.69	0.9	0.7	0.69	0.64	0.61	S	0.7	0.72	0.88	0.81	0.85	0.72	0.67	0.72	0.6	0.65	0.90	0.70
00:30	0.56	0.71	0.57	0.69	0.76	0.78	0.78	0.67	0.52	0.68	0.66	0.77	0.65	0.6	0.65	0.85	0.67	0.67	0.68	0.66	S	0.7	0.68	0.78	0.77	0.75	0.69	0.68	0.71	0.57	0.64	0.85	0.69
01:00	0.7	0.64	0.66	0.71	0.69	0.69	0.68	0.64	0.49	0.72	0.7	0.77	0.69	0.64	0.69	0.87	0.71	0.72	0.72	S	0.85	0.65	0.63	0.83	0.76	0.8	0.72	0.64	0.67	0.54	0.63	0.87	0.70
01:30	0.78	0.68	0.62	0.53	0.72	0.76	0.69	0.59	0.52	0.58	0.72	0.8	0.69	0.68	0.64	0.79	0.59	0.67	0.77	S	0.76	0.64	0.74	0.79	0.76	0.83	0.74	0.67	0.7	0.65	0.62	0.83	0.69
02:00	0.65	0.71	0.62	0.59	0.77	0.69	0.65	0.56	0.59	0.59	0.81	0.78	0.67	0.66	0.71	0.82	0.62	0.71	S	0.7	0.77	0.67	0.8	0.8	0.73	0.76	0.76	0.69	0.65	0.65	0.53	0.82	0.69
02:30	0.68	0.61	0.59	0.45	0.69	0.74	0.75	0.64	0.59	0.61	0.7	0.79	0.65	0.64	0.62	0.8	0.62	0.73	S	0.71	0.83	0.64	0.78	0.8	0.7	0.74	0.79	0.69	0.7	0.57	0.63	0.83	0.68
03:00	0.77	0.6	0.64	0.61	0.68	0.74	0.71	0.6	0.6	0.64	0.77	0.81	0.72	0.69	0.63	0.86	0.65	S	0.84	0.72	0.77	0.75	0.78	0.79	0.71	0.76	0.74	0.67	0.78	0.65	0.56	0.86	0.71
03:30	0.69	0.68	0.62	0.6	0.66	0.74	0.75	0.65	0.58	0.63	0.76	0.74	0.7	0.61	0.71	0.86	0.63	S	0.86	0.65	0.79	0.68	0.7	0.78	0.67	0.71	0.75	0.67	0.65	0.6	0.57	0.86	0.69
04:00	0.69	0.63	0.69	0.59	0.7	0.7	0.73	0.61	0.63	0.58	0.78	0.78	0.69	0.61	0.67	0.86	S	0.79	0.77	0.58	0.76	0.67	0.64	0.7	0.7	0.8	0.8	0.74	0.7	0.63	0.5	0.86	0.69
04:30	0.75	0.63	0.64	0.56	0.69	0.72	0.66	0.77	0.63	0.57	0.82	0.78	0.7	0.66	0.63	0.89	S	0.72	0.73	0.7	0.76	0.61	0.73	0.75	0.67	0.79	0.9	0.67	0.71	0.74	0.59	0.90	0.71
05:00	0.8	0.64	0.64	0.56	0.77	0.78	0.72	0.6	0.59	0.59	0.79	0.77	0.7	0.59	0.63	S	0.75	0.8	0.67	0.6	0.76	0.68	0.72	0.73	0.71	0.74	0.83	0.57	0.63	0.77	0.55	0.83	0.69
05:30	0.76	0.68	0.64	0.57	0.74	0.75	0.58	0.66	0.67	0.56	0.77	0.72	0.58	0.69	0.69	S	0.64	0.64	0.68	0.68	0.73	0.59	0.76	0.67	0.7	0.85	0.91	0.65	0.59	0.57	0.64	0.91	0.68
06:00	0.73	0.66	0.58	0.55	0.63	0.81	0.66	0.68	0.7	0.62	0.83	0.72	0.67	0.64	S	0.93	0.67	0.67	0.71	0.66	0.71	0.57	0.71	0.65	0.7	0.79	0.83	0.71	0.66	0.57	0.55	0.93	0.69
06:30	0.84	0.58	0.58	0.52	0.72	0.74	0.62	0.63	0.64	0.64	0.76	0.77	0.67	0.59	S	0.87	0.65	0.63	0.64	0.64	0.69	0.61	0.67	0.86	0.72	0.65	0.87	0.65	0.58	0.71	0.54	0.87	0.68
07:00	0.81	0.61	0.68	0.6	0.76	0.84	0.64	0.73	0.64	0.62	0.76	0.83	0.64	S	0.83	0.94	0.67	0.73	0.7	0.63	0.64	0.76	0.68	0.68	0.66	0.69	0.82	0.69	0.61	0.62	0.49	0.94	0.70
07:30	0.84	0.66	0.64	0.6	0.71	0.72	0.67	0.64	0.61	0.61	0.75	0.73	0.69	S	0.7	0.84	0.64	0.68	0.77	0.66	0.61	0.68	0.72	0.7	0.72	0.69	0.89	0.81	0.75	0.62	0.49	0.89	0.69
08:00	0.77	0.63	0.6	0.6	0.74	0.72	0.74	0.64	0.65	0.61	0.67	0.76	S	0.79	0.75	0.83	0.64	0.71	0.66	0.71	0.69	0.58	0.72	0.71	0.66	0.69	0.82	0.74	0.74	0.67	0.55	0.83	0.69
08:30	0.86	0.62	0.58	0.6	0.71	0.72	0.59	0.7	0.62	0.6	0.81	0.76	S	0.69	0.74	0.84	0.66	0.72	0.67	0.67	0.61	0.63	0.59	0.63	0.71	0.64	0.86	0.7	0.71	0.66	0.63	0.86	0.68
09:00	0.99	0.6	0.56	0.54	0.77	0.78	0.66	0.59	0.69	0.69	0.72	S	0.71	0.73	0.72	0.72	0.69	0.75	0.59	0.73	0.64	0.62	0.63	0.65	0.72	0.81	0.82	0.67	0.61	0.84	0.47	0.99	0.69
09:30	1	0.65	0.66	0.6	0.75	0.72	0.62	0.57	0.62	0.57	0.82	S	0.59	0.65	0.7	0.75	0.66	0.7	0.59	0.74	0.68	0.66	0.67	0.68	0.66	0.8	0.82	0.72	0.65	0.72	0.56	1.00	0.69
10:00	0.98	0.65	0.63	0.51	0.63	0.79	0.7	0.54	0.63	0.63	S	0.79	0.62	0.71	0.72	0.87	0.81	0.71	0.7	0.74	0.74	0.63	0.77	0.6	0.72	0.79	0.8	0.69	0.69	0.67	0.49	0.98	0.70
10:30	0.9	0.68	0.52	0.58	0.72	0.69	0.64	0.5	0.64	0.69	S	0.8	0.53	0.7	0.8	0.79	0.82	0.77	0.72	0.77	0.73	0.63	0.71	0.68	0.66	0.7	0.86	0.68	0.55	0.65	0.53	0.90	0.69
11:00	0.86	0.56	0.53	0.64	0.65	0.63	0.65	0.58	0.64	S	0.82	0.75	0.61	0.72	0.74	0.79	0.74	0.72	0.6	0.81	0.77	0.67	0.79	0.64	0.73	0.83	0.8	0.71	0.67	0.7	0.46	0.86	0.69
11:30	0.73	0.63	0.54	0.51	0.69	0.58	0.71	0.72	0.66	S	0.83	0.76	0.61	0.7	0.78	0.83	0.75	0.73	0.6	0.78	0.79	0.73	0.82	0.71	0.66	0.69	0.74	0.71	0.67	0.71	0.46	0.83	0.69
12:00	0.67	0.61	0.6	0.58	0.73	0.63	0.56	0.72	S	0.76	0.81	0.84	0.56	0.78	0.77	0.83	0.76	0.68	0.69	0.7	0.77	0.67	0.77	0.79	0.69	0.76	0.76	0.74	0.71	0.64	**0.44**	0.84	0.70
12:30	0.65	0.62	0.68	0.59	0.67	0.63	0.68	0.64	S	0.67	0.72	0.81	0.53	0.74	0.79	0.93	0.67	0.75	0.62	0.68	0.77	0.58	0.72	0.81	0.74	0.75	0.72	0.64	0.64	0.71	0.48	0.93	0.69
13:00	0.66	0.51	0.56	0.65	0.59	0.7	0.62	S	0.69	0.76	0.8	0.76	0.64	0.86	0.73	0.81	0.66	0.71	0.62	0.73	0.71	0.64	0.75	0.79	0.69	0.7	0.74	0.73	0.58	0.64	S	0.86	0.69
13:30	0.72	0.57	0.56	0.66	0.67	0.8	0.64	S	0.77	0.61	0.73	0.77	0.61	0.81	0.82	0.85	0.71	0.73	0.66	0.82	0.73	0.64	0.72	0.78	0.6	0.67	0.87	0.71	0.6	0.67	S	0.87	0.71
14:00	0.74	0.56	0.59	0.68	0.64	0.77	S	0.71	0.62	0.73	0.85	0.75	0.55	0.76	0.82	0.79	0.61	0.73	0.51	0.76	0.68	0.65	0.68	0.75	0.7	0.7	0.78	0.74	0.59	S	0.6	0.85	0.69
14:30	0.73	0.57	0.52	0.64	0.63	0.84	S	0.69	0.64	0.7	0.76	0.71	0.63	0.84	0.78	0.81	0.72	0.74	0.57	0.77	0.7	0.6	0.73	0.81	0.64	0.8	0.61	0.8	0.59	S	0.5	0.84	0.69
15:00	0.66	0.55	0.56	0.64	0.62	S	0.72	0.85	0.6	0.59	0.77	0.69	0.59	0.78	0.77	0.78	0.67	0.72	0.57	0.78	0.64	0.7	0.75	0.78	0.6	0.69	0.79	0.78	S	0.78	0.59	0.85	0.69
15:30	0.66	0.56	0.62	0.68	0.78	S	0.65	0.69	0.55	0.69	0.78	0.76	0.67	0.68	0.81	0.75	0.72	0.86	0.63	0.78	0.76	0.75	0.77	0.79	0.6	0.71	0.7	0.74	S	0.74	0.58	0.86	0.71
16:00	0.68	0.55	0.52	0.6	S	0.82	0.65	0.65	0.49	0.7	0.78	0.69	0.68	0.76	0.87	0.78	0.6	C	0.69	0.75	0.68	0.76	0.76	0.76	0.62	0.73	0.71	S	0.66	0.71	0.47	0.87	0.68
16:30	0.72	0.5	0.46	0.67	S	0.78	0.65	0.63	0.65	0.62	0.87	0.75	0.64	0.75	0.8	0.81	0.64	C	0.63	0.75	0.7	0.74	0.8	0.83	0.73	0.66	0.73	S	0.6	0.7	0.48	0.87	0.69
17:00	0.66	0.51	0.51	S	0.68	0.81	0.68	0.7	0.53	0.66	0.87	0.8	0.59	0.75	0.85	0.72	0.67	C	0.54	0.81	0.65	0.71	0.79	0.76	0.59	0.65	S	0.84	0.64	0.61	0.48	0.87	0.68
17:30	0.68	0.57	0.6	S	0.71	0.73	0.72	0.72	0.52	0.7	0.81	0.76	0.63	0.7	0.89	0.82	0.64	C	0.71	0.84	0.67	0.65	0.7	0.74	0.65	0.79	S	0.79	0.65	0.65	0.54	0.89	0.70
18:00	0.68	0.58	S	0.76	0.75	0.66	0.74	0.67	0.64	0.64	0.83	0.68	0.66	0.75	0.85	0.82	0.61	C	0.62	0.79	0.65	0.73	0.77	0.76	0.67	S	0.69	0.74	0.6	0.67	0.54	0.85	0.70
18:30	0.63	0.63	S	0.71	0.66	0.68	0.62	0.73	0.64	K	0.77	0.68	0.67	0.68	0.84	0.76	0.74	C	0.68	0.78	0.66	0.67	0.75	0.71	0.63	S	0.72	0.76	0.68	0.65	0.57	0.84	0.69
19:00	0.73	S	0.62	0.7	0.74	0.71	0.68	0.65	0.62	0.62	0.77	0.71	0.65	0.72	0.79	0.79	0.69	C	0.66	0.84	0.52	0.7	0.85	0.69	S	0.76	0.69	0.7	0.63	0.66	0.51	0.85	0.69
19:30	0.69	S	0.71	0.67	0.73	0.73	0.71	0.76	0.59	0.58	0.93	0.73	0.65	0.69	0.83	0.75	0.84	C	0.67	0.82	0.53	0.73	0.84	0.72	S	0.77	0.76	0.83	0.55	0.63	0.57	0.93	0.71
20:00	S	0.66	0.59	0.73	0.68	0.82	0.71	0.64	0.55	0.64	0.79	0.67	0.7	0.69	0.81	0.72	0.83	C	0.68	0.76	0.54	0.7	0.87	S	0.84	0.78	0.77	0.7	0.51	0.7	0.51	0.87	0.70
20:30	S	0.61	0.6	0.69	0.63	0.83	0.69	0.61	0.58	0.64	0.8	0.76	0.6	0.68	0.81	0.79	0.88	**1.29**	0.63	0.82	0.6	0.73	0.88	S	0.69	0.73	0.77	0.76	0.53	0.66	0.59	1.29	0.72
21:00	0.85	0.54	0.64	0.7	0.71	0.77	0.76	0.6	0.63	0.67	0.83	0.69	0.62	0.68	0.84	0.69	0.73	0.89	0.61	0.88	0.57	0.62	S	0.83	0.7	0.71	0.79	0.67	0.61	0.63	0.54	0.89	0.70
21:30	0.74	0.53	0.59	0.73	0.67	0.85	0.75	0.56	0.62	0.66	0.75	0.8	0.61	0.76	0.84	0.61	0.73	0.82	0.58	0.87	0.69	0.63	S	0.8	0.68	0.72	0.7	0.75	0.59	0.6	0.55	0.87	0.69
22:00	0.76	0.63	0.66	0.64	0.73	0.81	0.68	0.67	0.65	0.67	0.75	0.71	0.58	0.69	0.77	0.67	0.71	0.73	0.55	0.81	0.57	S	0.73	0.72	0.7	0.76	0.73	0.75	0.58	0.7	0.62	0.81	0.69
22:30	0.66	0.59	0.66	0.69	0.68	0.88	0.68	0.59	0.6	0.64	0.75	0.64	0.6	0.63	0.81	0.63	0.71	0.73	0.65	0.86	0.63	S	0.8	0.7	0.71	0.68	0.67	0.71	0.57	0.84	0.7	0.88	0.69
23:00	0.73	0.6	0.64	0.72	0.67	0.8	0.69	0.62	0.55	0.76	0.78	0.65	0.6	0.76	0.79	0.72	0.75	0.71	0.61	0.85	S	0.76	0.79	0.72	0.7	0.74	0.68	0.67	0.65	0.76	0.67	0.85	0.70
23:30	0.67	0.63	0.61	0.8	0.74	0.74	0.69	0.57	0.63	0.65	0.8	0.65	0.65	0.68	0.92	0.71	0.71	0.64	0.59	0.84	S	0.72	0.81	0.87	0.8	0.79	0.67	0.64	0.61	0.67	0.68	0.92	0.71
Minimum	0.56	0.5	0.46	0.45	0.59	0.58	0.56	0.5	0.49	0.56	0.64	0.64	0.53	0.59	0.62	0.61	0.59	0.63	0.51	0.58	0.52	0.57	0.59	0.6	0.59	0.64	0.61	0.57	0.51	0.54	**0.44**		
Maximum	1	0.71	0.71	0.8	0.78	0.88	0.82	0.85	0.77	0.76	0.93	0.84	0.74	0.86	0.92	0.94	0.88	**1.29**	0.86	0.88	0.85	0.76	0.88	0.88	0.84	0.85	0.91	0.84	0.78	0.84	0.7		
Average	0.74	0.61	0.6	0.63	0.7	0.75	0.68	0.65	0.61	0.64	0.78	0.75	0.64	0.7	0.76	**0.8**	0.7	0.74	0.66	0.74	0.69	0.67	0.74	0.75	0.7	0.74	0.77	0.71	0.64	0.67	0.56		

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



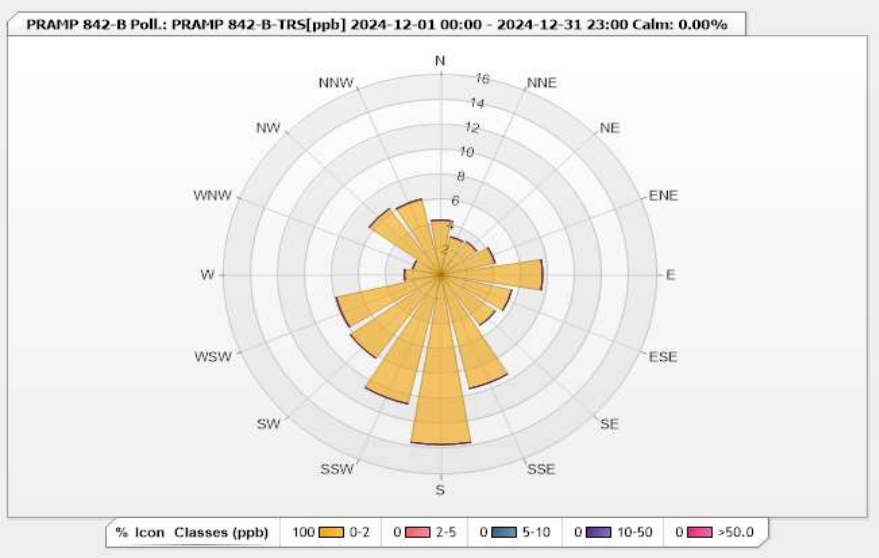


Station: PRAMP 842-B Poll.: PRAMP 842-B-TRS[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.39	0	0	0	0	4.39
NNE	3.12	0	0	0	0	3.12
NE	3.26	0	0	0	0	3.26
ENE	4.11	0	0	0	0	4.11
E	7.51	0	0	0	0	7.51
ESE	5.38	0	0	0	0	5.38
SE	4.96	0	0	0	0	4.96
SSE	9.35	0	0	0	0	9.35
S	13.6	0	0	0	0	13.6
SSW	10.62	0	0	0	0	10.62
SW	8.22	0	0	0	0	8.22
WSW	7.93	0	0	0	0	7.93
W	2.69	0	0	0	0	2.69
WNW	2.12	0	0	0	0	2.12
NW	6.52	0	0	0	0	6.52
NNW	6.23	0	0	0	0	6.23
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

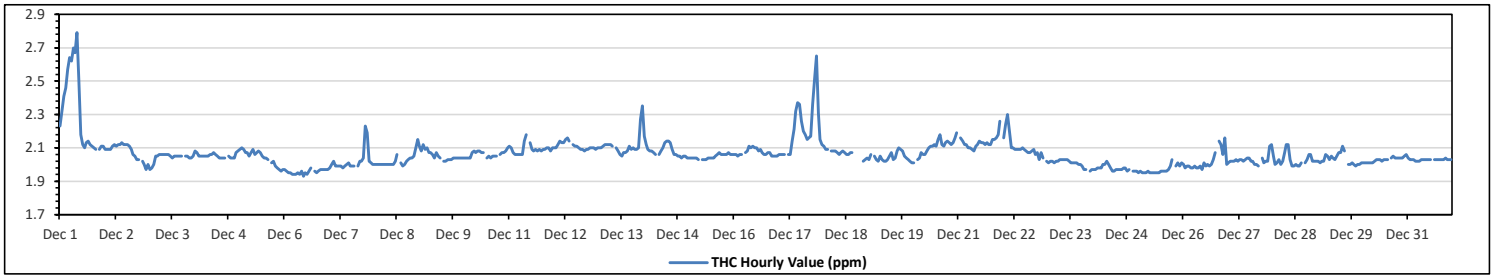
TOTAL HYDROCARBONS (THC) in ppm

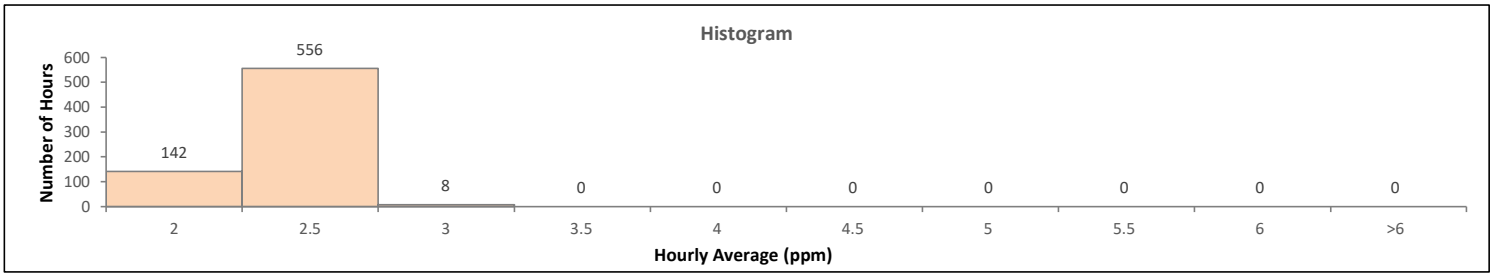
Maximum Hourly Value:	2.79	ppm	on Dec 1 at hr 9	Hours in Service:	744	
Maximum Daily Value:	2.32	ppm	on Dec 1	Hours of Data:	706	
Minimum Hourly Value:	1.93	ppm	on Dec 6 at hr 10	Hours of Missing Data:	1	
Minimum Daily Value:	1.96	ppm	on Dec 6	Hours of Calibration:	37	
Monthly Average:	2.06	ppm		Operational Uptime:	99.9	

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			
Dec 1	2.23	2.32	2.41	2.46	2.57	2.64	2.62	2.70	2.67	**2.79**	2.50	2.18	2.12	2.10	2.13	2.14	2.12	2.11	2.10	2.09	S	2.09	2.11	2.11	2.09	**2.79**	**2.32**
Dec 2	2.09	2.09	2.09	2.09	2.11	2.12	2.11	2.12	2.12	2.13	2.12	2.12	2.12	2.11	2.09	2.06	2.05	2.03	2.03	S	2.02	2.00	1.97	2.00	1.97	2.13	2.08
Dec 3	1.97	1.98	2.00	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.05	2.05	2.05	2.05	S	2.05	2.05	2.04	2.04	2.05	1.97	2.06	2.04
Dec 4	2.08	2.07	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.06	2.07	2.06	2.05	2.04	2.04	2.04	2.04	S	2.05	2.04	2.04	2.04	2.07	2.08	2.04	2.08	2.05
Dec 5	2.09	2.10	2.09	2.07	2.07	2.05	2.07	2.09	2.06	2.07	2.08	2.07	2.05	2.04	2.04	2.03	S	2.01	2.02	1.99	1.98	1.97	1.96	1.97	1.96	2.10	2.04
Dec 6	1.97	1.96	1.95	1.95	1.94	1.94	1.94	1.95	1.94	1.96	1.93	1.95	1.94	1.96	1.98	S	1.96	1.95	1.96	1.97	1.97	1.97	1.97	1.97	1.93	1.98	1.96
Dec 7	1.98	2.00	2.02	1.99	1.99	1.99	1.99	1.98	1.99	2.00	2.01	1.99	1.99	1.99	S	1.99	2.02	2.02	2.04	2.23	2.19	2.02	2.01	2.00	1.98	2.23	2.02
Dec 8	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.06	S	2.01	1.99	2.00	2.02	2.03	2.04	2.04	2.05	2.10	2.15	1.99	2.15	2.02
Dec 9	2.11	2.08	2.12	2.09	2.10	2.07	2.07	2.06	2.04	2.07	2.05	2.04	S	2.02	2.02	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.02	2.12	2.06
Dec 10	2.04	2.04	2.04	2.04	2.07	2.08	2.07	2.08	2.08	2.07	2.07	S	2.04	2.05	2.04	2.05	2.05	2.05	K	2.06	2.07	2.07	2.08	2.10	2.04	2.10	2.06
Dec 11	2.11	2.10	2.07	2.06	2.06	2.06	2.06	2.06	2.14	2.18	S	2.13	2.09	2.08	2.09	2.08	2.09	2.08	2.09	2.09	2.10	2.10	2.08	2.10	2.06	2.18	2.09
Dec 12	2.10	2.10	2.12	2.14	2.13	2.13	2.15	2.16	2.14	S	2.12	2.11	2.11	2.10	2.09	2.09	2.08	2.09	2.09	2.10	2.10	2.10	2.09	2.10	2.08	2.16	2.11
Dec 13	2.10	2.10	2.11	2.12	2.12	2.12	2.12	2.11	S	2.10	2.08	2.06	2.05	2.07	2.07	2.08	2.11	2.09	2.10	2.09	2.09	2.10	2.27	2.35	2.05	2.35	2.11
Dec 14	2.17	2.12	2.09	2.08	2.08	2.07	2.06	S	2.06	2.08	2.10	2.13	2.14	2.14	2.13	2.09	2.06	2.06	2.05	2.05	2.04	2.05	2.05	2.04	2.04	2.17	2.08
Dec 15	2.04	2.04	2.04	2.04	2.04	2.03	S	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.06	2.07	2.06	2.06	2.06	2.06	2.07	2.06	2.06	2.03	2.07	2.05
Dec 16	2.06	2.06	2.05	2.06	2.06	S	2.07	2.08	2.11	2.10	2.11	2.10	2.10	2.08	2.09	2.07	2.06	2.06	2.07	2.07	2.05	2.05	2.05	2.05	2.05	2.11	2.07
Dec 17	2.06	2.06	2.06	2.06	S	2.06	2.06	2.14	2.21	2.32	2.37	2.36	2.26	2.20	2.18	2.15	2.16	2.17	2.36	2.51	2.65	2.31	2.15	2.12	2.06	2.65	2.22
Dec 18	2.11	2.09	2.09	S	2.08	2.08	2.08	2.07	2.06	2.07	2.08	2.07	2.06	2.06	2.07	2.07	C	C	C	C	C	2.02	2.03	2.04	2.02	2.11	2.07
Dec 19	2.03	2.06	S	2.05	2.03	2.02	2.05	2.03	2.02	2.02	2.03	2.05	2.07	2.03	2.04	2.08	2.10	2.09	2.08	2.05	2.04	2.03	2.02	2.01	2.01	2.10	2.04
Dec 20	2.01	S	2.03	2.04	2.07	2.06	2.06	2.08	2.10	2.11	2.11	2.12	2.11	2.15	2.18	2.12	2.11	2.13	2.14	2.13	2.12	2.13	2.16	2.19	2.01	2.19	2.11
Dec 21	S	2.16	2.14	2.12	2.12	2.10	2.10	2.09	2.08	2.11	2.12	2.14	2.13	2.13	2.12	2.13	2.12	2.12	2.15	2.15	2.16	2.18	2.26	S	2.08	2.26	2.13
Dec 22	2.16	2.24	2.30	2.20	2.10	2.10	2.09	2.09	2.09	2.09	2.10	2.09	2.08	2.07	2.07	2.08	2.09	2.06	2.07	2.03	2.07	2.04	S	2.02	2.02	2.30	2.10
Dec 23	2.01	2.02	2.02	2.01	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.97	1.97	S	1.96	1.97	1.96	2.03	2.01
Dec 24	1.97	1.97	1.98	1.98	1.98	2.00	2.00	2.02	2.00	1.98	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.96	1.97	S	1.96	1.96	1.96	1.96	2.02	1.98
Dec 25	1.95	1.96	1.95	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.99	2.03	S	1.99	2.01	1.99	2.01	1.95	2.03	1.97
Dec 26	2.00	1.98	1.99	1.99	1.98	1.98	1.99	1.98	1.98	1.99	1.97	2.01	1.99	2.00	1.99	2.00	2.03	2.07	S	2.14	2.12	2.06	2.16	2.00	1.97	2.16	2.02
Dec 27	2.01	2.02	2.02	2.02	2.03	2.02	2.03	2.03	2.02	2.03	2.04	2.04	2.02	2.02	2.00	2.00	1.99	S	2.04	2.01	2.02	2.02	2.11	2.12	1.99	2.12	2.03
Dec 28	2.05	2.00	2.01	2.03	2.00	2.02	2.07	2.12	2.12	2.03	1.99	1.99	2.00	1.99	1.99	2.01	S	2.01	2.03	2.06	2.06	2.02	2.02	2.02	1.99	2.12	2.03
Dec 29	2.02	2.01	2.02	2.02	2.06	2.05	2.03	2.05	2.04	2.03	2.05	2.07	2.07	2.11	2.08	S	2.00	2.00	2.01	2.00	1.99	2.00	2.00	2.01	1.99	2.11	2.03
Dec 30	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.03	2.03	2.03	2.02	2.03	2.03	2.03	S	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.01	2.06	2.03
Dec 31	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.02	2.04	2.03
Diurnal Maximum	2.23	2.32	2.41	2.46	2.57	2.64	2.62	2.70	2.67	2.79	2.50	2.36	2.26	2.20	2.18	2.15	2.16	2.17	2.36	2.51	2.65	2.31	2.27	2.35			
Diurnal Average	2.05	2.06	2.06	2.06	2.06	2.06	2.07	2.08	2.08	2.08	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.05	2.06	2.07	2.08	2.05	2.06	2.06			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.



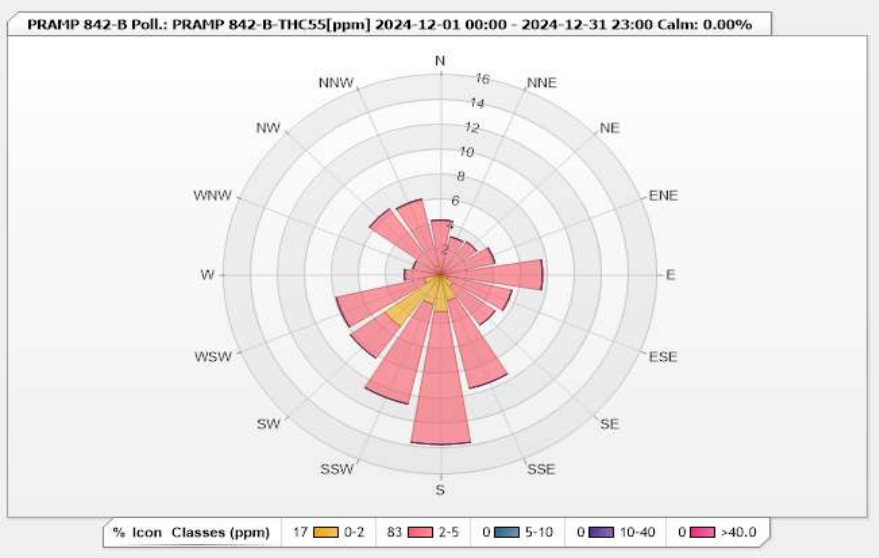


Station: PRAMP 842-B Poll.: PRAMP 842-B-THC55[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	0.14	4.25	0	0	0	4.39
NNE	0	3.12	0	0	0	3.12
NE	0	3.26	0	0	0	3.26
ENE	0.14	3.97	0	0	0	4.11
E	0	7.51	0	0	0	7.51
ESE	0.57	4.82	0	0	0	5.39
SE	1.13	3.82	0	0	0	4.95
SSE	2.12	7.22	0	0	0	9.34
S	2.97	10.62	0	0	0	13.59
SSW	2.41	8.22	0	0	0	10.63
SW	5.1	3.12	0	0	0	8.22
WSW	1.27	6.66	0	0	0	7.93
W	0.28	2.41	0	0	0	2.69
WNW	0.14	1.98	0	0	0	2.12
NW	0.28	6.23	0	0	0	6.51
NNW	0.71	5.52	0	0	0	6.23
Summary	17.26	82.73	0	0	0	100



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

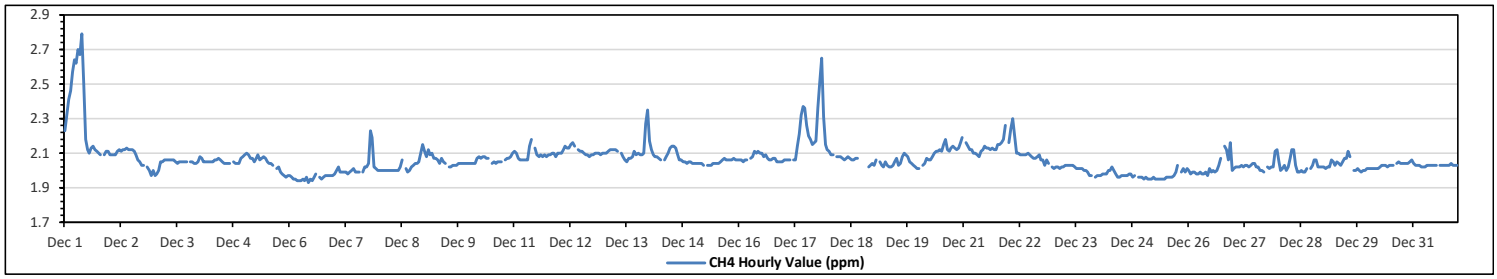
METHANE (CH4) in ppm

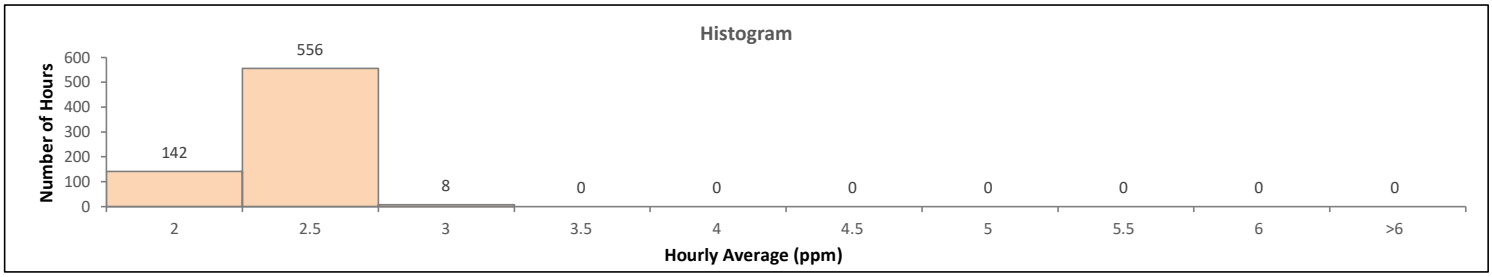
Maximum Hourly Value:	2.79	ppm	on Dec 1 at hr 9	Hours in Service:	744	
Maximum Daily Value:	2.32	ppm	on Dec 1	Hours of Data:	706	
Minimum Hourly Value:	1.93	ppm	on Dec 6 at hr 10	Hours of Missing Data:	1	
Minimum Daily Value:	1.96	ppm	on Dec 6	Hours of Calibration:	37	
Monthly Average:	2.06	ppm		Operational Uptime:	99.9	

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			
Dec 1	2.23	2.32	2.41	2.46	2.57	2.64	2.62	2.70	2.67	**2.79**	2.50	2.18	2.12	2.10	2.13	2.14	2.12	2.11	2.10	2.09	S	2.09	2.11	2.11	2.09	**2.79**	**2.32**
Dec 2	2.09	2.09	2.09	2.09	2.11	2.12	2.11	2.12	2.12	2.13	2.12	2.12	2.12	2.11	2.09	2.06	2.05	2.03	2.03	S	2.02	2.00	1.97	2.00	1.97	2.13	2.08
Dec 3	1.97	1.98	2.00	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.05	2.05	2.05	2.05	S	2.05	2.05	2.04	2.04	2.05	1.97	2.06	2.04
Dec 4	2.08	2.07	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.06	2.07	2.06	2.05	2.04	2.04	2.04	2.04	S	2.05	2.04	2.04	2.04	2.07	2.08	2.04	2.08	2.05
Dec 5	2.09	2.10	2.09	2.07	2.07	2.05	2.07	2.09	2.06	2.07	2.08	2.07	2.05	2.04	2.04	2.03	S	2.01	2.02	1.99	1.98	1.97	1.96	1.97	1.96	2.10	2.04
Dec 6	1.97	1.96	1.95	1.95	1.94	1.94	1.94	1.95	1.94	1.96	1.93	1.95	1.94	1.96	1.98	S	1.96	1.95	1.96	1.97	1.97	1.97	1.97	1.97	1.93	1.98	1.96
Dec 7	1.98	2.00	2.02	1.99	1.99	1.99	1.99	1.98	1.99	2.00	2.01	1.99	1.99	1.99	S	1.99	2.02	2.02	2.04	2.23	2.19	2.02	2.01	2.00	1.98	2.23	2.02
Dec 8	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.06	S	2.01	1.99	2.00	2.02	2.03	2.04	2.04	2.05	2.10	2.15	1.99	2.15	2.02
Dec 9	2.11	2.08	2.12	2.09	2.10	2.07	2.07	2.06	2.04	2.07	2.05	2.04	S	2.02	2.02	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.02	2.12	2.06
Dec 10	2.04	2.04	2.04	2.04	2.07	2.08	2.07	2.08	2.08	2.07	2.07	S	2.04	2.05	2.04	2.05	2.05	2.05	K	2.06	2.07	2.07	2.08	2.10	2.04	2.10	2.06
Dec 11	2.11	2.10	2.07	2.06	2.06	2.06	2.06	2.06	2.14	2.18	S	2.13	2.09	2.08	2.09	2.08	2.09	2.08	2.09	2.09	2.10	2.10	2.08	2.10	2.06	2.18	2.09
Dec 12	2.10	2.10	2.12	2.14	2.13	2.13	2.15	2.16	2.14	S	2.12	2.11	2.11	2.10	2.09	2.09	2.08	2.09	2.09	2.10	2.10	2.10	2.09	2.10	2.08	2.16	2.11
Dec 13	2.10	2.10	2.11	2.12	2.12	2.12	2.12	2.11	S	2.10	2.08	2.06	2.05	2.07	2.07	2.08	2.11	2.09	2.10	2.09	2.09	2.10	2.27	2.35	2.05	2.35	2.11
Dec 14	2.17	2.12	2.09	2.08	2.08	2.07	2.06	S	2.06	2.08	2.10	2.13	2.14	2.14	2.13	2.09	2.06	2.06	2.05	2.05	2.04	2.05	2.05	2.04	2.04	2.17	2.08
Dec 15	2.04	2.04	2.04	2.04	2.04	2.03	S	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.06	2.07	2.06	2.06	2.06	2.06	2.07	2.06	2.06	2.03	2.07	2.05
Dec 16	2.06	2.06	2.05	2.06	2.06	S	2.07	2.08	2.11	2.10	2.11	2.10	2.10	2.08	2.09	2.07	2.06	2.06	2.07	2.07	2.05	2.05	2.05	2.05	2.05	2.11	2.07
Dec 17	2.06	2.06	2.06	2.06	S	2.06	2.06	2.14	2.21	2.32	2.37	2.36	2.26	2.20	2.18	2.15	2.16	2.17	2.36	2.51	2.65	2.31	2.15	2.12	2.06	2.65	2.22
Dec 18	2.11	2.09	2.09	S	2.08	2.08	2.08	2.07	2.06	2.07	2.08	2.07	2.06	2.06	2.07	2.07	C	C	C	C	C	2.02	2.03	2.04	2.02	2.11	2.07
Dec 19	2.03	2.06	S	2.05	2.03	2.02	2.05	2.03	2.02	2.02	2.03	2.05	2.07	2.03	2.04	2.08	2.10	2.09	2.08	2.05	2.04	2.03	2.02	2.01	2.01	2.10	2.04
Dec 20	2.01	S	2.03	2.04	2.07	2.06	2.06	2.08	2.10	2.11	2.11	2.12	2.11	2.15	2.18	2.12	2.11	2.13	2.14	2.13	2.12	2.13	2.16	2.19	2.01	2.19	2.11
Dec 21	S	2.16	2.14	2.12	2.12	2.10	2.10	2.09	2.08	2.11	2.12	2.14	2.13	2.13	2.12	2.13	2.12	2.12	2.15	2.15	2.16	2.18	2.26	S	2.08	2.26	2.13
Dec 22	2.16	2.24	2.30	2.20	2.10	2.10	2.09	2.09	2.09	2.09	2.10	2.09	2.08	2.07	2.07	2.08	2.09	2.06	2.06	2.03	2.06	2.04	S	2.02	2.02	2.30	2.10
Dec 23	2.01	2.02	2.02	2.01	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.97	1.97	S	1.96	1.97	1.96	2.03	2.01
Dec 24	1.97	1.97	1.98	1.98	1.98	2.00	2.00	2.02	2.00	1.98	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.96	1.97	S	1.96	1.96	1.96	1.96	2.02	1.98
Dec 25	1.95	1.96	1.95	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.99	2.03	S	1.99	2.01	1.99	2.01	1.95	2.03	1.97
Dec 26	2.00	1.98	1.99	1.99	1.98	1.98	1.99	1.98	1.98	1.99	1.97	2.01	1.99	2.00	1.99	2.00	2.03	2.07	S	2.14	2.12	2.06	2.16	2.00	1.97	2.16	2.02
Dec 27	2.01	2.02	2.02	2.02	2.03	2.02	2.03	2.03	2.02	2.03	2.04	2.04	2.02	2.02	2.00	2.00	1.99	S	2.02	2.01	2.02	2.02	2.11	2.12	1.99	2.12	2.03
Dec 28	2.05	2.00	2.01	2.03	2.00	2.02	2.07	2.12	2.12	2.03	1.99	1.99	2.00	1.99	1.99	2.01	S	2.01	2.03	2.06	2.06	2.02	2.02	2.02	1.99	2.12	2.03
Dec 29	2.02	2.01	2.02	2.02	2.06	2.05	2.03	2.05	2.04	2.03	2.05	2.07	2.07	2.11	2.08	S	2.00	2.00	2.01	2.00	1.99	2.00	2.00	2.01	1.99	2.11	2.03
Dec 30	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.03	2.03	2.03	2.02	2.03	2.03	2.03	S	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.01	2.06	2.03
Dec 31	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.02	2.04	2.03
Diurnal Maximum	2.23	2.32	2.41	2.46	2.57	2.64	2.62	2.70	2.67	2.79	2.50	2.36	2.26	2.20	2.18	2.15	2.16	2.17	2.36	2.51	2.65	2.31	2.27	2.35			
Diurnal Average	2.05	2.06	2.06	2.06	2.06	2.06	2.07	2.08	2.08	2.08	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.05	2.06	2.07	2.08	2.05	2.06	2.06			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.



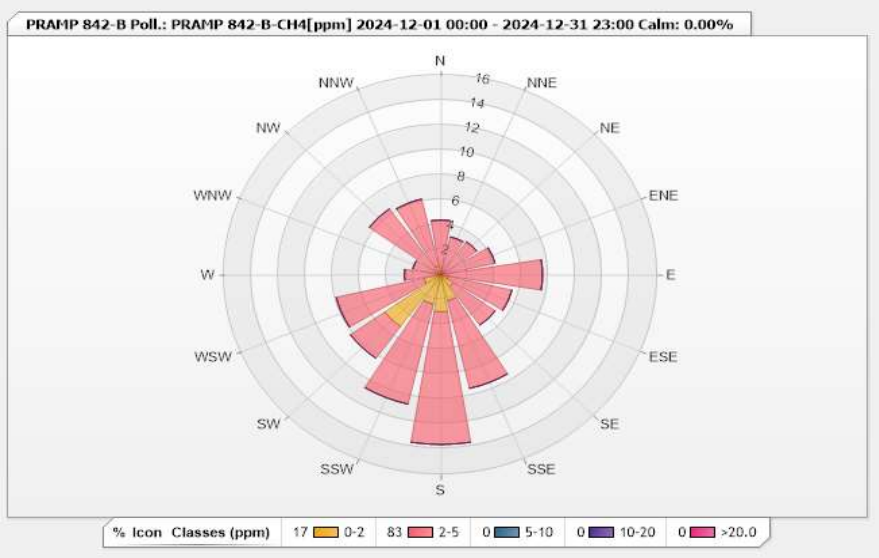


Station: PRAMP 842-B Poll.: PRAMP 842-B-CH4[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	0.14	4.25	0	0	0	4.39
NNE	0	3.12	0	0	0	3.12
NE	0	3.26	0	0	0	3.26
ENE	0.14	3.97	0	0	0	4.11
E	0	7.51	0	0	0	7.51
ESE	0.57	4.82	0	0	0	5.39
SE	1.13	3.82	0	0	0	4.95
SSE	2.12	7.22	0	0	0	9.34
S	2.97	10.62	0	0	0	13.59
SSW	2.41	8.22	0	0	0	10.63
SW	5.1	3.12	0	0	0	8.22
WSW	1.27	6.66	0	0	0	7.93
W	0.28	2.41	0	0	0	2.69
WNW	0.14	1.98	0	0	0	2.12
NW	0.28	6.23	0	0	0	6.51
NNW	0.71	5.52	0	0	0	6.23
Summary	17.26	82.73	0	0	0	100



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

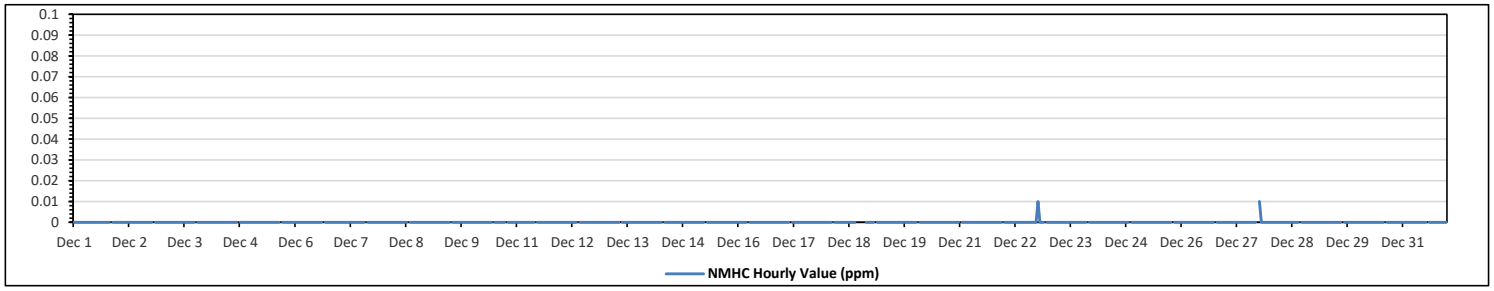
NON-METHANE HYDROCARBONS (NMHC) in ppm

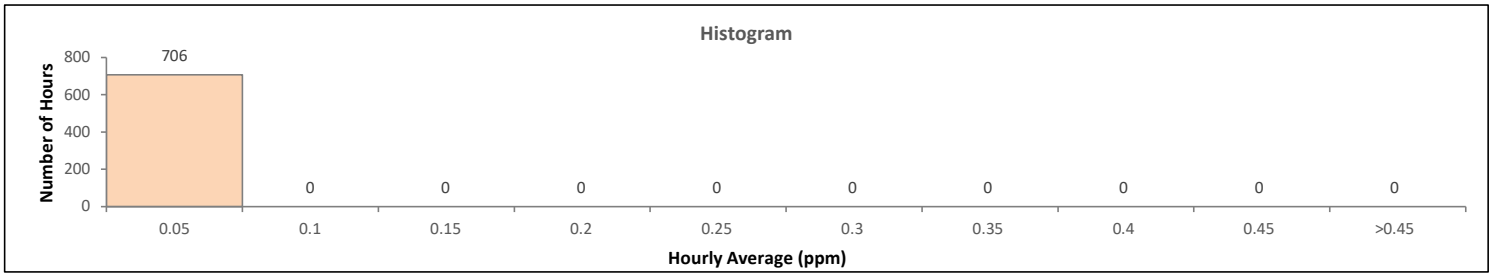
Maximum Hourly Value:	0.01	ppm	on Dec 22 at hr 18	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on Dec 22	Hours of Data:	706
Minimum Hourly Value:	0.00	ppm	on Dec 1 at hr 0	Hours of Missing Data:	1
Minimum Daily Value:	0.00	ppm	on Dec 1	Hours of Calibration:	37
Monthly Average:	0.00	ppm		Operational Uptime:	99.9

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			
Dec 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	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
Dec 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	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
Dec 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	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
Dec 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 11	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
Dec 12	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
Dec 13	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
Dec 14	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
Dec 15	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
Dec 16	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
Dec 17	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
Dec 18	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	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00
Dec 19	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
Dec 20	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
Dec 21	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
Dec 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.01**	0.00	0.00	0.00	S	0.00	0.00	**0.01**	**0.00**
Dec 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Dec 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Dec 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	**0.01**	0.00	0.00	0.00	0.00	0.00	0.00	**0.01**	**0.00**
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	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
Dec 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	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
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	0.01	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			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



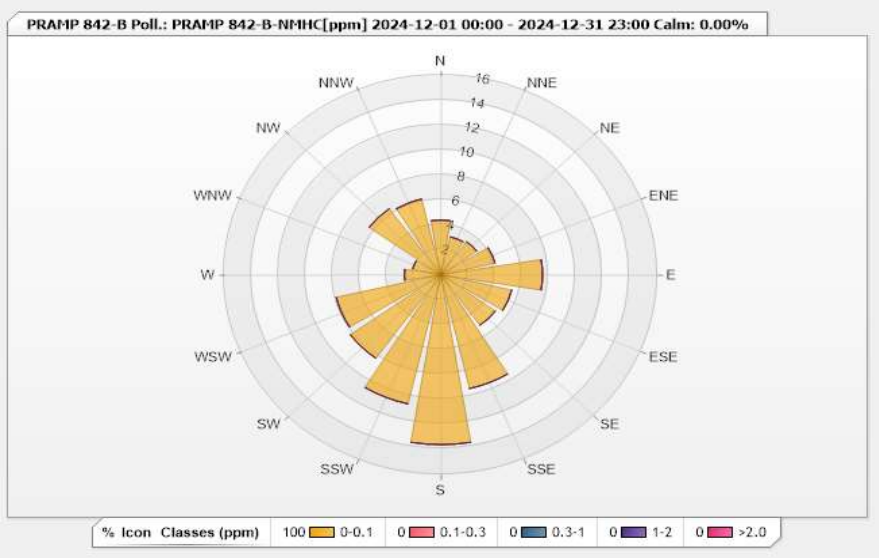


Station: PRAMP 842-B Poll.: PRAMP 842-B-NMHC[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	4.39	0	0	0	0	4.39
NNE	3.12	0	0	0	0	3.12
NE	3.26	0	0	0	0	3.26
ENE	4.11	0	0	0	0	4.11
E	7.51	0	0	0	0	7.51
ESE	5.38	0	0	0	0	5.38
SE	4.96	0	0	0	0	4.96
SSE	9.35	0	0	0	0	9.35
S	13.6	0	0	0	0	13.6
SSW	10.62	0	0	0	0	10.62
SW	8.22	0	0	0	0	8.22
WSW	7.93	0	0	0	0	7.93
W	2.69	0	0	0	0	2.69
WNW	2.12	0	0	0	0	2.12
NW	6.52	0	0	0	0	6.52
NNW	6.23	0	0	0	0	6.23
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

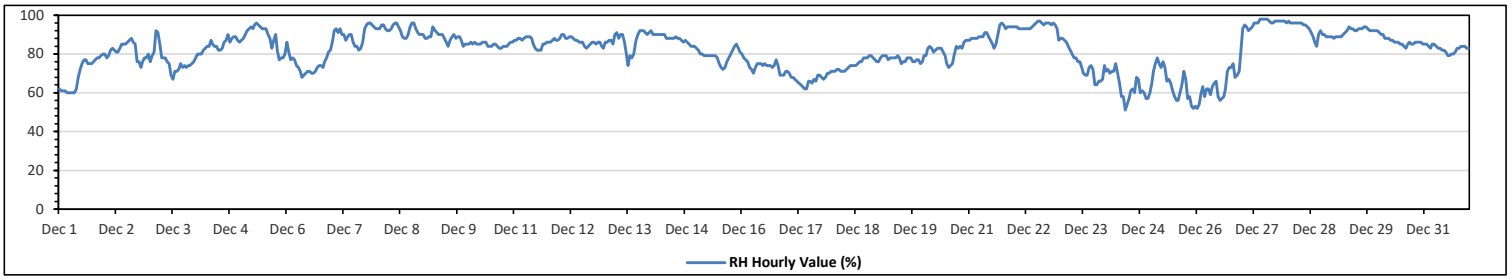
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	98	%	on Dec 27 at hr 9	Hours in Service:	744	
Maximum Daily Value:	96.1	%	on Dec 27	Hours of Data:	744	
Minimum Hourly Value:	51	%	on Dec 24 at hr 10	Hours of Missing Data:	0	
Minimum Daily Value:	63.2	%	on Dec 24	Hours of Calibration:	0	
Monthly Average:	81.7	%		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			
Dec 1	62	61	61	61	60	60	60	60	60	62	68	72	75	77	77	75	75	75	76	77	78	78	79	80	60	80	69.5
Dec 2	80	78	79	82	83	82	81	81	83	85	85	85	86	87	88	86	85	76	76	73	76	78	78	80	73	88	81.4
Dec 3	76	79	81	92	91	85	78	78	78	76	75	69	67	71	71	72	75	73	74	73	74	74	75	76	67	92	76.4
Dec 4	78	80	80	80	82	83	84	84	87	85	84	84	82	82	83	86	87	90	86	88	89	89	87	86	78	90	84.4
Dec 5	87	88	90	92	93	94	93	95	96	95	94	93	93	93	90	88	83	87	90	82	77	78	78	80	77	96	88.7
Dec 6	86	81	77	78	77	74	73	71	68	69	70	71	71	70	70	71	73	74	74	73	76	78	81	82	68	86	74.5
Dec 7	86	92	93	91	93	90	90	87	89	90	90	86	84	84	82	83	86	93	95	96	96	95	94	93	82	96	89.9
Dec 8	93	93	95	95	93	92	92	93	95	96	96	94	92	89	88	88	90	94	96	96	93	91	90	90	88	96	92.7
Dec 9	90	88	88	89	89	94	92	91	90	90	90	88	86	84	87	89	90	88	89	89	87	84	85	85	84	94	88.4
Dec 10	85	86	85	86	85	85	85	86	86	86	84	84	84	85	85	84	83	83	84	84	84	85	86	86	83	86	84.8
Dec 11	87	87	88	88	87	88	89	89	89	88	85	83	82	82	82	85	85	86	86	86	87	88	87	87	82	89	86.3
Dec 12	88	90	90	88	88	89	89	88	87	87	86	86	86	84	83	84	85	86	86	85	86	86	84	83	83	90	86.4
Dec 13	86	86	87	87	85	90	91	88	90	90	86	80	74	79	78	80	87	90	92	92	92	91	90	91	74	92	86.8
Dec 14	92	90	90	90	90	90	90	90	88	88	88	88	88	89	88	88	87	86	87	86	85	84	84	84	84	92	87.9
Dec 15	83	82	80	80	79	79	79	79	79	79	79	78	75	73	72	73	76	78	80	82	84	85	83	81	72	85	79.1
Dec 16	80	78	77	76	73	72	70	73	75	75	75	74	75	74	74	74	73	74	77	74	69	69	69	71	69	80	73.8
Dec 17	71	70	68	68	67	66	65	64	63	62	62	66	66	65	67	66	69	69	68	67	68	70	70	71	62	71	67.0
Dec 18	71	71	72	72	71	71	71	72	73	74	74	74	74	75	76	76	78	78	78	79	79	78	77	76	71	79	74.6
Dec 19	76	78	79	79	79	77	78	78	78	78	79	78	75	76	76	78	78	78	76	76	77	77	75	76	75	79	77.3
Dec 20	79	79	83	84	83	81	82	83	83	83	81	79	75	73	74	75	80	84	83	84	83	86	87	87	73	87	81.3
Dec 21	87	88	88	88	88	89	89	89	91	91	89	87	85	83	85	90	95	96	95	93	94	94	94	94	83	96	90.1
Dec 22	94	94	93	93	93	93	93	93	93	94	95	96	97	97	96	95	96	96	96	95	96	95	93	87	87	97	94.3
Dec 23	88	88	87	86	84	82	80	78	78	76	76	73	70	69	69	73	74	72	64	64	66	66	67	74	64	88	75.2
Dec 24	71	72	70	71	71	75	70	65	58	58	**51**	54	57	61	62	60	68	67	60	61	60	57	57	60	**51**	75	**63.2**
Dec 25	65	71	75	78	75	73	76	73	66	67	65	61	58	56	56	60	64	71	67	57	58	53	52	53	52	78	64.6
Dec 26	52	54	59	63	58	62	62	59	63	65	66	58	56	57	58	62	71	73	73	75	68	69	71	83	52	83	64.0
Dec 27	93	95	94	92	93	94	96	96	96	**98**	**98**	**98**	**98**	**98**	97	96	96	97	97	97	97	97	97	96	92	**98**	**96.1**
Dec 28	97	96	96	96	96	96	96	96	95	95	94	93	91	89	86	84	90	92	90	90	89	89	89	89	84	97	92.3
Dec 29	88	89	89	89	89	90	91	92	94	93	93	92	92	93	93	93	94	94	93	92	92	92	92	92	88	94	91.7
Dec 30	91	90	90	88	88	88	87	87	86	86	86	85	85	84	83	85	86	85	85	86	86	86	86	85	83	91	86.4
Dec 31	85	85	84	83	85	85	84	83	83	82	82	81	79	79	80	80	81	83	83	84	84	84	83	83	79	85	82.7
Diurnal Maximum	97	96	96	96	96	96	96	96	96	98	98	98	98	98	97	96	96	97	97	97	97	97	97	96			
Diurnal Average	82.2	82.5	82.8	83.4	82.8	82.9	82.5	82.0	81.9	82.0	81.5	80.3	79.3	79.3	79.2	80.0	81.9	82.8	82.5	81.8	81.6	81.5	81.3	82.0			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

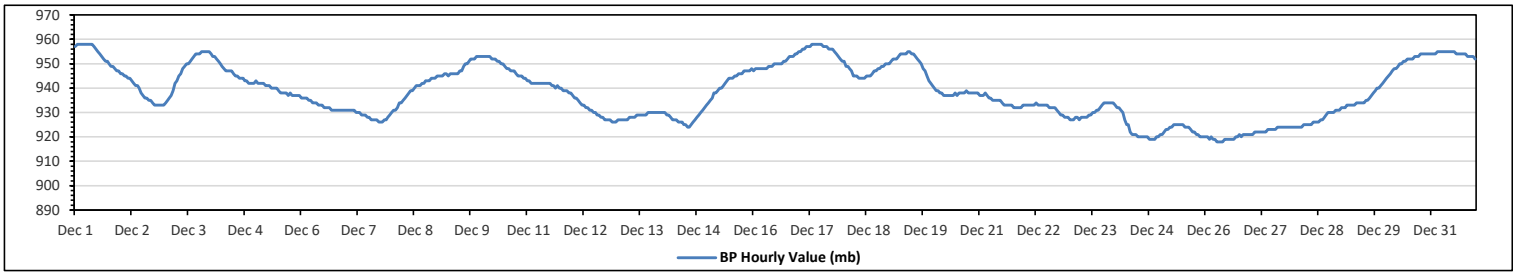
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	958	mb	on Dec 1 at hr 1	Hours in Service:	744	
Maximum Daily Value:	956	mb	on Dec 17	Hours of Data:	744	
Minimum Hourly Value:	918	mb	on Dec 26 at hr 6	Hours of Missing Data:	0	
Minimum Daily Value:	920	mb	on Dec 26	Hours of Calibration:	0	
Monthly Average:	938	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
Dec 1	957	**958**	**958**	**958**	**958**	**958**	**958**	**958**	**958**	**958**	957	956	955	954	953	952	951	951	950	949	949	948	947	947	947	**958**	954
Dec 2	946	946	945	945	944	944	943	942	941	941	940	938	937	936	936	935	935	934	933	933	933	933	933	933	933	946	939
Dec 3	934	935	936	937	939	942	943	945	946	948	949	950	950	951	952	953	954	954	954	955	955	955	955	955	934	955	948
Dec 4	954	953	953	952	951	950	949	948	947	947	947	947	946	945	945	944	944	944	943	943	942	942	942	942	942	954	947
Dec 5	943	942	942	942	942	941	941	941	940	940	940	940	939	938	938	938	938	937	938	937	937	937	937	937	937	943	939
Dec 6	936	936	936	936	935	935	934	934	934	933	933	933	932	932	932	932	931	931	931	931	931	931	931	931	931	936	933
Dec 7	931	931	931	931	931	930	930	930	929	929	929	928	928	927	927	927	927	926	926	926	927	927	928	929	926	931	929
Dec 8	930	931	931	932	934	934	935	936	937	938	939	939	940	941	941	941	942	942	943	943	943	944	944	944	930	944	939
Dec 9	945	945	945	945	946	946	945	946	946	946	946	946	947	947	949	950	950	951	952	952	952	953	953	953	945	953	948
Dec 10	953	953	953	953	953	952	952	952	951	951	950	950	949	948	948	947	947	947	946	945	945	945	944	944	944	953	949
Dec 11	943	943	942	942	942	942	942	942	942	942	942	942	942	941	941	940	941	940	940	939	939	939	938	938	938	943	941
Dec 12	937	936	936	935	934	933	933	932	932	931	931	930	930	929	929	928	928	927	927	927	927	926	926	926	926	937	930
Dec 13	927	927	927	927	927	927	928	928	928	928	929	929	929	929	929	929	930	930	930	930	930	930	930	930	927	930	929
Dec 14	930	930	929	929	928	927	927	927	926	926	926	925	925	924	924	925	926	927	928	929	930	931	932	933	924	933	928
Dec 15	934	935	936	938	938	939	940	940	941	942	943	944	944	944	945	945	946	946	946	947	947	947	947	948	934	948	943
Dec 16	947	948	948	948	948	948	948	948	949	949	949	950	950	950	950	950	951	951	952	953	953	953	954	954	947	954	950
Dec 17	955	955	956	956	957	957	957	**958**	**958**	**958**	**958**	**958**	**958**	957	957	957	956	956	956	955	954	953	952	951	951	**958**	**956**
Dec 18	951	949	949	948	947	945	945	945	944	944	944	944	945	945	945	946	947	947	948	948	949	949	950	950	944	951	947
Dec 19	950	951	952	952	952	953	954	954	954	954	955	955	954	954	953	952	951	950	948	947	945	943	942	941	941	955	951
Dec 20	940	939	939	938	938	937	937	937	937	937	937	938	937	938	938	938	938	939	938	938	938	938	938	938	937	940	938
Dec 21	937	937	937	938	937	936	936	935	935	935	935	935	934	933	933	933	933	933	932	932	932	932	932	933	932	938	934
Dec 22	933	933	933	933	933	933	934	933	933	933	933	933	933	932	932	932	932	931	930	929	929	928	928	928	928	934	932
Dec 23	927	927	927	928	928	927	928	928	928	928	929	929	930	930	931	931	932	933	934	934	934	934	934	934	927	934	930
Dec 24	933	932	932	931	930	927	925	925	922	921	921	921	920	920	920	920	920	920	919	919	919	919	920	920	919	933	923
Dec 25	921	921	922	923	923	924	924	925	925	925	925	925	925	924	924	924	923	922	922	921	921	920	920	920	920	925	923
Dec 26	920	920	919	920	919	919	**918**	**918**	**918**	**918**	919	919	919	919	919	919	920	920	921	920	921	921	921	921	**918**	921	**920**
Dec 27	921	921	922	922	922	922	922	922	922	923	923	923	923	923	924	924	924	924	924	924	924	924	924	924	921	924	923
Dec 28	924	924	924	924	925	925	925	925	925	926	926	926	926	927	927	928	929	930	930	930	930	931	931	931	924	931	927
Dec 29	932	932	932	933	933	933	933	933	934	934	934	934	934	935	935	936	937	938	939	940	940	941	942	943	932	943	936
Dec 30	944	945	946	947	948	948	949	950	950	951	951	952	952	952	952	953	953	953	954	954	954	954	954	954	944	954	951
Dec 31	954	954	954	955	955	955	955	955	955	955	955	955	955	954	954	954	954	954	954	953	953	953	953	952	952	955	954
Diurnal Maximum	957	958	958	958	958	958	958	958	958	958	958	958	958	957	957	957	956	956	956	955	955	955	955	955			
Diurnal Average	938	938	938	939	939	938	938	938	938	938	939	939	938	938	938	938	938	938	938	938	938	938	938	938			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

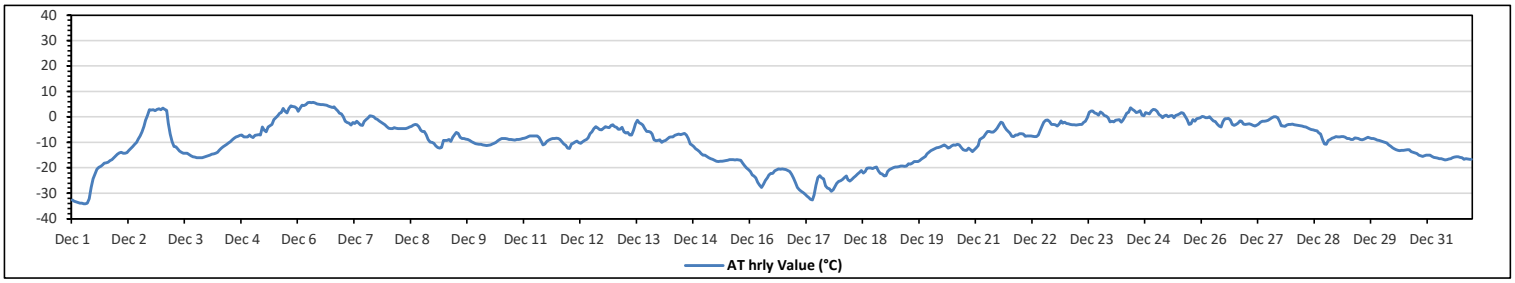
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	5.8	°C	on Dec 6 at hr 8	Hours in Service:	744	
Maximum Daily Value:	4.2	°C	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	-34.1	°C	on Dec 1 at hr 6	Hours of Missing Data:	0	
Minimum Daily Value:	-28.0	°C	on Dec 17	Hours of Calibration:	0	
Monthly Average:	-9.2	°C		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
Dec 1	-32.6	-33.1	-33.4	-33.6	-33.8	-33.9	**-34.1**	**-34.1**	-33.9	-32.2	-27.7	-24.3	-22.5	-20.5	-19.8	-19.4	-18.9	-18.2	-18	-17.7	-17.2	-16.7	-16.1	-15.4	**-34.1**	-15.4	-25.3
Dec 2	-14.7	-14.1	-13.9	-14.2	-14.3	-14	-13.2	-12.3	-11.6	-10.8	-9.9	-8.7	-7.4	-5.8	-3.7	-1.3	0.6	2.8	2.7	2.8	2.5	2.9	3.2	2.8	-14.7	3.2	-6.2
Dec 3	3.5	2.9	2.6	-2.4	-6.7	-9.7	-11.6	-11.8	-12.6	-13.4	-13.9	-14.2	-14.3	-14.3	-14.8	-15.2	-15.6	-15.8	-16	-16.1	-16.1	-16	-15.8	-15.5	-16.1	3.5	-11.4
Dec 4	-15.2	-14.9	-14.7	-14.5	-14.3	-13.8	-13.1	-12.3	-11.7	-11.2	-10.8	-10.2	-9.7	-9	-8.3	-7.9	-7.6	-7.2	-7	-7.9	-7.9	-7.8	-7.1	-7.7	-15.2	-7.0	-10.5
Dec 5	-8.1	-7.2	-7	-6.9	-7.1	-4	-5.2	-5.8	-4	-3.4	-2.9	-1.1	-0.2	0.4	1.4	1.7	3.4	2.3	1.6	3.3	4.3	4.1	4	3.5	-8.1	4.3	-1.4
Dec 6	2.3	3.5	4.6	4.5	4.9	5.6	5.7	5.6	**5.8**	5.5	5.2	5	4.9	4.9	4.8	4.6	4.2	3.9	3.8	3.9	3.1	2.4	1.5	1.2	1.2	**5.8**	**4.2**
Dec 7	0.1	-1.6	-2.2	-2.4	-3.1	-2.2	-2.6	-1.6	-2.5	-3.1	-3.3	-1.8	-1	-0.4	0.5	0.3	0	-0.6	-0.9	-1.5	-2.1	-2.6	-3	-3.8	-3.8	0.5	-1.7
Dec 8	-4.4	-4.6	-4.5	-4.2	-4.4	-4.5	-4.5	-4.5	-4.6	-4.5	-4.3	-4	-3.7	-3.1	-2.9	-3	-3.9	-5.2	-5.7	-5.7	-6.9	-8.9	-9.8	-10	-10.0	-2.9	-5.1
Dec 9	-10.4	-11.3	-12	-12.2	-12	-9.2	-9.3	-9.3	-8.9	-9.6	-8	-7	-6.1	-6.5	-8	-8.5	-8.5	-8.7	-8.9	-9.3	-9.7	-10.1	-10.5	-10.7	-12.2	-6.1	-9.4
Dec 10	-10.8	-10.8	-11	-11.1	-11.2	-11.1	-10.9	-10.6	-10.3	-9.9	-9.4	-8.8	-8.5	-8.4	-8.5	-8.6	-8.9	-8.9	-9	-9.1	-8.9	-8.8	-8.7	-8.5	-11.2	-8.4	-9.6
Dec 11	-8.3	-8.1	-7.7	-7.5	-7.4	-7.4	-7.5	-7.4	-8.1	-9.5	-10.9	-10.7	-9.6	-9.1	-8.7	-8.5	-8.5	-8.3	-8.5	-8.8	-9.7	-10.7	-11.1	-12.2	-12.2	-7.4	-8.9
Dec 12	-12.3	-10.6	-10.4	-9.8	-9.5	-10.1	-10.3	-9.7	-9.2	-8.9	-8.2	-6.6	-5.8	-4.6	-3.9	-4.3	-4.9	-5.1	-4.4	-3.8	-4.1	-4.2	-3.3	-3	-12.3	-3.0	-7.0
Dec 13	-3.8	-4.1	-4.8	-4.8	-4.1	-5.8	-6.3	-6.1	-7	-7.1	-5.2	-2.7	-1.4	-2.3	-2.7	-3.1	-4.6	-5.6	-5.7	-5.9	-6.7	-9	-9.4	-9.3	-9.4	-1.4	-5.3
Dec 14	-9	-9.9	-9.5	-9.3	-8.6	-8	-7.9	-7.9	-7.2	-6.9	-6.8	-6.9	-6.8	-6.5	-7	-8.4	-10.7	-11	-11.6	-12.5	-13	-13.6	-14.4	-14.9	-14.9	-6.5	-9.5
Dec 15	-15	-15.5	-16.1	-16.3	-16.6	-17	-17.4	-17.5	-17.4	-17.4	-17.3	-17.2	-17	-16.8	-16.8	-16.7	-16.9	-16.8	-16.9	-17	-18.1	-19.1	-20.1	-20.6	-20.6	-15.0	-17.2
Dec 16	-21.4	-22.9	-23.1	-23.9	-25.7	-26.8	-27.7	-26.4	-24.9	-24	-22.8	-22.1	-22.1	-21.2	-20.8	-20.4	-20.5	-20.4	-20.5	-20.7	-21.1	-21.4	-22.6	-24.1	-27.7	-20.4	-22.8
Dec 17	-25.8	-27.7	-28.6	-29.2	-29.7	-30.4	-31.1	-31.6	-32.3	-32.6	-30.8	-26.9	-23.8	-23	-24	-24.3	-27	-28	-28.2	-29.2	-28.5	-27.2	-26	-25.3	-32.6	-23.0	**-28.0**
Dec 18	-25.1	-24.6	-23.8	-23.2	-24.7	-25.2	-24.6	-23.8	-23.1	-22.4	-21.7	-21	-22	-21.5	-20.2	-20.1	-20.1	-20.3	-20	-19.6	-21.2	-22.1	-22.5	-23.1	-25.2	-19.6	-22.3
Dec 19	-23	-21.5	-20.7	-20.3	-20	-19.6	-19.7	-19.5	-19.3	-19.2	-19.4	-19.2	-18.4	-18.6	-18.1	-17.5	-17.5	-17.5	-17.1	-16.5	-16.1	-15.5	-14.5	-13.8	-23.0	-13.8	-18.4
Dec 20	-13.3	-12.9	-12.5	-12.1	-12	-11.7	-11.4	-11	-11.5	-12.2	-12	-11.4	-11	-11.1	-10.8	-11	-12	-12.9	-13.1	-13.1	-12.2	-12.9	-13.6	-12.8	-13.6	-10.8	-12.1
Dec 21	-12.1	-11.2	-8.9	-8.3	-7.9	-6.8	-5.7	-5.6	-5.9	-6	-5.4	-4.4	-3.1	-2	-2.3	-3.8	-4.9	-5.6	-6.4	-7.6	-7.7	-7.1	-7	-6.6	-12.1	-2.0	-6.3
Dec 22	-6.6	-6.8	-7.6	-7.5	-7.5	-7.5	-7.6	-7.7	-7.7	-7.1	-5.2	-3.4	-2.1	-1.3	-1.2	-1.8	-2.9	-2.9	-3	-3.5	-2.8	-1.5	-2.5	-2.1	-7.7	-1.2	-4.6
Dec 23	-2.6	-2.7	-2.9	-3	-3	-3.1	-3	-2.9	-2.9	-2.2	-1.6	-0.2	1.8	2.4	2.4	1.6	1.3	0.7	2	1.5	0.6	0.3	-0.2	-1.9	-3.1	2.4	-0.7
Dec 24	-1.6	-1.9	-1.3	-1.2	-1.1	-2	-1.3	-0.1	1.4	1.9	3.7	3	2.5	1.7	2	2.5	0.7	0.4	1.7	1.4	1.2	2.4	2.9	2.8	-2.0	3.7	0.9
Dec 25	2.3	1	0.4	-0.3	0.4	0.7	0	0.5	0.6	-0.2	0.6	0.9	1.2	1.7	1.5	0.2	-1.1	-2.9	-2.7	-1.1	-1.7	-0.6	-0.5	-0.3	-2.9	2.3	0.0
Dec 26	0.2	0	-0.3	-0.2	0.1	-0.8	-1.5	-1.8	-2.8	-3.6	-4	-1.8	-0.7	-0.6	-0.5	-1.2	-2.9	-3.3	-2.9	-2.4	-1.5	-1.7	-2.8	-2.9	-4.0	0.2	-1.7
Dec 27	-2.8	-2.7	-2.9	-3.3	-3.6	-3.2	-2.8	-2	-1.6	-1.7	-1.5	-1.3	-0.8	-0.3	0	0.1	-0.3	-1.8	-3.4	-3.6	-3.7	-3.1	-2.9	-2.9	-3.7	0.1	-2.2
Dec 28	-2.8	-3	-3.1	-3.3	-3.4	-3.5	-3.8	-4	-4.3	-4.7	-4.9	-5.1	-5.3	-5.5	-6.2	-6.7	-8.9	-10.6	-10.8	-9.3	-8.8	-8.3	-8.1	-7.7	-10.8	-2.8	-5.9
Dec 29	-7.9	-7.8	-7.7	-7.7	-8	-8.5	-8.4	-8.8	-8.8	-8.2	-8.3	-8.4	-8.8	-9	-8.7	-8.3	-8	-8.2	-8.5	-8.5	-8.7	-9.1	-9.3	-9.5	-9.5	-7.7	-8.5
Dec 30	-9.7	-9.9	-10.2	-10.9	-11.5	-12.1	-12.4	-12.8	-13.1	-13.3	-13.2	-13.2	-13	-12.8	-12.8	-13.6	-13.9	-14.1	-14.4	-14.9	-15.3	-15.5	-15.2	-15	-15.5	-9.7	-13.0
Dec 31	-14.9	-15	-15.5	-15.9	-16.1	-16.2	-16.3	-16.3	-16.6	-16.9	-16.7	-16.5	-16.4	-16.1	-15.8	-15.7	-15.7	-15.9	-16	-16.6	-16.3	-16.5	-16.6	-16.6	-16.9	-14.9	-16.1
Diurnal Maximum	3.5	3.5	4.6	4.5	4.9	5.6	5.7	5.6	5.8	5.5	5.2	5.0	4.9	4.9	4.8	4.6	4.2	3.9	3.8	3.9	4.3	4.1	4.0	3.5			
Diurnal Average	-9.9	-10.0	-10.0	-10.2	-10.4	-10.4	-10.5	-10.3	-10.2	-10.2	-9.6	-8.7	-8.1	-7.7	-7.5	-7.7	-8.2	-8.6	-8.6	-8.7	-8.8	-9.0	-9.1	-9.2			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

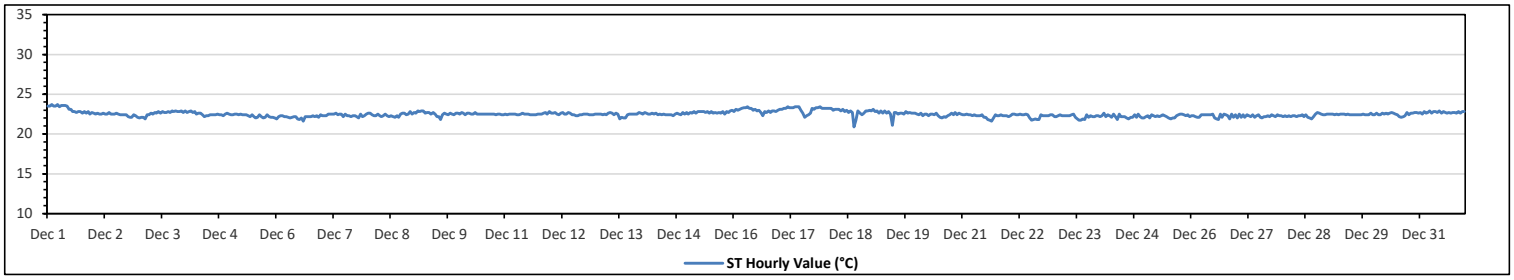
Maximum Hourly Value:	23.7	°C	on Dec 1 at hr 2	Hours in Service:	744	
Maximum Daily Value:	23.1	°C	on Dec 1	Hours of Data:	744	
Minimum Hourly Value:	20.9	°C	on Dec 18 at hr 15	Hours of Missing Data:	0	
Minimum Daily Value:	22.1	°C	on Dec 6	Hours of Calibration:	0	
Monthly Average:	22.5	°C		Operational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

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

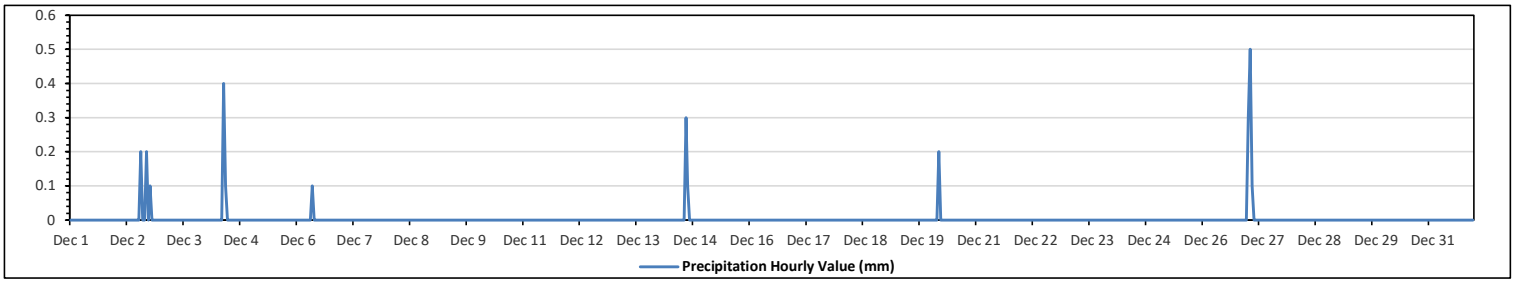
PRECIPITATION in mm

Maximum Hourly Value:	0.5	mm	on Dec 27 at hr 1	Hours in Service:	744
Maximum Daily Value:	0.9	mm	on Dec 27	Hours of Data:	744
Minimum Hourly Value:	0.0	mm	on Dec 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	mm	on Dec 1	Hours of Calibration:	0
Monthly Total:	2.6	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			
Dec 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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2	0	0.1	0	0	0	0	0	0.0	0.2	0.5
Dec 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dec 4	0	0	0	0	0	0	0	0	0	0.4	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	0.5
Dec 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
Dec 6	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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.1	0	0	0	0	0	0	0	0	0.0	0.3	0.4
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 20	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	0.2	0.2
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 27	0.3	**0.5**	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	**0.5**	**0.9**
Dec 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
Dec 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
Dec 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
Dec 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	0.3	0.5	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.0	0.2	0.3	0.1	0.2	0.0	0.1	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			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

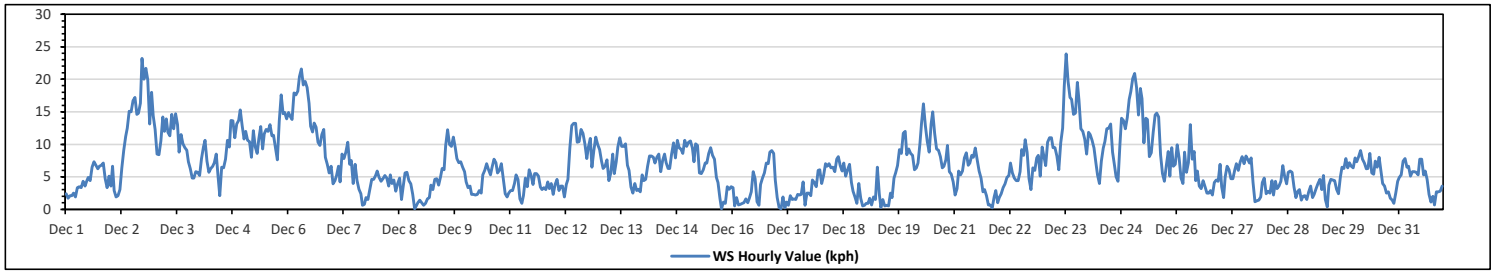
VECTOR WIND SPEED (VWS) in km/hr

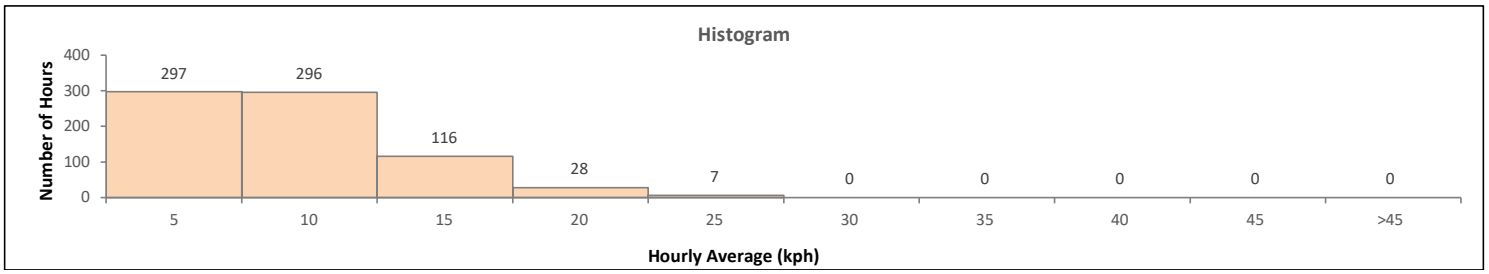
Maximum Hourly Value:	23.9	kph	on Dec 23 at hr 12	Hours in Service:	744
Maximum Daily Value:	13.9	kph	on Dec 6	Hours of Data:	744
Minimum Hourly Value:	0.1	kph	on Dec 8 at hr 20	Hours of Missing Data:	0
Minimum Daily Value:	2.3	kph	on Dec 17	Hours of Calibration:	0
Monthly Average:	2.5	kph		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	2.4	1.7	2.1	2.1	2.5	1.9	3.3	3.5	3.3	4.3	3.6	4.3	4.9	4.4	6.5	7.3	6.8	6.2	6.6	6.8	7.1	4.7	3.3	5.1	1.7	7.3	4.4
Dec 2	3.6	6.6	2.9	1.9	2.1	3.0	6.4	9.1	11.2	12.5	15.1	15.0	16.7	17.2	14.6	14.8	16.3	23.2	20.0	21.7	19.9	13.1	18.0	14.4	1.9	23.2	12.5
Dec 3	12.3	8.5	8.4	10.5	14.2	12.0	13.9	11.8	11.3	14.6	12.4	14.7	13.0	8.8	11.5	10.1	9.5	9.1	7.3	6.2	4.8	4.8	5.8	5.7	4.8	14.7	10.1
Dec 4	5.2	7.8	9.6	10.6	7.4	5.7	6.3	6.6	7.2	8.5	4.9	2.1	6.5	6.4	7.7	10.6	9.6	13.7	13.6	11.0	13.1	13.7	15.3	12.9	2.1	15.3	9.0
Dec 5	10.8	12.0	10.6	10.4	8.0	12.1	9.6	8.6	10.8	12.7	9.3	11.6	12.3	12.0	13.0	11.3	11.4	9.5	7.6	13.6	17.6	14.7	14.9	13.9	7.6	17.6	11.6
Dec 6	14.9	14.3	13.8	17.9	17.6	18.2	20.4	21.6	19.1	19.7	18.7	16.3	12.8	11.9	13.3	12.6	10.3	9.8	11.5	12.3	8.0	6.9	5.6	6.6	5.6	21.6	**13.9**
Dec 7	3.9	4.4	5.2	6.6	4.2	8.5	7.8	8.8	10.3	6.9	7.5	4.0	6.9	4.4	3.1	2.4	0.6	0.8	1.8	1.5	3.1	4.6	4.6	5.2	0.6	10.3	4.9
Dec 8	5.9	4.9	4.3	4.7	5.2	4.8	3.6	5.3	4.0	4.5	2.8	4.0	4.8	1.5	3.4	5.6	5.7	4.4	3.9	2.3	**0.1**	0.5	1.0	1.4	**0.1**	5.9	3.7
Dec 9	1.0	0.6	0.9	1.6	1.8	3.7	3.0	4.6	4.7	3.7	5.0	6.3	6.1	9.8	12.2	10.0	9.7	11.1	9.5	7.8	7.2	7.3	6.5	5.8	0.6	12.2	5.8
Dec 10	4.2	3.3	3.6	2.3	2.3	2.2	2.3	2.9	2.5	5.3	6.0	7.0	6.1	5.3	6.5	7.7	7.2	5.6	6.0	7.0	4.7	2.4	1.9	2.5	1.9	7.7	4.5
Dec 11	2.9	2.9	4.0	5.3	4.6	1.6	0.9	2.1	4.8	3.5	6.1	5.2	3.8	5.5	5.5	5.1	3.4	3.0	3.3	3.0	4.2	3.2	4.0	2.3	0.9	6.1	3.8
Dec 12	3.8	4.6	2.9	3.6	3.6	1.9	3.8	4.6	9.4	12.9	13.2	13.2	10.3	10.4	12.3	11.7	10.1	7.8	9.6	10.9	6.5	9.0	11.1	10.0	1.9	13.2	8.2
Dec 13	9.2	7.4	6.3	6.6	7.6	4.4	5.6	8.5	5.5	7.3	9.6	11.0	9.7	9.7	10.1	6.8	6.0	3.4	2.5	4.0	2.9	3.1	2.7	5.3	2.5	11.0	6.5
Dec 14	4.4	4.6	6.6	8.2	8.2	8.0	7.1	8.0	8.5	5.8	7.5	8.5	7.2	6.3	6.3	8.5	10.2	7.9	10.6	9.4	9.3	8.6	10.6	9.7	4.4	10.6	7.9
Dec 15	10.3	10.5	9.4	7.3	10.1	9.8	5.6	5.5	6.1	7.1	7.1	8.6	9.5	8.3	7.7	4.9	4.1	1.7	**0.1**	1.1	0.9	3.5	3.1	3.5	**0.1**	10.5	6.1
Dec 16	3.3	0.5	1.8	0.7	0.8	0.9	1.0	1.6	1.0	1.7	2.7	5.8	4.7	1.2	0.6	3.8	4.8	5.6	7.1	7.0	8.8	9.0	8.6	4.5	0.5	9.0	3.6
Dec 17	1.8	0.3	**0.1**	1.9	0.2	1.1	0.6	2.1	1.5	1.6	1.5	2.3	2.2	2.3	4.2	0.6	2.5	2.5	2.1	4.5	4.1	3.5	6.0	6.1	**0.1**	6.1	**2.3**
Dec 18	4.0	5.2	7.0	6.6	7.0	6.4	6.5	5.8	7.7	8.1	6.7	5.9	7.1	5.1	6.1	6.9	4.1	2.8	1.9	0.9	4.0	1.7	0.5	0.6	0.5	8.1	4.9
Dec 19	0.9	0.9	1.7	0.7	1.9	1.5	6.5	2.4	0.3	1.5	0.5	0.6	0.5	2.5	1.8	4.8	5.6	6.7	9.2	8.6	11.7	12.0	8.4	9.3	0.3	12.0	4.2
Dec 20	8.6	8.3	6.1	6.4	7.1	10.1	13.2	16.2	12.9	10.4	8.8	13.1	15.0	11.7	9.3	9.1	8.1	6.4	6.6	7.6	9.8	5.8	5.4	4.2	4.2	16.2	9.2
Dec 21	2.2	3.2	5.9	5.3	5.9	7.9	8.7	6.8	7.1	8.3	8.0	9.4	7.6	5.9	4.8	2.7	3.0	2.1	0.7	0.7	0.2	1.9	2.9	1.0	0.2	9.4	4.7
Dec 22	1.8	2.4	3.3	3.9	4.9	5.2	7.1	5.6	4.8	4.4	4.4	5.8	9.2	8.3	10.7	8.8	4.7	3.0	6.4	6.0	7.9	8.3	5.1	9.6	1.8	10.7	5.9
Dec 23	8.0	6.7	10.3	11.0	11.0	9.5	9.5	8.2	6.1	10.2	12.5	18.9	**23.9**	19.7	17.2	16.9	14.6	14.8	19.5	16.8	12.4	12.0	10.8	8.5	6.1	**23.9**	12.9
Dec 24	11.8	11.5	10.6	9.4	7.1	5.3	4.0	7.4	9.4	10.4	12.4	12.5	13.1	8.8	6.8	5.0	4.3	9.9	14.0	13.7	12.4	14.1	16.9	18.1	4.0	18.1	10.4
Dec 25	20.1	20.9	18.7	14.5	18.6	17.0	10.2	14.0	13.8	8.1	8.7	11.8	14.5	14.8	14.2	8.4	5.5	4.3	6.7	8.9	5.1	9.5	6.6	6.9	4.3	20.9	11.7
Dec 26	9.9	7.9	4.8	4.0	8.8	5.7	7.2	13.0	7.7	8.9	4.4	5.9	3.6	3.2	4.4	3.5	2.5	2.5	2.9	2.2	4.1	4.5	4.3	6.9	2.2	13.0	5.5
Dec 27	3.5	1.8	5.0	6.6	6.1	4.7	4.7	6.1	7.0	6.0	7.3	8.1	7.0	8.2	7.7	7.1	7.9	4.1	1.2	1.3	1.4	1.9	4.1	4.8	1.2	8.2	5.2
Dec 28	2.4	2.8	2.5	4.4	2.2	4.3	3.2	3.6	4.3	6.7	5.0	3.9	5.7	5.9	5.7	3.4	1.8	2.8	3.0	1.4	2.0	2.1	1.5	2.7	1.4	6.7	3.5
Dec 29	3.6	1.8	2.3	3.2	4.0	4.6	3.0	5.2	1.5	0.4	3.7	4.6	4.5	4.4	3.1	2.4	5.0	6.5	6.3	7.8	6.4	7.2	6.6	6.4	0.4	7.8	4.4
Dec 30	7.9	7.3	8.1	9.0	7.7	7.1	6.2	6.3	8.6	5.6	5.4	7.4	6.5	8.0	5.8	4.0	3.6	2.5	2.7	1.7	1.4	0.9	2.5	4.3	0.9	9.0	5.4
Dec 31	4.9	5.3	7.4	7.8	6.5	6.6	5.1	5.8	5.8	5.7	5.3	7.7	7.7	5.3	5.9	4.6	2.3	1.1	2.0	0.7	2.7	2.7	2.8	3.6	0.7	7.8	4.8
Diurnal Maximum	20.1	20.9	18.7	17.9	18.6	18.2	20.4	21.6	19.1	19.7	18.7	18.9	23.9	19.7	17.2	16.9	16.3	23.2	20.0	21.7	19.9	14.7	18.0	18.1			
Diurnal Average	6.1	5.8	6.0	6.3	6.4	6.3	6.3	7.1	7.0	7.3	7.3	8.2	8.5	7.7	7.8	7.1	6.5	6.3	6.7	6.7	6.6	6.4	6.5	6.5			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



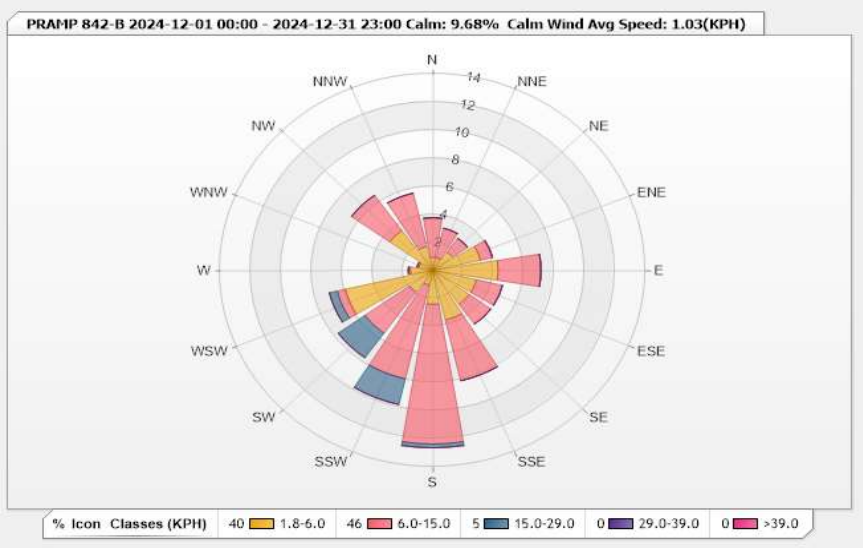


Station: PRAMP 842-B Monitor: WDS [KPH] Monthly: 12-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 9.68% 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	0.94	2.82	0	0	0	3.76
NNE	0.94	2.15	0	0	0	3.09
NE	1.61	1.21	0	0	0	2.82
ENE	3.23	0.81	0	0	0	4.04
E	4.3	2.82	0	0	0	7.12
ESE	2.96	1.75	0	0	0	4.71
SE	2.96	1.75	0	0	0	4.71
SSE	3.63	4.44	0	0	0	8.07
S	2.42	9.95	0.27	0	0	12.64
SSW	1.08	6.85	1.88	0	0	9.81
SW	1.88	3.63	2.15	0	0	7.66
WSW	5.91	0.54	0.54	0	0	6.99
W	1.48	0.13	0	0	0	1.61
WNW	0.94	0.13	0	0	0	1.07
NW	3.49	3.09	0	0	0	6.58
NNW	1.75	3.9	0	0	0	5.65
Summary	39.52	45.97	4.84	0	0	90.33



Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

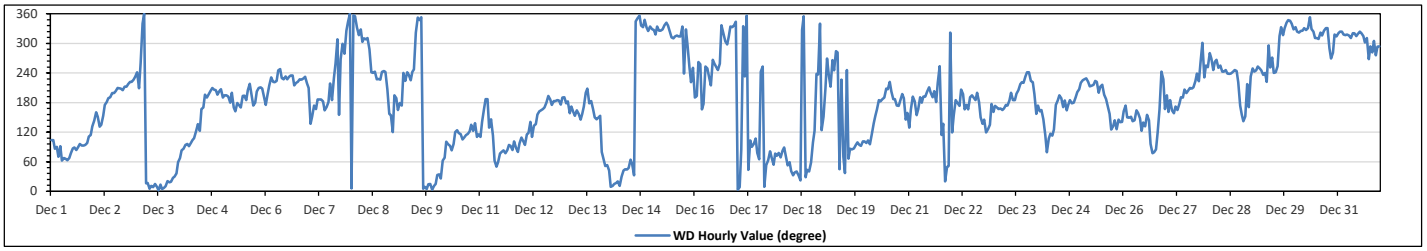
WIND DIRECTION (VWD) in sector

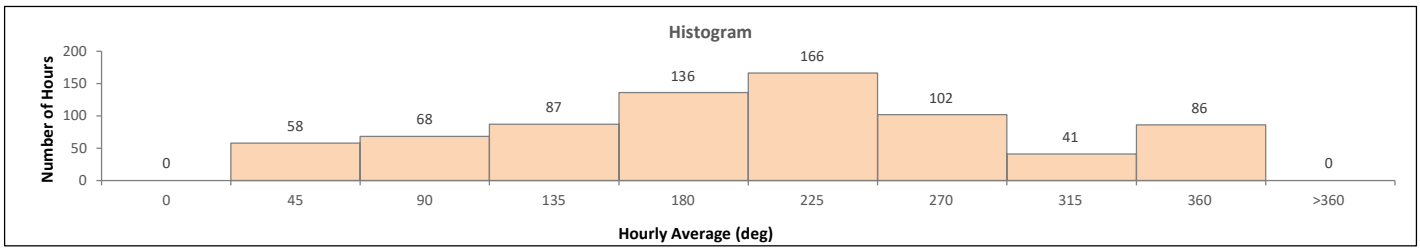
Monthly Average:	195 (SSW)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Dec 1	ESE	ESE	E	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	ESE	ESE	SE	90	E
Dec 2	SE	SSE	SSE	SE	SE	SSE	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	205	SSW
Dec 3	WSW	SSW	WSW	NNW	N	NNE	NNE	N	NNE	N	NNE	N	N	NNE	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	ENE	5	N
Dec 4	ENE	E	E	E	E	E	E	ESE	ESE	ESE	SE	ESE	SSE	SSE	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	165	SSE
Dec 5	S	SSW	SSW	S	S	SSW	SSE	SSE	S	S	SSE	S	SSW	S	SSW	SW	SSW	S	S	SSW	SSW	SSW	SSW	S	193	S
Dec 6	S	SSW	SSW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW	225	SW
Dec 7	SSW	SE	SSE	S	SSE	S	S	S	S	SSE	S	S	SW	S	SW	WSW	NW	SSE	W	WNW	W	NW	NNW	N	191	S
Dec 8	N	N	N	NNW	NW	NNW	WNW	NW	NW	NW	WNW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	SSW	SSE	SSE	ESE	288	WNW
Dec 9	SSW	S	SSE	S	S	WSW	SW	WSW	SW	SW	WSW	WSW	NW	N	NNW	N	N	N	N	NNE	NNE	N	NNE	NNE	342	NNW
Dec 10	NNE	NE	NNE	ENE	ENE	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	105	ESE
Dec 11	ESE	SE	SSE	S	S	SE	SE	ESE	ENE	NE	ENE	ENE	E	E	ENE	E	E	E	E	E	E	E	E	ESE	97	E
Dec 12	E	E	ESE	ESE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	170	SSE
Dec 13	S	S	SSE	S	SSE	SSE	SSE	SSE	SE	SSE	S	SSW	SSW	S	S	SSE	SSE	SE	SSE	SSE	E	ENE	NE	NE	165	SSE
Dec 14	NE	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	ENE	NE	NNE	NNW	N	N	NNW	NNW	NNW	NNW	NW	NNW	8	N
Dec 15	NNW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	WSW	NNW	WNW	WSW	SW	WSW	319	NW
Dec 16	S	S	W	WSW	SSE	S	WSW	WSW	SW	SSW	W	WSW	WSW	WSW	WSW	NNW	NW	WNW	WNW	NW	NNW	NNW	NNW	NNW	302	WNW
Dec 17	N	N	E	NNW	SW	N	NE	ESE	E	E	ESE	ENE	ENE	WSW	WSW	N	NE	ENE	E	ENE	NE	ENE	ENE	ENE	66	ENE
Dec 18	ENE	E	E	ENE	NE	ENE	NE	NNE	NE	NE	NNE	NNE	NW	N	NNE	NE	NE	ENE	E	ESE	SW	SW	NNW	ESE	43	NE
Dec 19	SSE	SSW	W	SW	SSW	W	WSW	WNW	W	NE	SW	ENE	NE	WSW	ENE	E	E	E	E	E	E	E	E	E	99	E
Dec 20	E	ESE	E	ESE	SE	SSE	SSE	S	S	S	S	SSW	SSW	SW	SSW	S	S	S	S	S	SSW	S	SE	SSE	176	S
Dec 21	SE	SSE	S	S	SSE	SSE	S	S	S	S	SSW	SSW	SSW	S	SSW	S	SW	WSW	ESE	SE	NNE	NE	NE	NW	188	S
Dec 22	ESE	SSE	S	S	S	SSW	SSW	SSE	S	SSE	S	SSW	S	S	SSW	S	SSE	SE	SE	ESE	SE	SE	S	SSE	170	SSE
Dec 23	S	S	SSE	SSE	SSE	SSE	S	S	S	SSW	S	S	SSW	SSW	SW	SW	SW	SW	WSW	WSW	SW	SW	SSW	SSE	201	SSW
Dec 24	S	SSE	SSE	SE	ESE	ENE	ESE	ESE	ESE	SE	S	S	SSW	S	S	S	SSE	S	S	S	S	S	SSW	SSW	172	S
Dec 25	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SSW	S	S	SSE	SE	SE	SE	SE	SE	SE	SE	202	SSW
Dec 26	SSE	S	SSE	SSE	SSE	SE	SE	SSE	SSE	SE	ESE	SE	SE	SSE	SE	E	ENE	ENE	E	ESE	SSE	WSW	SW	SSE	152	SSE
Dec 27	SSW	SSE	S	SSE	SSE	S	SSE	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	SW	WSW	WNW	SW	WSW	WSW	201	SSW
Dec 28	W	W	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	S	SSE	SE	SSE	SW	S	SW	238	SW
Dec 29	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WNW	WSW	W	WSW	WSW	WSW	NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	294	WNW
Dec 30	NNW	NW	NW	NW	NW	NNW	NW	NNW	N	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	WNW	W	W	NW	NW	324	NW
Dec 31	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	W	WNW	W	WNW	W	WNW	WNW	315	NW

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

842-B Station - December 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	23.9	kph	on Dec 23 at hr 12	Hours in Service:	744
Maximum Daily Value:	13.9	kph	on Dec 6	Hours of Data:	744
Minimum Hourly Value:	0.1	kph	on Dec 8 at hr 20	Hours of Missing Data:	0
Minimum Daily Value:	2.3	kph	on Dec 17	Hours of Calibration:	0
Monthly Average:	2.5	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 195 degree (SSW)

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			
Dec 1	2.4	1.7	2.1	2.1	2.5	1.9	3.3	3.5	3.3	4.3	3.6	4.3	4.9	4.4	6.5	7.3	6.8	6.2	6.6	6.8	7.1	4.7	3.3	5.1	1.7	7.3	4.4
	ESE	ESE	E	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	ESE	ESE	SE			90(E)
Dec 2	3.6	6.6	2.9	1.9	2.1	3.0	6.4	9.1	11.2	12.5	15.1	15.0	16.7	17.2	14.6	14.8	16.3	23.2	20.0	21.7	19.9	13.1	18.0	14.4	1.9	23.2	12.5
	SE	SSE	SSE	SE	SE	SSE	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW			205(SSW)
Dec 3	12.3	8.5	8.4	10.5	14.2	12.0	13.9	11.8	11.3	14.6	12.4	14.7	13.0	8.8	11.5	10.1	9.5	9.1	7.3	6.2	4.8	4.8	5.8	5.7	4.8	14.7	10.1
	WSW	SSW	WSW	NNW	N	NNE	NNE	N	NNE	N	NNE	N	N	NNE	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	ENE			5(N)
Dec 4	5.2	7.8	9.6	10.6	7.4	5.7	6.3	6.6	7.2	8.5	4.9	2.1	6.5	6.4	7.7	10.6	9.6	13.7	13.6	11.0	13.1	13.7	15.3	12.9	2.1	15.3	9.0
	ENE	E	E	E	E	E	E	ESE	ESE	ESE	SE	ESE	SSE	SSE	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			165(SSE)
Dec 5	10.8	12.0	10.6	10.4	8.0	12.1	9.6	8.6	10.8	12.7	9.3	11.6	12.3	12.0	13.0	11.3	11.4	9.5	7.6	13.6	17.6	14.7	14.9	13.9	7.6	17.6	11.6
	S	SSW	SSW	S	S	SSW	SSE	SSE	S	S	SSE	S	SSW	S	SSW	SW	SSW	S	S	SSW	SSW	SSW	SSW	S			193(S)
Dec 6	14.9	14.3	13.8	17.9	17.6	18.2	20.4	21.6	19.1	19.7	18.7	16.3	12.8	11.9	13.3	12.6	10.3	9.8	11.5	12.3	8.0	6.9	5.6	6.6	5.6	21.6	**13.9**
	S	SSW	SSW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	SW			225(SW)
Dec 7	3.9	4.4	5.2	6.6	4.2	8.5	7.8	8.8	10.3	6.9	7.5	4.0	6.9	4.4	3.1	2.4	0.6	0.8	1.8	1.5	3.1	4.6	4.6	5.2	0.6	10.3	4.9
	SSW	SE	SSE	S	SSE	S	S	S	S	SSE	S	S	SW	S	SW	WSW	NW	SSE	W	WNW	W	NW	NNW	N			191(S)
Dec 8	5.9	4.9	4.3	4.7	5.2	4.8	3.6	5.3	4.0	4.5	2.8	4.0	4.8	1.5	3.4	5.6	5.7	4.4	3.9	2.3	**0.1**	0.5	1.0	1.4	**0.1**	5.9	3.7
	N	N	N	NNW	NW	NNW	WNW	NW	NW	NW	WNW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	SSW	SSE	SSE	ESE			288(WNW)
Dec 9	1.0	0.6	0.9	1.6	1.8	3.7	3.0	4.6	4.7	3.7	5.0	6.3	6.1	9.8	12.2	10.0	9.7	11.1	9.5	7.8	7.2	7.3	6.5	5.8	0.6	12.2	5.8
	SSW	S	SSE	S	S	WSW	SW	WSW	SW	SW	WSW	WSW	NW	N	NNW	N	N	N	N	NNE	NNE	N	NNE	NNE			342(NNW)
Dec 10	4.2	3.3	3.6	2.3	2.3	2.2	2.3	2.9	2.5	5.3	6.0	7.0	6.1	5.3	6.5	7.7	7.2	5.6	6.0	7.0	4.7	2.4	1.9	2.5	1.9	7.7	4.5
	NNE	NE	NNE	ENE	ENE	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE			105(ESE)
Dec 11	2.9	2.9	4.0	5.3	4.6	1.6	0.9	2.1	4.8	3.5	6.1	5.2	3.8	5.5	5.5	5.1	3.4	3.0	3.3	3.0	4.2	3.2	4.0	2.3	0.9	6.1	3.8
	ESE	SE	SSE	S	S	SE	SE	ESE	ENE	NE	ENE	ENE	E	E	ENE	E	E	E	E	E	E	E	E	ESE			97(E)
Dec 12	3.8	4.6	2.9	3.6	3.6	1.9	3.8	4.6	9.4	12.9	13.2	13.2	10.3	10.4	12.3	11.7	10.1	7.8	9.6	10.9	6.5	9.0	11.1	10.0	1.9	13.2	8.2
	E	E	ESE	ESE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S			170(SSE)
Dec 13	9.2	7.4	6.3	6.6	7.6	4.4	5.6	8.5	5.5	7.3	9.6	11.0	9.7	9.7	10.1	6.8	6.0	3.4	2.5	4.0	2.9	3.1	2.7	5.3	2.5	11.0	6.5
	S	S	SSE	S	SSE	SSE	SSE	SSE	SE	SSE	S	SSW	SSW	S	S	SSE	SSE	SE	SSE	SSE	E	ENE	NE	NE			165(SSE)
Dec 14	4.4	4.6	6.6	8.2	8.2	8.0	7.1	8.0	8.5	5.8	7.5	8.5	7.2	6.3	6.3	8.5	10.2	7.9	10.6	9.4	9.3	8.6	10.6	9.7	4.4	10.6	7.9
	NE	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	ENE	NE	NNE	NNW	N	N	NNW	NNW	NNW	NNW	NW	NNW			8(N)
Dec 15	10.3	10.5	9.4	7.3	10.1	9.8	5.6	5.5	6.1	7.1	7.1	8.6	9.5	8.3	7.7	4.9	4.1	1.7	**0.1**	1.1	0.9	3.5	3.1	3.5	**0.1**	10.5	6.1
	NNW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	WSW	NNW	WNW	WSW	SW	WSW			319(NW)
Dec 16	3.3	0.5	1.8	0.7	0.8	0.9	1.0	1.6	1.0	1.7	2.7	5.8	4.7	1.2	0.6	3.8	4.8	5.6	7.1	7.0	8.8	9.0	8.6	4.5	0.5	9.0	3.6
	S	S	W	WSW	SSE	S	WSW	WSW	SW	SSW	W	WSW	WSW	WSW	WSW	NNW	NW	WNW	WNW	NW	NNW	NNW	NNW	NNW			302(WNW)
Dec 17	1.8	0.3	**0.1**	1.9	0.2	1.1	0.6	2.1	1.5	1.6	1.5	2.3	2.2	2.3	4.2	0.6	2.5	2.5	2.1	4.5	4.1	3.5	6.0	6.1	**0.1**	6.1	**2.3**
	N	N	E	NNW	SW	N	NE	ESE	E	E	ESE	ENE	ENE	WSW	WSW	N	NE	ENE	E	ENE	NE	ENE	ENE	ENE			66(ENE)
Dec 18	4.0	5.2	7.0	6.6	7.0	6.4	6.5	5.8	7.7	8.1	6.7	5.9	7.1	5.1	6.1	6.9	4.1	2.8	1.9	0.9	4.0	1.7	0.5	0.6	0.5	8.1	4.9
	ENE	E	E	ENE	NE	ENE	NE	NNE	NE	NE	NNE	NNE	NW	N	NNE	NE	NE	ENE	E	ESE	SW	SW	NNW	ESE			43(NE)
Dec 19	0.9	0.9	1.7	0.7	1.9	1.5	6.5	2.4	0.3	1.5	0.5	0.6	0.5	2.5	1.8	4.8	5.6	6.7	9.2	8.6	11.7	12.0	8.4	9.3	0.3	12.0	4.2
	SSE	SSW	W	SW	SSW	W	WSW	WNW	W	NE	SW	ENE	NE	WSW	ENE	E	E	E	E	E	E	E	E	E			99(E)
Dec 20	8.6	8.3	6.1	6.4	7.1	10.1	13.2	16.2	12.9	10.4	8.8	13.1	15.0	11.7	9.3	9.1	8.1	6.4	6.6	7.6	9.8	5.8	5.4	4.2	4.2	16.2	9.2
	E	ESE	E	ESE	SE	SSE	SSE	S	S	S	S	SSW	SSW	SW	SSW	S	S	S	S	S	SSW	S	SE	SSE			176(S)
Dec 21	2.2	3.2	5.9	5.3	5.9	7.9	8.7	6.8	7.1	8.3	8.0	9.4	7.6	5.9	4.8	2.7	3.0	2.1	0.7	0.7	0.2	1.9	2.9	1.0	0.2	9.4	4.7
	SE	SSE	S	S	SSE	SSE	S	S	S	S	SSW	SSW	SSW	S	SSW	S	SW	WSW	ESE	SE	NNE	NE	NE	NW			188(S)
Dec 22	1.8	2.4	3.3	3.9	4.9	5.2	7.1	5.6	4.8	4.4	4.4	5.8	9.2	8.3	10.7	8.8	4.7	3.0	6.4	6.0	7.9	8.3	5.1	9.6	1.8	10.7	5.9
	ESE	SSE	S	S	S	SSW	SSW	SSE	S	SSE	S	SSW	S	S	SSW	S	SSE	SE	SE	ESE	SE	SE	S	SSE			170(SSE)
Dec 23	8.0	6.7	10.3	11.0	11.0	9.5	9.5	8.2	6.1	10.2	12.5	18.9	**23.9**	19.7	17.2	16.9	14.6	14.8	19.5	16.8	12.4	12.0	10.8	8.5	6.1	**23.9**	12.9
	S	S	SSE	SSE	SSE	SSE	S	S	S	SSW	S	S	SSW	SSW	SW	SW	SW	SW	WSW	WSW	SW	SW	SSW	SSE			201(SSW)
Dec 24	11.8	11.5	10.6	9.4	7.1	5.3	4.0	7.4	9.4	10.4	12.4	12.5	13.1	8.8	6.8	5.0	4.3	9.9	14.0	13.7	12.4	14.1	16.9	18.1	4.0	18.1	10.4
	S	SSE	SSE	SE	ESE	ENE	ESE	ESE	ESE	SE	S	S	SSW	S	S	S	SSE	S	S	S	S	S	SSW	SSW			172(S)
Dec 25	20.1	20.9	18.7	14.5	18.6	17.0	10.2	14.0	13.8	8.1	8.7	11.8	14.5	14.8	14.2	8.4	5.5	4.3	6.7	8.9	5.1	9.5	6.6	6.9	4.3	20.9	11.7
	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SSW	SW	SSW	S	S	SSE	SE	SE	SE	SE	SE	SE	SE			202(SSW)
Dec 26	9.9	7.9	4.8	4.0	8.8	5.7	7.2	13.0	7.7	8.9	4.4	5.9	3.6	3.2	4.4	3.5	2.5	2.5	2.9	2.2	4.1	4.5	4.3	6.9	2.2	13.0	5.5
	SSE	S	SSE	SSE	SSE	SE	SE	SSE	SSE	SE	ESE	SE	SE	SSE	SE	E	ENE	ENE	E	ESE	SSE	WSW	SW	SSE				152(SSE)
Dec 27	3.5	1.8	5.0	6.6	6.1	4.7	4.7	6.1	7.0	6.0	7.3	8.1	7.0	8.2	7.7	7.1	7.9	4.1	1.2	1.3	1.4	1.9	4.1	4.8	1.2	8.2	5.2
	SSW	SSE	S	SSE	SSE	S	SSE	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	SW	WSW	WNW	SW	WSW	WSW			201(SSW)
Dec 28	2.4	2.8	2.5	4.4	2.2	4.3	3.2	3.6	4.3	6.7	5.0	3.9	5.7	5.9	5.7	3.4	1.8	2.8	3.0	1.4	2.0	2.1	1.5	2.7	1.4	6.7	3.5
	W	W	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	S	SSE	SE	SSE	SW	S	SW			238(SW)
Dec 29	3.6	1.8	2.3	3.2	4.0	4.6	3.0	5.2	1.5	0.4	3.7	4.6	4.5	4.4	3.1	2.4	5.0	6.5	6.3	7.8	6.4	7.2	6.6	6.4	0.4	7.8	4.4
	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WNW	WSW	W	WSW	WSW	WSW	NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW			294(WNW)
Dec 30	7.9	7.3	8.1	9.0	7.7	7.1	6.2	6.3	8.6	5.6	5.4	7.4	6.5	8.0	5.8	4.0	3.6	2.5	2.7	1.7	1.4	0.9	2.5	4.3	0.9	9.0	5.4
	NNW	NW	NW	NW	NW	NNW	NW	NNW	N	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	WNW	W	W	NW	NW			324(NW)
Dec 31	4.9	5.3	7.4	7.8	6.5	6.6	5.1	5.8	5.8	5.7	5.3	7.7	7.7	5.3	5.9	4.6	2.3	1.1	2.0	0.7	2.7	2.7	2.8	3.6	0.7	7.8	4.8
	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	W	WNW	W	WNW	W	WNW	WNW			315(NW)

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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 -B STATION

Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

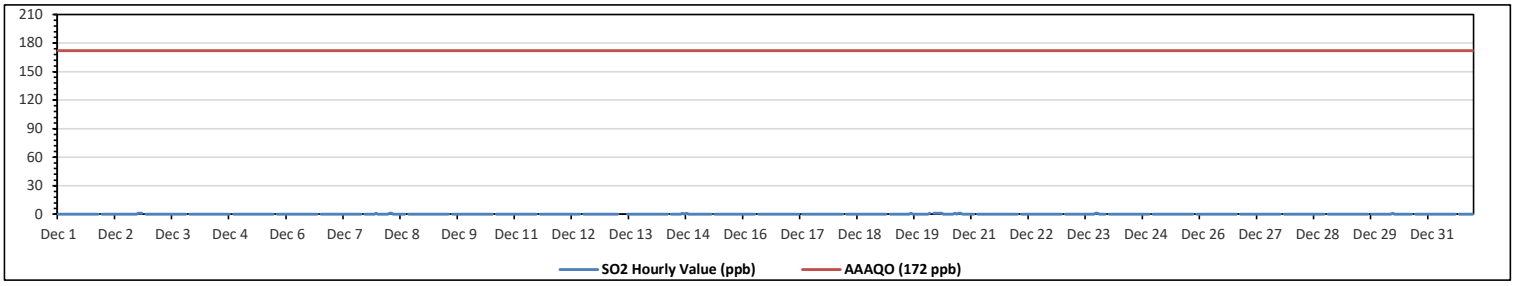
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

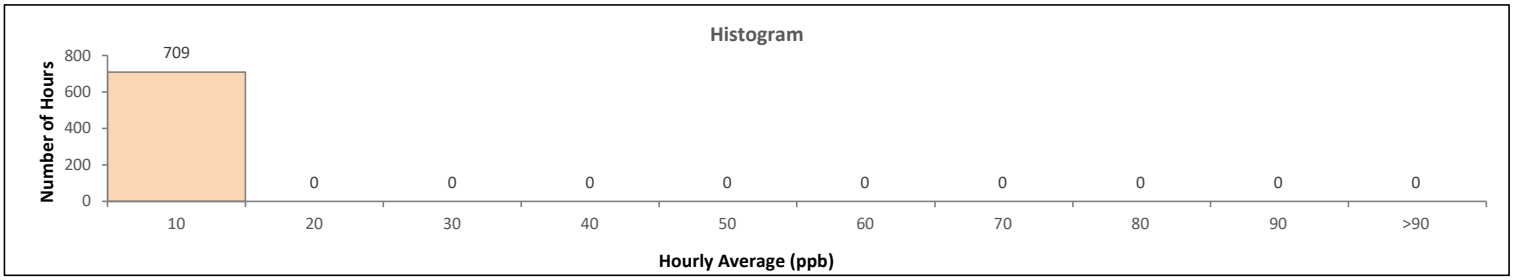
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Dec 2 at hr 18	Hours in Service:	744	
Maximum Daily Value:	0.4	ppb	on Dec 20	Hours of Data:	709	
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Dec 1	Hours of Calibration:	35	
Monthly Average:	0.0	ppb		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	S	0	0	0	1	0.1
Dec 3	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
Dec 4	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
Dec 5	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
Dec 6	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
Dec 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	1	0.0
Dec 8	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.1
Dec 9	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
Dec 10	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
Dec 11	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
Dec 12	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
Dec 13	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Dec 14	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0.1
Dec 15	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
Dec 16	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
Dec 17	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
Dec 18	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
Dec 19	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.0
Dec 20	0	0	1	S	1	1	1	1	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	1	0.4
Dec 21	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
Dec 22	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
Dec 23	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	S	0	1	0.1
Dec 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	0	0.0
Dec 25	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
Dec 26	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
Dec 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Dec 28	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
Dec 29	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
Dec 30	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0
Dec 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	0.0
Diurnal Maximum	0	0	1	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



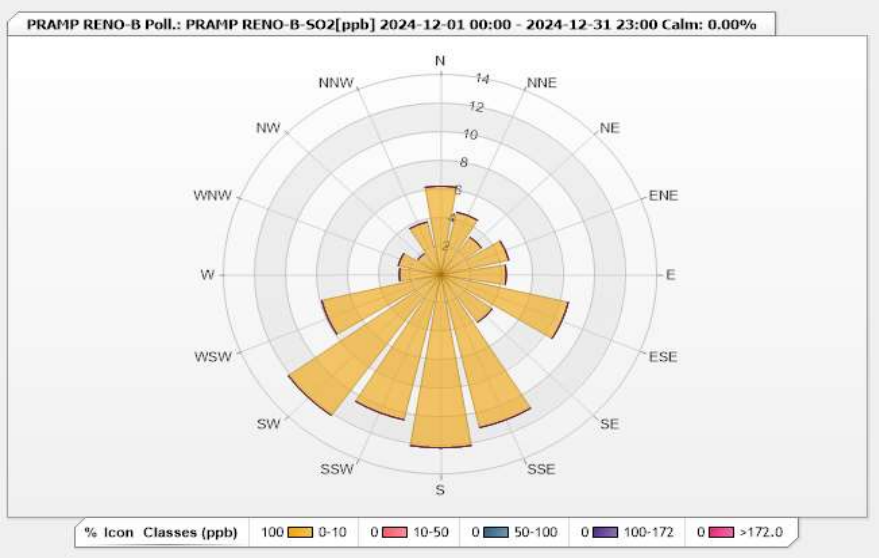


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-SO2[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.30% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.21	0	0	0	0	6.21
NNE	4.51	0	0	0	0	4.51
NE	3.24	0	0	0	0	3.24
ENE	4.51	0	0	0	0	4.51
E	4.23	0	0	0	0	4.23
ESE	8.46	0	0	0	0	8.46
SE	4.09	0	0	0	0	4.09
SSE	11	0	0	0	0	11
S	12.13	0	0	0	0	12.13
SSW	10.44	0	0	0	0	10.44
SW	12.13	0	0	0	0	12.13
WSW	7.9	0	0	0	0	7.9
W	2.68	0	0	0	0	2.68
WNW	2.82	0	0	0	0	2.82
NW	1.83	0	0	0	0	1.83
NNW	3.81	0	0	0	0	3.81
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

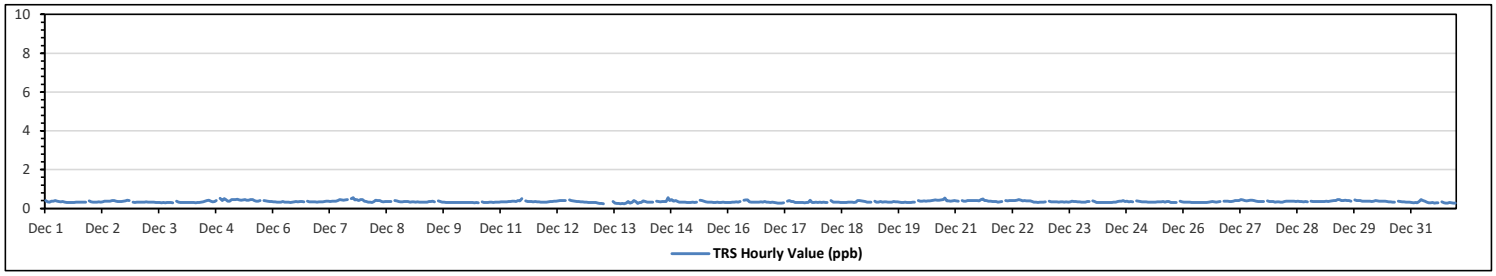
TOTAL REDUCED SULPHUR (TRS) in ppb

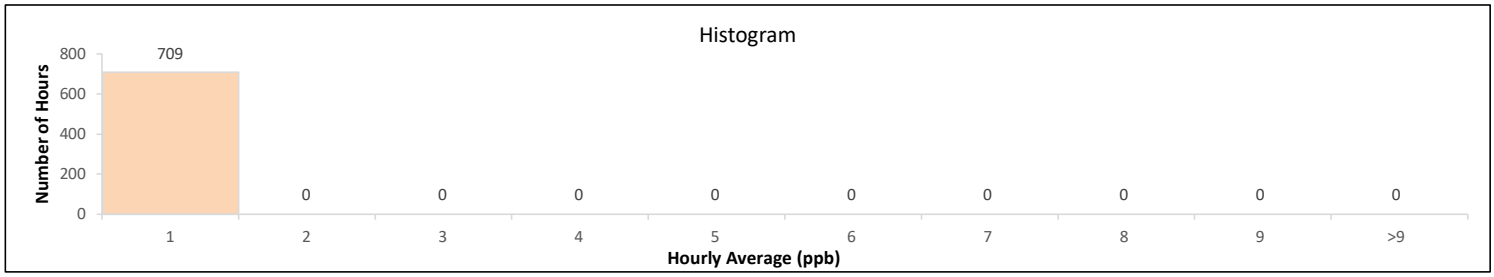
Maximum Hourly Value:	0.55	ppb	on Dec 7 at hr 18	Hours in Service:	744	
Maximum Daily Value:	0.41	ppb	on Dec 5	Hours of Data:	709	
Minimum Hourly Value:	0.24	ppb	on Dec 13 at hr 17	Hours of Missing Data:	0	
Minimum Daily Value:	0.29	ppb	on Dec 13	Hours of Calibration:	35	
Monthly Average:	0.35	ppb		Operational 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			
Dec 1	0.41	0.34	0.32	0.37	0.38	0.41	0.37	0.36	0.34	0.35	0.33	0.31	0.31	0.31	0.31	0.3	0.32	0.32	0.32	0.32	0.33	0.32	S	0.39	0.30	0.41	0.34
Dec 2	0.34	0.33	0.33	0.33	0.34	0.33	0.34	0.37	0.38	0.37	0.37	0.41	0.42	0.38	0.35	0.36	0.36	0.37	0.39	0.43	0.42	S	0.33	0.31	0.31	0.43	0.36
Dec 3	0.32	0.32	0.32	0.32	0.32	0.34	0.33	0.33	0.32	0.33	0.31	0.3	0.31	0.29	0.3	0.29	0.3	0.3	0.3	0.29	S	0.37	0.33	0.31	0.29	0.37	0.32
Dec 4	0.3	0.31	0.31	0.3	0.3	0.3	0.3	0.29	0.3	0.3	0.33	0.34	0.38	0.42	0.43	0.37	0.34	0.36	0.41	S	0.52	0.42	0.5	0.46	0.29	0.52	0.36
Dec 5	0.37	0.38	0.45	0.46	0.46	0.47	0.44	0.43	0.44	0.46	0.43	0.43	0.45	0.46	0.4	0.37	0.38	0.4	S	0.4	0.39	0.37	0.35	0.35	0.35	0.47	**0.41**
Dec 6	0.34	0.34	0.33	0.33	0.33	0.35	0.32	0.33	0.32	0.31	0.32	0.34	0.35	0.34	0.35	0.35	0.34	S	0.37	0.34	0.34	0.34	0.34	0.33	0.31	0.37	0.34
Dec 7	0.34	0.34	0.34	0.35	0.37	0.38	0.36	0.37	0.38	0.37	0.42	0.45	0.44	0.43	0.44	0.45	S	0.5	**0.55**	0.44	0.45	0.41	0.46	0.46	0.34	**0.55**	0.41
Dec 8	0.38	0.36	0.33	0.32	0.31	0.36	0.43	0.42	0.4	0.35	0.34	0.35	0.35	0.35	0.35	S	0.4	0.39	0.36	0.34	0.34	0.35	0.35	0.36	0.31	0.43	0.36
Dec 9	0.33	0.34	0.34	0.33	0.34	0.33	0.32	0.32	0.32	0.33	0.36	0.36	0.37	0.34	S	0.39	0.36	0.32	0.32	0.31	0.31	0.31	0.31	0.3	0.30	0.39	0.33
Dec 10	0.31	0.31	0.31	0.3	0.3	0.3	0.31	0.31	0.3	0.3	0.29	0.3	0.29	S	0.34	0.31	0.3	0.31	0.33	0.32	0.31	0.32	0.32	0.32	0.29	0.34	0.31
Dec 11	0.34	0.34	0.34	0.34	0.36	0.36	0.37	0.37	0.35	0.41	0.39	0.51	S	0.39	0.35	0.35	0.36	0.34	0.36	0.34	0.34	0.33	0.33	0.33	0.33	0.51	0.36
Dec 12	0.33	0.34	0.35	0.35	0.38	0.38	0.39	0.41	0.4	0.41	0.41	S	0.44	0.41	0.39	0.37	0.35	0.35	0.34	0.34	0.32	0.32	0.31	0.3	0.30	0.44	0.36
Dec 13	0.31	0.31	0.31	0.27	0.26	0.26	0.25	C	C	C	C	0.36	0.28	0.26	0.26	0.25	0.26	0.24	0.28	0.35	0.28	0.31	0.41	0.35	0.24	0.41	0.29
Dec 14	0.26	0.3	0.31	0.39	0.36	0.33	0.33	0.33	0.32	S	0.37	0.35	0.34	0.36	0.36	0.36	**0.55**	0.42	0.45	0.38	0.4	0.35	0.33	0.32	0.26	**0.55**	0.36
Dec 15	0.33	0.32	0.31	0.31	0.3	0.32	0.31	0.33	S	0.43	0.4	0.38	0.34	0.33	0.32	0.33	0.31	0.31	0.32	0.31	0.31	0.32	0.31	0.31	0.30	0.43	0.33
Dec 16	0.31	0.31	0.32	0.33	0.34	0.33	0.35	S	0.43	0.44	0.44	0.34	0.33	0.33	0.33	0.33	0.32	0.34	0.33	0.36	0.32	0.32	0.31	0.32	0.31	0.44	0.34
Dec 17	0.3	0.29	0.28	0.28	0.28	0.29	S	0.37	0.41	0.36	0.36	0.31	0.3	0.3	0.31	0.31	0.29	0.3	0.31	0.43	0.3	0.3	0.32	0.31	0.28	0.43	0.32
Dec 18	0.32	0.31	0.32	0.31	0.31	S	0.4	0.33	0.33	0.33	0.33	0.31	0.31	0.31	0.31	0.32	0.33	0.32	0.3	0.33	0.42	0.42	0.39	0.37	0.30	0.42	0.34
Dec 19	0.36	0.33	0.32	0.32	S	0.38	0.33	0.32	0.35	0.33	0.34	0.34	0.32	0.32	0.32	0.36	0.34	0.34	0.33	0.31	0.31	0.32	0.31	0.3	0.30	0.38	0.33
Dec 20	0.31	0.32	0.33	S	0.41	0.38	0.38	0.39	0.38	0.39	0.39	0.41	0.43	0.44	0.43	0.43	0.44	0.46	0.54	0.39	0.39	0.37	0.39	0.4	0.31	0.54	0.40
Dec 21	0.39	0.38	S	0.4	0.38	0.37	0.42	0.41	0.41	0.42	0.41	0.4	0.39	0.45	0.49	0.41	0.42	0.38	0.37	0.36	0.36	0.35	0.33	0.34	0.33	0.49	0.39
Dec 22	0.35	S	0.41	0.39	0.41	0.42	0.4	0.41	0.43	0.45	0.43	0.39	0.4	0.39	0.39	0.39	0.36	0.33	0.33	0.31	0.32	0.33	0.33	0.34	0.31	0.45	0.38
Dec 23	S	0.37	0.34	0.34	0.34	0.34	0.33	0.34	0.34	0.33	0.34	0.33	0.34	0.37	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.35	0.36	S	0.32	0.37	0.34
Dec 24	0.39	0.35	0.31	0.3	0.3	0.31	0.31	0.31	0.3	0.3	0.3	0.32	0.32	0.36	0.38	0.37	0.4	0.36	0.37	0.34	0.35	0.34	S	0.39	0.30	0.40	0.34
Dec 25	0.37	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.33	0.36	0.35	0.31	0.31	0.31	0.31	S	0.37	0.34	0.31	0.37	0.34
Dec 26	0.33	0.33	0.32	0.32	0.31	0.3	0.3	0.3	0.31	0.31	0.31	0.31	0.31	0.32	0.34	0.36	0.34	0.32	0.34	0.35	S	0.38	0.37	0.37	0.30	0.38	0.33
Dec 27	0.36	0.35	0.38	0.42	0.4	0.4	0.46	0.44	0.42	0.39	0.41	0.43	0.43	0.4	0.37	0.36	0.35	0.35	0.35	S	0.39	0.36	0.35	0.35	0.35	0.46	0.39
Dec 28	0.33	0.34	0.34	0.33	0.33	0.35	0.37	0.37	0.37	0.37	0.37	0.36	0.37	0.35	0.35	0.34	0.35	0.34	S	0.38	0.35	0.35	0.35	0.36	0.33	0.38	0.35
Dec 29	0.35	0.36	0.36	0.37	0.36	0.38	0.39	0.41	0.42	0.45	0.45	0.42	0.42	0.43	0.4	0.4	0.38	S	0.44	0.41	0.4	0.4	0.37	0.37	0.35	0.45	0.40
Dec 30	0.38	0.38	0.37	0.36	0.37	0.4	0.39	0.37	0.37	0.38	0.37	0.35	0.34	0.34	0.33	0.32	S	0.38	0.35	0.34	0.34	0.33	0.32	0.33	0.32	0.40	0.36
Dec 31	0.31	0.29	0.3	0.29	0.35	0.46	0.42	0.38	0.32	0.29	0.29	0.3	0.28	0.29	0.29	S	0.34	0.29	0.28	0.28	0.3	0.29	0.27	0.28	0.27	0.46	0.31
Diurnal Maximum	0.41	0.38	0.45	0.46	0.46	0.47	0.46	0.44	0.44	0.46	0.45	0.51	0.45	0.46	0.49	0.45	0.55	0.50	0.55	0.44	0.52	0.42	0.50	0.46			
Diurnal Average	0.34	0.33	0.33	0.34	0.34	0.36	0.36	0.36	0.36	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.36	0.35	0.35	0.35	0.35	0.35			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.





Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of 30-Minute Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Guideline (AAAQG) for TRS: 30-minute 5 ppb

Number of 30-Minute Exceedances: 0

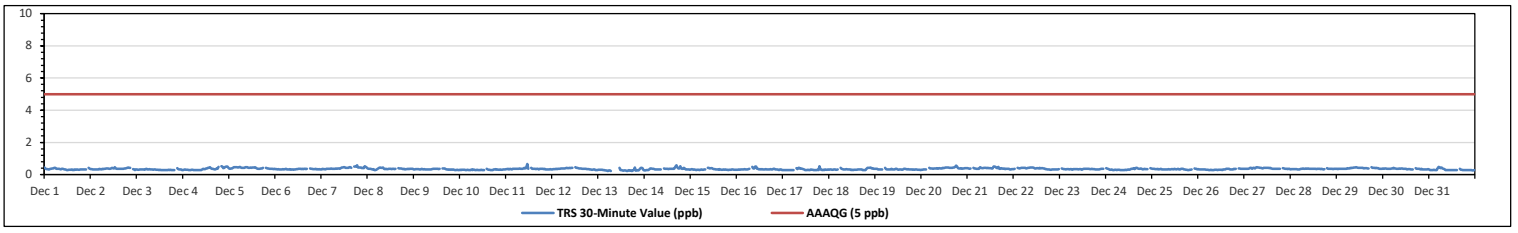
Maximum 30-Minute Value:	0.66 ppb	on Dec 11 at 11:00	# of Instrument in Service	1488	
Maximum Daily Value:	0.42 ppb	on Dec 5	# of Valid Measurements	1418	
Minimum 30-Minute Value:	0.23 ppb	Dec 13 at 17:30	# of Missing Measurements:	0	
Minimum Daily Value:	0.29 ppb	on Dec 13	# of Calibration:	70	
Monthly Average:	0.35 ppb		Operational Uptime:	100.0	

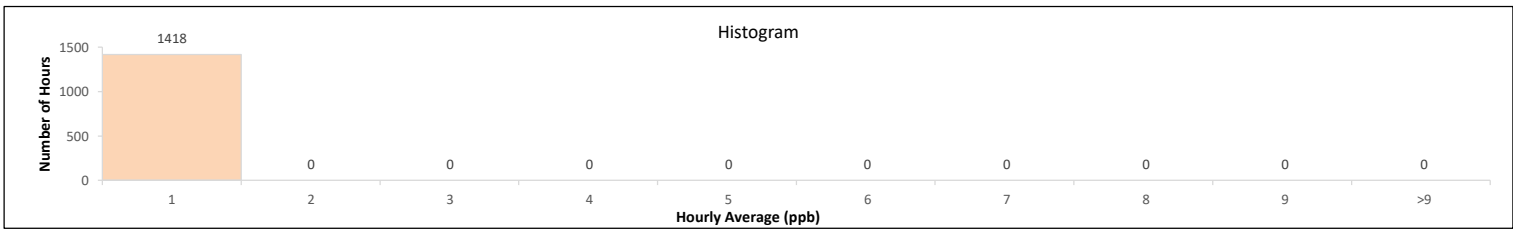
30-Minute Period Starting at (MST)	Dec 1	Dec 2	Dec 3	Dec 4	Dec 5	Dec 6	Dec 7	Dec 8	Dec 9	Dec 10	Dec 11	Dec 12	Dec 13	Dec 14	Dec 15	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28	Dec 29	Dec 30	Dec 31	Diurnal Maximum	Diurnal Average
00:00	0.44	0.34	0.32	0.3	0.38	0.34	0.33	0.39	0.33	0.31	0.34	0.33	0.31	0.26	0.32	0.31	0.29	0.31	0.36	0.31	0.4	0.34	S	0.4	0.37	0.34	0.36	0.33	0.36	0.38	0.32	0.44	0.34
00:30	0.37	0.34	0.31	0.31	0.36	0.34	0.35	0.37	0.33	0.3	0.34	0.34	0.31	0.27	0.34	0.31	0.3	0.32	0.35	0.31	0.39	0.36	S	0.38	0.37	0.32	0.36	0.34	0.34	0.37	0.3	0.39	0.34
01:00	0.34	0.33	0.31	0.32	0.38	0.33	0.34	0.36	0.34	0.31	0.35	0.34	0.31	0.29	0.32	0.32	0.29	0.32	0.35	0.32	0.37	S	0.38	0.36	0.35	0.33	0.36	0.34	0.36	0.39	0.29	0.39	0.34
01:30	0.34	0.33	0.33	0.31	0.39	0.34	0.34	0.35	0.34	0.31	0.33	0.34	0.31	0.3	0.31	0.31	0.29	0.31	0.32	0.32	0.38	S	0.35	0.34	0.34	0.33	0.35	0.34	0.35	0.38	0.29	0.39	0.33
02:00	0.32	0.33	0.33	0.31	0.43	0.33	0.33	0.34	0.34	0.31	0.35	0.35	0.31	0.3	0.32	0.32	0.28	0.31	0.32	0.32	S	0.43	0.34	0.31	0.34	0.32	0.36	0.34	0.36	0.37	0.3	0.43	0.33
02:30	0.33	0.33	0.32	0.31	0.46	0.33	0.35	0.32	0.34	0.31	0.34	0.34	0.3	0.32	0.31	0.32	0.28	0.32	0.33	0.33	S	0.4	0.34	0.31	0.34	0.32	0.39	0.34	0.36	0.37	0.31	0.46	0.34
03:00	0.37	0.32	0.32	0.3	0.46	0.33	0.35	0.34	0.33	0.3	0.33	0.35	0.28	0.39	0.3	0.33	0.29	0.32	0.32	S	0.42	0.39	0.33	0.32	0.35	0.32	0.43	0.34	0.36	0.37	0.28	0.46	0.34
03:30	0.36	0.33	0.32	0.3	0.46	0.32	0.36	0.3	0.33	0.3	0.35	0.36	0.26	0.39	0.31	0.33	0.28	0.31	0.32	S	0.39	0.4	0.34	0.29	0.33	0.32	0.41	0.33	0.37	0.36	0.29	0.46	0.34
04:00	0.38	0.33	0.31	0.3	0.46	0.34	0.37	0.3	0.35	0.31	0.37	0.37	0.27	0.37	0.31	0.34	0.28	0.31	S	0.43	0.39	0.41	0.34	0.3	0.34	0.31	0.37	0.33	0.36	0.36	0.3	0.46	0.34
04:30	0.38	0.35	0.34	0.31	0.45	0.32	0.37	0.31	0.34	0.3	0.36	0.38	0.25	0.35	0.3	0.33	0.28	0.32	S	0.39	0.37	0.42	0.34	0.31	0.35	0.31	0.42	0.33	0.36	0.38	0.4	0.45	0.35
05:00	0.41	0.34	0.35	0.31	0.46	0.34	0.38	0.34	0.33	0.3	0.36	0.38	0.24	0.34	0.31	0.33	0.28	S	0.41	0.38	0.37	0.42	0.33	0.31	0.33	0.31	0.43	0.34	0.36	0.38	0.49	0.49	0.36
05:30	0.42	0.33	0.33	0.3	0.48	0.35	0.37	0.38	0.34	0.3	0.36	0.38	0.27	0.32	0.32	0.33	0.3	S	0.34	0.38	0.37	0.42	0.34	0.3	0.32	0.29	0.38	0.36	0.4	0.42	0.44	0.48	0.35
06:00	0.37	0.35	0.33	0.3	0.45	0.33	0.36	0.42	0.32	0.32	0.36	0.38	0.26	0.33	0.31	0.34	S	0.43	0.33	0.37	0.37	0.42	0.34	0.31	0.32	0.29	0.44	0.36	0.39	0.39	0.4	0.45	0.36
06:30	0.36	0.34	0.34	0.3	0.43	0.32	0.35	0.44	0.32	0.3	0.37	0.39	0.24	0.33	0.31	0.36	S	0.37	0.33	0.38	0.47	0.38	0.31	0.31	0.33	0.31	0.47	0.38	0.39	0.39	0.44	0.47	0.36
07:00	0.36	0.37	0.33	0.29	0.43	0.33	0.37	0.41	0.32	0.32	0.38	0.4	C	0.33	0.32	S	0.4	0.34	0.32	0.38	0.42	0.4	0.34	0.31	0.33	0.3	0.44	0.37	0.41	0.37	0.39	0.44	0.36
07:30	0.37	0.37	0.32	0.29	0.43	0.34	0.38	0.43	0.33	0.31	0.36	0.41	C	0.33	0.33	S	0.34	0.33	0.32	0.39	0.4	0.42	0.34	0.3	0.33	0.29	0.44	0.36	0.4	0.36	0.36	0.44	0.36
08:00	0.34	0.38	0.33	0.3	0.43	0.31	0.37	0.44	0.32	0.3	0.36	0.4	C	0.32	S	0.48	0.41	0.33	0.33	0.4	0.4	0.42	0.34	0.3	0.33	0.3	0.42	0.38	0.41	0.36	0.34	0.48	0.36
08:30	0.33	0.39	0.31	0.29	0.46	0.33	0.38	0.36	0.33	0.3	0.35	0.4	C	0.33	S	0.39	0.41	0.32	0.37	0.37	0.42	0.44	0.34	0.3	0.34	0.31	0.41	0.36	0.43	0.38	0.3	0.46	0.36
09:00	0.35	0.39	0.32	0.29	0.46	0.32	0.38	0.34	0.33	0.31	0.39	0.41	C	S	0.43	0.39	0.35	0.34	0.33	0.39	0.42	0.45	0.34	0.3	0.33	0.31	0.4	0.38	0.45	0.37	0.3	0.46	0.36
09:30	0.35	0.36	0.33	0.3	0.46	0.31	0.37	0.36	0.34	0.3	0.43	0.4	C	S	0.43	0.5	0.38	0.33	0.32	0.4	0.43	0.45	0.33	0.3	0.33	0.31	0.39	0.36	0.45	0.38	0.29	0.50	0.37
10:00	0.34	0.36	0.31	0.32	0.43	0.32	0.4	0.34	0.36	0.29	0.39	0.41	C	0.38	0.39	0.51	0.37	0.33	0.33	0.39	0.4	0.44	0.34	0.31	0.34	0.3	0.41	0.37	0.46	0.38	0.28	0.51	0.37
10:30	0.32	0.38	0.31	0.35	0.43	0.32	0.44	0.34	0.36	0.3	0.4	0.41	C	0.35	0.4	0.36	0.34	0.33	0.36	0.39	0.41	0.42	0.34	0.3	0.34	0.31	0.42	0.36	0.45	0.36	0.29	0.45	0.36
11:00	0.32	0.41	0.31	0.34	0.44	0.34	0.44	0.35	0.36	0.31	0.66	S	0.42	0.35	0.4	0.35	0.32	0.33	0.36	0.42	0.4	0.39	0.34	0.31	0.33	0.31	0.42	0.36	0.43	0.35	0.29	0.66	0.37
11:30	0.3	0.4	0.3	0.34	0.43	0.34	0.46	0.36	0.37	0.29	0.36	S	0.3	0.35	0.36	0.33	0.3	0.3	0.32	0.4	0.4	0.38	0.31	0.33	0.35	0.31	0.43	0.36	0.42	0.35	0.3	0.46	0.35
12:00	0.3	0.39	0.31	0.38	0.45	0.35	0.46	0.35	0.36	0.3	S	0.47	0.28	0.35	0.34	0.34	0.3	0.31	0.31	0.42	0.4	0.4	0.34	0.31	0.34	0.31	0.43	0.37	0.43	0.35	0.28	0.47	0.36
12:30	0.31	0.46	0.3	0.39	0.45	0.35	0.42	0.34	0.37	0.29	S	0.42	0.27	0.34	0.34	0.32	0.3	0.3	0.33	0.44	0.38	0.4	0.35	0.33	0.33	0.3	0.42	0.36	0.42	0.33	0.28	0.46	0.35
13:00	0.31	0.39	0.3	0.41	0.45	0.35	0.43	0.35	0.34	S	0.41	0.41	0.25	0.36	0.32	0.34	0.31	0.31	0.32	0.44	0.39	0.38	0.36	0.35	0.34	0.32	0.4	0.35	0.43	0.34	0.29	0.45	0.36
13:30	0.31	0.37	0.29	0.42	0.46	0.34	0.43	0.36	0.35	S	0.37	0.4	0.26	0.36	0.33	0.33	0.29	0.31	0.32	0.44	0.5	0.41	0.37	0.37	0.36	0.33	0.41	0.34	0.42	0.34	0.29	0.50	0.36
14:00	0.32	0.35	0.3	0.46	0.43	0.35	0.41	0.34	S	0.35	0.36	0.39	0.26	0.37	0.33	0.32	0.29	0.31	0.31	0.44	0.5	0.39	0.37	0.35	0.33	0.33	0.38	0.35	0.39	0.34	0.28	0.50	0.36
14:30	0.3	0.35	0.3	0.4	0.38	0.34	0.47	0.35	S	0.32	0.35	0.38	0.25	0.36	0.31	0.33	0.33	0.31	0.32	0.43	0.49	0.4	0.36	0.4	0.33	0.36	0.37	0.35	0.4	0.32	0.3	0.49	0.36
15:00	0.31	0.36	0.29	0.37	0.37	0.35	0.47	S	0.39	0.31	0.35	0.38	0.24	0.35	0.34	0.34	0.31	0.32	0.36	0.43	0.43	0.4	0.37	0.34	0.36	0.36	0.36	0.35	0.4	0.33	S	0.47	0.36
15:30	0.3	0.35	0.3	0.36	0.37	0.35	0.43	S	0.38	0.31	0.34	0.36	0.26	0.37	0.33	0.33	0.31	0.32	0.36	0.43	0.4	0.38	0.34	0.41	0.36	0.36	0.36	0.34	0.4	0.32	S	0.43	0.35
16:00	0.32	0.36	0.28	0.34	0.37	0.34	S	0.4	0.38	0.3	0.35	0.35	0.28	0.5	0.31	0.32	0.29	0.33	0.34	0.43	0.48	0.39	0.34	0.43	0.37	0.35	0.35	0.36	0.39	S	0.37	0.50	0.36
16:30	0.31	0.37	0.31	0.33	0.39	0.35	S	0.39	0.34	0.3	0.37	0.35	0.25	0.59	0.31	0.33	0.3	0.33	0.33	0.44	0.36	0.34	0.35	0.38	0.32	0.33	0.35	0.34	0.38	S	0.31	0.59	0.35
17:00	0.32	0.37	0.3	0.34	0.39	S	0.5	0.39	0.32	0.3	0.33	0.36	0.26	0.45	0.32	0.33	0.3	0.33	0.34	0.45	0.36	0.34	0.34	0.35	0.32	0.32	0.36	0.33	S	0.4	0.31	0.50	0.35
17:30	0.31	0.38	0.31	0.38	0.41	S	0.5	0.39	0.32	0.32	0.35	0.35	0.23	0.39	0.31	0.34	0.29	0.3	0.33	0.48	0.4	0.33	0.34	0.37	0.31	0.32	0.35	0.34	S	0.35	0.28	0.50	0.35
18:00	0.31	0.38	0.3	0.35	S	0.38	0.51	0.37	0.31	0.33	0.36	0.34	0.26	0.38	0.32	0.33	0.31	0.29	0.33	0.57	0.38	0.33	0.34	0.39	0.31	0.32	0.35	S	0.46	0.35	0.28	0.57	0.35
18:30	0.32	0.4	0.29	0.48	S	0.36	0.58	0.34	0.33	0.34	0.37	0.34	0.29	0.53	0.31	0.33	0.3	0.3	0.33	0.51	0.35	0.33	0.33	0.36	0.3	0.37	0.35	S	0.43	0.35	0.28	0.58	0.36
19:00	0.32	0.41	0.3	S	0.41	0.35	0.44	0.35	0.31	0.31	0.35	0.34	0.44	0.4	0.31	0.36	0.53	0.3	0.32	0.4	0.38	0.31	0.33	0.33	0.3	0.34	S	0.4	0.41	0.35	0.28	0.53	0.36
19:30	0.33	0.44	0.29	S	0.4	0.34	0.44	0.33	0.32	0.33	0.34	0.33	0.25	0.36	0.3	0.35	0.32	0.35	0.31	0.38	0.34	0.31	0.32	0.34	0.31	0.36	S	0.36	0.41	0.33	0.28	0.44	0.34
20:00	0.33	0.42	S	0.53	0.39	0.34	0.44	0.34	0.31	0.31	0.35	0.32	0.3	0.37	0.31	0.33	0.31	0.42	0.32	0.38	0.35	0.33	0.32	0.35	0.31	S	0.4	0.35	0.4	0.35	0.3	0.53	0.35
20:30	0.33	0.42	S	0.51	0.39	0.34	0.45	0.34	0.32	0.31	0.32	0.31	0.26	0.43	0.31	0.32	0.29	0.43	0.31	0.4	0.36	0.32	0.33	0.34	0.32	S	0.38	0.35	0.41	0.33	0.3	0.51	0.35
21:00	0.32	S	0.4	0.4	0.37	0.35	0.4	0.35	0.31	0.32	0.33	0.31	0.26	0.38	0.31	0.33	0.31	0.41	0.32	0.36	0.36	0.33	0.34	0.34	S	0.38	0.37	0.35	0.4	0.33	0.28	0.41	0.35
21:30	0.33	S	0.34	0.43	0.36	0.33	0.41	0.34	0.3	0.31	0.33	0.33	0.36	0.32	0.32	0.31	0.29	0.44	0.32	0.38	0.35	0.33	0.37	0.34	S	0.38	0.36	0.35	0.4	0.32	0.29	0.44	0.35
22:00	S	0.34	0.33	0.49	0.36	0.34	0.4	0.35	0.3	0.31	0.33	0.32	0.42	0.33	0.32	0.3	0.32	0.39	0.31	0.39	0.33	0.33	0.37	S	0.38	0.37	0.35	0.34	0.37	0.33	0.28	0.49	0.35
22:30	S	0.33	0.33	0.51	0.35	0.33	0.53	0.35	0.31	0.33	0.33	0.3	0.41	0.33	0.31	0.32	0.31	0.4	0.31	0.4	0.33	0.33	0.35	S	0.35	0.36	0.34	0.36	0.37	0.32	0.27	0.53	0.35
23:00	0.42	0.3	0.32	0.5	0.34	0.34	0.49	0.35	0.3	0.32	0.34	0.3	0.4	0.33	0.31	0.33	0.31	0.36	0.31	0.4	0.34	0.33	S	0.4	0.35	0.37	0.35	0.36	0.37	0.32	0.27	0.50	0.35
23:30	0.36	0.32	0.3	0.41	0.35	0.33	0.44	0.36	0.3	0.33	0.33	0.3	0.29	0.31	0.31	0.3	0.32	0.37	0.3	0.4	0.34	0.34	S	0.38	0.33	0.37	0.35	0.36	0.37	0.34	0.28	0.44	0.34
Minimum	0.3	0.3	0.28	0.29	0.34	0.31	0.33	0.3	0.3	0.29	0.32	0.3	0.23	0.26	0.3	0.3	0.28	0.29	0.3	0.31	0.33	0.31	0.31	0.29	0.3	0.29	0.34	0.33	0.34	0.32	0.27		
Maximum	0.44	0.46	0.4	0.53	0.48	0.38	0.58	0.44	0.39	0.35	0.66	0.47	0.44	0.59	0.43	0.51	0.53	0.44	0.41	0.57	0.5	0.45	0.38	0.43	0.38	0.38	0.47	0.4	0.46	0.42	0.49		
Average	0.34	0.36	0.32	0.36	0.42	0.34	0.41	0.36	0.33	0.31	0.36	0.36	0.29	0.36	0.33	0.34	0.32	0.34	0.33	0.4	0.39	0.38	0.34	0.34	0.34	0.33	0.39	0.35	0.4	0.36	0.31		

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



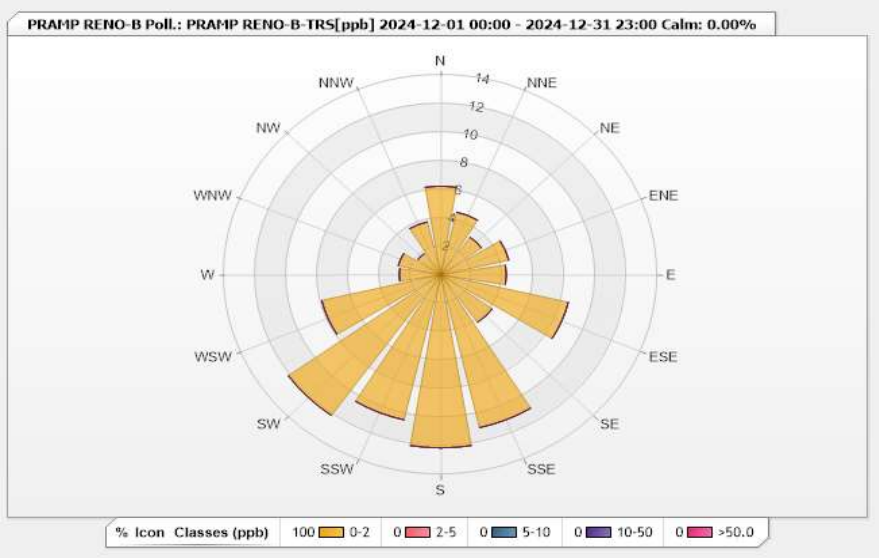


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-TRS[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.30% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.21	0	0	0	0	6.21
NNE	4.51	0	0	0	0	4.51
NE	3.24	0	0	0	0	3.24
ENE	4.51	0	0	0	0	4.51
E	4.23	0	0	0	0	4.23
ESE	8.46	0	0	0	0	8.46
SE	4.09	0	0	0	0	4.09
SSE	11	0	0	0	0	11
S	12.13	0	0	0	0	12.13
SSW	10.44	0	0	0	0	10.44
SW	12.13	0	0	0	0	12.13
WSW	7.9	0	0	0	0	7.9
W	2.68	0	0	0	0	2.68
WNW	2.82	0	0	0	0	2.82
NW	1.83	0	0	0	0	1.83
NNW	3.81	0	0	0	0	3.81
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

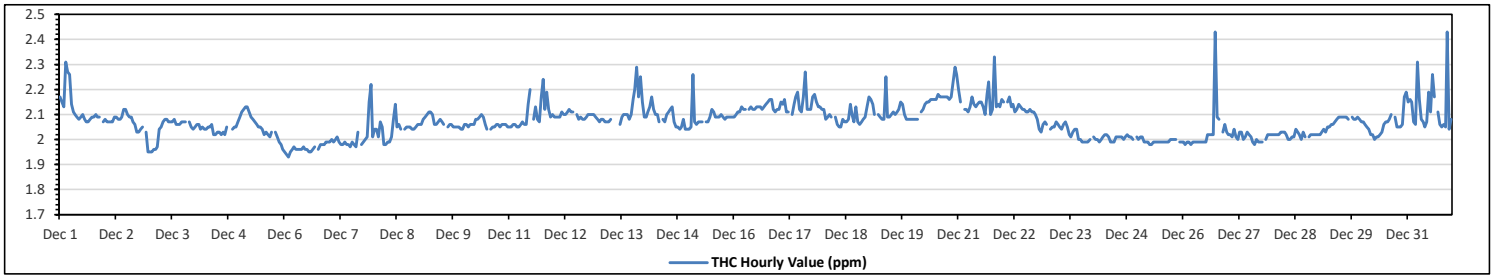
TOTAL HYDROCARBONS (THC) in ppm

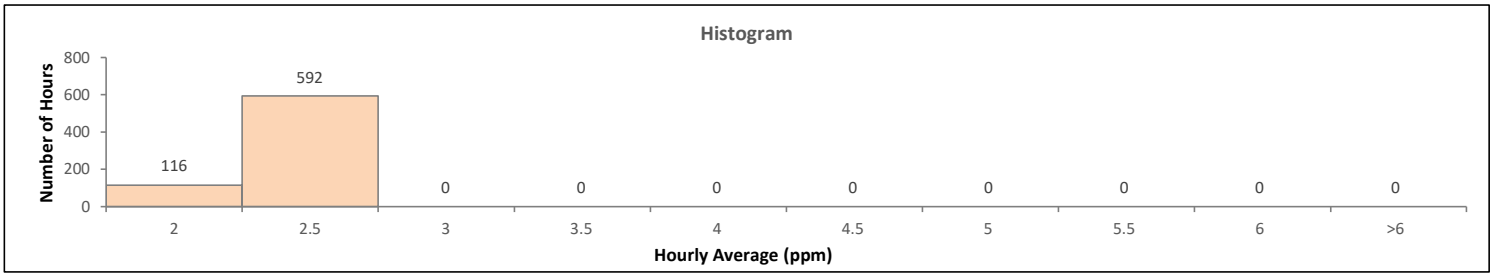
Maximum Hourly Value:	2.43	ppm	on Dec 26 at hr 17	Hours in Service:	744	
Maximum Daily Value:	2.16	ppm	on Dec 20	Hours of Data:	708	
Minimum Hourly Value:	1.93	ppm	on Dec 6 at hr 2	Hours of Missing Data:	1	
Minimum Daily Value:	1.96	ppm	on Dec 6	Hours of Calibration:	35	
Monthly Average:	2.07	ppm		Operational Uptime:	99.9	

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			
Dec 1	2.17	2.15	2.13	2.31	2.27	2.26	2.14	2.11	2.10	2.09	2.08	2.09	2.10	2.08	2.07	2.07	2.08	2.09	2.09	2.10	2.09	2.09	S	2.07	2.07	2.31	2.12
Dec 2	2.08	2.07	2.07	2.07	2.07	2.09	2.09	2.08	2.08	2.09	2.12	2.12	2.10	2.09	2.09	2.07	2.06	2.03	2.03	2.04	2.05	S	2.03	1.95	1.95	2.12	2.07
Dec 3	1.95	1.95	1.96	1.96	1.97	2.04	2.05	2.07	2.08	2.08	2.07	2.07	2.07	2.08	2.06	2.06	2.06	2.07	2.07	2.07	S	2.07	2.05	2.04	1.95	2.08	2.04
Dec 4	2.05	2.06	2.06	2.04	2.05	2.04	2.04	2.05	2.05	2.06	2.02	2.02	2.03	2.03	2.02	2.03	2.02	2.05	X	S	2.04	2.05	2.05	2.07	2.02	2.07	2.04
Dec 5	2.09	2.11	2.12	2.13	2.13	2.11	2.09	2.08	2.07	2.06	2.05	2.05	2.04	2.02	2.03	2.02	2.01	2.03	S	2.03	2.01	1.99	1.98	1.96	1.96	2.13	2.05
Dec 6	1.95	1.94	1.93	1.95	1.96	1.97	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.95	1.96	1.97	S	1.96	1.98	1.98	1.98	1.99	1.99	1.93	1.99	1.96
Dec 7	1.99	2.00	1.99	2.00	2.01	1.99	1.98	1.98	1.99	1.98	1.98	1.97	1.99	1.98	1.97	2.03	S	1.98	1.99	2.00	2.01	2.15	2.22	2.01	1.97	2.22	2.01
Dec 8	2.04	2.04	2.01	2.07	2.05	1.98	1.98	1.99	1.99	2.01	2.08	2.14	2.05	2.06	2.04	S	2.04	2.05	2.05	2.05	2.04	2.04	2.05	2.06	1.98	2.14	2.04
Dec 9	2.06	2.06	2.08	2.09	2.10	2.11	2.11	2.10	2.06	2.06	2.07	2.08	2.07	2.06	S	2.05	2.06	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.11	2.07
Dec 10	2.06	2.06	2.05	2.06	2.06	2.06	2.08	2.08	2.09	2.10	2.09	2.06	2.04	S	2.04	2.05	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.05	2.04	2.10	2.06
Dec 11	2.05	2.05	2.06	2.06	2.05	2.05	2.06	2.07	2.06	2.06	2.14	2.20	S	2.08	2.13	2.08	2.07	2.17	2.24	2.12	2.19	2.12	2.09	2.10	2.05	2.24	2.10
Dec 12	2.09	2.09	2.09	2.09	2.11	2.10	2.10	2.11	2.12	2.11	2.11	S	2.10	2.08	2.09	2.08	2.08	2.09	2.10	2.10	2.10	2.10	2.09	2.08	2.08	2.12	2.10
Dec 13	2.07	2.08	2.08	2.07	2.07	2.07	2.08	C	C	C	C	2.06	2.09	2.10	2.10	2.10	2.08	2.10	2.16	2.20	2.29	2.17	2.25	2.15	2.06	2.29	2.12
Dec 14	2.09	2.09	2.11	2.13	2.17	2.12	2.10	2.10	2.07	S	2.08	2.07	2.10	2.11	2.12	2.13	2.07	2.05	2.05	2.04	2.05	2.08	2.04	2.04	2.04	2.17	2.09
Dec 15	2.04	2.05	2.26	2.07	2.06	2.07	2.07	2.07	S	2.07	2.07	2.09	2.12	2.11	2.09	2.09	2.09	2.10	2.09	2.08	2.09	2.09	2.09	2.09	2.04	2.26	2.09
Dec 16	2.09	2.10	2.11	2.11	2.13	2.12	2.12	S	2.12	2.13	2.12	2.12	2.13	2.13	2.13	2.12	2.13	2.14	2.15	2.16	2.16	2.12	2.11	2.12	2.09	2.16	2.12
Dec 17	2.12	2.15	2.14	2.16	2.11	2.11	S	2.10	2.14	2.17	2.19	2.12	2.11	2.17	2.27	2.12	2.12	2.12	2.17	2.18	2.15	2.13	2.13	2.12	2.10	2.27	2.14
Dec 18	2.12	2.08	2.09	2.10	2.09	S	2.09	2.06	2.05	2.05	2.08	2.07	2.07	2.08	2.14	2.10	2.07	2.13	2.07	2.06	2.07	2.08	2.09	2.13	2.05	2.14	2.09
Dec 19	2.17	2.16	2.14	2.10	S	2.10	2.09	2.08	2.08	2.25	2.09	2.09	2.10	2.11	2.10	2.11	2.12	2.15	2.14	2.10	2.08	2.08	2.08	2.08	2.08	2.25	2.11
Dec 20	2.08	2.08	2.08	S	2.11	2.12	2.14	2.15	2.15	2.16	2.16	2.16	2.16	2.18	2.17	2.17	2.17	2.17	2.17	2.16	2.17	2.23	2.29	2.26	2.08	2.29	**2.16**
Dec 21	2.20	2.15	S	2.12	2.12	2.11	2.13	2.17	2.14	2.13	2.14	2.15	2.15	2.13	2.10	2.18	2.23	2.10	2.12	2.33	2.13	2.14	2.13	2.16	2.10	2.33	2.15
Dec 22	2.15	S	2.15	2.17	2.13	2.14	2.11	2.12	2.14	2.13	2.12	2.12	2.11	2.11	2.12	2.11	2.11	2.10	2.08	2.04	2.03	2.06	2.07	2.06	2.03	2.17	2.11
Dec 23	S	2.04	2.05	2.05	2.07	2.06	2.05	2.04	2.06	2.07	2.05	2.02	2.01	2.03	2.04	2.04	2.00	2.00	1.99	1.99	1.99	1.99	2.00	S	1.99	2.07	2.03
Dec 24	2.01	2.00	2.00	1.99	2.00	2.01	2.02	2.02	2.01	1.99	1.99	1.99	2.01	2.01	2.01	2.01	2.00	2.01	2.02	2.01	2.01	2.00	S	2.01	1.99	2.02	2.01
Dec 25	2.00	2.01	2.01	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	S	1.99	1.99	1.98	2.01	1.99
Dec 26	1.99	1.98	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.02	2.02	2.02	2.02	**2.43**	2.09	2.08	S	2.03	2.06	2.03	1.98	**2.43**	2.03
Dec 27	2.02	2.02	2.01	2.04	2.01	2.00	2.03	2.03	2.00	2.01	2.03	2.02	2.01	1.99	1.98	2.00	1.99	1.99	1.99	S	2.00	2.02	2.02	2.02	1.98	2.04	2.01
Dec 28	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.00	2.00	2.01	2.01	2.04	2.03	2.02	2.00	2.03	2.01	S	2.01	2.02	2.02	2.02	2.02	2.00	2.04	2.02
Dec 29	2.02	2.02	2.03	2.04	2.03	2.05	2.05	2.06	2.06	2.07	2.08	2.09	2.09	2.09	2.09	2.09	2.08	S	2.09	2.08	2.08	2.09	2.08	2.07	2.02	2.09	2.07
Dec 30	2.07	2.06	2.05	2.04	2.02	2.02	2.00	2.01	2.01	2.02	2.03	2.06	2.07	2.07	2.08	2.10	S	2.09	2.05	2.05	2.05	2.06	2.17	2.19	2.00	2.19	2.06
Dec 31	2.15	2.16	2.15	2.07	2.06	2.31	2.16	2.08	2.07	2.05	2.07	2.19	2.11	2.26	2.17	S	2.11	2.06	2.05	2.06	2.05	**2.43**	2.04	2.08	2.04	**2.43**	2.13
Diurnal Maximum	2.20	2.16	2.26	2.31	2.27	2.31	2.16	2.17	2.15	2.25	2.19	2.20	2.16	2.26	2.27	2.18	2.23	2.43	2.24	2.33	2.29	2.43	2.29	2.26			
Diurnal Average	2.07	2.06	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.07	2.09	2.08	2.07			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



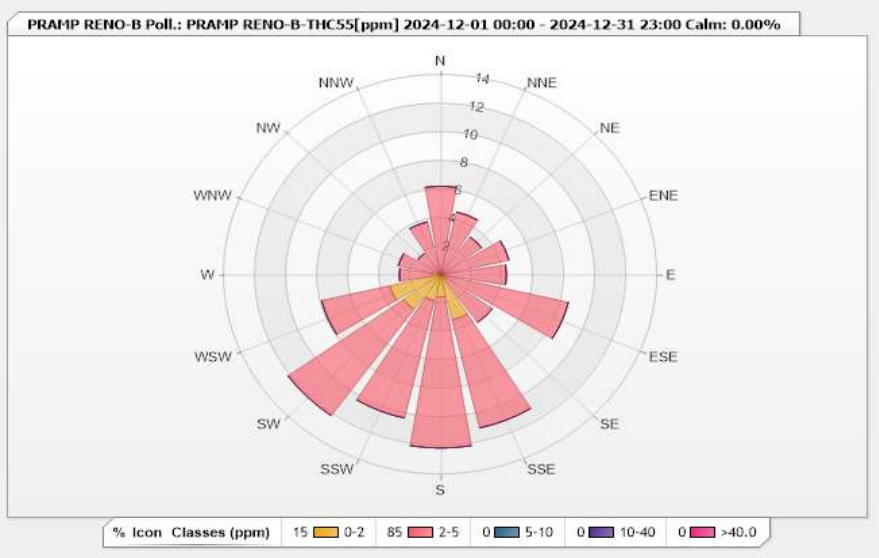


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-THC55[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.14	6.07	0	0	0	6.21
NNE	0.14	4.38	0	0	0	4.52
NE	0.28	2.97	0	0	0	3.25
ENE	0	4.52	0	0	0	4.52
E	0	4.24	0	0	0	4.24
ESE	0.14	8.33	0	0	0	8.47
SE	0.42	3.67	0	0	0	4.09
SSE	3.25	7.77	0	0	0	11.02
S	1.55	10.59	0	0	0	12.14
SSW	1.84	8.47	0	0	0	10.31
SW	2.97	9.18	0	0	0	12.15
WSW	3.39	4.52	0	0	0	7.91
W	0.56	2.12	0	0	0	2.68
WNW	0	2.82	0	0	0	2.82
NW	0.14	1.69	0	0	0	1.83
NNW	0	3.81	0	0	0	3.81
Summary	14.82	85.15	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

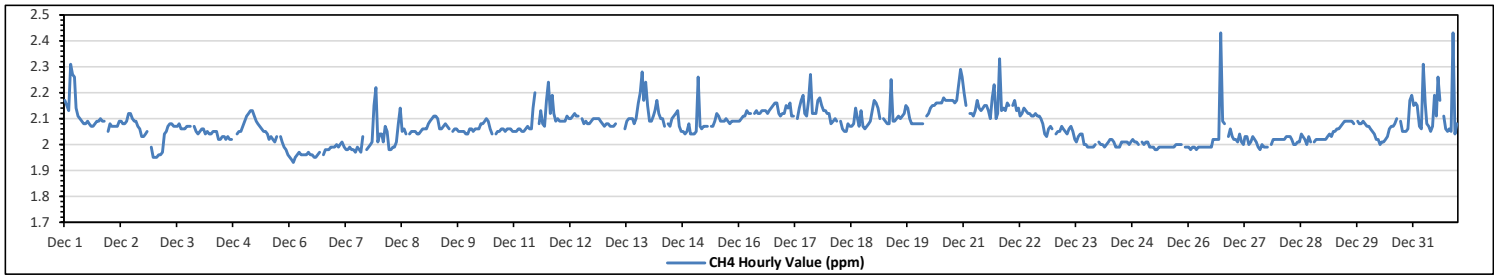
METHANE (CH4) in ppm

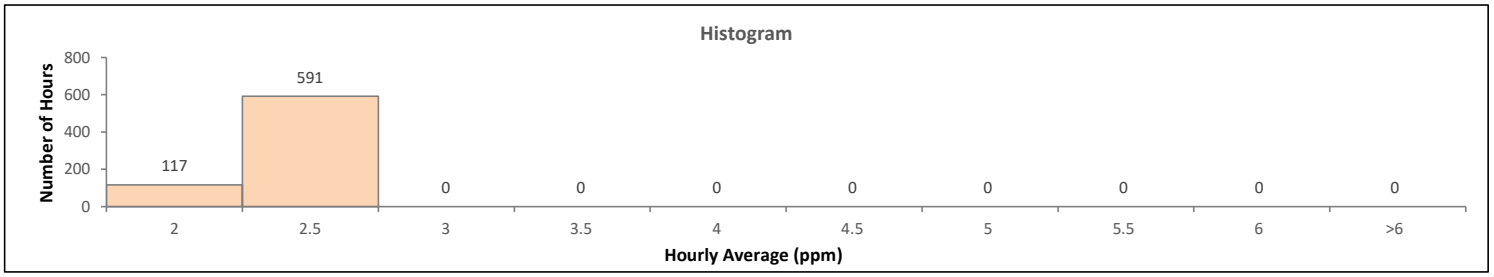
Maximum Hourly Value:	2.43	ppm	on Dec 26 at hr 17	Hours in Service:	744
Maximum Daily Value:	2.16	ppm	on Dec 20	Hours of Data:	708
Minimum Hourly Value:	1.93	ppm	on Dec 6 at hr 2	Hours of Missing Data:	1
Minimum Daily Value:	1.96	ppm	on Dec 6	Hours of Calibration:	35
Monthly Average:	2.07	ppm		Operational Uptime:	99.9

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			
Dec 1	2.17	2.15	2.13	2.31	2.27	2.26	2.14	2.11	2.10	2.09	2.08	2.08	2.09	2.08	2.07	2.07	2.08	2.09	2.09	2.10	2.09	2.09	S	2.05	2.05	2.31	2.12
Dec 2	2.08	2.07	2.07	2.07	2.07	2.09	2.09	2.08	2.08	2.09	2.12	2.12	2.10	2.09	2.09	2.07	2.06	2.03	2.03	2.04	2.05	S	1.99	1.95	1.95	2.12	2.07
Dec 3	1.95	1.95	1.96	1.96	1.97	2.04	2.05	2.07	2.08	2.08	2.07	2.07	2.07	2.08	2.06	2.06	2.06	2.07	2.07	2.07	S	2.07	2.05	2.04	1.95	2.08	2.04
Dec 4	2.05	2.06	2.06	2.04	2.05	2.04	2.04	2.05	2.05	2.05	2.02	2.02	2.03	2.03	2.02	2.03	2.02	2.02	X	S	2.04	2.05	2.05	2.07	2.02	2.07	2.04
Dec 5	2.09	2.11	2.12	2.13	2.13	2.11	2.09	2.08	2.07	2.06	2.05	2.05	2.04	2.02	2.03	2.02	2.01	2.03	S	2.03	2.01	1.99	1.98	1.96	1.96	2.13	2.05
Dec 6	1.95	1.94	1.93	1.95	1.96	1.97	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.95	1.96	1.97	S	1.96	1.98	1.98	1.98	1.99	1.99	1.93	1.99	1.96
Dec 7	1.99	2.00	1.99	2.00	2.01	1.99	1.98	1.98	1.99	1.98	1.98	1.97	1.99	1.98	1.97	2.03	S	1.98	1.99	2.00	2.01	2.15	2.22	2.01	1.97	2.22	2.01
Dec 8	2.04	2.04	2.01	2.07	2.05	1.98	1.98	1.99	1.99	2.01	2.08	2.14	2.05	2.06	2.04	S	2.04	2.05	2.05	2.05	2.04	2.04	2.05	2.06	1.98	2.14	2.04
Dec 9	2.06	2.06	2.08	2.09	2.10	2.11	2.11	2.10	2.06	2.06	2.07	2.08	2.07	2.06	S	2.05	2.06	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.11	2.07
Dec 10	2.06	2.06	2.05	2.06	2.06	2.06	2.08	2.08	2.09	2.10	2.09	2.06	2.04	S	2.04	2.05	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.05	2.04	2.10	2.06
Dec 11	2.05	2.05	2.06	2.06	2.05	2.05	2.06	2.07	2.06	2.06	2.14	2.20	S	2.08	2.13	2.08	2.07	2.17	2.24	2.12	2.19	2.12	2.09	2.10	2.05	2.24	2.10
Dec 12	2.09	2.09	2.09	2.09	2.11	2.10	2.10	2.11	2.12	2.11	2.11	S	2.10	2.08	2.09	2.08	2.08	2.09	2.10	2.10	2.10	2.10	2.09	2.08	2.08	2.12	2.10
Dec 13	2.07	2.08	2.08	2.07	2.07	2.07	2.08	C	C	C	C	2.06	2.09	2.10	2.10	2.10	2.08	2.10	2.16	2.20	2.28	2.17	2.24	2.15	2.06	2.28	2.12
Dec 14	2.09	2.09	2.11	2.13	2.17	2.12	2.10	2.10	2.07	S	2.08	2.07	2.10	2.11	2.12	2.13	2.07	2.05	2.05	2.04	2.05	2.08	2.04	2.04	2.04	2.17	2.09
Dec 15	2.04	2.05	2.26	2.07	2.06	2.07	2.07	2.07	S	2.07	2.07	2.09	2.12	2.11	2.09	2.09	2.09	2.10	2.09	2.08	2.09	2.09	2.09	2.09	2.04	2.26	2.09
Dec 16	2.09	2.10	2.11	2.11	2.13	2.12	2.12	S	2.12	2.13	2.12	2.12	2.13	2.13	2.13	2.12	2.13	2.14	2.15	2.16	2.16	2.12	2.11	2.12	2.09	2.16	2.12
Dec 17	2.12	2.15	2.14	2.16	2.11	2.11	S	2.10	2.14	2.17	2.19	2.12	2.11	2.17	2.27	2.12	2.12	2.12	2.17	2.18	2.15	2.13	2.13	2.12	2.10	2.27	2.14
Dec 18	2.12	2.08	2.09	2.10	2.09	S	2.09	2.06	2.05	2.05	2.08	2.07	2.07	2.08	2.14	2.10	2.07	2.13	2.07	2.06	2.07	2.08	2.09	2.13	2.05	2.14	2.09
Dec 19	2.17	2.16	2.14	2.10	S	2.10	2.09	2.08	2.08	2.25	2.09	2.09	2.10	2.11	2.10	2.11	2.12	2.15	2.14	2.10	2.08	2.08	2.08	2.08	2.08	2.25	2.11
Dec 20	2.08	2.08	2.08	S	2.11	2.12	2.14	2.15	2.15	2.16	2.16	2.16	2.16	2.18	2.17	2.17	2.17	2.17	2.17	2.16	2.17	2.23	2.29	2.26	2.08	2.29	**2.16**
Dec 21	2.20	2.15	S	2.12	2.12	2.11	2.13	2.17	2.14	2.13	2.14	2.15	2.15	2.13	2.10	2.18	2.23	2.10	2.12	2.33	2.13	2.14	2.13	2.16	2.10	2.33	2.15
Dec 22	2.15	S	2.15	2.17	2.13	2.14	2.11	2.12	2.14	2.13	2.12	2.12	2.11	2.11	2.12	2.11	2.11	2.10	2.08	2.04	2.03	2.06	2.07	2.06	2.03	2.17	2.11
Dec 23	S	2.04	2.05	2.05	2.07	2.06	2.05	2.04	2.06	2.07	2.05	2.02	2.01	2.03	2.04	2.04	2.00	2.00	1.99	1.99	1.99	1.99	2.00	S	1.99	2.07	2.03
Dec 24	2.01	2.00	2.00	1.99	2.00	2.01	2.02	2.02	2.01	1.99	1.99	1.99	2.01	2.01	2.01	2.01	2.00	2.01	2.02	2.01	2.01	2.00	S	2.01	1.99	2.02	2.01
Dec 25	2.00	2.01	2.01	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	S	1.99	1.99	1.98	2.01	1.99
Dec 26	1.99	1.98	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.02	2.02	2.02	2.02	**2.43**	2.09	2.08	S	2.03	2.06	2.03	1.98	**2.43**	2.03
Dec 27	2.02	2.02	2.01	2.04	2.01	2.00	2.03	2.03	2.00	2.01	2.03	2.02	2.01	1.99	1.98	2.00	1.99	1.99	1.99	S	2.00	2.02	2.02	2.02	1.98	2.04	2.01
Dec 28	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.00	2.00	2.01	2.01	2.04	2.03	2.02	2.00	2.03	2.01	S	2.01	2.02	2.02	2.02	2.02	2.00	2.04	2.02
Dec 29	2.02	2.02	2.03	2.04	2.03	2.05	2.05	2.06	2.06	2.07	2.08	2.09	2.09	2.09	2.09	2.09	2.08	S	2.09	2.08	2.08	2.09	2.08	2.07	2.02	2.09	2.07
Dec 30	2.07	2.06	2.05	2.04	2.02	2.02	2.00	2.01	2.01	2.02	2.03	2.06	2.07	2.07	2.08	2.10	S	2.09	2.05	2.05	2.05	2.06	2.17	2.19	2.00	2.19	2.06
Dec 31	2.15	2.16	2.15	2.07	2.06	2.31	2.16	2.08	2.07	2.05	2.07	2.19	2.11	2.26	2.17	S	2.11	2.06	2.05	2.06	2.05	**2.43**	2.04	2.08	2.04	**2.43**	2.13
Diurnal Maximum	2.20	2.16	2.26	2.31	2.27	2.31	2.16	2.17	2.15	2.25	2.19	2.20	2.16	2.26	2.27	2.18	2.23	2.43	2.24	2.33	2.28	2.43	2.29	2.26			
Diurnal Average	2.07	2.06	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.07	2.09	2.08	2.07			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



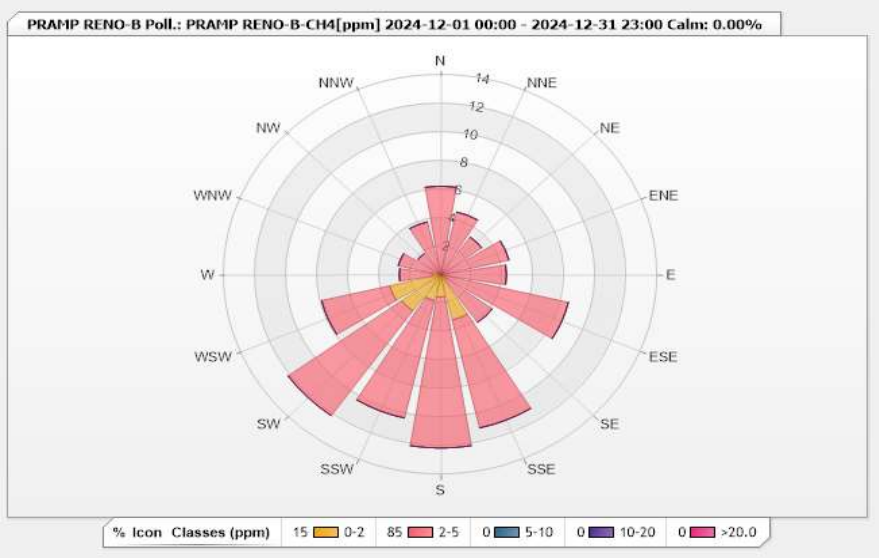


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-CH4[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.14	6.07	0	0	0	6.21
NNE	0.14	4.38	0	0	0	4.52
NE	0.28	2.97	0	0	0	3.25
ENE	0	4.52	0	0	0	4.52
E	0	4.24	0	0	0	4.24
ESE	0.14	8.33	0	0	0	8.47
SE	0.42	3.67	0	0	0	4.09
SSE	3.25	7.77	0	0	0	11.02
S	1.55	10.59	0	0	0	12.14
SSW	1.84	8.47	0	0	0	10.31
SW	3.11	9.04	0	0	0	12.15
WSW	3.39	4.52	0	0	0	7.91
W	0.56	2.12	0	0	0	2.68
WNW	0	2.82	0	0	0	2.82
NW	0.14	1.69	0	0	0	1.83
NNW	0	3.81	0	0	0	3.81
Summary	14.96	85.01	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

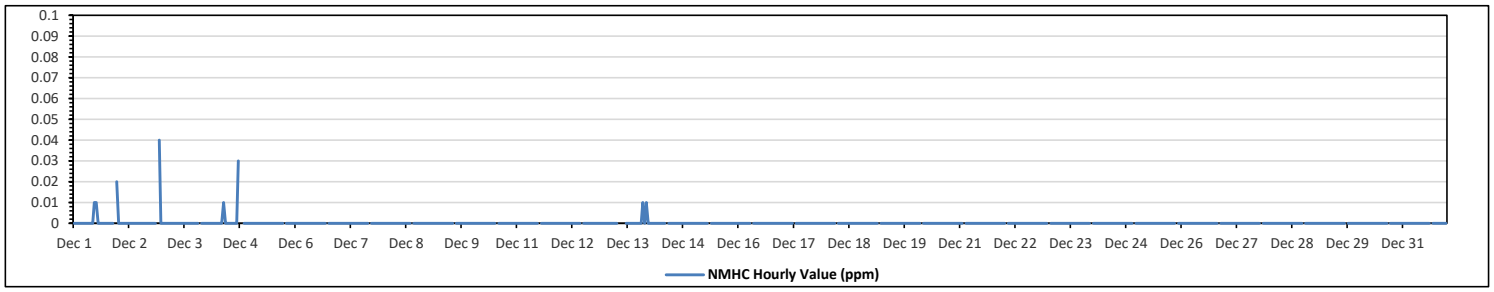
NON-METHANE HYDROCARBONS (NMHC) in ppm

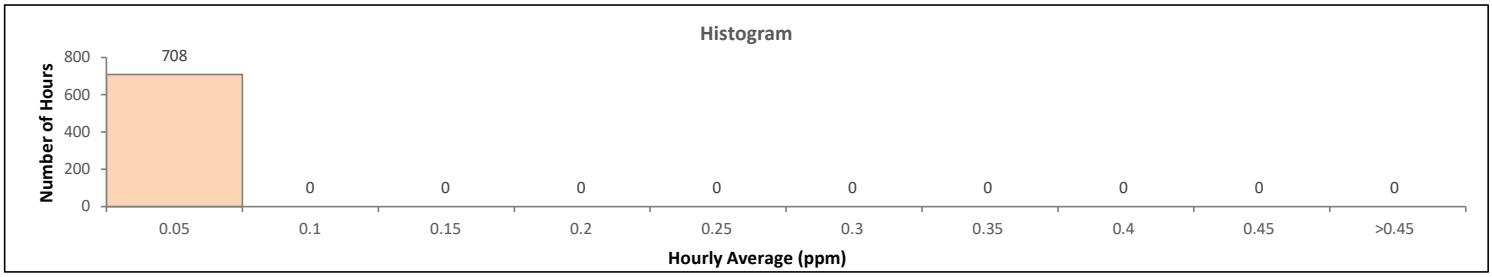
Maximum Hourly Value:	0.04	ppm	on Dec 2 at hr 22	Hours in Service:	744	
Maximum Daily Value:	0.00	ppm	on Dec 4	Hours of Data:	708	
Minimum Hourly Value:	0.00	ppm	on Dec 1 at hr 0	Hours of Missing Data:	1	
Minimum Daily Value:	0.00	ppm	on Dec 3	Hours of Calibration:	35	
Monthly Average:	0.00	ppm		Operational Uptime:	99.9	

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			
Dec 1	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	0.00	0.00	0.00	0.00	0.00	0.00	S	0.02	0.00	0.02	0.00
Dec 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	S	0.04	0.00	0.00	0.04	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00
Dec 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	X	S	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	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
Dec 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	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
Dec 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	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
Dec 12	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
Dec 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00
Dec 14	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
Dec 15	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
Dec 16	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
Dec 17	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
Dec 18	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
Dec 19	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
Dec 20	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
Dec 21	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
Dec 22	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
Dec 23	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
Dec 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Dec 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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
Dec 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
Dec 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
Dec 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.04	0.02			
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	ND	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.



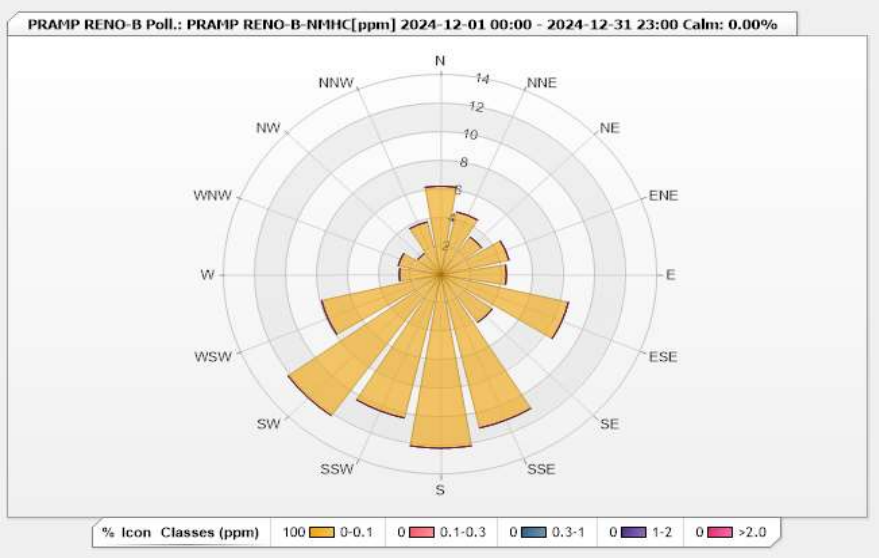


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-NMHC[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.21	0	0	0	0	6.21
NNE	4.52	0	0	0	0	4.52
NE	3.25	0	0	0	0	3.25
ENE	4.52	0	0	0	0	4.52
E	4.24	0	0	0	0	4.24
ESE	8.47	0	0	0	0	8.47
SE	4.1	0	0	0	0	4.1
SSE	11.02	0	0	0	0	11.02
S	12.15	0	0	0	0	12.15
SSW	10.31	0	0	0	0	10.31
SW	12.15	0	0	0	0	12.15
WSW	7.91	0	0	0	0	7.91
W	2.68	0	0	0	0	2.68
WNW	2.82	0	0	0	0	2.82
NW	1.84	0	0	0	0	1.84
NNW	3.81	0	0	0	0	3.81
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

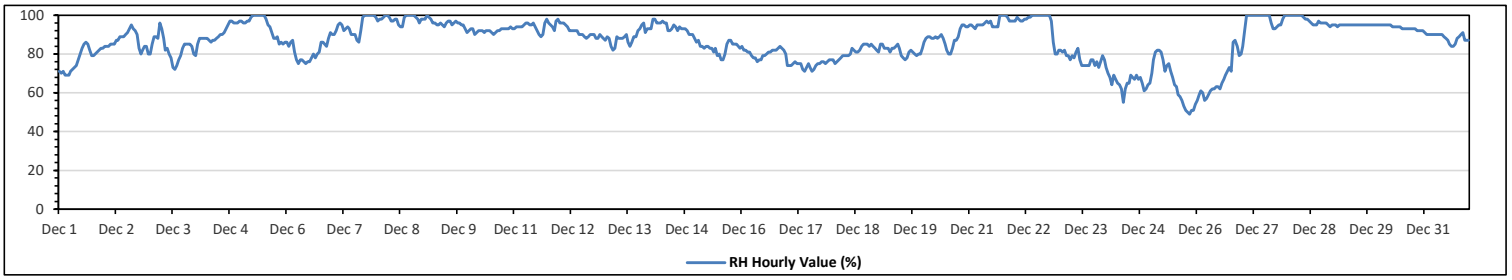
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Dec 5 at hr 6	Hours in Service:	744	
Maximum Daily Value:	98.1	%	on Dec 8	Hours of Data:	744	
Minimum Hourly Value:	49	%	on Dec 25 at hr 20	Hours of Missing Data:	0	
Minimum Daily Value:	65.3	%	on Dec 25	Hours of Calibration:	0	
Monthly Average:	86.8	%		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
Dec 1	71	70	71	69	69	69	71	72	73	74	77	80	83	85	86	85	82	79	79	80	81	82	83	83	69	86	77.3
Dec 2	84	84	84	85	85	85	87	87	89	89	89	90	91	93	95	93	92	90	83	80	82	84	84	80	80	95	86.9
Dec 3	80	85	89	89	88	96	93	88	82	83	80	78	73	72	74	77	79	83	85	85	85	85	84	80	72	96	83.0
Dec 4	79	85	88	88	88	88	88	87	86	87	87	88	89	90	90	91	93	95	97	97	96	96	96	97	79	97	90.3
Dec 5	97	96	96	97	97	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	95	94	91	88	88	89	85	86	85	86	85	**100**	94.5
Dec 6	86	84	86	87	81	77	75	77	77	76	75	76	76	78	80	78	80	81	86	86	85	84	88	91	75	91	81.3
Dec 7	90	90	92	95	96	95	92	93	94	93	90	90	90	87	86	92	99	**100**	**100**	**100**	**100**	**100**	**100**	99	86	**100**	94.3
Dec 8	97	98	98	99	**100**	**100**	99	97	97	98	98	95	94	94	99	**100**	**100**	**100**	**100**	**100**	99	98	96	98	94	**100**	**98.1**
Dec 9	98	98	**100**	99	98	96	96	95	95	96	95	94	96	97	97	95	96	97	96	96	95	95	93	91	91	**100**	96.0
Dec 10	92	93	93	90	91	92	92	92	91	92	92	92	91	90	91	92	92	93	93	93	93	93	94	93	90	94	92.1
Dec 11	93	94	94	94	94	95	96	96	95	95	96	94	92	90	89	90	96	98	96	95	94	92	97	98	89	98	94.3
Dec 12	96	96	96	95	94	92	92	92	92	92	90	90	90	89	88	89	90	90	90	88	88	90	89	88	88	96	91.1
Dec 13	87	89	88	84	82	83	89	88	88	88	89	90	86	84	86	89	89	92	93	95	96	91	93	93	82	96	88.8
Dec 14	93	98	98	96	96	96	97	96	96	92	92	93	95	94	92	94	93	93	93	92	90	90	90	88	88	98	93.6
Dec 15	86	87	84	84	83	84	84	83	83	81	83	79	80	77	77	80	85	87	87	85	85	85	84	83	77	87	83.2
Dec 16	84	82	82	81	81	79	78	78	76	77	77	79	79	80	81	81	82	82	82	83	84	83	82	80	76	84	80.5
Dec 17	74	74	74	75	76	75	75	75	72	71	73	75	73	71	72	74	75	75	76	76	75	76	77	77	71	77	74.4
Dec 18	77	75	76	77	78	79	79	79	79	80	83	82	81	81	82	84	85	85	85	84	85	84	83	82	75	85	81.0
Dec 19	81	85	85	83	83	83	81	83	83	84	85	83	79	78	77	78	81	82	81	80	79	80	80	83	77	85	81.5
Dec 20	86	88	89	89	88	88	89	88	89	90	88	85	82	80	80	83	87	87	89	93	95	95	94	94	80	95	88.2
Dec 21	95	95	94	93	95	95	95	95	96	97	96	97	94	94	94	94	**100**	**100**	**100**	**100**	99	97	97	97	93	**100**	96.2
Dec 22	97	99	98	97	97	98	98	99	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	97	86	80	80	82	80	**100**	96.1
Dec 23	82	81	82	79	79	77	79	78	81	83	77	74	74	74	74	74	77	77	74	76	73	76	79	77	73	83	77.4
Dec 24	73	70	68	64	69	67	65	64	62	55	62	65	65	69	68	67	69	67	68	65	61	62	64	65	55	73	65.6
Dec 25	70	77	81	82	82	81	77	71	74	75	71	68	64	63	59	58	56	53	51	50	**49**	51	51	54	**49**	82	**65.3**
Dec 26	56	59	61	60	56	57	59	61	62	62	63	63	62	65	67	69	71	73	71	86	87	84	79	80	56	87	67.2
Dec 27	84	92	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	96	93	93	94	95	95	98	**100**	**100**	84	**100**	97.5
Dec 28	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	98	97	96	95	95	95	97	96	96	96	96	95	94	95	94	**100**	97.4
Dec 29	95	95	94	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	94	95	95.0
Dec 30	95	95	95	95	95	95	95	94	94	94	94	94	93	93	93	93	93	93	93	93	92	92	92	92	92	95	93.6
Dec 31	91	90	90	90	90	90	90	90	90	90	89	88	87	85	84	84	85	88	89	90	91	87	87	87	84	91	88.4
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	86.1	87.2	87.9	87.5	87.3	87.3	87.3	86.9	86.7	86.7	86.6	86.3	85.5	85.2	85.4	85.9	87.2	87.5	87.4	87.7	87.0	86.6	86.8	86.7			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

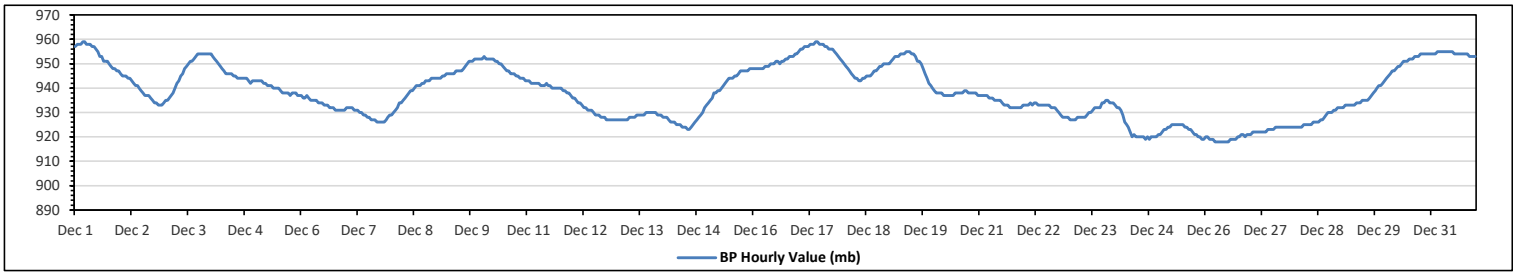
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	959	mb	on Dec 1 at hr 4	Hours in Service:	744	
Maximum Daily Value:	956	mb	on Dec 17	Hours of Data:	744	
Minimum Hourly Value:	918	mb	on Dec 26 at hr 5	Hours of Missing Data:	0	
Minimum Daily Value:	919	mb	on Dec 26	Hours of Calibration:	0	
Monthly Average:	938	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
Dec 1	957	958	958	958	**959**	**959**	958	958	958	957	957	956	955	953	953	951	951	951	950	949	948	948	947	947	947	**959**	954
Dec 2	946	945	945	945	944	944	943	942	941	941	940	939	938	937	937	937	936	935	934	934	933	933	933	934	933	946	939
Dec 3	935	935	936	937	938	940	942	943	945	946	948	949	950	951	951	952	953	954	954	954	954	954	954	954	935	954	947
Dec 4	954	953	952	951	950	949	948	947	946	946	946	946	945	945	944	944	944	944	944	944	943	942	943	943	942	954	946
Dec 5	943	943	943	943	942	942	941	941	941	940	940	940	940	939	938	938	938	938	937	938	938	938	937	937	937	943	940
Dec 6	937	936	936	937	936	935	935	935	935	934	934	934	933	933	933	932	932	932	931	931	931	931	931	931	931	937	934
Dec 7	932	932	932	932	931	931	931	930	930	929	929	928	928	927	927	927	926	926	926	926	926	927	928	929	926	932	929
Dec 8	929	930	931	932	934	934	935	936	937	938	939	939	940	941	941	941	942	942	943	943	943	944	944	944	929	944	938
Dec 9	944	944	944	945	945	946	946	946	946	946	947	947	947	947	948	949	950	951	951	951	952	952	952	952	944	952	948
Dec 10	952	953	952	952	952	952	952	951	951	950	950	949	948	947	947	946	946	946	945	945	944	944	944	943	943	953	948
Dec 11	943	943	942	942	942	942	942	941	941	941	942	941	941	940	940	940	940	940	940	939	939	938	938	937	937	943	941
Dec 12	936	936	935	934	934	933	932	932	931	931	931	930	929	929	929	928	928	928	927	927	927	927	927	927	927	936	930
Dec 13	927	927	927	927	927	927	928	928	928	928	929	929	929	929	929	930	930	930	930	930	930	929	929	929	927	930	929
Dec 14	928	928	928	927	926	926	926	925	925	925	924	924	924	923	923	924	925	926	927	928	929	930	932	933	923	933	927
Dec 15	934	935	936	938	938	939	939	940	941	942	943	944	944	944	945	945	946	947	947	947	947	947	948	948	934	948	943
Dec 16	948	948	948	948	948	948	949	949	949	950	950	950	951	951	950	951	951	952	952	953	953	953	954	954	948	954	950
Dec 17	955	956	956	957	957	957	958	958	958	**959**	**959**	958	958	958	957	957	956	956	956	955	954	953	952	951	951	**959**	**956**
Dec 18	950	949	948	947	946	945	944	944	943	943	944	944	945	945	945	946	947	947	948	949	949	950	950	950	943	950	947
Dec 19	950	951	952	953	953	953	954	954	954	955	955	955	954	954	953	951	951	950	948	946	944	942	941	940	940	955	951
Dec 20	939	938	938	938	938	937	937	937	937	937	937	938	938	938	938	938	939	939	938	938	938	938	938	937	937	939	938
Dec 21	937	937	937	937	937	936	936	936	935	935	935	935	934	933	933	933	932	932	932	932	932	932	932	933	932	937	934
Dec 22	933	933	933	934	933	934	934	933	933	933	933	933	933	933	932	932	932	931	930	929	928	928	928	928	928	934	932
Dec 23	927	927	927	927	928	928	928	928	928	929	930	930	931	932	932	932	932	934	934	935	935	934	934	934	927	935	931
Dec 24	933	932	932	931	929	926	925	924	922	920	921	920	920	920	920	920	919	920	919	920	920	920	920	921	919	933	923
Dec 25	921	922	923	923	924	924	925	925	925	925	925	925	925	924	924	923	923	922	921	921	920	920	919	919	919	925	923
Dec 26	920	920	919	919	919	**918**	**918**	**918**	**918**	**918**	**918**	**918**	**918**	919	919	919	919	920	920	921	921	920	921	921	**918**	921	**919**
Dec 27	921	922	922	922	922	922	922	922	922	923	923	923	923	924	924	924	924	924	924	924	924	924	924	924	921	924	923
Dec 28	924	924	924	924	925	925	925	925	925	926	926	926	926	927	927	928	929	930	930	930	931	931	932	932	924	932	927
Dec 29	932	932	933	933	933	933	933	933	934	934	934	935	935	935	935	936	937	938	939	940	941	941	942	943	932	943	936
Dec 30	944	945	946	947	947	948	949	949	950	951	951	951	952	952	952	953	953	953	954	954	954	954	954	954	944	954	951
Dec 31	954	954	954	955	955	955	955	955	955	955	955	955	954	954	954	954	954	954	954	954	953	953	953	953	953	955	954
Diurnal Maximum	957	958	958	958	959	959	958	958	958	959	959	958	958	958	957	957	956	956	956	955	954	954	954	954			
Diurnal Average	938	938	938	939	938	938	938	938	938	938	939	938	938	938	938	938	938	938	938	938	938	938	938	938			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

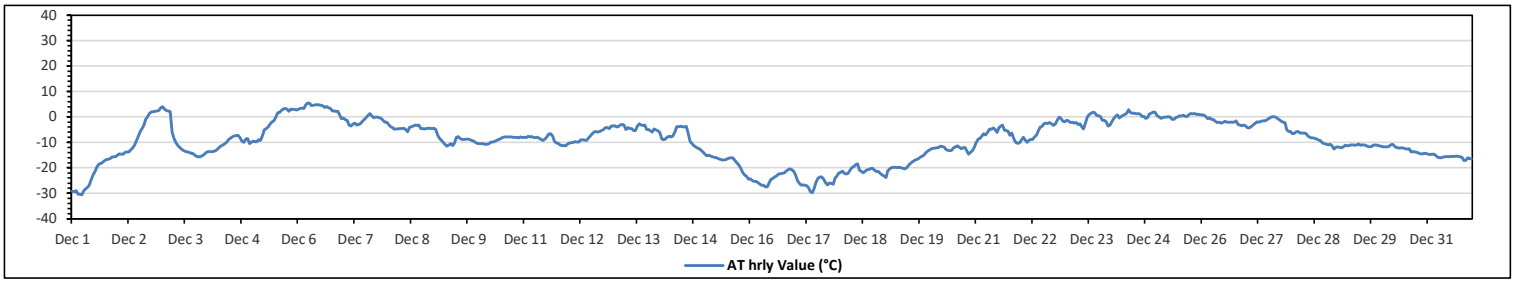
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	5.5	°C	on Dec 6 at hr 5	Hours in Service:	744	
Maximum Daily Value:	3.6	°C	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	-30.6	°C	on Dec 1 at hr 5	Hours of Missing Data:	0	
Minimum Daily Value:	-25.7	°C	on Dec 17	Hours of Calibration:	0	
Monthly Average:	-9.1	°C		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
Dec 1	-29.3	-29.4	-29	-30.4	-30.3	**-30.6**	-29	-28.3	-27.7	-26.9	-24.7	-22.9	-21.4	-19.7	-18.6	-18.3	-17.9	-17.3	-16.8	-16.6	-16.3	-15.8	-15.6	-15.7	**-30.6**	-15.6	-22.9
Dec 2	-14.9	-14.5	-14.6	-14.6	-13.9	-13.7	-13.7	-12.8	-12.1	-10.9	-9.2	-7.7	-5.8	-4.6	-3.1	-1.1	0	1.3	2	2.1	2.3	2.4	2.6	3.8	-14.9	3.8	-6.3
Dec 3	4	3	2.5	2.4	2.1	-5.9	-8.4	-10.1	-11.2	-11.9	-12.6	-13.2	-13.5	-13.7	-13.9	-14.3	-14.4	-15	-15.5	-15.7	-15.6	-15.3	-14.8	-14	-15.7	4.0	-9.8
Dec 4	-13.6	-13.6	-13.6	-13.5	-13.3	-12.6	-12	-11.4	-11	-10.5	-9.8	-9	-8.3	-7.9	-7.4	-7.3	-7.2	-8.1	-9.5	-10	-8.7	-8.5	-10.5	-10	-13.6	-7.2	-10.3
Dec 5	-9.5	-9.7	-9.7	-9	-9.3	-7.4	-5.1	-4.6	-4	-2.8	-1.9	-1.5	-0.1	1.6	1.9	2.5	3.1	3.3	3.1	2.3	3.1	2.9	2.9	2.7	-9.7	3.3	-1.9
Dec 6	2.9	3.4	3.5	3.4	4.9	**5.5**	5.3	4.5	4.6	4.8	4.9	4.7	4.6	4.3	3.8	4.1	3.7	3.4	2.4	2.4	2.3	2.3	1	-0.7	-0.7	**5.5**	**3.6**
Dec 7	-0.4	-1	-1.4	-3.1	-3.6	-2.8	-2.4	-3.1	-2.9	-2.6	-1.7	-1.1	-0.2	0.6	1.3	0.5	-0.2	-0.1	-0.1	-0.3	-0.5	-1.4	-2	-2.1	-3.6	1.3	-1.3
Dec 8	-3	-3.8	-4.2	-4.8	-4.7	-4.7	-4.5	-4.6	-4.4	-5	-5.8	-4.1	-3.9	-3.5	-3.2	-3.3	-3.2	-4.5	-4.6	-4.7	-4.6	-4.4	-4.4	-4.6	-5.8	-3.0	-4.3
Dec 9	-4.4	-4.9	-7.2	-8.5	-9.2	-10.1	-10.9	-11.5	-10.9	-10.5	-11.2	-10.4	-8.1	-7.7	-8.4	-8.8	-8.9	-8.7	-8.7	-8.9	-9.2	-9.5	-10	-10.3	-11.5	-4.4	-9.0
Dec 10	-10.5	-10.5	-10.5	-10.8	-10.8	-10.6	-10	-9.8	-9.7	-9.4	-9	-8.7	-8.2	-8	-7.8	-7.8	-7.8	-7.9	-8	-8.1	-8	-8.2	-7.9	-8.1	-10.8	-7.8	-9.0
Dec 11	-8	-8.1	-7.6	-7.8	-7.7	-8.1	-8.1	-8	-8.3	-8.8	-9.3	-8.7	-7.8	-6.7	-6.6	-7.5	-9.6	-10.2	-10.3	-11	-11.2	-11.2	-11.4	-10.6	-11.4	-6.6	-8.9
Dec 12	-10.2	-10.1	-9.9	-9.7	-9.8	-9.8	-9	-9	-9.1	-9.3	-8.4	-7.6	-6.8	-6	-5.6	-6	-5.6	-5.3	-4.9	-4.2	-4.2	-4.6	-3.5	-3.6	-10.2	-3.5	-7.2
Dec 13	-3.4	-4	-3.8	-3.2	-2.9	-3.2	-5	-4.2	-4.5	-4.5	-5.3	-5.4	-3.6	-2.7	-3.1	-3.3	-3.2	-5	-5	-5.5	-5.9	-4.7	-5.1	-5.5	-5.9	-2.7	-4.3
Dec 14	-6.1	-8.6	-9	-8.6	-7.9	-7.6	-7.9	-7.5	-5.9	-3.9	-3.9	-3.7	-3.9	-4	-3.7	-6.6	-9.7	-10.4	-11.2	-11.7	-12.2	-12.4	-13.1	-13.7	-13.7	-3.7	-8.1
Dec 15	-14.6	-15.2	-15	-15.4	-15.6	-15.9	-16.1	-16.4	-16.6	-16.9	-16.9	-16.8	-16.4	-16.2	-16.1	-16.2	-17.1	-18	-18.9	-20.2	-21.8	-22.9	-23.3	-24.4	-24.4	-14.6	-17.6
Dec 16	-24.3	-25	-25.4	-25.4	-25.7	-26.3	-26.8	-26.8	-27.4	-27.4	-26.1	-24.5	-24.2	-23.6	-23.1	-22.5	-22.3	-22.2	-22	-21.4	-20.8	-20.4	-20.6	-21.3	-27.4	-20.4	-24.0
Dec 17	-22.7	-24.9	-26.1	-26.8	-26.7	-26.8	-27.1	-27.8	-29.5	-29.7	-28.2	-25.7	-24.2	-23.5	-23.5	-24.4	-25.8	-26.7	-25.9	-26	-26.5	-23.9	-23.3	-22	-29.7	-22.0	**-25.7**
Dec 18	-21.8	-21.3	-22.1	-22.4	-22.2	-21	-20	-19.5	-18.8	-18.4	-20.9	-21.5	-21.9	-21.3	-20.8	-20.6	-20.3	-20.2	-20.9	-21.5	-21.5	-22.1	-22.8	-23.2	-23.2	-18.4	-21.1
Dec 19	-23.8	-21.3	-20.4	-19.9	-19.8	-19.8	-19.9	-19.8	-20	-20.2	-20.4	-20.1	-19	-18.3	-17.6	-17.1	-16.8	-16.5	-16.1	-15.5	-15.1	-14.3	-13.6	-13.1	-23.8	-13.1	-18.3
Dec 20	-12.6	-12.3	-12.2	-12.1	-12	-11.5	-11.6	-11.9	-12.8	-13.2	-13.3	-13.1	-12.1	-11.7	-11.4	-11.9	-12.5	-12.1	-12	-13.3	-14.6	-13.8	-13.3	-11.9	-14.6	-11.4	-12.5
Dec 21	-10	-8.7	-8.5	-7.6	-6.6	-7.1	-6.1	-4.8	-4.8	-4.3	-4.9	-6.1	-4.2	-3.5	-3.2	-5.2	-5.4	-5.7	-7.2	-6.3	-8.5	-9.9	-10.3	-10.2	-10.3	-3.2	-6.6
Dec 22	-9.1	-8	-9.1	-9.9	-9.1	-8.9	-8.8	-7.8	-7.2	-5.5	-4	-3.7	-2.7	-2.4	-2.6	-2.2	-2.7	-3.3	-2.8	-1.3	-0.1	-0.6	-1.5	-1.9	-9.9	-0.1	-4.8
Dec 23	-1.4	-1.5	-2.2	-2.1	-2.4	-2.2	-2.9	-2.7	-4	-4.7	-2.4	-0.1	1	1.5	1.8	1.7	0.6	0.4	0.2	-1.4	-1.3	-1.9	-3.6	-3.2	-4.7	1.8	-1.4
Dec 24	-1.8	-0.5	0.2	0.9	-0.4	0.2	0.6	1	1.5	2.8	1.7	1.4	1.5	1.2	1.3	1.1	0.2	0.2	-0.5	-0.2	1.2	1.5	2	1.8	-1.8	2.8	0.8
Dec 25	0.4	0.1	-0.5	-0.2	-0.1	-0.1	0	-0.1	-0.9	-0.9	-0.2	-0.1	0.5	0.3	0.7	0.2	0.2	1	1.3	1.2	1.3	1	1.1	0.8	-0.9	1.3	0.3
Dec 26	0.8	0.7	0.2	-0.6	-0.2	-0.9	-1.1	-1.6	-2.2	-2.1	-2.4	-2.2	-1.7	-2.1	-2.1	-2	-2	-2	-1.5	-2.9	-3.2	-3.4	-3.1	-3.4	-3.4	0.8	-1.7
Dec 27	-4.2	-4.3	-3.9	-3.1	-2.6	-1.9	-2	-1.8	-1.5	-1.5	-1.3	-0.8	-0.3	0.1	0	-0.1	-0.6	-1.2	-1.6	-2	-2.3	-4.9	-5.6	-5.6	-5.6	0.1	-2.2
Dec 28	-6.6	-6.5	-5.8	-5.7	-6.3	-6.4	-6.4	-6.5	-7.4	-8	-8.2	-8.2	-8.5	-8.7	-9.1	-9.4	-10.2	-10.5	-10.8	-10.9	-10.8	-11.3	-12.6	-11.9	-12.6	-5.7	-8.6
Dec 29	-11.8	-12	-12.1	-11.7	-11.1	-11.3	-11.2	-11	-11	-11.1	-10.9	-10.7	-11.1	-10.9	-11	-11.2	-11.6	-11.7	-11.6	-11.1	-10.9	-11.1	-11.3	-11.5	-12.1	-10.7	-11.3
Dec 30	-11.7	-11.8	-11.8	-11.6	-11	-10.8	-11.4	-12	-12.1	-12.2	-12.1	-12.2	-12.4	-12.6	-12.5	-13.7	-13.6	-13.7	-13.9	-14.2	-14.5	-14.5	-14.3	-14.4	-14.5	-10.8	-12.7
Dec 31	-14.6	-14.8	-14.7	-14.7	-15.1	-15.8	-16.1	-16	-15.8	-15.7	-15.5	-15.6	-15.5	-15.5	-15.5	-15.4	-15.5	-15.6	-15.9	-17.2	-17	-16.1	-16.4	-16.4	-17.2	-14.6	-15.7
Diurnal Maximum	4.0	3.4	3.5	3.4	4.9	5.5	5.3	4.5	4.6	4.8	4.9	4.7	4.6	4.3	3.8	4.1	3.7	3.4	3.1	2.4	3.1	2.9	2.9	3.8			
Diurnal Average	-9.6	-9.6	-9.8	-9.9	-9.8	-9.9	-9.9	-9.9	-9.9	-9.7	-9.5	-9.0	-8.3	-7.9	-7.7	-7.9	-8.3	-8.5	-8.6	-8.8	-8.9	-8.9	-9.2	-9.2			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

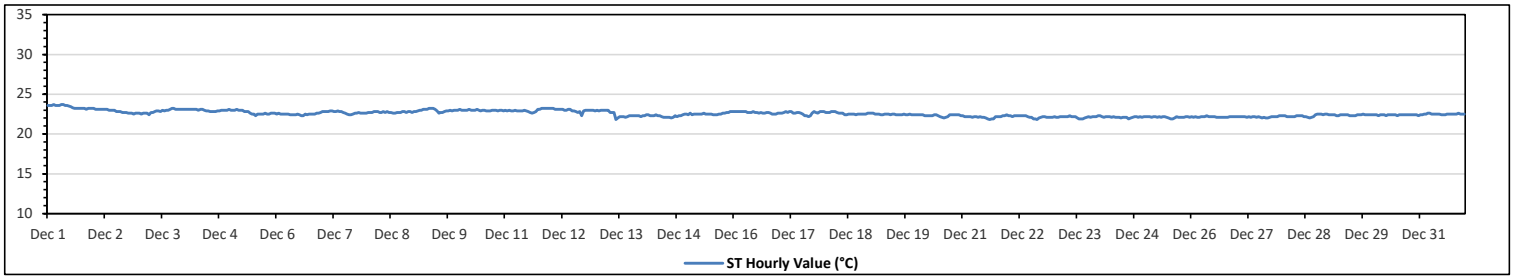
STATION TEMPERATURE (ST) in Degree Celsius

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

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

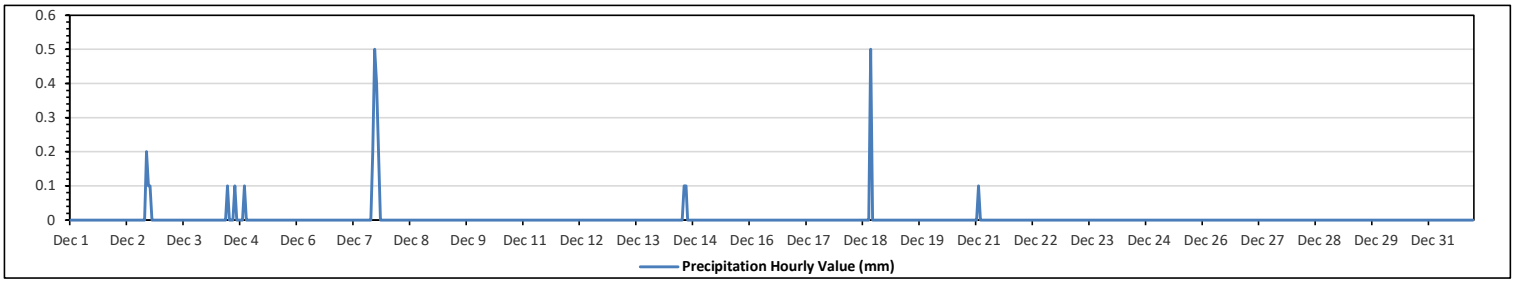
PRECIPITATION in mm

Maximum Hourly Value:	0.5	mm	on Dec 7 at hr 17	Hours in Service:	744	
Maximum Daily Value:	1.3	mm	on Dec 7	Hours of Data:	744	
Minimum Hourly Value:	0.0	mm	on Dec 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	mm	on Dec 1	Hours of Calibration:	0	
Monthly Total:	2.8	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			
Dec 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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0.1	0	0	0	0	0	0.0	0.2	0.4
Dec 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dec 4	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.1	0	0	0	0	0.1	0	0	0	0.0	0.1	0.3
Dec 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
Dec 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Dec 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	**0.5**	0.4	0.2	0	0	0	0	0.0	**0.5**	**1.3**
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0.0	0.1	0.2
Dec 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
Dec 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
Dec 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
Dec 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0.5**	0	0	0	0	0	0	0	0.0	**0.5**	0.5
Dec 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
Dec 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
Dec 21	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	0.1	0.1
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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
Dec 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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.5	0.5	0.4	0.2	0.1	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			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

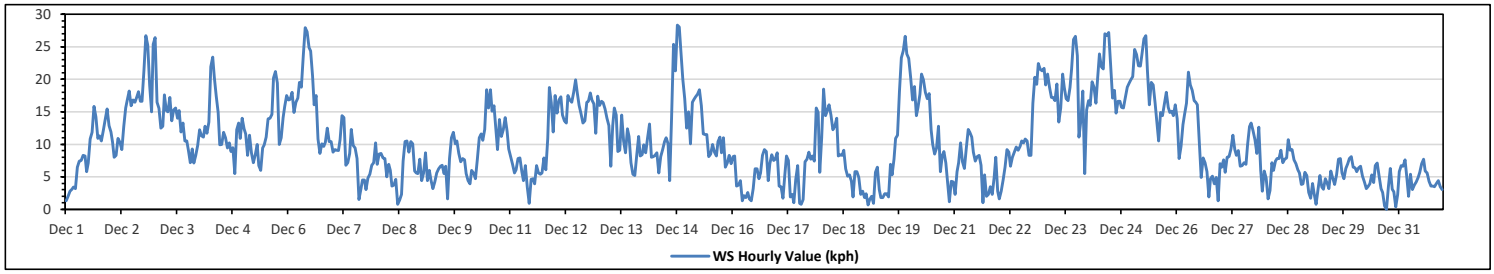
VECTOR WIND SPEED (VWS) in km/hr

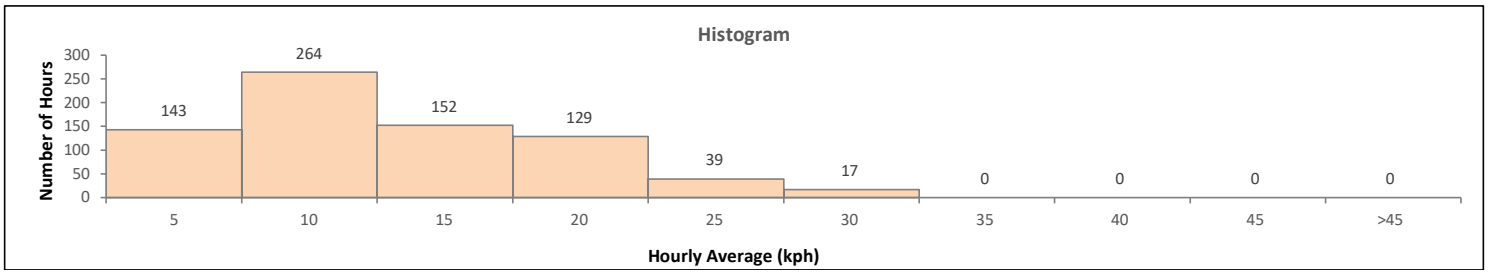
Maximum Hourly Value:	28.3	kph	on Dec 14 at hr 18	Hours in Service:	744
Maximum Daily Value:	19.5	kph	on Dec 24	Hours of Data:	744
Minimum Hourly Value:	0.0	kph	on Dec 30 at hr 17	Hours of Missing Data:	0
Minimum Daily Value:	4.1	kph	on Dec 30	Hours of Calibration:	0
Monthly Average:	4.1	kph		Operational 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
Dec 1	1.3	2.0	2.8	3.1	3.4	3.2	6.5	7.4	7.5	8.3	8.2	5.8	7.1	10.8	11.8	15.8	14.2	10.9	11.3	10.5	12.1	13.8	15.4	12.9	1.3	15.8	8.6
Dec 2	11.9	10.3	8.0	8.3	10.9	10.3	9.2	12.7	15.6	16.8	18.2	15.9	16.8	16.5	17.3	18.1	16.6	16.6	21.3	26.7	25.2	19.0	15.0	25.4	8.0	26.7	15.9
Dec 3	26.4	16.5	15.5	12.5	12.8	17.6	15.2	15.0	17.2	13.6	15.3	15.6	14.0	15.2	11.9	13.3	10.5	10.5	9.1	7.2	9.3	7.1	8.3	9.8	7.1	26.4	13.3
Dec 4	12.2	11.3	11.1	12.8	11.7	13.4	21.9	23.4	20.3	17.4	14.9	9.9	10.0	11.8	11.0	9.4	10.2	8.9	9.5	5.5	12.2	13.3	10.9	14.0	5.5	23.4	12.8
Dec 5	12.4	11.6	8.3	11.4	8.7	7.2	8.4	10.0	6.7	6.0	9.4	9.9	11.1	13.9	14.0	14.6	20.2	21.2	19.4	10.0	11.0	14.1	15.8	17.5	6.0	21.2	12.2
Dec 6	16.8	16.9	18.0	14.9	16.5	17.1	19.5	18.8	23.6	27.9	27.3	24.9	24.3	20.5	16.1	17.5	10.8	8.6	10.1	9.7	10.3	12.5	10.4	10.4	8.6	27.9	16.8
Dec 7	8.8	9.2	9.1	9.0	10.7	14.4	14.1	6.8	7.2	8.6	12.3	9.8	9.4	7.8	1.5	3.1	4.5	4.5	3.0	4.8	5.4	6.8	7.2	10.2	1.5	14.4	7.8
Dec 8	6.9	8.5	8.6	7.9	7.8	5.0	6.9	6.0	3.6	3.7	4.6	0.8	1.4	2.3	7.4	10.4	10.5	8.8	10.4	10.1	5.9	5.6	5.5	7.7	0.8	10.5	6.5
Dec 9	4.4	5.6	8.7	4.4	6.0	4.5	3.2	4.2	5.6	6.2	6.6	6.8	5.5	6.6	1.6	7.8	11.0	11.8	10.1	10.5	8.6	7.3	7.8	7.6	1.6	11.8	6.8
Dec 10	5.5	4.4	3.9	6.0	5.6	4.7	7.7	11.0	11.6	10.6	12.3	18.4	15.6	18.4	15.1	15.9	12.2	9.2	13.8	11.2	12.2	14.1	12.0	9.3	3.9	18.4	10.9
Dec 11	8.1	6.9	5.6	6.1	7.8	7.9	5.8	4.4	6.7	3.4	0.9	4.6	4.7	3.9	6.7	5.6	5.4	5.6	7.9	6.1	10.9	18.7	16.4	11.9	0.9	18.7	7.2
Dec 12	17.5	14.8	16.8	17.3	14.5	13.6	13.3	17.5	16.8	16.5	18.0	19.9	18.0	16.0	14.7	13.3	13.6	16.5	16.6	17.9	16.8	16.2	11.7	17.4	11.7	19.9	16.1
Dec 13	16.0	16.6	16.4	15.4	14.0	12.9	6.6	12.9	15.6	14.5	8.9	9.1	14.5	10.5	8.7	12.4	11.2	7.2	5.4	5.2	8.3	11.2	8.2	8.4	5.2	16.6	11.3
Dec 14	9.9	8.7	11.0	13.1	8.0	8.1	8.3	8.7	5.6	8.1	9.2	10.4	11.0	10.1	4.4	14.2	25.4	21.3	**28.3**	28.0	24.3	20.0	17.0	12.5	4.4	**28.3**	13.6
Dec 15	15.0	10.1	16.5	16.9	17.3	17.7	18.4	15.9	11.6	11.5	11.5	8.1	8.5	10.0	8.8	8.2	10.4	11.1	8.7	11.0	6.5	7.1	8.3	7.0	6.5	18.4	11.5
Dec 16	8.1	8.2	3.6	3.7	4.4	1.3	2.1	1.8	2.6	1.6	1.3	3.2	6.2	6.2	4.7	5.6	8.3	9.2	8.9	4.4	7.0	8.4	7.5	7.7	1.3	9.2	5.3
Dec 17	8.7	3.6	3.5	1.7	5.4	8.2	7.5	1.9	2.3	1.0	4.6	6.7	0.9	0.8	1.5	7.3	7.7	8.8	7.7	8.2	7.4	15.6	14.9	5.7	0.8	15.6	5.9
Dec 18	11.0	18.5	14.4	15.1	16.1	14.5	12.2	12.8	14.0	8.2	8.4	8.3	9.1	6.2	5.1	5.3	4.3	1.9	5.8	5.8	4.9	2.3	2.8	1.8	1.8	18.5	8.7
Dec 19	2.4	0.7	1.5	2.0	0.9	5.7	6.5	3.0	1.8	1.8	2.4	2.4	1.9	6.9	5.3	7.7	10.9	11.4	18.1	23.3	24.4	26.6	23.9	23.2	0.7	26.6	8.9
Dec 20	20.3	16.8	18.9	14.4	15.7	17.7	20.8	19.9	18.0	17.0	17.8	12.2	10.0	8.5	9.4	12.8	5.8	8.3	8.9	7.1	4.4	1.2	4.3	4.2	1.2	20.8	12.3
Dec 21	2.3	5.8	7.2	10.2	7.3	6.3	9.4	12.3	11.8	11.1	8.8	7.4	8.1	8.3	6.8	1.0	5.3	2.0	2.3	3.5	2.3	4.9	8.0	2.8	1.0	12.3	6.5
Dec 22	1.6	2.8	4.5	6.5	9.2	8.8	6.6	8.0	8.8	9.6	9.1	9.7	10.5	10.2	10.8	10.5	8.3	8.3	16.3	20.3	19.2	22.4	21.5	21.3	1.6	22.4	11.0
Dec 23	21.7	19.1	20.8	18.8	17.2	17.2	16.7	19.3	13.4	15.6	20.8	18.8	17.0	16.7	18.7	21.6	26.1	26.6	23.6	11.1	13.7	18.2	5.5	15.3	5.5	26.6	18.1
Dec 24	16.7	16.0	19.6	18.8	16.3	19.9	23.9	21.9	21.6	27.0	26.7	27.2	22.2	17.1	18.3	14.8	16.6	16.6	15.7	15.6	17.2	18.8	19.4	19.9	14.8	27.2	**19.5**
Dec 25	20.4	24.6	23.8	22.1	22.0	23.9	26.2	26.7	21.3	16.1	19.5	19.1	16.3	13.7	10.5	14.9	14.4	16.2	18.0	15.7	14.9	15.1	14.4	16.1	10.5	26.7	18.6
Dec 26	13.9	7.8	9.7	13.0	14.6	16.3	21.1	19.1	18.3	16.7	16.5	16.1	10.4	4.9	7.9	7.2	5.8	1.9	4.7	5.1	3.9	4.9	1.3	7.0	1.3	21.1	10.3
Dec 27	6.5	7.6	5.7	8.0	8.1	9.3	11.4	9.2	8.3	9.0	6.6	6.7	7.2	6.9	10.0	12.7	13.3	12.1	10.7	8.6	12.6	6.0	2.8	5.9	2.8	13.3	8.6
Dec 28	4.8	1.6	2.9	7.2	6.0	7.4	7.8	7.8	9.1	7.2	7.7	7.9	10.7	9.1	9.2	7.6	7.0	6.1	5.6	3.8	3.9	5.7	5.2	2.6	1.6	10.7	6.4
Dec 29	1.7	4.0	2.4	0.8	3.0	5.2	3.4	3.1	4.7	4.0	3.2	5.9	4.8	3.8	5.3	7.7	7.8	5.6	4.7	6.3	7.0	7.8	8.1	6.5	0.8	8.1	4.9
Dec 30	6.4	5.8	6.4	6.6	5.1	4.2	3.2	3.5	3.9	5.3	4.1	6.7	7.1	5.1	3.2	2.6	0.5	**0.0**	3.5	6.3	3.1	2.7	0.4	2.3	**0.0**	7.1	**4.1**
Dec 31	5.8	6.7	6.6	7.6	4.7	2.0	5.4	3.0	3.7	4.2	4.9	5.7	7.0	7.7	5.9	5.6	4.3	3.6	3.6	3.5	4.0	4.4	3.5	3.0	2.0	7.7	4.9
Diurnal Maximum	26.4	24.6	23.8	22.1	22.0	23.9	26.2	26.7	23.6	27.9	27.3	27.2	24.3	20.5	18.7	21.6	26.1	26.6	28.3	28.0	25.2	26.6	23.9	25.4			
Diurnal Average	10.5	9.8	10.1	10.2	10.1	10.5	11.3	11.2	10.9	10.6	11.0	10.8	10.4	9.9	9.1	10.5	10.7	10.0	11.1	10.4	10.6	11.3	10.1	10.6			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



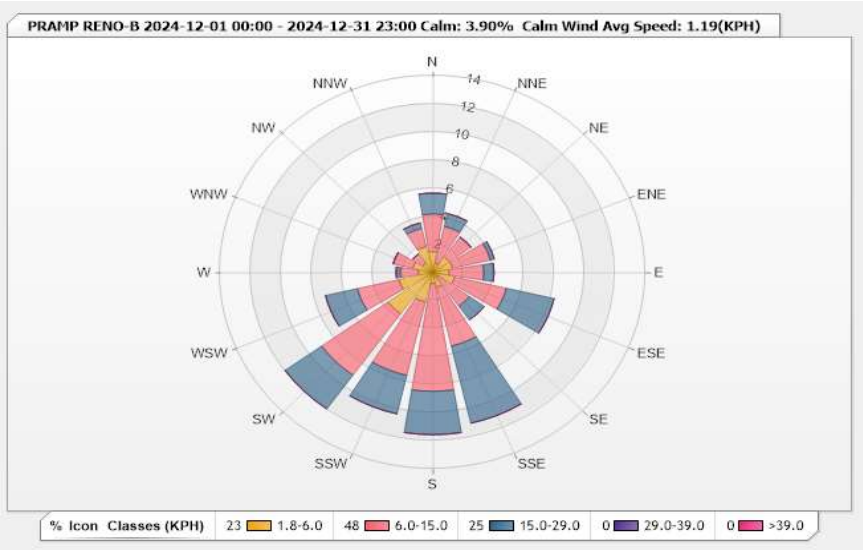


Station: PRAMP RENO-B Monitor: WDS [KPH] Monthly: 12-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 3.90% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.48	2.69	1.48	0	0	5.65
NNE	0.67	2.69	0.94	0	0	4.3
NE	1.34	1.75	0	0	0	3.09
ENE	1.34	2.55	0.27	0	0	4.16
E	1.08	2.28	0.67	0	0	4.03
ESE	1.48	3.49	3.23	0	0	8.2
SE	0.4	2.55	1.21	0	0	4.16
SSE	1.08	4.3	5.65	0	0	11.03
S	0.81	7.66	3.09	0	0	11.56
SSW	2.15	5.38	2.82	0	0	10.35
SW	3.63	5.38	2.96	0	0	11.97
WSW	2.28	2.82	2.15	0	0	7.25
W	0.94	1.21	0.27	0	0	2.42
WNW	1.34	1.34	0	0	0	2.68
NW	0.81	0.81	0	0	0	1.62
NNW	1.88	1.34	0.4	0	0	3.62
Summary	22.71	48.24	25.14	0	0	96.09



Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

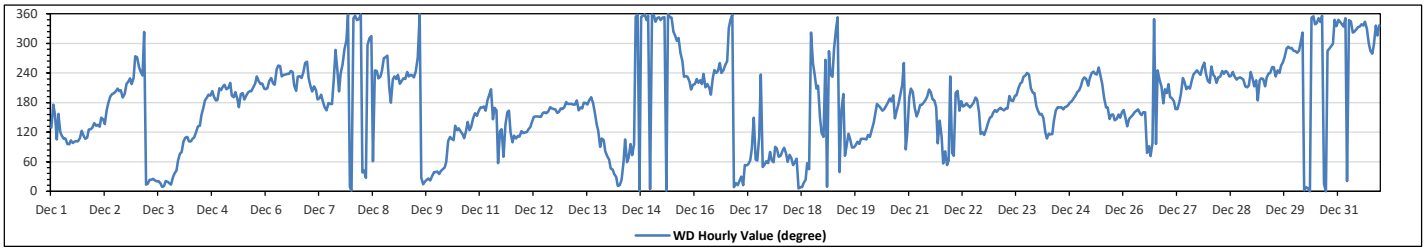
WIND DIRECTION (VWD) in sector

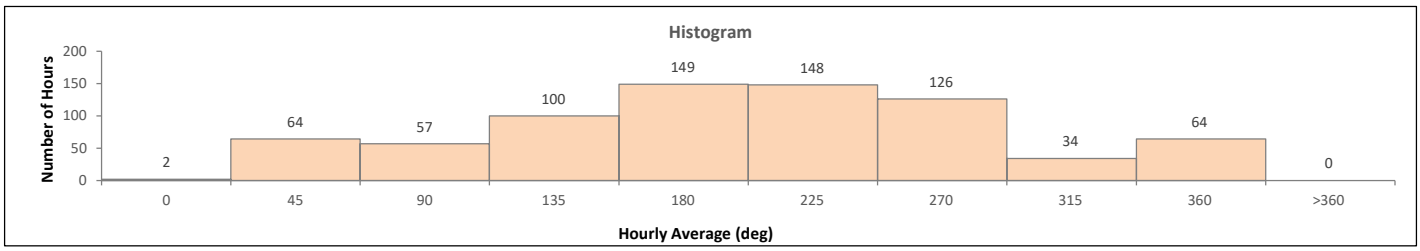
Monthly Average:	175 (S)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Dec 1	SE	S	SSE	ESE	SSE	ESE	ESE	ESE	ESE	E	E	ESE	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	112	ESE
Dec 2	SE	SE	SE	SE	SSE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SW	SW	SW	SW	W	198	SSW
Dec 3	W	WSW	WSW	SW	NW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE	3	N
Dec 4	ENE	ENE	E	ESE	ESE	E	E	ESE	ESE	ESE	SE	SE	SSE	SSE	S	S	SSW	SSW	SSW	S	S	S	SSW	SSW	139	SE
Dec 5	SSW	SW	SSW	SSW	SW	SSW	S	SSW	S	S	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW	207	SSW
Dec 6	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	SSW	SSW	SW	SW	SW	WSW	WSW	W	234	SW
Dec 7	SW	SSW	SSW	SSW	SSW	S	S	SSW	S	S	SSE	S	S	S	SW	WNW	WSW	SSW	WSW	WSW	WNW	NW	N	N	204	SSW
Dec 8	N	N	N	NNW	NNW	N	NE	NE	NNE	WNW	NW	NW	ENE	WSW	WSW	SW	SW	WSW	W	W	W	SSW	S	SW	291	WNW
Dec 9	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	WSW	W	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	319	NW
Dec 10	NE	NE	NE	NE	NE	ENE	E	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE	SE	SSE	SSE	SSE	119	ESE
Dec 11	SSE	SSE	S	SSE	S	SSW	SSW	SE	SSE	SSE	ENE	ESE	SE	ENE	SE	SSE	SSE	ESE	E	ESE	ESE	ESE	ESE	ESE	138	SE
Dec 12	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	152	SSE
Dec 13	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S	S	S	S	S	SSE	SE	ESE	E	ESE	ESE	E	ENE	164	SSE
Dec 14	ENE	NE	NE	NE	NNE	NNE	NNE	NNE	ENE	ESE	ENE	ENE	E	ENE	E	N	N	N	N	N	N	NNW	N	N	18	NNE
Dec 15	N	N	NNW	N	N	NNW	N	N	N	N	N	N	NW	NW	WNW	NW	W	W	SW	SW	SW	SW	SSW	SW	328	NNW
Dec 16	SW	SW	SW	SW	SW	SW	SSW	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NNW	NNW	N	N	NNE	260	WSW
Dec 17	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	E	SSE	ENE	ENE	ESE	SW	NE	NE	ENE	ENE	E	ENE	ENE	E	E	ENE	63	ENE
Dec 18	ENE	E	E	ENE	ENE	ENE	ENE	NE	ENE	ENE	N	N	N	NNE	NNE	ENE	NE	NW	WSW	SW	SSW	SSW	SSE	ESE	60	ENE
Dec 19	ESE	W	N	WNW	SW	SW	WNW	NNW	N	NE	SSE	SSW	ENE	E	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	101	E
Dec 20	ESE	ESE	ESE	SE	SE	SSE	S	S	SSE	SSE	SSE	S	S	S	S	SSW	SE	SSE	S	SSW	SW	WSW	E	ESE	157	SSE
Dec 21	S	SSW	SSW	SSE	SSE	SSE	S	S	S	S	S	SSW	SSW	S	S	S	E	SE	ESE	NE	E	NE	ENE	SW	172	S
Dec 22	ENE	ENE	SSW	SSW	SSE	S	S	S	S	S	SSE	S	S	S	S	SSE	ESE	ESE	ESE	SE	SE	SSE	SSE	SSE	156	SSE
Dec 23	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSW	SSW	SW	SW	SW	SW	WSW	SW	SSW	SSW	SSW	S	194	SSW
Dec 24	SSE	SSE	SSE	SSE	ESE	ESE	ESE	ESE	SE	SSE	S	SSE	S	SSE	S	SSE	S	S	S	S	S	SSW	SSW	SSW	160	SSE
Dec 25	SSW	SW	SW	SW	SSW	SW	WSW	WSW	SW	SW	WSW	SW	SW	S	SSE	SSE	SE	SSE	SSE	SE	SE	SSE	SSE	SSE	206	SSW
Dec 26	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ENE	E	ENE	E	NNW	E	WSW	SW	SSW	S	SSW	154	SSE
Dec 27	SSW	SW	S	S	S	SSE	SSE	S	SSW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	WSW	W	WSW	SW	217	SW
Dec 28	SW	WSW	SW	SW	SW	SW	SW	WSW	SW	WSW	WSW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	WSW	232	SW
Dec 29	SW	SSW	SW	S	SW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	256	WSW
Dec 30	WNW	W	WNW	WNW	NW	N	N	N	N	N	N	NNW	NNW	N	NNW	N	NNE	N	WNW	WNW	WNW	WNW	NNW	NNW	324	NW
Dec 31	NNW	NNW	NNW	NNW	N	NNE	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	WNW	W	WNW	NNW	NW	NNW	332	NNW

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance		
K	Collection Error	ND	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.





Peace River Area Monitoring Program

Reno-B Station - December 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	28.3	kph	on Dec 14 at hr 18	Hours in Service:	744
Maximum Daily Value:	19.5	kph	on Dec 24	Hours of Data:	744
Minimum Hourly Value:	0.0	kph	on Dec 30 at hr 17	Hours of Missing Data:	0
Minimum Daily Value:	4.1	kph	on Dec 30	Hours of Calibration:	0
Monthly Average:	4.1	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 175 degree (S)

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			
Dec 1	1.3	2.0	2.8	3.1	3.4	3.2	6.5	7.4	7.5	8.3	8.2	5.8	7.1	10.8	11.8	15.8	14.2	10.9	11.3	10.5	12.1	13.8	15.4	12.9	1.3	15.8	8.6
	SE	S	SSE	ESE	SSE	ESE	ESE	ESE	ESE	E	E	ESE	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	SE	SE			112(ESE)
Dec 2	11.9	10.3	8.0	8.3	10.9	10.3	9.2	12.7	15.6	16.8	18.2	15.9	16.8	16.5	17.3	18.1	16.6	16.6	21.3	26.7	25.2	19.0	15.0	25.4	8.0	26.7	15.9
	SE	SE	SE	SE	SSE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SW	SW	SW	SW	W			198(SSW)
Dec 3	26.4	16.5	15.5	12.5	12.8	17.6	15.2	15.0	17.2	13.6	15.3	15.6	14.0	15.2	11.9	13.3	10.5	10.5	9.1	7.2	9.3	7.1	8.3	9.8	7.1	26.4	13.3
	W	WSW	WSW	SW	NW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE			3(N)
Dec 4	12.2	11.3	11.1	12.8	11.7	13.4	21.9	23.4	20.3	17.4	14.9	9.9	10.0	11.8	11.0	9.4	10.2	8.9	9.5	5.5	12.2	13.3	10.9	14.0	5.5	23.4	12.8
	ENE	ENE	E	ESE	ESE	E	E	ESE	ESE	ESE	SE	SE	SSE	SSE	S	S	SSW	SSW	SSW	S	S	S	SSW	SSW			139(SE)
Dec 5	12.4	11.6	8.3	11.4	8.7	7.2	8.4	10.0	6.7	6.0	9.4	9.9	11.1	13.9	14.0	14.6	20.2	21.2	19.4	10.0	11.0	14.1	15.8	17.5	6.0	21.2	12.2
	SSW	SW	SSW	SSW	SW	SSW	S	SSW	S	S	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SSW			207(SSW)
Dec 6	16.8	16.9	18.0	14.9	16.5	17.1	19.5	18.8	23.6	27.9	27.3	24.9	24.3	20.5	16.1	17.5	10.8	8.6	10.1	9.7	10.3	12.5	10.4	10.4	8.6	27.9	16.8
	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	SSW	SSW	SW	SW	SW	WSW	WSW	W			234(SW)
Dec 7	8.8	9.2	9.1	9.0	10.7	14.4	14.1	6.8	7.2	8.6	12.3	9.8	9.4	7.8	1.5	3.1	4.5	4.5	3.0	4.8	5.4	6.8	7.2	10.2	1.5	14.4	7.8
	SW	SSW	SSW	SSW	SSW	S	S	SSW	S	S	SSE	S	S	S	SW	WNW	WSW	SSW	WSW	WSW	WNW	NW	N	N			204(SSW)
Dec 8	6.9	8.5	8.6	7.9	7.8	5.0	6.9	6.0	3.6	3.7	4.6	0.8	1.4	2.3	7.4	10.4	10.5	8.8	10.4	10.1	5.9	5.6	5.5	7.7	0.8	10.5	6.5
	N	N	N	NNW	NNW	N	NE	NE	NNE	WNW	NW	NW	ENE	WSW	WSW	SW	SW	WSW	W	W	W	SSW	S	SW			291(WNW)
Dec 9	4.4	5.6	8.7	4.4	6.0	4.5	3.2	4.2	5.6	6.2	6.6	6.8	5.5	6.6	1.6	7.8	11.0	11.8	10.1	10.5	8.6	7.3	7.8	7.6	1.6	11.8	6.8
	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	WSW	W	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE			319(NW)
Dec 10	5.5	4.4	3.9	6.0	5.6	4.7	7.7	11.0	11.6	10.6	12.3	18.4	15.6	18.4	15.1	15.9	12.2	9.2	13.8	11.2	12.2	14.1	12.0	9.3	3.9	18.4	10.9
	NE	NE	NE	NE	NE	ENE	E	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE	SE	SSE	SSE	SSE			119(ESE)
Dec 11	8.1	6.9	5.6	6.1	7.8	7.9	5.8	4.4	6.7	3.4	0.9	4.6	4.7	3.9	6.7	5.6	5.4	5.6	7.9	6.1	10.9	18.7	16.4	11.9	0.9	18.7	7.2
	SSE	SSE	S	SSE	S	SSW	SSW	SE	SSE	SSE	ENE	ESE	SE	ENE	SE	SSE	SSE	ESE	E	ESE	ESE	ESE	ESE	ESE			138(SE)
Dec 12	17.5	14.8	16.8	17.3	14.5	13.6	13.3	17.5	16.8	16.5	18.0	19.9	18.0	16.0	14.7	13.3	13.6	16.5	16.6	17.9	16.8	16.2	11.7	17.4	11.7	19.9	16.1
	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S			152(SSE)
Dec 13	16.0	16.6	16.4	15.4	14.0	12.9	6.6	12.9	15.6	14.5	8.9	9.1	14.5	10.5	8.7	12.4	11.2	7.2	5.4	5.2	8.3	11.2	8.2	8.4	5.2	16.6	11.3
	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S	S	S	S	S	SSE	SE	ESE	E	ESE	ESE	E	ENE			164(SSE)
Dec 14	9.9	8.7	11.0	13.1	8.0	8.1	8.3	8.7	5.6	8.1	9.2	10.4	11.0	10.1	4.4	14.2	25.4	21.3	**28.3**	28.0	24.3	20.0	17.0	12.5	4.4	**28.3**	13.6
	ENE	NE	NE	NE	NNE	NNE	NNE	NNE	ENE	ESE	ENE	ENE	E	ENE	E	N	N	N	N	N	N	NNW	N	N			18(NNE)
Dec 15	15.0	10.1	16.5	16.9	17.3	17.7	18.4	15.9	11.6	11.5	11.5	8.1	8.5	10.0	8.8	8.2	10.4	11.1	8.7	11.0	6.5	7.1	8.3	7.0	6.5	18.4	11.5
	N	N	NNW	N	N	NNW	N	N	N	N	N	N	NW	NW	WNW	NW	W	W	SW	SW	SW	SW	SSW	SW			328(NNW)
Dec 16	8.1	8.2	3.6	3.7	4.4	1.3	2.1	1.8	2.6	1.6	1.3	3.2	6.2	6.2	4.7	5.6	8.3	9.2	8.9	4.4	7.0	8.4	7.5	7.7	1.3	9.2	5.3
	SW	SW	SW	SW	SW	SW	SSW	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NNW	NNW	N	N	NNE			260(WSW)
Dec 17	8.7	3.6	3.5	1.7	5.4	8.2	7.5	1.9	2.3	1.0	4.6	6.7	0.9	0.8	1.5	7.3	7.7	8.8	7.7	8.2	7.4	15.6	14.9	5.7	0.8	15.6	5.9
	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	E	SSE	ENE	ENE	ESE	SW	NE	NE	ENE	ENE	E	ENE	ENE	E	E	ENE			63(ENE)
Dec 18	11.0	18.5	14.4	15.1	16.1	14.5	12.2	12.8	14.0	8.2	8.4	8.3	9.1	6.2	5.1	5.3	4.3	1.9	5.8	5.8	4.9	2.3	2.8	1.8	1.8	18.5	8.7
	ENE	E	E	ENE	ENE	ENE	ENE	NE	ENE	ENE	N	N	N	NNE	NNE	ENE	NE	NW	WSW	SW	SSW	SSW	SSE	ESE			60(ENE)
Dec 19	2.4	0.7	1.5	2.0	0.9	5.7	6.5	3.0	1.8	1.8	2.4	2.4	1.9	6.9	5.3	7.7	10.9	11.4	18.1	23.3	24.4	26.6	23.9	23.2	0.7	26.6	8.9
	ESE	W	N	WNW	SW	SW	WNW	NNW	N	NE	SSE	SSW	ENE	E	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE			101(E)
Dec 20	20.3	16.8	18.9	14.4	15.7	17.7	20.8	19.9	18.0	17.0	17.8	12.2	10.0	8.5	9.4	12.8	5.8	8.3	8.9	7.1	4.4	1.2	4.3	4.2	1.2	20.8	12.3
	ESE	ESE	ESE	SE	SE	SSE	S	S	SSE	SSE	SSE	S	S	S	S	SSW	SE	SSE	S	SSW	SW	WSW	E	ESE			157(SSE)
Dec 21	2.3	5.8	7.2	10.2	7.3	6.3	9.4	12.3	11.8	11.1	8.8	7.4	8.1	8.3	6.8	1.0	5.3	2.0	2.3	3.5	2.3	4.9	8.0	2.8	1.0	12.3	6.5
	S	SSW	SSW	SSE	SSE	SSE	S	S	S	S	S	SSW	SSW	S	S	S	E	SE	ESE	NE	E	NE	ENE	SW			172(S)
Dec 22	1.6	2.8	4.5	6.5	9.2	8.8	6.6	8.0	8.8	9.6	9.1	9.7	10.5	10.2	10.8	10.5	8.3	8.3	16.3	20.3	19.2	22.4	21.5	21.3	1.6	22.4	11.0
	ENE	ENE	SSW	SSW	SSE	S	S	S	S	S	SSE	S	S	S	S	SSE	ESE	ESE	ESE	SE	SE	SSE	SSE	SSE			156(SSE)
Dec 23	21.7	19.1	20.8	18.8	17.2	17.2	16.7	19.3	13.4	15.6	20.8	18.8	17.0	16.7	18.7	21.6	26.1	26.6	23.6	11.1	13.7	18.2	5.5	15.3	5.5	26.6	18.1
	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSW	SSW	SW	SW	SW	SW	WSW	SW	SSW	SSW	SSW	S			194(SSW)
Dec 24	16.7	16.0	19.6	18.8	16.3	19.9	23.9	21.9	21.6	27.0	26.7	27.2	22.2	17.1	18.3	14.8	16.6	16.6	15.7	15.6	17.2	18.8	19.4	19.9	14.8	27.2	**19.5**
	SSE	SSE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	SE	SSE	S	SSE	S	SSE	S	S	S	S	S	S	SSW	SSW	SSW			160(SSE)
Dec 25	20.4	24.6	23.8	22.1	22.0	23.9	26.2	26.7	21.3	16.1	19.5	19.1	16.3	13.7	10.5	14.9	14.4	16.2	18.0	15.7	14.9	15.1	14.4	16.1	10.5	26.7	18.6
	SSW	SW	SW	SW	SSW	SW	WSW	WSW	SW	SW	WSW	SW	SW	S	SSE	SSE	SE	SSE	SSE	SE	SE	SSE	SSE	SSE			206(SSW)
Dec 26	13.9	7.8	9.7	13.0	14.6	16.3	21.1	19.1	18.3	16.7	16.5	16.1	10.4	4.9	7.9	7.2	5.8	1.9	4.7	5.1	3.9	4.9	1.3	7.0	1.3	21.1	10.3
	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	ENE	E	ENE	E	NNW	E	WSW	SW	SSW	S	SSW			154(SSE)
Dec 27	6.5	7.6	5.7	8.0	8.1	9.3	11.4	9.2	8.3	9.0	6.6	6.7	7.2	6.9	10.0	12.7	13.3	12.1	10.7	8.6	12.6	6.0	2.8	5.9	2.8	13.3	8.6
	SSW	SW	S	S	S	SSE	SSE	S	SSW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	WSW	W	WSW	SW			217(SW)
Dec 28	4.8	1.6	2.9	7.2	6.0	7.4	7.8	7.8	9.1	7.2	7.7	7.9	10.7	9.1	9.2	7.6	7.0	6.1	5.6	3.8	3.9	5.7	5.2	2.6	1.6	10.7	6.4
	SW	WSW	SW	SW	SW	SW	SW	WSW	SW	WSW	WSW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	WSW			232(SW)
Dec 29	1.7	4.0	2.4	0.8	3.0	5.2	3.4	3.1	4.7	4.0	3.2	5.9	4.8	3.8	5.3	7.7	7.8	5.6	4.7	6.3	7.0	7.8	8.1	6.5	0.8	8.1	4.9
	SW	SSW	SW	S	SW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW			256(WSW)
Dec 30	6.4	5.8	6.4	6.6	5.1	4.2	3.2	3.5	3.9	5.3	4.1	6.7	7.1	5.1	3.2	2.6	0.5	**0.0**	3.5	6.3	3.1	2.7	0.4	2.3	**0.0**	7.1	**4.1**
	WNW	W	WNW	WNW	NW	N	N	N	N	N	N	NNW	NNW	N	NNW	N	NNE	N	WNW	WNW	WNW	WNW	NNW	NNW			324(NW)
Dec 31	5.8	6.7	6.6	7.6	4.7	2.0	5.4	3.0	3.7	4.2	4.9	5.7	7.0	7.7	5.9	5.6	4.3	3.6	3.6	3.5	4.0	4.4	3.5	3.0	2.0	7.7	4.9
	NNW	NNW	NNW	NNW	N	NNE	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	WNW	W	WNW	NNW	NW	NNW			332(NNW)

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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 - December 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

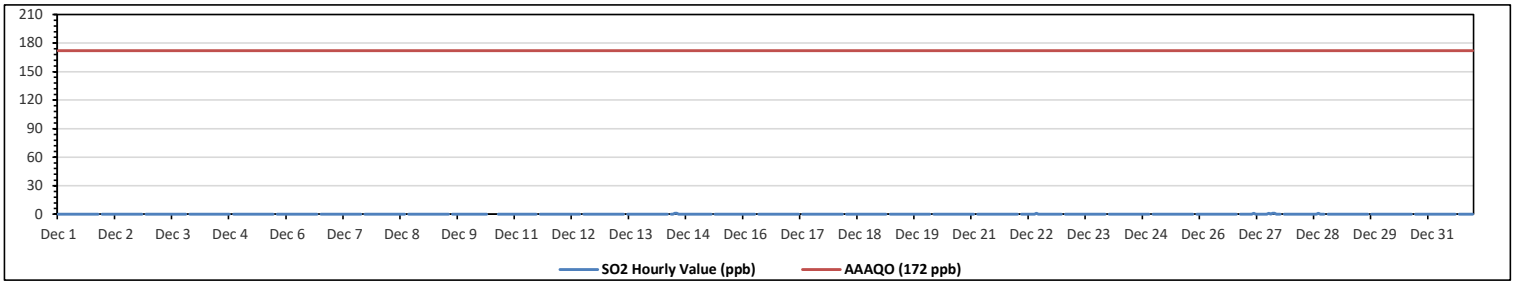
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

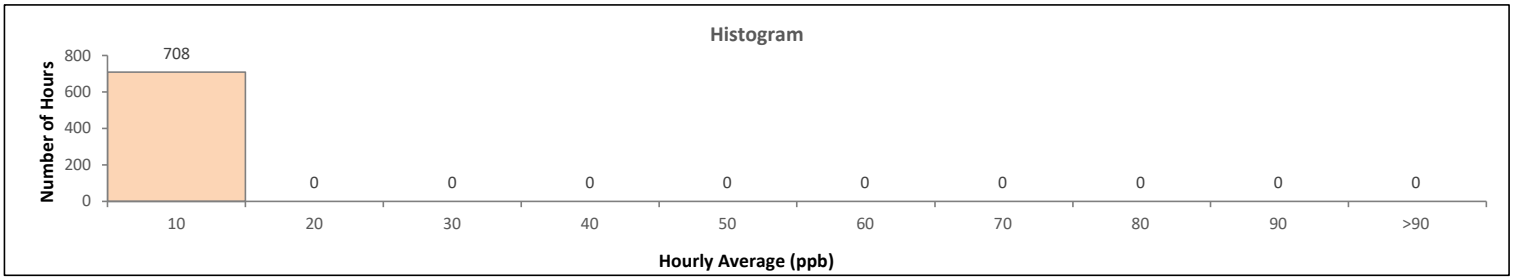
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Dec 14 at hr 12	Hours in Service:	744	
Maximum Daily Value:	0.2	ppb	on Dec 27	Hours of Data:	708	
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Dec 1	Hours of Calibration:	36	
Monthly Average:	0.0	ppb		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	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
Dec 2	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
Dec 3	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
Dec 4	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
Dec 5	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
Dec 6	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
Dec 7	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
Dec 8	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
Dec 9	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
Dec 10	0	0	0	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
Dec 11	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
Dec 12	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
Dec 13	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
Dec 14	0	0	0	0	0	0	0	0	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Dec 15	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
Dec 16	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
Dec 17	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
Dec 18	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
Dec 19	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
Dec 20	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
Dec 21	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
Dec 22	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Dec 23	S	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
Dec 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	0	0.0
Dec 25	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
Dec 26	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
Dec 27	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	S	0	0	0	0	0	1	0.2
Dec 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	1	0.0
Dec 29	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
Dec 30	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
Dec 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	0.0
Diurnal Maximum	0	0	0	0	1	0	0	0	0	0	1	0	1	1	1	1	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	0.1	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	ND	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.



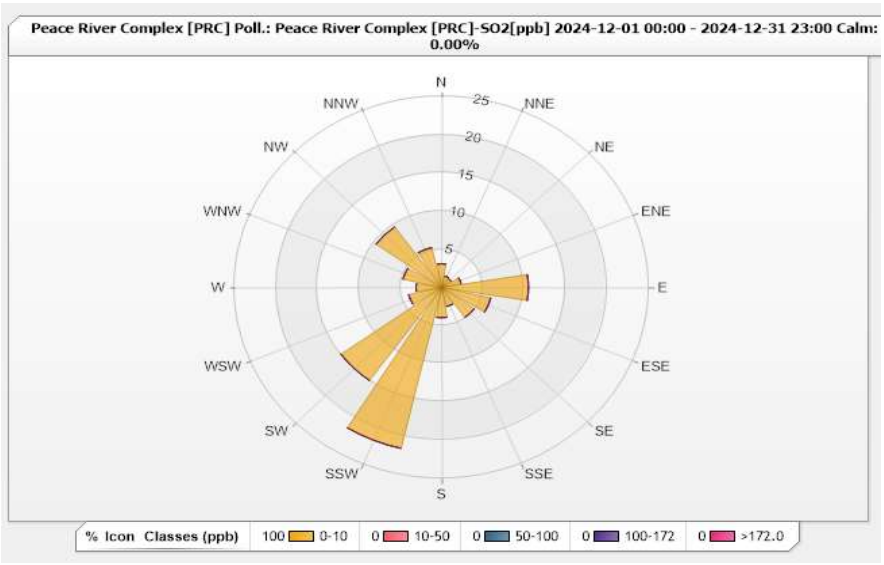


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	3.11	0	0	0	0	3.11
NNE	1.55	0	0	0	0	1.55
NE	1.41	0	0	0	0	1.41
ENE	2.4	0	0	0	0	2.4
E	10.45	0	0	0	0	10.45
ESE	6.07	0	0	0	0	6.07
SE	4.8	0	0	0	0	4.8
SSE	2.54	0	0	0	0	2.54
S	3.95	0	0	0	0	3.95
SSW	21.61	0	0	0	0	21.61
SW	14.97	0	0	0	0	14.97
WSW	4.1	0	0	0	0	4.1
W	3.11	0	0	0	0	3.11
WNW	4.8	0	0	0	0	4.8
NW	9.75	0	0	0	0	9.75
NNW	5.37	0	0	0	0	5.37
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

HYDROGEN SULPHIDE (H_2S) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb

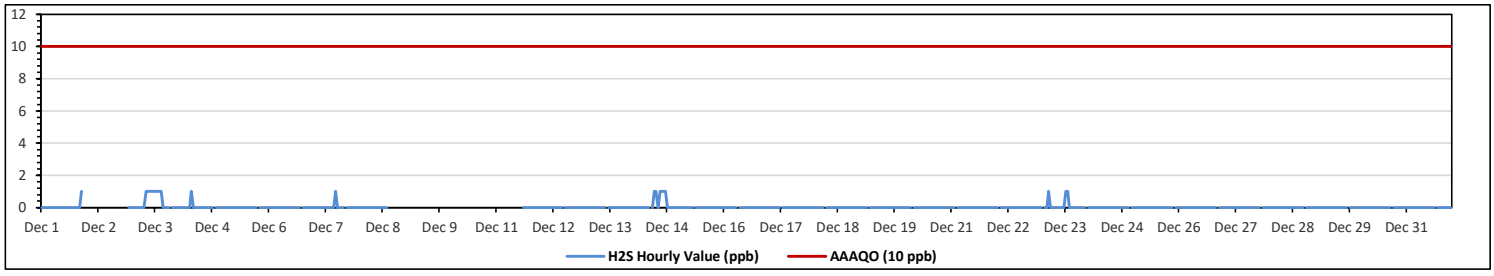
Number of 1-Hour Exceedances:	0		Number of 24-Hour Exceedances:	0	
Maximum Hourly Value:	1	ppb	on Dec 1 at hr 21	Hours in Service:	744
Maximum Daily Value:	0.0	ppb	on Dec 1	Hours of Data:	623
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 0	Hours of Missing Data:	85
Minimum Daily Value:	0.0	ppb	on Dec 1	Hours of Calibration:	36
Monthly Average:	0.0	ppb		Operational Uptime:	88.6

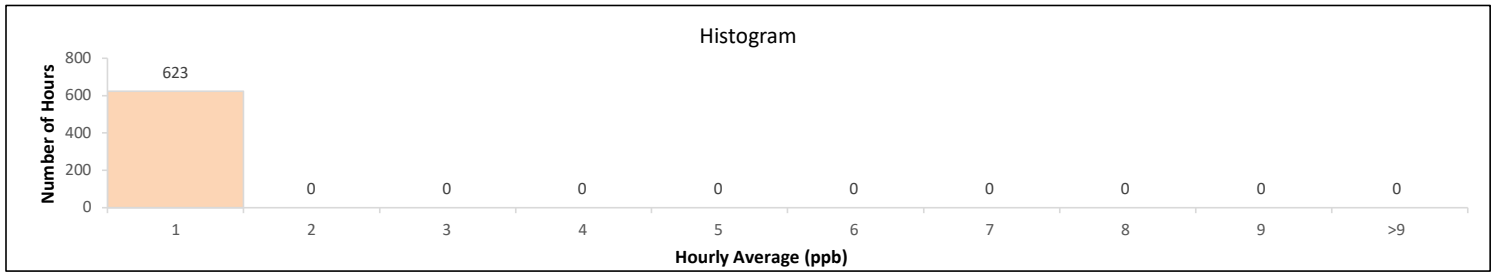
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	X	0	1	0.0
Dec 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	S	0	0	0	0	-
Dec 3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	S	0	0	0	0	1	0.0
Dec 4	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	1	0.0
Dec 5	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
Dec 6	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
Dec 7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0
Dec 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	X	X	X	X	X	X	X	X	0	0	-
Dec 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	-
Dec 10	X	X	X	X	X	X	X	X	X	X	X	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0	0	-
Dec 11	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	-
Dec 12	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
Dec 13	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
Dec 14	0	0	0	0	0	0	0	0	0	S	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	1	0.0
Dec 15	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
Dec 16	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
Dec 17	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
Dec 18	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
Dec 19	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
Dec 20	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
Dec 21	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
Dec 22	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
Dec 23	S	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	S	0	1	0.0
Dec 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	0	0.0
Dec 25	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
Dec 26	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
Dec 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Dec 28	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
Dec 29	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
Dec 30	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
Dec 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	0.0
Diurnal Maximum	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	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	ND	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.



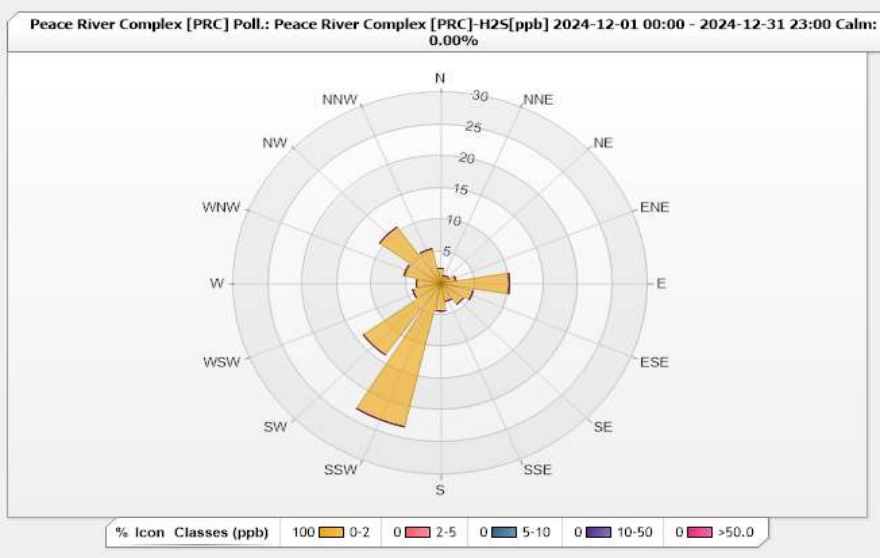


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 83.74% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.41	0	0	0	0	2.41
NNE	1.28	0	0	0	0	1.28
NE	1.44	0	0	0	0	1.44
ENE	2.25	0	0	0	0	2.25
E	9.95	0	0	0	0	9.95
ESE	4.82	0	0	0	0	4.82
SE	4.01	0	0	0	0	4.01
SSE	2.89	0	0	0	0	2.89
S	4.33	0	0	0	0	4.33
SSW	23.11	0	0	0	0	23.11
SW	13.8	0	0	0	0	13.8
WSW	4.17	0	0	0	0	4.17
W	3.53	0	0	0	0	3.53
WNW	5.46	0	0	0	0	5.46
NW	10.91	0	0	0	0	10.91
NNW	5.62	0	0	0	0	5.62
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

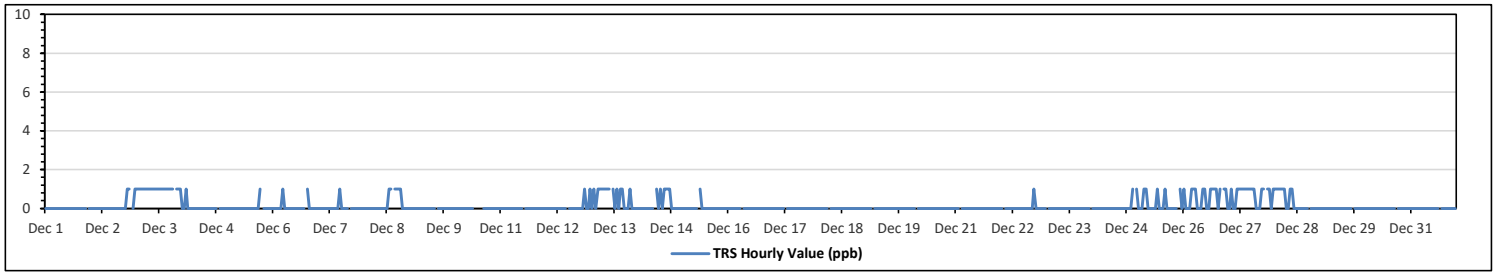
TOTAL REDUCED SULPHUR (TRS) in ppb

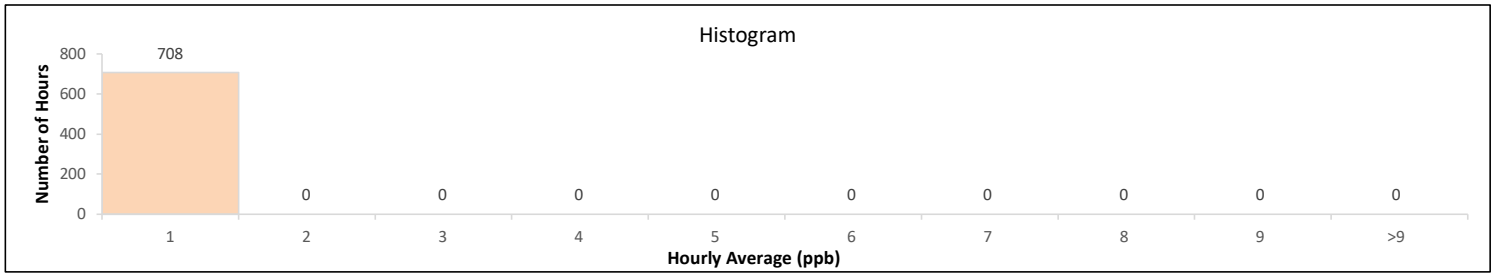
Maximum Hourly Value:	1	ppb	on Dec 2 at hr 19	Hours in Service:	744
Maximum Daily Value:	1.0	ppb	on Dec 3	Hours of Data:	708
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on Dec 1	Hours of Calibration:	36
Monthly Average:	0.1	ppb		Operational Uptime:	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			
Dec 1	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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	S	0	1	0	1	0.1
Dec 3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	1	1.0
Dec 4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.0
Dec 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	1	0.0
Dec 6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	1	0.1
Dec 7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0
Dec 8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	S	1	1	1	1	0	0	0	0	0	1	0.3
Dec 9	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
Dec 10	0	0	0	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
Dec 11	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
Dec 12	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0.1
Dec 13	0	1	0	1	1	1	1	1	1	1	S	1	0	1	0	1	1	0	0	0	1	0	0	0	0	1	0.6
Dec 14	0	0	0	0	0	0	0	0	0	S	1	0	1	0	1	1	1	1	0	0	0	0	0	0	0	1	0.3
Dec 15	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Dec 16	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
Dec 17	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
Dec 18	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
Dec 19	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
Dec 20	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
Dec 21	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
Dec 22	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.0
Dec 23	S	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
Dec 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	1	0	1	0.1
Dec 25	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	S	1	0	0	1	0.2
Dec 26	1	0	0	0	1	1	1	0	0	0	1	1	0	0	1	1	1	1	0	1	S	1	1	0	0	1	0.6
Dec 27	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	S	1	1	0	1	0	1	0.7
Dec 28	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0.3
Dec 29	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
Dec 30	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
Dec 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	0.0
Diurnal Maximum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Diurnal Average	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of 30-Minute Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Guideline (AAAQG) for TRS: 30-minute 5 ppb

Number of 30-Minute Exceedances: 0

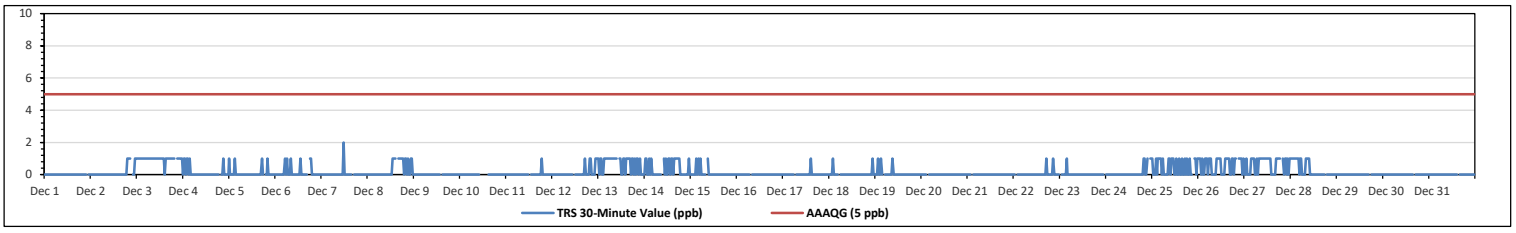
Maximum 30-Minute Value:	2	ppb	on Dec 7 at 11:30	# of Instrument in Service	1488		
Maximum Daily Value:	1.0	ppb	on Dec 3	# of Valid Measurements	1417		
Minimum 30-Minute Value:	0	ppb	Dec 1 at 00:00	# of Missing Measurements:	0		
Minimum Daily Value:	0.0	ppb	on Dec 1	# of Calibration:	71		
Monthly Average:	0.2	ppb		Operational Uptime:	100.0		

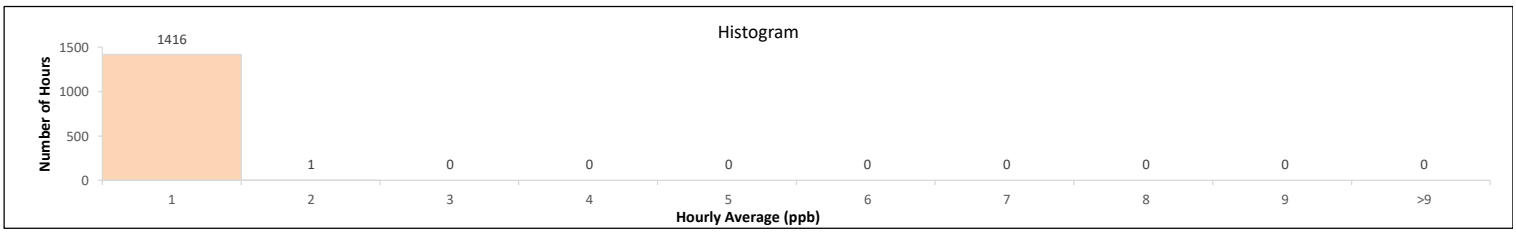
30-Minute Period Starting at (MST)	Dec 1	Dec 2	Dec 3	Dec 4	Dec 5	Dec 6	Dec 7	Dec 8	Dec 9	Dec 10	Dec 11	Dec 12	Dec 13	Dec 14	Dec 15	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28	Dec 29	Dec 30	Dec 31	Diurnal Maximum	Diurnal Average
00:00	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	S	0	1	1	0	1	0	0	0	1	0.2
00:30	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	1	0	1	0	0	0	1	0.2
01:00	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	S	0	0	0	1	1	1	0	0	0	1	0.2
01:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	S	0	0	0	0	0	1	0	0	0	1	0.1
02:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	S	0	0	0	0	1	1	0	1	0	0	1	0.2
02:30	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	1	0	0	1	0.1
03:00	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	1	S	0	0	0	0	0	1	0	0	1	0	0	1	0.2
03:30	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	S	0	0	1	0	1	1	1	1	0	0	0	1	0.3
04:00	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	S	0	0	0	0	0	1	1	1	1	0	0	0	1	0.2
04:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	S	0	0	0	0	0	1	1	1	0	0	0	0	1	0.2
05:00	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	0	S	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.2
05:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	1	1	0	1	0	0	0	1	0.2
06:00	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.1
06:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0.1
07:00	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
07:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.1
08:00	0	0	1	0	0	1	0	0	0	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.2
08:30	0	0	1	0	0	0	0	0	0	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0.2
09:00	0	0	1	0	0	0	0	0	0	0	0	0	1	S	1	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	1	0.2
09:30	0	0	1	0	0	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0.2
10:00	0	0	1	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0.2
10:30	0	0	1	0	0	0	0	0	0	C	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0.1
11:00	0	0	1	0	0	0	0	0	0	C	0	S	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0.2
11:30	0	0	1	0	0	0	2	0	0	C	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0.2
12:00	0	0	1	0	0	0	0	0	0	C	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.1
12:30	0	0	1	0	0	0	0	0	0	C	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0.1
13:00	0	0	1	0	0	1	0	1	0	C	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.2
13:30	0	0	1	0	0	0	0	1	0	C	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0.1
14:00	0	0	1	0	0	0	0	1	S	C	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0.2
14:30	0	0	0	0	0	0	0	1	S	C	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.2
15:00	0	0	1	0	0	0	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	1	0.1
15:30	0	0	1	0	0	0	0	S	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	1	0.2
16:00	0	0	1	0	0	0	S	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	S	0	1	0.2
16:30	0	0	1	0	0	0	S	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	S	0	1	0.2
17:00	0	0	1	0	1	S	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	0	S	0	0	1	0.3
17:30	0	0	1	0	0	S	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	S	0	0	1	0.2
18:00	0	0	1	0	S	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	S	0	0	1	0.3
18:30	0	0	1	0	S	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	1	0.2
19:00	0	1	1	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	1	0.1
19:30	0	1	1	S	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	S	0	0	0	0	1	0.2
20:00	0	1	S	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	S	1	0	0	0	0	1	0.2
20:30	0	1	S	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	1	0.1
21:00	0	S	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	0	0	0	0	1	0.2
21:30	0	S	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	S	1	1	0	0	0	0	1	0.2
22:00	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	0	0	0	0	0	1	0.1
22:30	S	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	S	1	1	1	0	0	0	0	1	0.2
23:00	0	1	1	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	1	0.2
23:30	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	S	1	1	1	1	0	0	0	0	1	0.2
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Maximum	0	1	1	1	1	1	2	1	0	0	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0		
Average	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	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	1.0	0.0	0.0	0.0	0.0		

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



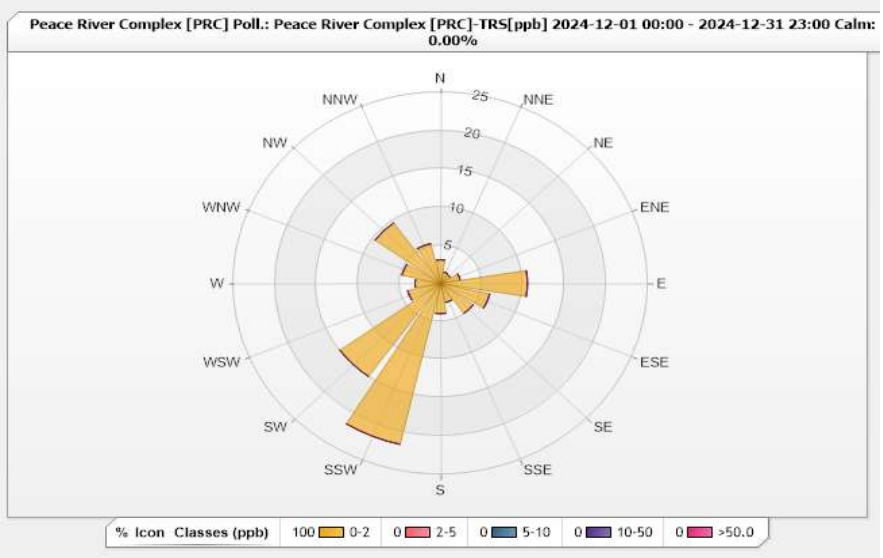


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.11	0	0	0	0	3.11
NNE	1.55	0	0	0	0	1.55
NE	1.41	0	0	0	0	1.41
ENE	2.4	0	0	0	0	2.4
E	10.45	0	0	0	0	10.45
ESE	6.07	0	0	0	0	6.07
SE	4.8	0	0	0	0	4.8
SSE	2.54	0	0	0	0	2.54
S	3.95	0	0	0	0	3.95
SSW	21.61	0	0	0	0	21.61
SW	14.97	0	0	0	0	14.97
WSW	4.1	0	0	0	0	4.1
W	3.11	0	0	0	0	3.11
WNW	4.8	0	0	0	0	4.8
NW	9.75	0	0	0	0	9.75
NNW	5.37	0	0	0	0	5.37
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

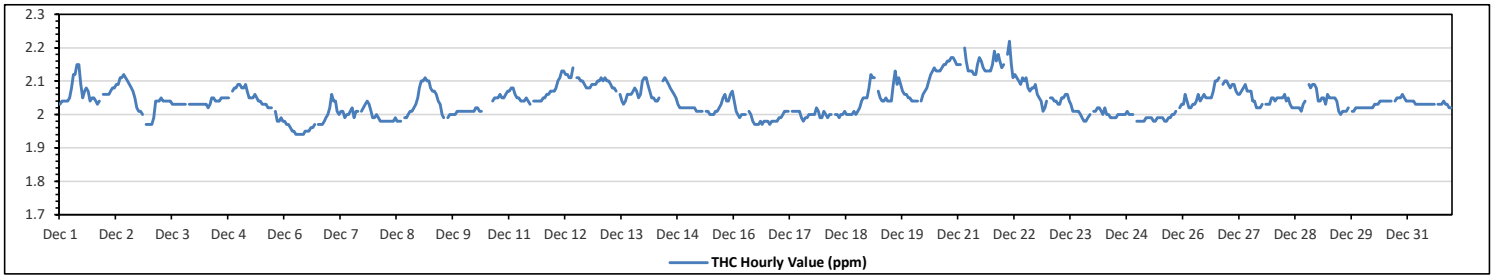
TOTAL HYDROCARBONS (THC) in ppm

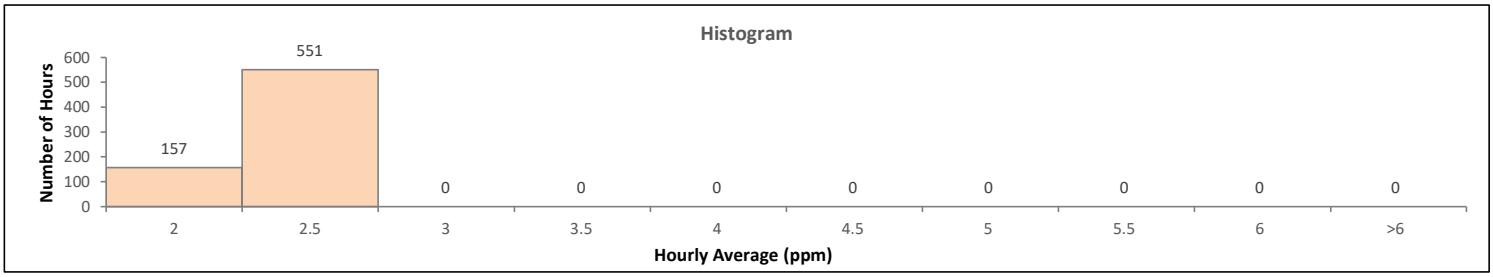
Maximum Hourly Value:	2.22	ppm	on Dec 22 at hr 3	Hours in Service:	744
Maximum Daily Value:	2.15	ppm	on Dec 21	Hours of Data:	708
Minimum Hourly Value:	1.94	ppm	on Dec 6 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	1.96	ppm	on Dec 6	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational 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			
Dec 1	2.03	2.04	2.04	2.04	2.04	2.05	2.08	2.12	2.12	2.15	2.15	2.09	2.05	2.07	2.08	2.07	2.04	2.05	2.05	2.04	2.03	2.04	S	2.06	2.03	2.15	2.07
Dec 2	2.06	2.06	2.06	2.07	2.08	2.08	2.09	2.09	2.11	2.11	2.12	2.11	2.10	2.09	2.08	2.07	2.05	2.02	2.01	2.01	2.00	S	1.97	1.97	1.97	2.12	2.06
Dec 3	1.97	1.97	1.99	2.04	2.04	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.03	1.97	2.05	2.03
Dec 4	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.05	2.05	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	S	2.07	2.08	2.08	2.09	2.02	2.09	2.05
Dec 5	2.09	2.08	2.08	2.09	2.07	2.05	2.05	2.05	2.06	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02	S	2.01	1.98	1.98	1.99	1.98	1.98	2.09	2.04
Dec 6	1.98	1.97	1.97	1.96	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.96	1.96	1.97	S	1.97	1.97	1.97	1.98	1.99	2.00	1.94	2.00	1.96
Dec 7	2.02	2.06	2.04	2.04	2.01	2.00	2.01	2.01	1.99	2.00	2.00	2.01	2.02	1.99	2.01	2.01	S	2.01	2.02	2.03	2.04	2.03	2.01	1.99	1.99	2.06	2.02
Dec 8	1.99	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.98	1.98	1.98	S	1.99	1.99	2.00	2.01	2.01	2.02	2.03	2.05	1.98	2.05	1.99
Dec 9	2.08	2.10	2.10	2.11	2.10	2.10	2.08	2.07	2.07	2.06	2.04	2.03	2.00	1.99	S	1.99	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	1.99	2.11	2.04
Dec 10	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.01	2.01	C	C	C	C	C	2.04	2.05	2.05	2.05	2.06	2.05	2.05	2.06	2.07	2.01	2.07	2.03
Dec 11	2.07	2.08	2.08	2.06	2.05	2.05	2.04	2.04	2.04	2.05	2.04	2.03	S	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.06	2.06	2.07	2.07	2.03	2.08	2.05
Dec 12	2.07	2.08	2.10	2.11	2.13	2.13	2.12	2.12	2.11	2.11	2.14	S	2.11	2.11	2.10	2.10	2.09	2.08	2.08	2.08	2.09	2.09	2.09	2.10	2.07	2.14	2.10
Dec 13	2.10	2.11	2.10	2.11	2.10	2.10	2.09	2.08	2.08	2.07	S	2.06	2.04	2.03	2.04	2.06	2.06	2.06	2.07	2.08	2.07	2.05	2.06	2.10	2.03	2.11	2.07
Dec 14	2.11	2.11	2.09	2.07	2.05	2.05	2.04	2.04	2.05	S	2.10	2.11	2.10	2.09	2.08	2.07	2.06	2.05	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.11	2.06
Dec 15	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	S	2.01	2.01	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.05	2.06	2.04	2.04	2.06	2.07	2.00	2.07	2.02
Dec 16	2.04	2.01	2.00	1.99	2.00	2.00	2.00	S	2.01	2.00	1.98	1.97	1.97	1.97	1.98	1.97	1.98	1.98	1.98	1.97	1.98	1.98	1.98	1.98	1.97	2.04	1.99
Dec 17	1.99	1.99	2.00	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.01	1.99	1.98	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.01	1.99	1.99	1.98	2.02	2.00
Dec 18	2.01	2.00	1.99	2.00	2.00	S	2.00	2.00	1.99	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.00	2.01	2.02	2.04	2.05	2.05	2.05	1.99	2.05	2.01
Dec 19	2.08	2.12	2.11	2.11	S	2.07	2.05	2.04	2.04	2.05	2.04	2.04	2.04	2.09	2.13	2.09	2.11	2.09	2.07	2.06	2.06	2.05	2.05	2.04	2.04	2.13	2.07
Dec 20	2.04	2.04	2.04	S	2.04	2.06	2.07	2.08	2.10	2.12	2.13	2.14	2.13	2.13	2.13	2.14	2.15	2.15	2.16	2.16	2.17	2.17	2.16	2.15	2.04	2.17	2.12
Dec 21	2.15	2.15	S	2.20	2.16	2.13	2.13	2.13	2.12	2.12	2.15	2.17	2.16	2.14	2.13	2.13	2.13	2.13	2.15	2.19	2.16	2.18	2.16	2.14	2.12	2.20	**2.15**
Dec 22	2.15	S	2.18	**2.22**	2.15	2.11	2.12	2.11	2.10	2.09	2.11	2.10	2.11	2.08	2.07	2.08	2.08	2.09	2.06	2.05	2.04	2.01	2.02	2.04	2.01	**2.22**	2.09
Dec 23	S	2.05	2.05	2.04	2.04	2.03	2.03	2.05	2.05	2.06	2.06	2.04	2.03	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.99	2.00	S	1.98	2.06	2.02
Dec 24	2.01	2.01	2.02	2.02	2.01	2.00	2.02	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	2.00	S	1.98	1.98	2.02	2.00
Dec 25	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.99	1.99	2.00	2.00	2.01	S	2.02	2.03	1.98	2.03	1.99
Dec 26	2.03	2.06	2.04	2.02	2.02	2.03	2.03	2.04	2.06	2.04	2.05	2.06	2.05	2.05	2.05	2.05	2.07	2.10	2.10	2.11	S	2.09	2.10	2.10	2.02	2.11	2.06
Dec 27	2.09	2.08	2.09	2.09	2.07	2.06	2.06	2.07	2.08	2.09	2.07	2.07	2.07	2.04	2.04	2.02	2.02	2.02	2.03	S	2.03	2.03	2.03	2.05	2.02	2.09	2.06
Dec 28	2.05	2.04	2.05	2.05	2.05	2.05	2.06	2.04	2.05	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.03	2.04	S	2.09	2.08	2.09	2.09	2.08	2.01	2.09	2.05
Dec 29	2.04	2.04	2.05	2.05	2.03	2.06	2.05	2.05	2.05	2.05	2.04	2.01	2.00	2.01	2.01	2.01	2.02	S	2.01	2.01	2.02	2.02	2.02	2.02	2.00	2.06	2.03
Dec 30	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	S	2.04	2.05	2.05	2.05	2.06	2.05	2.04	2.02	2.06	2.04
Dec 31	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.03	2.04	2.03	2.03	2.02	2.02	2.02	2.04	2.03
Diurnal Maximum	2.15	2.15	2.18	2.22	2.16	2.13	2.13	2.13	2.12	2.15	2.15	2.17	2.16	2.14	2.13	2.14	2.15	2.15	2.16	2.19	2.17	2.18	2.16	2.15			
Diurnal Average	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



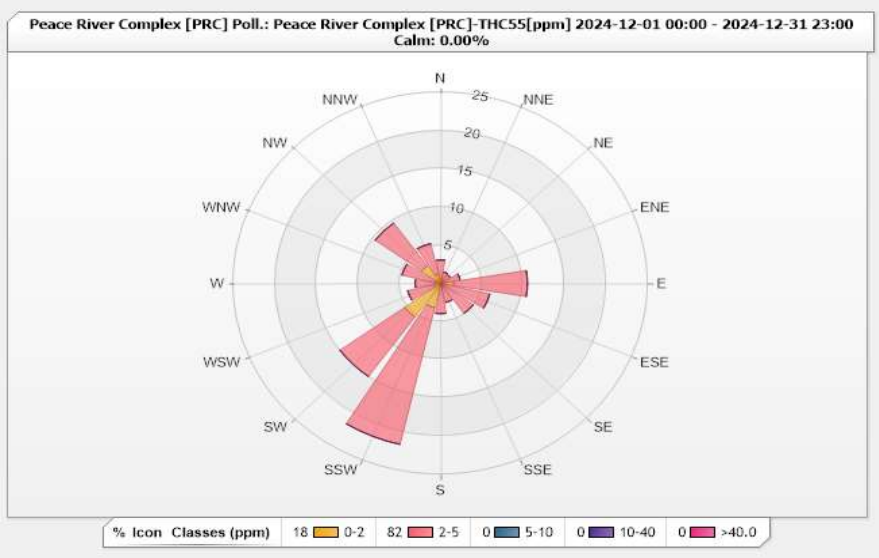


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.56	2.54	0	0	0	3.1
NNE	0.14	1.41	0	0	0	1.55
NE	0.14	1.27	0	0	0	1.41
ENE	0.14	2.26	0	0	0	2.4
E	1.55	8.9	0	0	0	10.45
ESE	0.14	5.93	0	0	0	6.07
SE	0.28	4.52	0	0	0	4.8
SSE	0.14	2.4	0	0	0	2.54
S	0.28	3.67	0	0	0	3.95
SSW	3.25	18.36	0	0	0	21.61
SW	5.37	9.6	0	0	0	14.97
WSW	0.85	3.25	0	0	0	4.1
W	0.56	2.54	0	0	0	3.1
WNW	0.56	4.24	0	0	0	4.8
NW	2.82	6.92	0	0	0	9.74
NNW	1.27	4.1	0	0	0	5.37
Summary	18.05	81.91	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

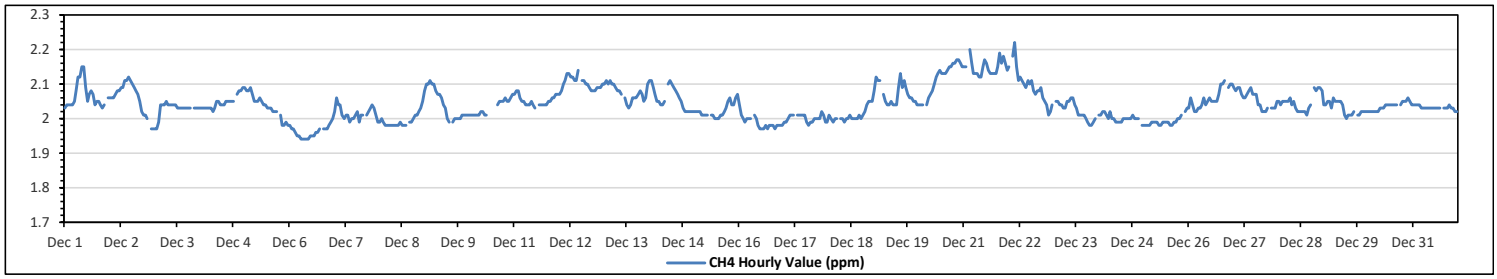
METHANE (CH4) in ppm

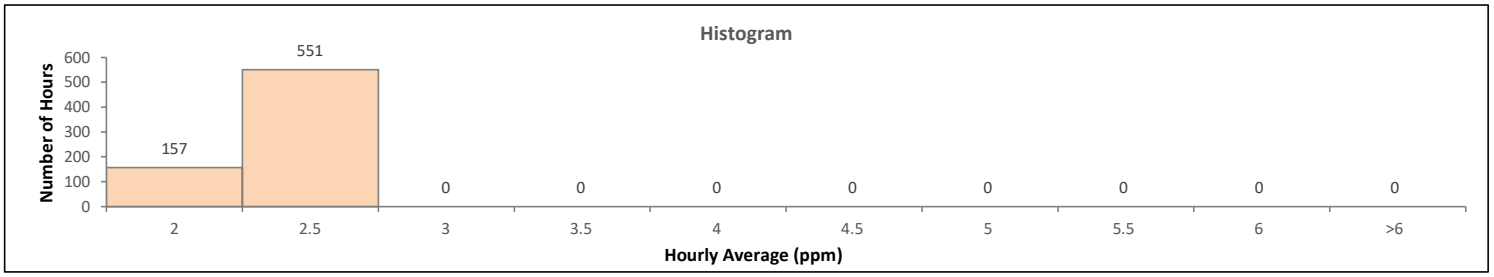
Maximum Hourly Value:	2.22	ppm	on Dec 22 at hr 3	Hours in Service:	744
Maximum Daily Value:	2.15	ppm	on Dec 21	Hours of Data:	708
Minimum Hourly Value:	1.94	ppm	on Dec 6 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	1.96	ppm	on Dec 6	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational 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			
Dec 1	2.03	2.04	2.04	2.04	2.04	2.05	2.08	2.12	2.12	2.15	2.15	2.09	2.05	2.07	2.08	2.07	2.04	2.05	2.05	2.04	2.03	2.04	S	2.06	2.03	2.15	2.07
Dec 2	2.06	2.06	2.06	2.07	2.08	2.08	2.09	2.09	2.11	2.11	2.12	2.11	2.10	2.09	2.08	2.07	2.05	2.02	2.01	2.01	2.00	S	1.97	1.97	1.97	2.12	2.06
Dec 3	1.97	1.97	1.99	2.04	2.04	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.03	1.97	2.05	2.03
Dec 4	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.05	2.05	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	S	2.07	2.08	2.08	2.09	2.02	2.09	2.05
Dec 5	2.09	2.08	2.08	2.09	2.07	2.05	2.05	2.05	2.06	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02	S	2.01	1.98	1.98	1.99	1.98	1.98	2.09	2.04
Dec 6	1.98	1.97	1.97	1.96	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.96	1.96	1.97	S	1.97	1.97	1.97	1.98	1.99	2.00	1.94	2.00	1.96
Dec 7	2.02	2.06	2.04	2.04	2.01	2.00	2.01	2.01	1.99	2.00	2.00	2.01	2.02	1.99	2.01	2.01	S	2.01	2.02	2.03	2.04	2.03	2.01	1.99	1.99	2.06	2.02
Dec 8	1.99	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.98	1.98	1.98	S	1.99	1.99	2.00	2.01	2.01	2.02	2.03	2.05	1.98	2.05	1.99
Dec 9	2.08	2.10	2.10	2.11	2.10	2.10	2.08	2.07	2.07	2.06	2.04	2.03	2.00	1.99	S	1.99	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	1.99	2.11	2.04
Dec 10	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.01	2.01	C	C	C	C	C	2.04	2.05	2.05	2.05	2.06	2.05	2.05	2.06	2.07	2.01	2.07	2.03
Dec 11	2.07	2.08	2.08	2.06	2.05	2.05	2.04	2.04	2.04	2.05	2.04	2.03	S	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.06	2.06	2.07	2.07	2.03	2.08	2.05
Dec 12	2.07	2.08	2.10	2.11	2.13	2.13	2.12	2.12	2.11	2.11	2.14	S	2.11	2.11	2.10	2.10	2.09	2.08	2.08	2.08	2.09	2.09	2.09	2.10	2.07	2.14	2.10
Dec 13	2.10	2.11	2.10	2.11	2.10	2.10	2.09	2.08	2.08	2.07	S	2.06	2.04	2.03	2.04	2.06	2.06	2.06	2.07	2.08	2.07	2.05	2.06	2.10	2.03	2.11	2.07
Dec 14	2.11	2.11	2.09	2.07	2.05	2.05	2.04	2.04	2.05	S	2.10	2.11	2.10	2.09	2.08	2.07	2.06	2.05	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.11	2.06
Dec 15	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	S	2.01	2.01	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.05	2.06	2.04	2.04	2.06	2.07	2.00	2.07	2.02
Dec 16	2.04	2.01	2.00	1.99	2.00	2.00	2.00	S	2.01	2.00	1.98	1.97	1.97	1.97	1.98	1.97	1.98	1.98	1.98	1.97	1.98	1.98	1.98	1.98	1.97	2.04	1.99
Dec 17	1.99	1.99	2.00	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.01	1.99	1.98	1.99	1.99	2.00	2.00	2.00	2.00	2.02	2.01	1.99	1.99	1.98	2.02	2.00
Dec 18	2.01	2.00	1.99	2.00	2.00	S	2.00	2.00	1.99	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.01	2.00	2.01	2.02	2.04	2.05	2.05	2.05	1.99	2.05	2.01
Dec 19	2.08	2.12	2.11	2.11	S	2.07	2.05	2.04	2.04	2.05	2.04	2.04	2.04	2.09	2.13	2.09	2.11	2.09	2.07	2.06	2.06	2.05	2.05	2.04	2.04	2.13	2.07
Dec 20	2.04	2.04	2.04	S	2.04	2.06	2.07	2.08	2.10	2.12	2.13	2.14	2.13	2.13	2.13	2.14	2.15	2.15	2.16	2.16	2.17	2.17	2.16	2.15	2.04	2.17	2.12
Dec 21	2.15	2.15	S	2.20	2.16	2.13	2.13	2.13	2.12	2.12	2.15	2.17	2.16	2.14	2.13	2.13	2.13	2.13	2.15	2.19	2.16	2.18	2.16	2.14	2.12	2.20	**2.15**
Dec 22	2.15	S	2.18	**2.22**	2.15	2.11	2.12	2.11	2.10	2.09	2.11	2.10	2.11	2.08	2.07	2.08	2.08	2.09	2.06	2.05	2.04	2.01	2.02	2.04	2.01	**2.22**	2.09
Dec 23	S	2.05	2.05	2.04	2.04	2.03	2.03	2.05	2.05	2.06	2.06	2.04	2.03	2.01	2.01	2.01	2.01	2.00	1.99	1.98	1.98	1.99	2.00	S	1.98	2.06	2.02
Dec 24	2.01	2.01	2.02	2.02	2.01	2.00	2.02	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	2.00	S	1.98	1.98	2.02	2.00
Dec 25	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.98	1.99	1.99	2.00	2.00	2.01	S	2.02	2.03	1.98	2.03	1.99
Dec 26	2.03	2.06	2.04	2.02	2.02	2.03	2.03	2.04	2.06	2.04	2.05	2.06	2.05	2.05	2.05	2.05	2.07	2.10	2.10	2.11	S	2.09	2.10	2.10	2.02	2.11	2.06
Dec 27	2.09	2.08	2.09	2.09	2.07	2.06	2.06	2.07	2.08	2.09	2.07	2.07	2.07	2.04	2.04	2.02	2.02	2.02	2.03	S	2.03	2.03	2.03	2.05	2.02	2.09	2.06
Dec 28	2.05	2.04	2.05	2.05	2.05	2.05	2.06	2.04	2.05	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.03	2.04	S	2.09	2.08	2.09	2.09	2.08	2.01	2.09	2.05
Dec 29	2.04	2.04	2.05	2.05	2.03	2.06	2.05	2.05	2.05	2.05	2.04	2.01	2.00	2.01	2.01	2.01	2.02	S	2.01	2.01	2.02	2.02	2.02	2.02	2.00	2.06	2.03
Dec 30	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	S	2.04	2.05	2.05	2.05	2.06	2.05	2.04	2.02	2.06	2.04
Dec 31	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.03	2.04	2.03	2.03	2.02	2.02	2.02	2.04	2.03
Diurnal Maximum	2.15	2.15	2.18	2.22	2.16	2.13	2.13	2.13	2.12	2.15	2.15	2.17	2.16	2.14	2.13	2.14	2.15	2.15	2.16	2.19	2.17	2.18	2.16	2.15			
Diurnal Average	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



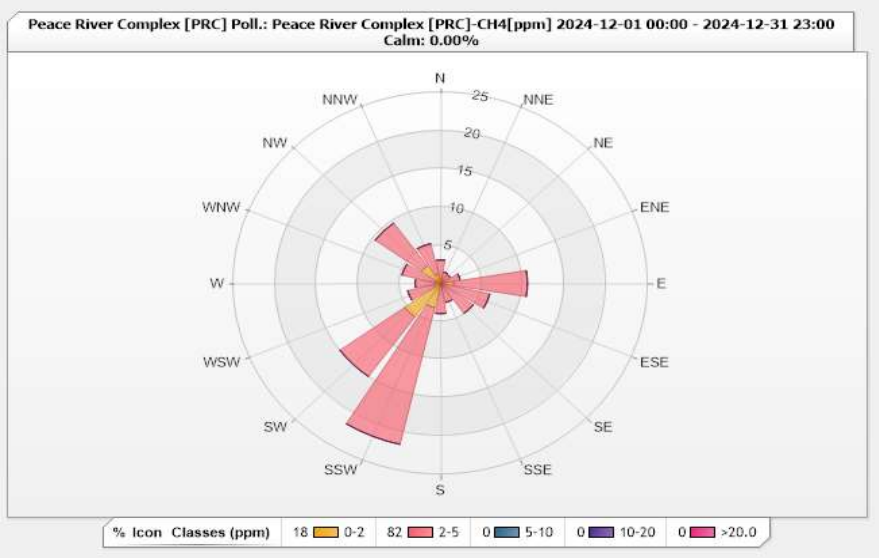


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.56	2.54	0	0	0	3.1
NNE	0.14	1.41	0	0	0	1.55
NE	0.14	1.27	0	0	0	1.41
ENE	0.14	2.26	0	0	0	2.4
E	1.55	8.9	0	0	0	10.45
ESE	0.14	5.93	0	0	0	6.07
SE	0.28	4.52	0	0	0	4.8
SSE	0.14	2.4	0	0	0	2.54
S	0.28	3.67	0	0	0	3.95
SSW	3.25	18.36	0	0	0	21.61
SW	5.37	9.6	0	0	0	14.97
WSW	0.85	3.25	0	0	0	4.1
W	0.56	2.54	0	0	0	3.1
WNW	0.56	4.24	0	0	0	4.8
NW	2.82	6.92	0	0	0	9.74
NNW	1.27	4.1	0	0	0	5.37
Summary	18.05	81.91	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

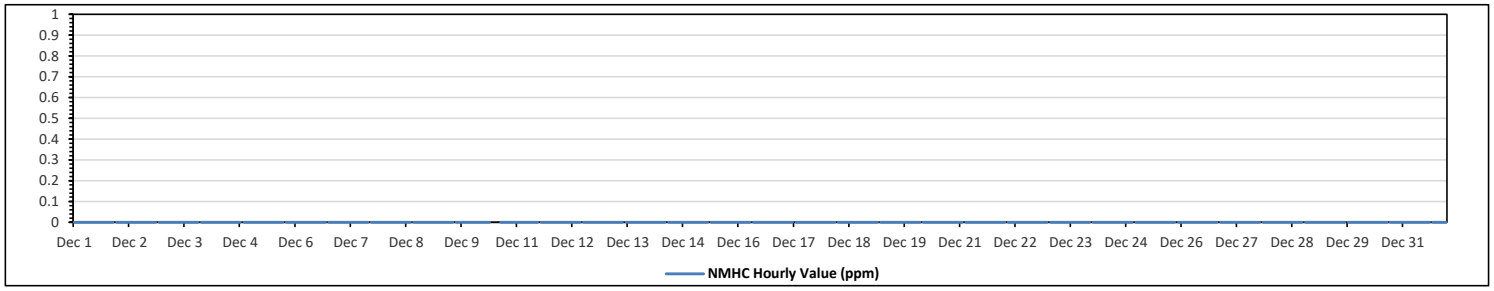
NON-METHANE HYDROCARBONS (NMHC) in ppm

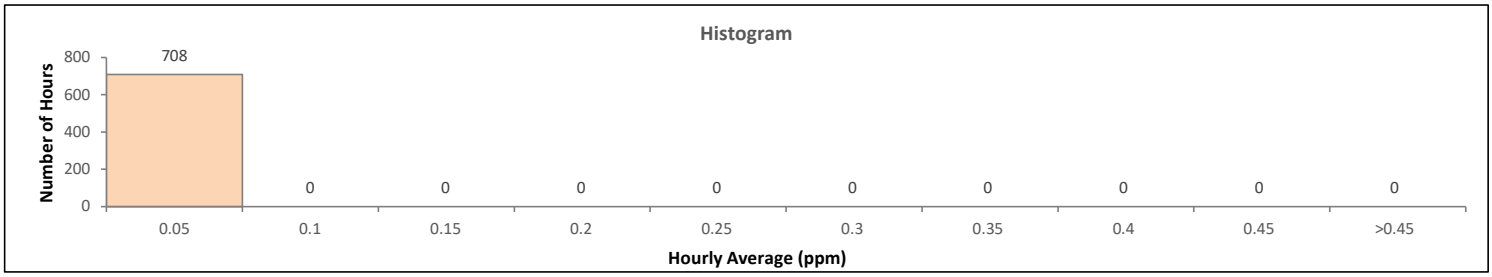
Maximum Hourly Value:	0.00	ppm	on Dec 1 at hr 0	Hours in Service:	744	
Maximum Daily Value:	0.00	ppm	on Dec 1	Hours of Data:	708	
Minimum Hourly Value:	0.00	ppm	on Dec 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.00	ppm	on Dec 1	Hours of Calibration:	36	
Monthly Average:	0.00	ppm		Operational Uptime:	100.0	

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

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance		
K	Collection Error	ND	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.



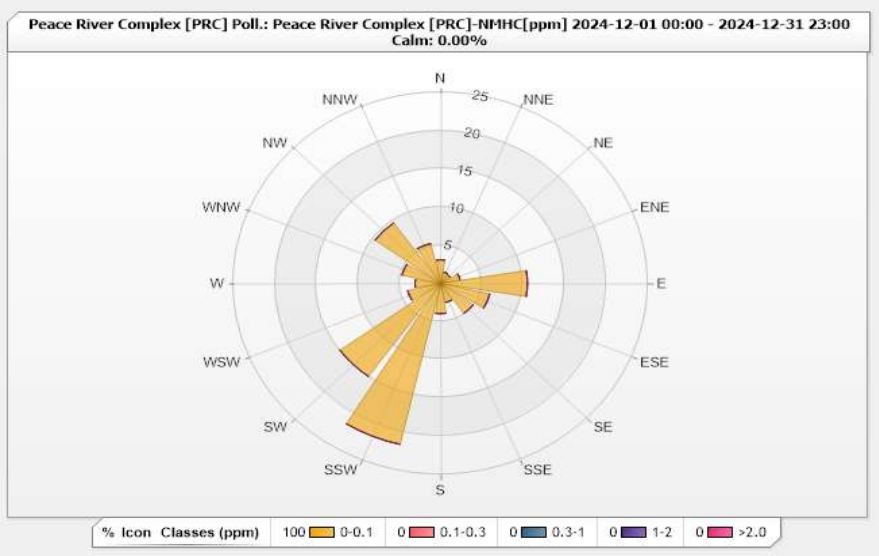


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.11	0	0	0	0	3.11
NNE	1.55	0	0	0	0	1.55
NE	1.41	0	0	0	0	1.41
ENE	2.4	0	0	0	0	2.4
E	10.45	0	0	0	0	10.45
ESE	6.07	0	0	0	0	6.07
SE	4.8	0	0	0	0	4.8
SSE	2.54	0	0	0	0	2.54
S	3.95	0	0	0	0	3.95
SSW	21.61	0	0	0	0	21.61
SW	14.97	0	0	0	0	14.97
WSW	4.1	0	0	0	0	4.1
W	3.11	0	0	0	0	3.11
WNW	4.8	0	0	0	0	4.8
NW	9.75	0	0	0	0	9.75
NNW	5.37	0	0	0	0	5.37
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

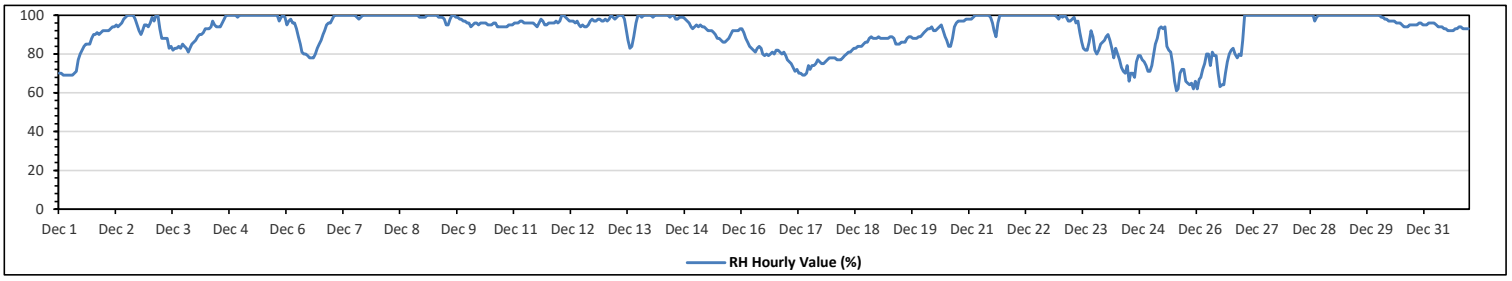
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Dec 2 at hr 12	Hours in Service:	744	
Maximum Daily Value:	100.0	%	on Dec 29	Hours of Data:	744	
Minimum Hourly Value:	61	%	on Dec 25 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	73.9	%	on Dec 17	Hours of Calibration:	0	
Monthly Average:	91.7	%		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
Dec 1	70	70	69	69	69	69	69	69	70	71	77	80	82	84	85	85	85	88	90	90	91	90	91	92	69	92	79.4
Dec 2	92	92	92	93	94	94	95	94	95	96	98	99	**100**	**100**	**100**	**100**	98	95	92	90	92	95	95	94	90	**100**	95.2
Dec 3	96	99	97	**100**	**100**	93	88	88	88	88	83	84	82	83	83	84	83	85	84	83	81	83	85	86	81	**100**	87.8
Dec 4	87	89	90	90	91	93	93	93	94	97	95	94	94	94	96	98	**100**	**100**	**100**	**100**	**100**	**100**	99	**100**	87	**100**	95.3
Dec 5	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	97	99	**100**	99	97	**100**	99.8
Dec 6	95	97	98	96	96	93	89	85	81	80	80	79	78	78	78	80	83	85	87	90	92	95	96	96	78	98	87.8
Dec 7	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	**100**	99.8
Dec 8	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	99	99	**100**	99.9
Dec 9	99	99	**100**	**100**	**100**	**100**	**100**	**100**	99	99	99	98	95	95	98	**100**	**100**	99	99	98	98	97	97	96	95	**100**	98.5
Dec 10	96	94	95	96	96	95	96	96	96	96	95	95	95	96	96	94	94	94	94	94	94	95	95	95	94	96	95.1
Dec 11	96	96	96	97	97	96	96	96	96	96	96	95	94	96	98	97	95	95	96	96	96	96	97	96	94	98	96.0
Dec 12	97	**100**	**100**	99	98	97	97	97	96	97	95	94	95	94	94	95	97	98	97	97	98	98	97	97	94	**100**	96.8
Dec 13	98	97	98	**100**	99	98	99	**100**	**100**	**100**	98	92	87	83	84	89	96	**100**	**100**	99	**100**	**100**	**100**	**100**	83	**100**	96.5
Dec 14	**100**	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	**100**	**100**	98	98	99	99	99	98	97	96	94	93	94	93	**100**	98.5
Dec 15	95	94	95	94	94	93	92	92	92	91	90	88	88	87	86	86	87	88	90	92	92	92	92	93	86	95	91.0
Dec 16	93	91	88	86	84	83	82	81	83	84	83	80	79	80	79	80	81	80	82	82	81	80	81	79	79	93	82.6
Dec 17	77	76	75	73	71	72	70	70	69	69	70	74	72	74	74	75	77	76	75	75	76	77	78	78	69	78	**73.9**
Dec 18	78	78	77	77	77	78	79	80	81	81	82	83	83	84	84	84	85	86	86	88	89	88	88	88	77	89	82.7
Dec 19	89	88	88	88	88	88	89	89	88	85	85	85	86	86	86	88	89	89	88	88	88	89	89	90	85	90	87.8
Dec 20	91	92	93	93	94	92	92	93	94	95	92	89	87	84	84	88	94	96	97	97	97	97	98	98	84	98	92.8
Dec 21	98	98	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	96	92	89	96	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	89	**100**	98.6
Dec 22	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	98	**100**	99.9
Dec 23	**100**	99	**100**	99	97	97	98	99	96	97	91	86	83	82	82	86	92	89	82	80	82	85	86	87	80	**100**	90.6
Dec 24	89	90	87	83	78	83	80	77	73	71	70	74	66	70	70	68	76	79	79	77	76	74	71	71	66	90	76.3
Dec 25	74	79	85	88	93	94	93	94	84	82	81	75	66	**61**	62	70	72	72	66	65	64	65	62	66	**61**	94	75.5
Dec 26	62	67	68	72	75	80	80	74	81	79	79	70	63	64	64	70	76	80	82	83	80	78	80	79	62	83	74.4
Dec 27	87	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	87	**100**	99.5
Dec 28	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	97	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	97	**100**	99.8
Dec 29	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	100	**100**	**100.0**
Dec 30	**100**	99	99	98	98	97	97	97	97	96	96	96	95	94	94	94	95	95	95	95	95	96	96	95	94	**100**	96.2
Dec 31	95	95	96	96	96	96	95	94	94	94	93	93	92	92	92	92	93	93	94	94	93	93	93	93	92	96	93.8
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	92.0	92.8	93.1	93.1	93.1	92.9	92.5	92.2	91.8	91.7	91.2	90.4	89.0	88.7	88.7	90.2	91.8	92.3	92.0	91.9	91.9	92.1	92.2	92.2			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	959	mb	on Dec 1 at hr 1	Hours in Service:	744	
Maximum Daily Value:	957	mb	on Dec 17	Hours of Data:	744	
Minimum Hourly Value:	920	mb	on Dec 24 at hr 18	Hours of Missing Data:	0	
Minimum Daily Value:	921	mb	on Dec 26	Hours of Calibration:	0	
Monthly Average:	939	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
Dec 1	958	**959**	**959**	**959**	**959**	**959**	**959**	**959**	**959**	**959**	958	958	957	955	954	953	953	952	952	951	950	949	949	948	948	**959**	955
Dec 2	947	947	946	946	945	945	944	943	942	941	940	939	938	937	937	936	936	934	934	934	933	933	934	935	933	947	939
Dec 3	935	936	937	939	941	943	944	946	947	949	950	951	951	952	953	954	955	955	956	956	956	956	956	956	935	956	949
Dec 4	956	955	954	953	952	951	950	949	949	948	948	948	947	946	946	945	945	944	944	944	943	943	942	943	942	956	948
Dec 5	943	943	943	943	942	942	942	942	941	941	941	941	940	940	939	939	938	938	939	938	938	938	938	938	938	943	940
Dec 6	937	937	937	936	936	935	935	935	934	934	935	934	934	933	933	933	933	932	932	932	932	932	932	932	932	937	934
Dec 7	933	933	932	933	932	932	931	931	930	930	930	929	929	929	928	928	928	928	928	928	928	928	929	930	928	933	930
Dec 8	931	932	933	934	935	936	936	937	938	939	940	941	941	942	942	942	943	943	944	944	944	945	945	945	931	945	940
Dec 9	945	945	946	946	946	946	946	946	946	947	947	947	948	948	949	951	951	952	953	953	953	954	954	954	945	954	949
Dec 10	954	954	954	954	954	953	953	953	953	952	952	951	950	950	949	949	948	948	947	947	946	946	945	945	945	954	950
Dec 11	944	944	944	943	943	943	943	943	943	944	944	943	943	943	942	942	942	942	941	941	940	940	939	939	939	944	942
Dec 12	938	938	937	936	935	935	934	933	933	932	932	931	931	930	930	929	929	928	928	928	928	927	927	927	927	938	932
Dec 13	928	928	928	928	928	928	929	929	929	929	930	930	930	931	931	931	931	931	931	931	932	931	931	931	928	932	930
Dec 14	931	931	931	930	929	929	929	928	928	927	928	927	926	926	925	926	927	927	929	930	930	932	933	934	925	934	929
Dec 15	935	936	937	939	939	940	941	941	942	943	944	944	945	945	946	946	947	947	947	948	948	948	948	948	935	948	944
Dec 16	948	949	949	949	949	949	949	949	949	950	950	951	951	951	951	951	952	952	953	953	954	954	955	955	948	955	951
Dec 17	956	956	957	957	958	958	958	**959**	**959**	**959**	**959**	**959**	958	958	958	958	957	957	957	956	955	954	954	953	953	**959**	**957**
Dec 18	952	951	950	949	948	947	947	946	946	945	945	946	946	946	947	947	948	948	949	949	950	950	951	951	945	952	948
Dec 19	951	952	953	953	953	954	955	955	955	956	956	956	955	955	954	953	953	952	950	949	947	945	944	943	943	956	952
Dec 20	942	941	940	940	939	939	938	938	938	938	938	938	938	938	939	939	939	939	939	939	939	939	939	939	938	942	939
Dec 21	939	938	938	939	938	938	937	937	936	936	936	936	936	935	935	934	934	934	934	934	933	934	934	934	933	939	936
Dec 22	934	934	934	934	934	934	935	934	934	934	934	934	934	934	934	933	933	932	932	931	930	930	929	929	929	935	933
Dec 23	929	928	928	929	929	928	928	929	929	929	930	930	931	931	932	932	933	934	935	935	935	935	935	935	928	935	931
Dec 24	934	933	933	933	931	928	927	926	924	923	922	922	922	921	921	921	921	921	**920**	**920**	921	921	921	921	**920**	934	924
Dec 25	922	922	923	924	924	925	925	926	926	926	926	926	926	926	925	925	924	924	923	922	922	921	921	921	921	926	924
Dec 26	921	921	921	921	921	**920**	**920**	**920**	**920**	**920**	**920**	**920**	**920**	**920**	921	921	921	921	922	922	922	922	922	923	**920**	923	**921**
Dec 27	923	923	923	923	923	923	924	924	924	924	924	925	925	925	925	925	925	925	925	925	925	926	926	926	923	926	924
Dec 28	926	926	926	926	926	926	926	926	926	927	927	927	927	928	928	929	929	930	930	931	931	932	932	932	926	932	928
Dec 29	932	933	933	933	933	934	934	934	934	935	935	935	935	935	936	937	938	939	940	941	941	942	943	944	932	944	937
Dec 30	945	946	947	948	948	949	950	950	951	952	952	952	953	953	953	954	954	954	955	955	955	955	955	955	945	955	952
Dec 31	955	955	955	955	956	955	956	956	956	956	956	956	955	955	955	955	955	955	955	954	954	954	954	953	953	956	955
Diurnal Maximum	958	959	959	959	959	959	959	959	959	959	959	959	958	958	958	958	957	957	957	956	956	956	956	956			
Diurnal Average	939	940	940	940	940	939	940	939	939	940	940	940	939	939	939	939	939	939	939	939	939	939	939	939			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.
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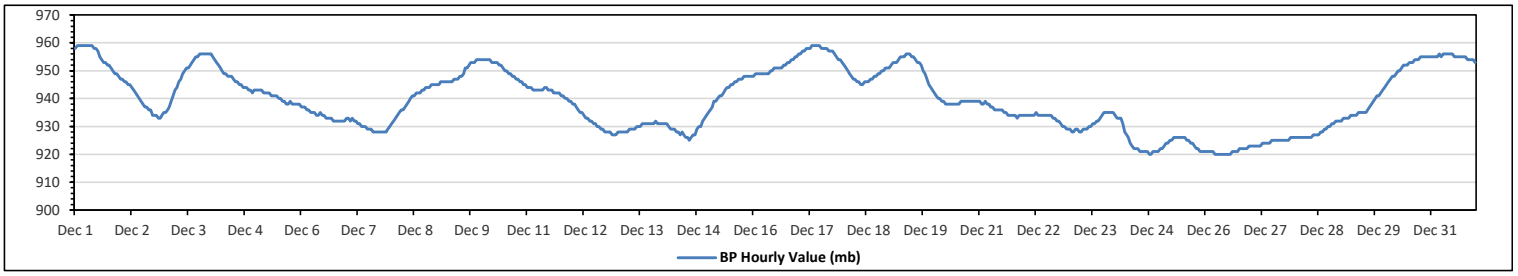


Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

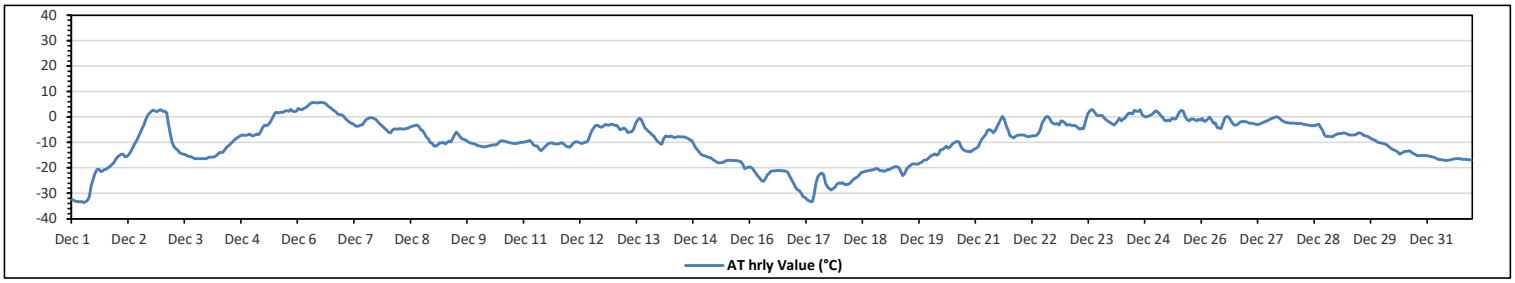
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	5.7	°C	on Dec 6 at hr 8	Hours in Service:	744		
Maximum Daily Value:	3.9	°C	on Dec 6	Hours of Data:	744		
Minimum Hourly Value:	-33.6	°C	on Dec 1 at hr 6	Hours of Missing Data:	0		
Minimum Daily Value:	-28.1	°C	on Dec 17	Hours of Calibration:	0		
Monthly Average:	-9.4	°C		Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	-32.5	-32.8	-33.2	-33.2	-33.4	-33.2	**-33.6**	-33.4	-32.9	-31.5	-27	-24.5	-22.2	-20.6	-20.5	-21.4	-21.3	-20.7	-20.5	-20	-19.4	-18.7	-17.9	-16.9	**-33.6**	-16.9	-25.9
Dec 2	-15.8	-15.1	-14.6	-14.7	-15.6	-15.5	-14.8	-13.5	-12.1	-10.5	-9.4	-8	-6.4	-4.6	-3	-1.2	0.4	1.5	2.2	2.7	2.4	2.1	2.6	2.8	-15.8	2.8	-6.6
Dec 3	2.2	2.2	1.7	-2.5	-6.5	-9.9	-11.8	-12.4	-13.1	-14	-14.4	-14.7	-14.8	-15.2	-15.5	-15.7	-16.1	-16.4	-16.4	-16.4	-16.4	-16.4	-16.3	-16.3	-16.4	2.2	-11.9
Dec 4	-16	-15.8	-15.8	-15.8	-15.4	-14.8	-14	-14	-13.8	-12.7	-11.9	-11.3	-10.7	-9.8	-9.1	-8.5	-8	-7.5	-7	-7.2	-7.2	-7.1	-6.8	-7.2	-16.0	-6.8	-11.1
Dec 5	-7.5	-7	-6.8	-6.9	-6	-4.3	-3.3	-3.4	-3	-2.2	-0.8	0.7	1.8	1.6	1.7	1.8	1.9	2.4	2.5	2.3	2.9	2.3	2.1	2.4	-7.5	2.9	-1.0
Dec 6	3.3	2.9	2.8	3.4	3.8	4.4	5.2	5.5	**5.7**	5.6	5.5	5.6	**5.7**	5.6	5.4	4.9	4.1	3.6	3	2.5	2	1.1	1	0.8	0.8	**5.7**	**3.9**
Dec 7	0.4	-0.5	-1.4	-1.9	-2.5	-2.7	-3.3	-3.7	-3.5	-3.2	-3	-2	-1.1	-0.7	-0.2	-0.2	-0.5	-0.9	-1.5	-2.5	-3.1	-3.9	-4.5	-5.2	-5.2	0.4	-2.2
Dec 8	-6.1	-6.2	-5.1	-4.7	-4.7	-4.8	-4.6	-4.7	-4.8	-4.6	-4.4	-4.1	-3.7	-3.5	-3.3	-3.1	-3.7	-4.9	-5.3	-6.3	-7.9	-8.5	-10	-10.2	-10.2	-3.1	-5.4
Dec 9	-11.3	-11.5	-10.9	-10.1	-10.2	-10	-10.6	-10.1	-9.5	-9.8	-8.5	-7	-5.9	-6.7	-7.8	-8.6	-8.8	-9.1	-9.7	-10.1	-10.3	-10.5	-10.8	-11.2	-11.5	-5.9	-9.5
Dec 10	-11.4	-11.5	-11.7	-11.7	-11.6	-11.4	-11.2	-11	-11	-10.9	-10.5	-9.6	-9.4	-9.5	-9.6	-9.8	-9.9	-10.2	-10.4	-10.5	-10.3	-10.2	-10	-9.9	-11.7	-9.4	-10.6
Dec 11	-9.8	-9.6	-9.5	-9.3	-10	-11.1	-11.3	-11.4	-12.6	-13.3	-12.5	-11.8	-10.9	-10.4	-10.2	-10.2	-10.6	-10.7	-10.6	-10.4	-10.1	-10.6	-11.4	-11.7	-13.3	-9.3	-10.8
Dec 12	-11.9	-11.2	-10.4	-9.8	-9.7	-9.9	-10.3	-10.4	-9.9	-9.8	-9.3	-7.1	-5.4	-4.2	-3.3	-3.3	-3.9	-4.1	-3.5	-2.9	-3.2	-3.1	-2.8	-2.9	-11.9	-2.8	-6.8
Dec 13	-3.3	-3.3	-4	-5.1	-4.7	-4.3	-4.9	-6.1	-5.9	-5.8	-4.8	-2.7	-1.4	-0.5	-0.9	-2.4	-4.2	-4.9	-5.7	-6.4	-7	-7.6	-8.8	-9.7	-9.7	-0.5	-4.8
Dec 14	-10.3	-10.8	-8.6	-7.4	-7.7	-7.7	-7.5	-7.8	-8.1	-7.8	-7.7	-7.8	-7.8	-7.8	-8.2	-8.5	-9.1	-9.2	-10.8	-12.1	-13	-14	-14.7	-15.1	-15.1	-7.4	-9.6
Dec 15	-15.3	-15.7	-15.9	-16.1	-16.6	-17.1	-17.6	-18	-18	-17.9	-17.6	-17.2	-17.1	-17	-17	-17.1	-17.2	-17.2	-17.4	-17.5	-18.6	-20.3	-20.1	-19.7	-20.3	-15.3	-17.5
Dec 16	-19.6	-20.2	-21.1	-22	-23.1	-24	-25.1	-25.3	-24.3	-22.9	-22.1	-21.5	-21.2	-21.2	-21	-21.1	-21	-21.2	-21.2	-21.3	-21.7	-23.3	-24.7	-26.1	-26.1	-19.6	-22.3
Dec 17	-27.6	-28.6	-29	-29.9	-31.3	-31.6	-32.4	-32.8	-33.2	-33.3	-30.8	-25.9	-23.4	-22.6	-22	-22.7	-26	-27.4	-28.2	-28.7	-28.1	-27.6	-26.4	-25.9	-33.3	-22.0	**-28.1**
Dec 18	-26	-25.8	-26.4	-26.6	-26.5	-26.1	-25.2	-24.4	-23.9	-23.6	-22.7	-21.8	-21.6	-21.3	-21.3	-21.1	-20.9	-20.8	-20.5	-20.2	-20.5	-21.2	-21.1	-21.4	-26.6	-20.2	-23.0
Dec 19	-21.1	-20.7	-20.6	-20.2	-19.8	-19.5	-19.5	-19.9	-21.5	-23	-22.3	-20.5	-19.7	-19	-18.6	-18.4	-18.5	-18.5	-18.2	-17.8	-17.1	-16.9	-16.7	-16	-23.0	-16.0	-19.3
Dec 20	-15.2	-14.9	-14.5	-15	-14.6	-12.9	-12.8	-12.2	-11.5	-12.2	-12	-11	-10.2	-9.8	-9.6	-10	-11.9	-12.9	-13.3	-13.5	-13.5	-13.7	-13.2	-12.6	-15.2	-9.6	-12.6
Dec 21	-12.2	-11.7	-10.2	-8.9	-7.8	-6.9	-5.4	-5	-5.4	-6.2	-5.5	-3.9	-2.3	-0.8	0.2	-1.1	-3.5	-5.3	-7.3	-7.9	-8.2	-7.6	-7.2	-7.1	-12.2	0.2	-6.1
Dec 22	-7	-7.1	-7.3	-7.7	-7.7	-7.6	-7.3	-7.5	-7.2	-6.5	-5	-2.3	-1.3	-0.1	0.2	-0.5	-2	-2.6	-2.8	-2.6	-3.1	-1.5	-1.7	-2.2	-7.7	0.2	-4.2
Dec 23	-3.2	-3	-3	-3.4	-3.3	-3.6	-4.3	-4.8	-4.4	-4.5	-1.9	0.8	2.1	2.8	2.8	1.9	0.7	0.5	0.6	0.6	-0.4	-1.2	-1.7	-2.2	-4.8	2.8	-1.3
Dec 24	-2.7	-3.2	-2.7	-1.6	-0.5	-1.5	-0.9	-0.5	0.6	1.4	1.5	1.2	2.6	2.2	2.3	2.8	1	0.3	-0.1	0.2	0.5	0.8	1.5	2.4	-3.2	2.8	0.3
Dec 25	2.2	1.5	0.5	-0.1	-1.3	-1.5	-1.2	-1.5	-0.4	-0.8	-0.8	0.5	2	2.6	2.3	0	-1.1	-1.5	-0.8	-0.8	-1	-1.5	-0.9	-1.4	-1.5	2.6	-0.2
Dec 26	-0.5	-1.7	-1.5	-0.9	-0.1	-1	-2.4	-2.3	-4.2	-4.3	-4.5	-2.5	-0.3	0.2	0	-1	-2.3	-3.1	-3.1	-2.8	-2.1	-1.8	-1.8	-1.8	-4.5	0.2	-1.9
Dec 27	-2	-2.5	-2.4	-2.6	-2.8	-2.9	-2.9	-2.7	-2.3	-1.9	-1.6	-1.3	-0.9	-0.5	-0.2	0	-0.1	-0.5	-1.2	-1.6	-2	-2.2	-2.3	-2.4	-2.9	0.0	-1.7
Dec 28	-2.4	-2.5	-2.6	-2.6	-2.6	-2.7	-2.9	-3	-3.1	-3.3	-3.4	-3.4	-3.3	-3	-2.8	-4.1	-5.2	-7	-7.7	-7.6	-7.7	-7.8	-7.3	-6.9	-7.8	-2.4	-4.4
Dec 29	-6.6	-6.6	-6.5	-6.4	-6.4	-6.8	-7	-7.1	-7.1	-7.1	-6.8	-6.2	-6.3	-6.8	-7.3	-7.5	-7.7	-8.1	-8.6	-9	-9.2	-9.8	-10.1	-10.2	-10.2	-6.2	-7.6
Dec 30	-10.4	-10.6	-11	-11.6	-12.2	-12.7	-13	-13.4	-13.8	-14.6	-14.2	-13.7	-13.5	-13.5	-13.3	-13.7	-14.4	-14.6	-15.1	-15.2	-15.1	-15.1	-15.1	-15.3	-15.3	-10.4	-13.5
Dec 31	-15.3	-15.5	-15.7	-15.9	-16.2	-16.5	-16.7	-16.8	-16.9	-17.1	-17	-17	-16.8	-16.6	-16.5	-16.4	-16.4	-16.4	-16.6	-16.6	-16.6	-16.7	-16.8	-17	-17.1	-15.3	-16.5
Diurnal Maximum	3.3	2.9	2.8	3.4	3.8	4.4	5.2	5.5	5.7	5.6	5.5	5.6	5.7	5.6	5.4	4.9	4.1	3.6	3.0	2.7	2.9	2.3	2.6	2.8			
Diurnal Average	-10.2	-10.3	-10.2	-10.4	-10.5	-10.6	-10.7	-10.8	-10.7	-10.6	-9.9	-8.7	-7.9	-7.4	-7.3	-7.6	-8.3	-8.6	-8.9	-9.0	-9.2	-9.4	-9.5	-9.6			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

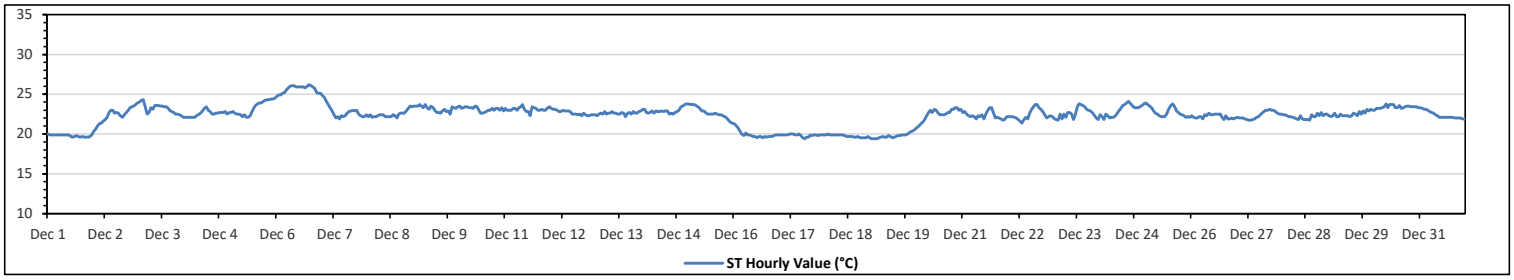
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	26.2	°C	on Dec 6 at hr 17	Hours in Service:	744	
Maximum Daily Value:	25.6	°C	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	19.4	°C	on Dec 17 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	19.7	°C	on Dec 18	Hours of Calibration:	0	
Monthly Average:	22.3	°C		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	20.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.7	19.6	19.7	19.8	19.7	19.6	19.7	19.6	19.6	19.6	19.7	19.9	19.6	20.0	19.8
Dec 2	20.3	20.6	21.0	21.3	21.4	21.6	21.8	22.1	22.7	23.0	23.0	22.6	22.7	22.6	22.3	22.1	22.4	22.7	23.0	23.3	23.4	23.5	23.7	23.9	20.3	23.9	22.4
Dec 3	24.0	24.2	24.3	23.4	22.5	22.7	23.3	23.1	23.6	23.6	23.6	23.5	23.5	23.4	23.4	23.2	22.9	22.8	22.7	22.5	22.5	22.4	22.3	22.1	22.1	24.3	23.1
Dec 4	22.1	22.1	22.1	22.1	22.1	22.1	22.3	22.4	22.6	22.9	23.2	23.4	23.0	22.8	22.5	22.5	22.6	22.6	22.7	22.7	22.7	22.8	22.5	22.7	22.1	23.4	22.6
Dec 5	22.7	22.8	22.6	22.5	22.5	22.4	22.2	22.4	22.1	22.1	22.3	22.8	23.3	23.6	23.8	23.9	23.9	24.1	24.2	24.3	24.3	24.4	24.4	24.5	22.1	24.5	23.3
Dec 6	24.7	24.9	24.9	25.1	25.2	25.5	25.8	26.0	26.1	26.1	25.9	25.9	25.9	25.9	25.9	25.8	26.0	**26.2**	26.1	25.9	25.7	25.2	25.1	25.1	24.7	**26.2**	**25.6**
Dec 7	24.8	24.6	24.1	23.7	23.3	22.9	22.4	22.0	22.2	21.9	22.3	22.2	22.3	22.6	22.8	22.9	23.0	22.9	23.0	22.5	22.3	22.2	22.2	22.4	21.9	24.8	22.8
Dec 8	22.2	22.4	22.1	22.2	22.2	22.3	22.4	22.4	22.4	22.2	22.2	22.2	22.2	22.4	22.3	22.0	22.5	22.6	22.6	22.6	22.9	23.2	23.5	23.4	22.0	23.5	22.5
Dec 9	23.5	23.5	23.5	23.7	23.5	23.3	23.7	23.3	23.1	23.5	23.3	22.9	22.7	22.7	22.6	22.9	23.1	22.8	22.9	22.5	23.4	23.3	23.2	23.4	22.5	23.7	23.2
Dec 10	23.5	23.2	23.3	23.4	23.4	23.3	23.3	23.2	23.5	23.4	23.0	22.6	22.6	22.7	22.8	23.0	23.0	23.2	23.0	23.2	23.2	23.0	23.3	22.9	22.6	23.5	23.1
Dec 11	23.2	23.0	23.0	23.0	23.2	23.2	23.0	23.3	23.4	23.7	23.1	22.8	22.8	22.3	23.4	23.3	23.2	23.0	23.0	23.1	23.0	23.0	23.2	23.4	22.3	23.7	23.1
Dec 12	23.2	23.1	23.1	23.0	22.8	22.8	23.0	22.9	22.9	22.9	22.8	22.5	22.5	22.5	22.4	22.5	22.3	22.6	22.4	22.3	22.3	22.4	22.4	22.4	22.3	23.2	22.7
Dec 13	22.3	22.5	22.6	22.5	22.8	22.5	22.6	22.6	22.8	22.6	22.6	22.5	22.5	22.7	22.6	22.2	22.6	22.7	22.5	22.8	22.6	22.6	22.8	22.9	22.2	22.9	22.6
Dec 14	23.1	23.1	22.7	22.6	22.7	22.9	22.6	22.9	22.8	22.8	22.9	22.8	22.9	22.9	22.5	22.6	22.5	22.7	22.8	23.0	23.4	23.5	23.7	23.8	22.5	23.8	22.9
Dec 15	23.8	23.7	23.7	23.7	23.6	23.4	23.2	22.9	22.9	22.7	22.5	22.5	22.5	22.5	22.6	22.5	22.4	22.4	22.3	22.2	22.0	21.7	21.5	21.4	21.4	23.8	22.7
Dec 16	21.3	21.1	20.8	20.4	20.0	19.8	20.1	19.9	19.9	19.8	19.7	19.7	19.5	19.7	19.7	19.5	19.7	19.6	19.7	19.7	19.7	19.8	19.9	19.9	19.5	21.3	20.0
Dec 17	19.9	19.9	19.9	19.9	19.9	20.0	20.0	20.0	19.9	19.9	20.0	19.8	19.5	**19.4**	19.6	19.6	19.9	19.8	19.9	19.9	19.8	19.9	19.9	19.9	**19.4**	20.0	19.8
Dec 18	19.9	20.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.8	19.7	19.7	19.7	19.7	19.6	19.6	19.7	19.5	19.5	19.5	19.5	19.7	19.5	19.5	20.0	**19.7**
Dec 19	**19.4**	**19.4**	**19.4**	**19.4**	19.5	19.6	19.7	19.6	19.6	19.8	19.7	19.5	19.6	19.7	19.8	19.8	19.9	19.9	19.9	20.0	20.2	20.3	20.4	20.6	**19.4**	20.6	19.8
Dec 20	20.8	21.0	21.3	21.5	21.8	22.3	22.7	23.0	22.7	23.1	23.0	22.6	22.4	22.4	22.4	22.5	22.7	22.7	23.1	23.1	23.3	23.3	23.0	23.1	20.8	23.3	22.5
Dec 21	22.7	22.8	22.5	22.3	22.2	22.3	22.2	21.9	22.3	22.2	22.4	21.9	22.5	23.0	23.3	23.3	22.6	22.0	22.1	22.0	21.9	21.7	21.8	22.2	21.7	23.3	22.3
Dec 22	22.2	22.2	22.2	22.1	22.0	21.8	21.6	21.4	21.8	22.1	21.9	22.6	23.1	23.4	23.7	23.7	23.3	23.1	22.8	22.4	22.0	22.2	22.3	22.2	21.4	23.7	22.4
Dec 23	21.9	21.8	21.7	22.5	21.9	22.5	22.1	22.7	22.7	22.5	21.8	22.5	23.4	23.8	23.7	23.6	23.4	23.1	23.0	22.9	22.6	22.3	22.0	21.8	21.7	23.8	22.6
Dec 24	22.4	22.2	21.8	22.5	22.3	22.0	22.1	22.1	22.3	22.6	23.0	23.2	23.6	23.7	23.9	24.1	23.8	23.5	23.3	23.3	23.3	23.4	23.6	23.8	21.8	24.1	23.0
Dec 25	23.9	23.7	23.5	23.3	22.9	22.6	22.5	22.3	22.2	22.2	22.2	22.5	23.1	23.6	23.8	23.4	22.9	22.7	22.5	22.4	22.3	22.1	22.2	22.1	22.1	23.9	22.8
Dec 26	22.3	22.1	22.0	22.0	22.2	22.2	21.9	22.4	22.3	22.6	22.4	22.4	22.5	22.5	22.5	22.5	22.1	21.8	22.3	21.9	21.9	22.0	21.9	22.0	21.8	22.6	22.2
Dec 27	22.1	22.0	22.0	22.0	21.9	21.8	21.7	21.7	21.8	21.9	22.1	22.2	22.4	22.6	22.8	23.0	23.0	23.1	23.0	23.0	22.8	22.6	22.5	22.5	21.7	23.1	22.4
Dec 28	22.4	22.4	22.3	22.2	22.2	22.1	22.0	21.9	21.8	22.3	21.9	21.8	21.8	21.8	21.7	22.4	22.2	22.2	22.6	22.3	22.7	22.3	22.5	22.5	21.7	22.7	22.2
Dec 29	22.3	22.2	22.3	22.6	22.2	22.2	22.5	22.3	22.3	22.3	22.3	22.2	22.3	22.6	22.5	22.3	22.8	22.5	22.9	22.6	23.1	22.9	23.1	23.0	22.2	23.1	22.5
Dec 30	23.0	23.2	23.2	23.2	23.3	23.4	23.8	23.3	23.7	23.7	23.7	23.3	23.3	23.6	23.2	23.3	23.4	23.5	23.5	23.4	23.4	23.4	23.4	23.3	23.0	23.8	23.4
Dec 31	23.3	23.2	23.1	23.1	23.0	22.8	22.7	22.6	22.4	22.3	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.0	22.0	22.0	22.0	21.9	21.9	21.9	23.3	22.4
Diurnal Maximum	24.8	24.9	24.9	25.1	25.2	25.5	25.8	26.0	26.1	26.1	25.9	25.9	25.9	25.9	25.9	25.8	26.0	26.2	26.1	25.9	25.7	25.2	25.1	25.1			
Diurnal Average	22.4	22.3	22.3	22.3	22.2	22.2	22.2	22.2	22.3	22.3	22.3	22.2	22.3	22.4	22.5	22.4	22.4	22.4	22.4	22.4	22.4	22.3	22.4	22.4			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

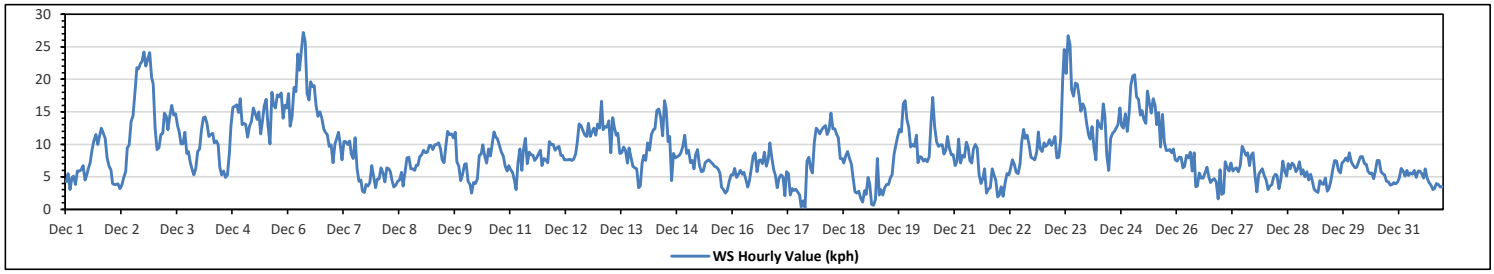
VECTOR WIND SPEED (VWS) in km/hr

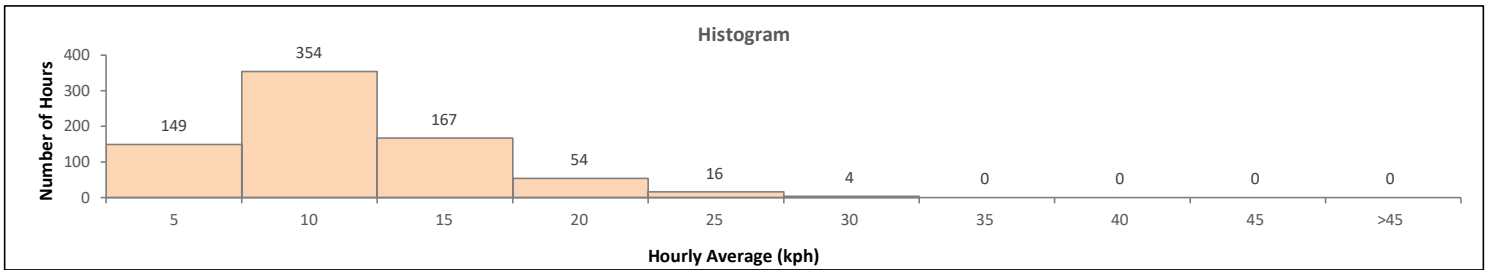
Maximum Hourly Value:	27.2	kph	on Dec 6 at hr 8	Hours in Service:	744	
Maximum Daily Value:	17.1	kph	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	0.3	kph	on Dec 17 at hr 15	Hours of Missing Data:	0	
Minimum Daily Value:	4.9	kph	on Dec 31	Hours of Calibration:	0	
Monthly Average:	3.4	kph		Operational 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
Dec 1	4.2	5.5	3.0	4.9	5.1	3.8	5.9	5.9	6.1	6.7	4.5	5.2	6.2	7.2	9.2	10.6	11.5	10.0	11.2	12.5	11.7	10.9	7.9	6.6	3.0	12.5	7.3
Dec 2	6.1	4.0	3.8	3.8	3.9	3.2	3.7	4.9	5.8	9.4	9.9	13.5	14.4	18.0	21.8	21.6	22.4	22.7	24.2	22.0	23.1	24.1	20.3	19.3	3.2	24.2	13.6
Dec 3	12.5	9.2	9.5	11.5	11.7	14.8	14.3	12.2	14.4	16.0	14.5	14.7	12.9	12.0	10.1	10.1	11.8	8.6	8.9	7.2	6.1	5.3	6.2	8.9	5.3	16.0	11.0
Dec 4	9.3	12.3	14.1	14.2	13.2	11.2	11.5	11.7	10.2	10.5	10.0	6.5	5.3	5.9	4.9	5.3	8.6	12.9	15.7	15.8	16.1	14.9	17.0	13.0	4.9	17.0	11.3
Dec 5	13.2	13.0	11.1	12.8	13.5	15.6	14.7	13.8	15.0	11.6	13.8	15.9	16.9	12.7	10.1	18.0	16.1	15.6	17.6	17.3	17.9	14.0	16.0	15.6	10.1	18.0	14.7
Dec 6	17.8	12.8	14.3	18.7	18.1	23.9	21.4	24.4	**27.2**	25.8	17.8	16.8	19.6	18.9	19.0	15.9	14.3	15.0	14.0	12.4	11.8	11.5	9.7	9.9	9.7	**27.2**	**17.1**
Dec 7	7.2	10.1	10.8	11.8	10.2	7.6	10.4	10.4	10.0	10.5	8.5	7.8	11.0	6.3	4.3	4.5	2.8	2.6	3.8	3.6	4.1	6.7	5.0	3.3	2.6	11.8	7.2
Dec 8	4.6	4.7	6.4	5.6	4.2	6.4	6.2	5.8	4.5	3.4	3.7	4.3	4.5	5.7	3.6	5.7	7.9	8.0	6.2	6.2	6.0	6.8	6.8	8.1	3.4	8.1	5.6
Dec 9	8.4	9.1	8.7	8.8	9.8	9.8	9.2	9.9	10.0	10.2	9.3	7.6	7.2	9.5	12.0	11.5	11.6	11.0	11.8	7.3	6.6	4.4	5.4	6.9	4.4	12.0	9.0
Dec 10	7.0	4.3	3.8	2.5	4.1	4.0	4.7	8.3	8.5	9.9	8.2	7.1	9.3	8.2	9.9	11.9	11.1	10.8	9.8	8.8	8.2	6.6	5.9	6.7	2.5	11.9	7.5
Dec 11	6.1	5.7	4.4	3.0	7.2	9.3	6.0	9.1	10.9	7.0	8.8	8.4	8.3	7.5	7.9	8.5	9.1	6.7	7.8	7.6	7.2	10.4	10.0	10.0	3.0	10.9	7.8
Dec 12	9.1	9.5	9.7	8.3	8.3	7.6	7.6	7.6	7.7	7.5	7.7	8.5	10.2	13.1	12.9	12.1	11.4	11.2	13.2	11.2	11.8	12.5	11.4	13.1	7.5	13.2	10.1
Dec 13	12.5	16.6	12.2	12.7	12.6	13.6	8.7	14.1	12.6	11.4	11.7	8.6	8.7	9.6	9.0	7.1	9.4	8.0	6.6	6.4	6.2	3.3	3.6	7.2	3.3	16.6	9.7
Dec 14	8.3	7.5	10.2	9.1	11.5	12.2	12.4	15.2	15.4	14.1	11.3	16.7	15.4	10.4	11.2	4.4	8.6	7.9	8.1	8.3	8.7	9.7	11.4	8.6	4.4	16.7	10.7
Dec 15	9.1	7.2	7.5	6.2	8.4	9.2	6.8	5.8	5.9	7.2	7.4	7.6	7.3	7.0	6.6	6.5	6.2	5.6	3.4	3.0	2.5	2.9	4.3	5.3	2.5	9.2	6.2
Dec 16	5.3	6.3	4.9	5.4	6.0	5.4	5.7	4.6	3.4	4.3	6.2	8.2	8.7	5.8	7.5	7.6	7.0	8.8	6.6	7.7	10.2	8.0	6.1	5.3	3.4	10.2	6.5
Dec 17	3.3	4.8	5.3	5.0	2.1	5.8	5.5	2.2	3.2	2.9	3.1	2.7	2.2	0.4	1.3	**0.3**	7.4	8.0	6.2	5.6	10.3	12.5	12.1	11.6	**0.3**	12.5	5.2
Dec 18	12.2	12.6	12.9	11.5	12.2	14.8	12.4	12.4	11.5	11.0	7.8	7.8	7.1	8.2	8.9	7.8	6.9	4.9	2.7	2.5	2.8	1.7	1.1	2.9	1.1	14.8	8.2
Dec 19	2.3	4.9	3.9	0.8	0.6	1.5	7.8	2.2	3.0	2.2	3.3	3.8	3.8	4.9	5.3	8.4	9.7	11.1	12.3	11.9	16.2	16.7	13.9	12.6	0.6	16.7	6.8
Dec 20	9.6	10.0	9.7	11.4	7.2	8.1	8.0	7.4	7.7	7.3	8.1	13.6	17.2	12.7	10.4	9.7	9.9	9.9	8.5	9.1	11.2	9.4	8.4	8.4	7.2	17.2	9.7
Dec 21	6.7	7.4	10.8	7.1	8.3	8.0	10.3	9.5	7.5	7.1	9.2	10.0	9.4	5.3	4.0	4.8	6.2	2.5	3.1	3.3	6.2	5.2	4.5	1.9	1.9	10.8	6.6
Dec 22	2.2	3.5	2.0	4.0	5.5	5.3	6.2	7.6	6.9	5.7	5.5	7.0	10.3	12.3	10.9	11.4	10.0	8.0	7.8	7.6	8.8	11.9	9.3	8.9	2.0	12.3	7.4
Dec 23	10.2	9.7	10.0	10.7	9.8	10.3	11.2	7.9	8.0	10.9	19.8	24.6	20.9	26.7	25.4	18.4	17.4	19.4	19.2	17.6	15.1	16.2	15.5	13.2	7.9	26.7	15.3
Dec 24	11.5	10.8	12.7	9.5	7.6	13.7	12.9	12.4	16.2	14.4	8.3	6.0	10.9	11.7	12.0	12.5	13.0	15.6	12.9	12.5	14.7	12.0	14.9	19.0	6.0	19.0	12.4
Dec 25	20.5	20.7	17.3	16.9	14.5	15.2	13.8	13.2	18.2	16.4	14.8	17.0	16.0	13.0	14.9	9.6	14.6	10.3	9.0	9.1	9.2	8.7	9.3	7.6	7.6	20.7	13.7
Dec 26	7.4	8.0	8.0	6.4	6.6	8.3	7.9	8.8	5.9	8.7	3.5	3.6	5.6	4.8	4.8	5.6	6.5	5.0	4.1	4.5	4.7	4.2	1.6	6.1	1.6	8.8	5.9
Dec 27	2.3	2.5	7.3	6.5	5.9	7.1	5.9	6.2	6.4	5.8	6.7	9.7	9.0	8.3	8.7	6.7	8.3	8.7	5.3	2.7	5.4	5.9	6.2	5.2	2.3	9.7	6.4
Dec 28	4.5	3.0	3.6	3.8	4.9	5.4	5.2	3.2	4.6	7.4	5.9	5.1	7.0	6.2	7.1	6.8	5.8	6.3	7.3	5.4	6.1	5.0	5.8	4.5	3.0	7.4	5.4
Dec 29	5.4	4.2	3.1	2.8	2.6	4.4	4.0	3.8	4.8	2.8	3.2	4.3	6.1	7.5	7.4	6.0	5.6	7.1	7.4	7.9	7.4	8.7	7.3	6.8	2.6	8.7	5.4
Dec 30	6.4	6.5	7.3	8.1	8.1	7.0	6.9	5.9	5.5	5.6	4.7	5.8	7.5	7.5	5.8	5.5	5.3	4.3	4.2	3.7	3.8	4.1	3.9	4.2	3.7	8.1	5.7
Dec 31	4.8	6.3	5.9	5.1	6.0	5.2	5.6	5.4	6.0	4.9	5.9	5.9	5.5	4.8	6.2	4.8	4.1	3.7	3.0	3.2	4.0	3.8	3.4	3.5	3.0	6.3	**4.9**
Diurnal Maximum	20.5	20.7	17.3	18.7	18.1	23.9	21.4	24.4	27.2	25.8	19.8	24.6	20.9	26.7	25.4	21.6	22.4	22.7	24.2	22.0	23.1	24.1	20.3	19.3			
Diurnal Average	8.1	8.2	8.2	8.0	8.1	9.0	8.8	8.8	9.1	9.0	8.5	9.2	9.8	9.4	9.5	9.0	9.7	9.4	9.1	8.5	9.2	9.0	8.5	8.5			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



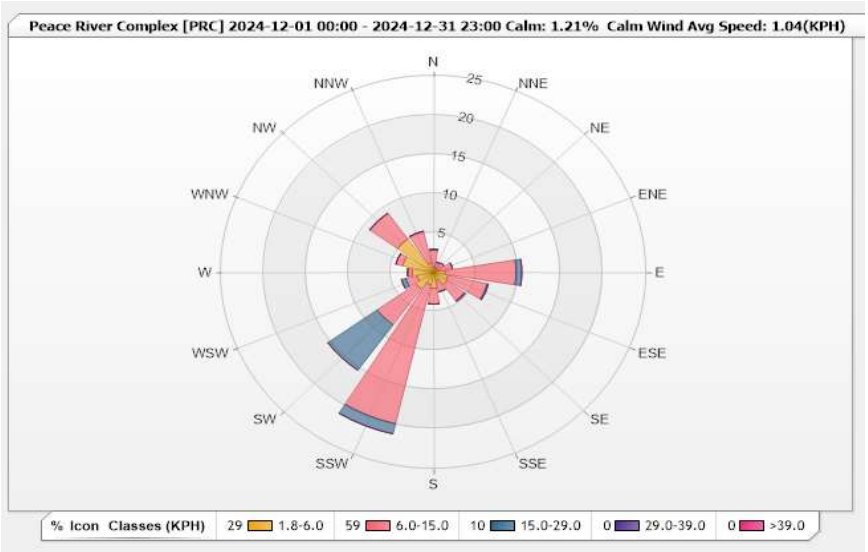


Station: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 12-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 1.21% 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	0.67	2.15	0.13	0	0	2.95
NNE	0.54	0.81	0	0	0	1.35
NE	0.4	1.08	0	0	0	1.48
ENE	0.67	1.61	0	0	0	2.28
E	1.34	8.33	0.67	0	0	10.34
ESE	1.75	4.7	0.13	0	0	6.58
SE	1.88	2.55	0.13	0	0	4.56
SSE	1.08	1.48	0	0	0	2.56
S	2.02	2.02	0	0	0	4.04
SSW	1.61	18.15	1.34	0	0	21.1
SW	2.55	5.65	7.12	0	0	15.32
WSW	2.02	1.34	0.54	0	0	3.9
W	2.55	0.54	0	0	0	3.09
WNW	3.76	0.81	0	0	0	4.57
NW	5.24	4.03	0	0	0	9.27
NNW	1.21	4.17	0	0	0	5.38
Summary	29.29	59.42	10.06	0	0	98.77



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

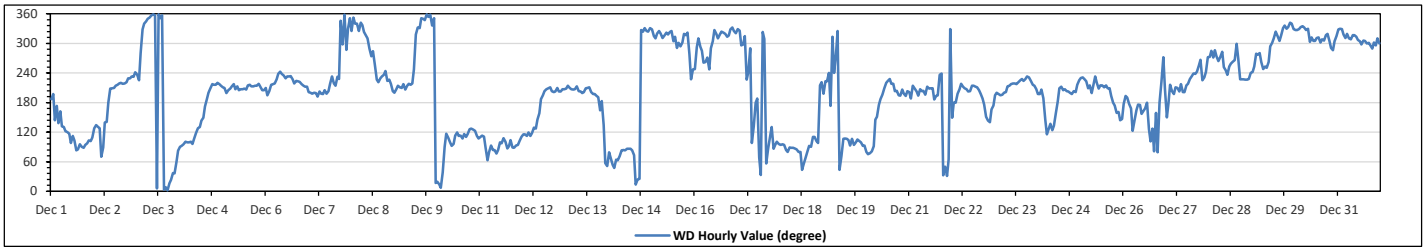
WIND DIRECTION (VWD) in sector

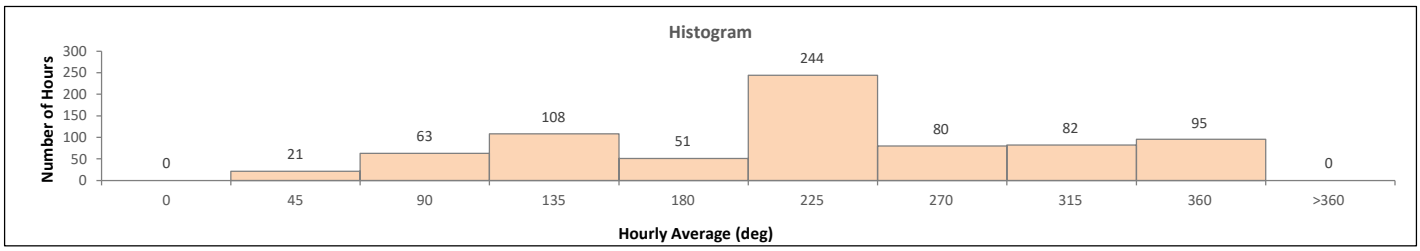
Monthly Average:	205 (SSW)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Dec 1	S	SSW	SE	S	SE	SSE	SE	SE	ESE	ESE	ESE	E	ESE	ESE	E	E	E	E	E	E	E	ESE	E	ESE	109	ESE
Dec 2	SE	SE	SE	SE	ENE	E	SE	SE	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	216	SW
Dec 3	SW	SW	W	NNW	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NE	NE	ENE	E	355	N
Dec 4	E	E	E	E	E	E	E	E	ESE	ESE	SE	SE	SE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	SW	SSW	154	SSE
Dec 5	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	210	SSW
Dec 6	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	225	SW
Dec 7	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SW	SW	NNW	WNW	N	WNW	NNW	N	213	SSW
Dec 8	NW	N	NNW	NNW	NW	NNW	NNW	NW	NW	NW	WNW	W	WNW	WSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SSW	271	W
Dec 9	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SW	WSW	NW	NNW	NNW	N	N	NNW	N	N	N	NNW	N	NNE	276	W
Dec 10	NNE	NNE	N	NE	E	ESE	ESE	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	ESE	ESE	ESE	106	ESE
Dec 11	ESE	ESE	ESE	E	ENE	E	E	E	E	ENE	E	E	E	ESE	E	E	E	ESE	E	E	E	E	E	ESE	93	E
Dec 12	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	179	S
Dec 13	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	S	SE	ENE	NE	201	SSW
Dec 14	ENE	ENE	NE	NE	ENE	ENE	ENE	E	E	E	E	E	E	E	ENE	NNE	NNE	NNE	NW	NW	NNW	NW	NW	NNW	54	NE
Dec 15	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	WNW	WNW	WNW	NW	NW	NW	W	SW	WSW	310	NW
Dec 16	WSW	WNW	NW	WNW	WNW	W	W	W	WSW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	NW	307	NW
Dec 17	NNW	NW	WNW	WNW	NW	SW	WSW	WNW	E	SE	S	S	ENE	NNE	NW	NW	NE	E	ESE	SE	E	E	E	E	94	E
Dec 18	E	E	E	E	E	E	E	E	E	E	E	E	NE	NE	ENE	ENE	E	E	ESE	ESE	E	E	SSW	SW	85	E
Dec 19	SSW	SW	SW	WSW	S	NW	WSW	W	NW	NE	ENE	ESE	ESE	ESE	ESE	E	ESE	E	E	ESE	E	E	E	E	104	ESE
Dec 20	E	ENE	ENE	E	E	SE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	187	S
Dec 21	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SW	WSW	NNE	NE	NNE	ENE	NNW	202	SSW
Dec 22	SSE	S	S	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SE	SE	SSE	S	191	S
Dec 23	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	217	SW
Dec 24	SSW	SSW	SSW	S	SE	ESE	SE	SE	ESE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	186	S
Dec 25	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	SSE	SE	SE	209	SSW
Dec 26	S	S	S	S	SSE	ESE	SE	SSE	S	S	SSE	SSE	SSE	S	SE	E	SE	E	SSE	ENE	S	SW	W	SSW	162	SSE
Dec 27	SSE	S	SW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	W	SW	SW	WSW	W	222	SW
Dec 28	W	WNW	W	WNW	W	W	W	W	WSW	WSW	SW	WSW	WSW	W	W	WNW	W	SW	SW	SW	SW	SW	SW	WSW	254	WSW
Dec 29	WSW	WSW	W	W	W	W	WSW	WSW	WSW	W	WNW	WNW	NW	NW	NW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	307	NW
Dec 30	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	WNW	NW	WNW	WNW	NW	NW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	NW	316	NW
Dec 31	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	310	NW

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

Peace River Complex (PRC) Station - December 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	27.2	kph	on Dec 6 at hr 8	Hours in Service:	744
Maximum Daily Value:	17.1	kph	on Dec 6	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on Dec 17 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	4.9	kph	on Dec 31	Hours of Calibration:	0
Monthly Average:	3.4	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 205 degree (SSW)

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			
Dec 1	4.2	5.5	3.0	4.9	5.1	3.8	5.9	5.9	6.1	6.7	4.5	5.2	6.2	7.2	9.2	10.6	11.5	10.0	11.2	12.5	11.7	10.9	7.9	6.6	3.0	12.5	7.3
	S	SSW	SE	S	SE	SSE	SE	SE	ESE	ESE	ESE	E	ESE	ESE	E	E	E	E	E	E	E	ESE	E	ESE			109(ESE)
Dec 2	6.1	4.0	3.8	3.8	3.9	3.2	3.7	4.9	5.8	9.4	9.9	13.5	14.4	18.0	21.8	21.6	22.4	22.7	24.2	22.0	23.1	24.1	20.3	19.3	3.2	24.2	13.6
	SE	SE	SE	SE	ENE	E	SE	SE	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW			216(SW)
Dec 3	12.5	9.2	9.5	11.5	11.7	14.8	14.3	12.2	14.4	16.0	14.5	14.7	12.9	12.0	10.1	10.1	11.8	8.6	8.9	7.2	6.1	5.3	6.2	8.9	5.3	16.0	11.0
	SW	SW	W	NNW	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NE	NE	ENE	E			355(N)
Dec 4	9.3	12.3	14.1	14.2	13.2	11.2	11.5	11.7	10.2	10.5	10.0	6.5	5.3	5.9	4.9	5.3	8.6	12.9	15.7	15.8	16.1	14.9	17.0	13.0	4.9	17.0	11.3
	E	E	E	E	E	E	E	E	ESE	ESE	SE	SE	SE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	SW	SSW			154(SSE)
Dec 5	13.2	13.0	11.1	12.8	13.5	15.6	14.7	13.8	15.0	11.6	13.8	15.9	16.9	12.7	10.1	18.0	16.1	15.6	17.6	17.3	17.9	14.0	16.0	15.6	10.1	18.0	14.7
	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW			210(SSW)
Dec 6	17.8	12.8	14.3	18.7	18.1	23.9	21.4	24.4	**27.2**	25.8	17.8	16.8	19.6	18.9	19.0	15.9	14.3	15.0	14.0	12.4	11.8	11.5	9.7	9.9	9.7	**27.2**	**17.1**
	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW			225(SW)
Dec 7	7.2	10.1	10.8	11.8	10.2	7.6	10.4	10.4	10.0	10.5	8.5	7.8	11.0	6.3	4.3	4.5	2.8	2.6	3.8	3.6	4.1	6.7	5.0	3.3	2.6	11.8	7.2
	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SW	SW	NNW	WNW	N	WNW	NNW	N			213(SSW)
Dec 8	4.6	4.7	6.4	5.6	4.2	6.4	6.2	5.8	4.5	3.4	3.7	4.3	4.5	5.7	3.6	5.7	7.9	8.0	6.2	6.2	6.0	6.8	6.8	8.1	3.4	8.1	5.6
	NW	N	NNW	NNW	NW	NNW	NNW	NW	NW	NW	WNW	W	WNW	WSW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SSW			271(W)
Dec 9	8.4	9.1	8.7	8.8	9.8	9.8	9.2	9.9	10.0	10.2	9.3	7.6	7.2	9.5	12.0	11.5	11.6	11.0	11.8	7.3	6.6	4.4	5.4	6.9	4.4	12.0	9.0
	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SW	WSW	NW	NNW	NNW	N	N	NNW	N	N	N	NNW	N	NNE			276(W)
Dec 10	7.0	4.3	3.8	2.5	4.1	4.0	4.7	8.3	8.5	9.9	8.2	7.1	9.3	8.2	9.9	11.9	11.1	10.8	9.8	8.8	8.2	6.6	5.9	6.7	2.5	11.9	7.5
	NNE	NNE	N	NE	E	ESE	ESE	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	ESE	ESE	ESE			106(ESE)
Dec 11	6.1	5.7	4.4	3.0	7.2	9.3	6.0	9.1	10.9	7.0	8.8	8.4	8.3	7.5	7.9	8.5	9.1	6.7	7.8	7.6	7.2	10.4	10.0	10.0	3.0	10.9	7.8
	ESE	ESE	ESE	E	ENE	E	E	E	E	ENE	E	E	E	ESE	E	E	E	ESE	E	E	E	E	E	ESE			93(E)
Dec 12	9.1	9.5	9.7	8.3	8.3	7.6	7.6	7.6	7.7	7.5	7.7	8.5	10.2	13.1	12.9	12.1	11.4	11.2	13.2	11.2	11.8	12.5	11.4	13.1	7.5	13.2	10.1
	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			179(S)
Dec 13	12.5	16.6	12.2	12.7	12.6	13.6	8.7	14.1	12.6	11.4	11.7	8.6	8.7	9.6	9.0	7.1	9.4	8.0	6.6	6.4	6.2	3.3	3.6	7.2	3.3	16.6	9.7
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	S	SE	ENE	NE			201(SSW)
Dec 14	8.3	7.5	10.2	9.1	11.5	12.2	12.4	15.2	15.4	14.1	11.3	16.7	15.4	10.4	11.2	4.4	8.6	7.9	8.1	8.3	8.7	9.7	11.4	8.6	4.4	16.7	10.7
	ENE	ENE	NE	NE	ENE	ENE	ENE	E	E	E	E	E	E	E	ENE	NNE	NNE	NNE	NW	NW	NNW	NW	NW	NNW			54(NE)
Dec 15	9.1	7.2	7.5	6.2	8.4	9.2	6.8	5.8	5.9	7.2	7.4	7.6	7.3	7.0	6.6	6.5	6.2	5.6	3.4	3.0	2.5	2.9	4.3	5.3	2.5	9.2	6.2
	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	WNW	WNW	WNW	NW	NW	NW	W	SW	WSW			310(NW)
Dec 16	5.3	6.3	4.9	5.4	6.0	5.4	5.7	4.6	3.4	4.3	6.2	8.2	8.7	5.8	7.5	7.6	7.0	8.8	6.6	7.7	10.2	8.0	6.1	5.3	3.4	10.2	6.5
	WSW	WNW	NW	WNW	WNW	W	W	W	WSW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	NW			307(NW)
Dec 17	3.3	4.8	5.3	5.0	2.1	5.8	5.5	2.2	3.2	2.9	3.1	2.7	2.2	0.4	1.3	**0.3**	7.4	8.0	6.2	5.6	10.3	12.5	12.1	11.6	**0.3**	12.5	5.2
	NNW	NW	WNW	WNW	NW	SW	WSW	WNW	E	SE	S	S	ENE	NNE	NW	NW	NE	E	ESE	SE	E	E	E	E			94(E)
Dec 18	12.2	12.6	12.9	11.5	12.2	14.8	12.4	12.4	11.5	11.0	7.8	7.8	7.1	8.2	8.9	7.8	6.9	4.9	2.7	2.5	2.8	1.7	1.1	2.9	1.1	14.8	8.2
	E	E	E	E	E	E	E	E	E	E	E	E	NE	NE	ENE	ENE	E	E	ESE	ESE	E	E	SSW	SW			85(E)
Dec 19	2.3	4.9	3.9	0.8	0.6	1.5	7.8	2.2	3.0	2.2	3.3	3.8	3.8	4.9	5.3	8.4	9.7	11.1	12.3	11.9	16.2	16.7	13.9	12.6	0.6	16.7	6.8
	SSW	SW	SW	WSW	S	NW	WSW	W	NW	NE	ENE	ESE	ESE	ESE	ESE	E	ESE	E	E	ESE	E	E	E	E			104(ESE)
Dec 20	9.6	10.0	9.7	11.4	7.2	8.1	8.0	7.4	7.7	7.3	8.1	13.6	17.2	12.7	10.4	9.7	9.9	9.9	8.5	9.1	11.2	9.4	8.4	8.4	7.2	17.2	9.7
	E	ENE	ENE	E	E	SE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW			187(S)
Dec 21	6.7	7.4	10.8	7.1	8.3	8.0	10.3	9.5	7.5	7.1	9.2	10.0	9.4	5.3	4.0	4.8	6.2	2.5	3.1	3.3	6.2	5.2	4.5	1.9	1.9	10.8	6.6
	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SW	WSW	NNE	NE	NNE	ENE	NNW			202(SSW)
Dec 22	2.2	3.5	2.0	4.0	5.5	5.3	6.2	7.6	6.9	5.7	5.5	7.0	10.3	12.3	10.9	11.4	10.0	8.0	7.8	7.6	8.8	11.9	9.3	8.9	2.0	12.3	7.4
	SSE	S	S	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SE	SE	SSE	S			191(S)
Dec 23	10.2	9.7	10.0	10.7	9.8	10.3	11.2	7.9	8.0	10.9	19.8	24.6	20.9	26.7	25.4	18.4	17.4	19.4	19.2	17.6	15.1	16.2	15.5	13.2	7.9	26.7	15.3
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW			217(SW)
Dec 24	11.5	10.8	12.7	9.5	7.6	13.7	12.9	12.4	16.2	14.4	8.3	6.0	10.9	11.7	12.0	12.5	13.0	15.6	12.9	12.5	14.7	12.0	14.9	19.0	6.0	19.0	12.4
	SSW	SSW	SSW	S	SE	ESE	SE	SE	ESE	SE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW			186(S)
Dec 25	20.5	20.7	17.3	16.9	14.5	15.2	13.8	13.2	18.2	16.4	14.8	17.0	16.0	13.0	14.9	9.6	14.6	10.3	9.0	9.1	9.2	8.7	9.3	7.6	7.6	20.7	13.7
	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	SSE	SE	SE			209(SSW)
Dec 26	7.4	8.0	8.0	6.4	6.6	8.3	7.9	8.8	5.9	8.7	3.5	3.6	5.6	4.8	4.8	5.6	6.5	5.0	4.1	4.5	4.7	4.2	1.6	6.1	1.6	8.8	5.9
	S	S	S	S	SSE	ESE	SE	SSE	S	S	SSE	SSE	SSE	S	SE	E	SE	E	SSE	ENE	S	SW	W	SSW			162(SSE)
Dec 27	2.3	2.5	7.3	6.5	5.9	7.1	5.9	6.2	6.4	5.8	6.7	9.7	9.0	8.3	8.7	6.7	8.3	8.7	5.3	2.7	5.4	5.9	6.2	5.2	2.3	9.7	6.4
	SSE	S	SW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	W	SW	SW	WSW	W			222(SW)
Dec 28	4.5	3.0	3.6	3.8	4.9	5.4	5.2	3.2	4.6	7.4	5.9	5.1	7.0	6.2	7.1	6.8	5.8	6.3	7.3	5.4	6.1	5.0	5.8	4.5	3.0	7.4	5.4
	W	WNW	W	WNW	W	W	W	W	WSW	WSW	SW	WSW	WSW	W	W	WNW	W	SW	SW	SW	SW	SW	SW	WSW			254(WSW)
Dec 29	5.4	4.2	3.1	2.8	2.6	4.4	4.0	3.8	4.8	2.8	3.2	4.3	6.1	7.5	7.4	6.0	5.6	7.1	7.4	7.9	7.4	8.7	7.3	6.8	2.6	8.7	5.4
	WSW	WSW	W	W	W	W	WSW	WSW	WSW	W	WNW	WNW	NW	NW	NW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW			307(NW)
Dec 30	6.4	6.5	7.3	8.1	8.1	7.0	6.9	5.9	5.5	5.6	4.7	5.8	7.5	7.5	5.8	5.5	5.3	4.3	4.2	3.7	3.8	4.1	3.9	4.2	3.7	8.1	5.7
	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	WNW	NW	WNW	WNW	NW	NW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	NW			316(NW)
Dec 31	4.8	6.3	5.9	5.1	6.0	5.2	5.6	5.4	6.0	4.9	5.9	5.9	5.5	4.8	6.2	4.8	4.1	3.7	3.0	3.2	4.0	3.8	3.4	3.5	3.0	6.3	**4.9**
	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW			310(NW)

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

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

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

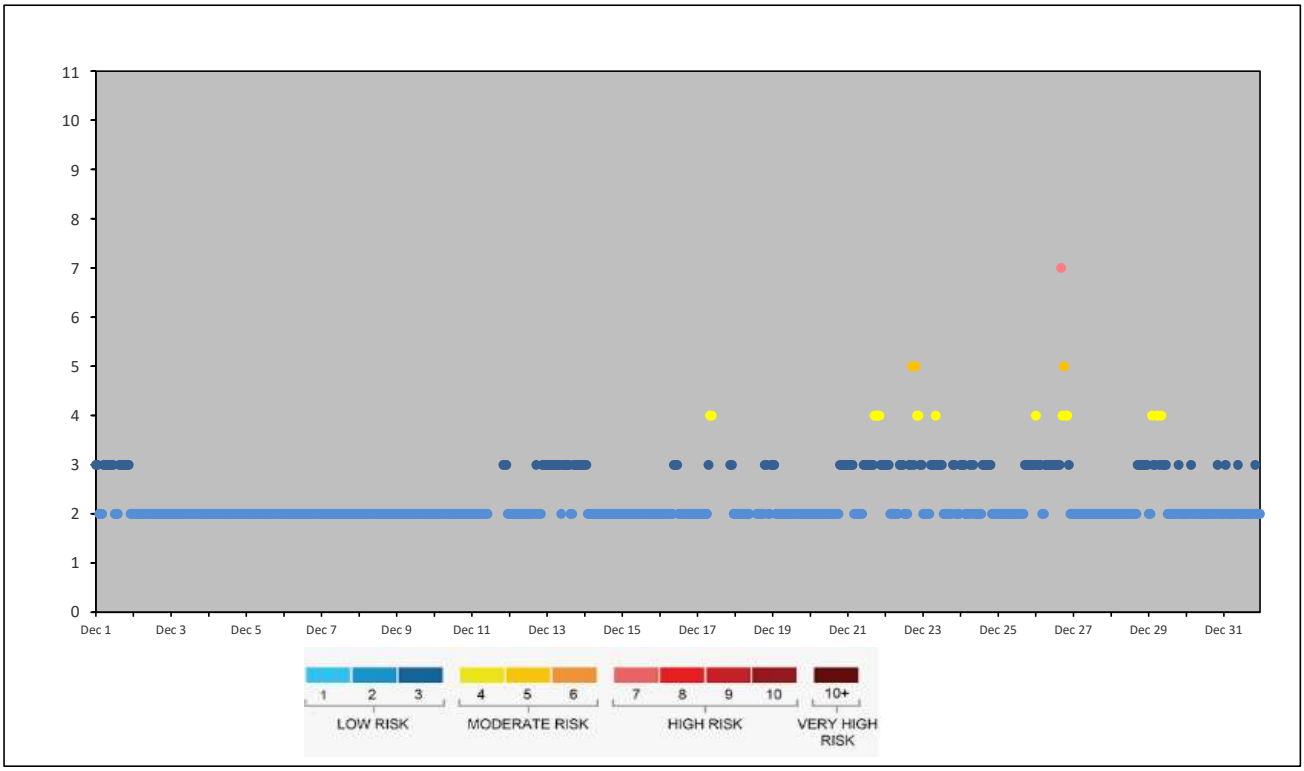
AQHI GRIMSHAW STATION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION

AQHI - Grimshaw Station - December 2024

AIR QUALITY HEALTH INDEX

Day	Hourly Period Starting at (MST)																						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Dec 1	3	3	2	2	2	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	3	3	2	2
Dec 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 11	2	2	2	2	2	2	2	2	2	2	2										3	3	3	2
Dec 12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	3	3
Dec 13	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2	2	3	3	3	3	3	3	3
Dec 14	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 15	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 16	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2
Dec 17	2	2	2	2	2	2	2	3	4	4												3	3	2
Dec 18	2	2	2	2	2	2	2	2	2	2					2	2	2	2	2	3	3	2	2	3
Dec 19	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
Dec 21	3	3	3	3	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	3	3	3
Dec 22	3	3	3	2	2	2	2	2	2	3	3	3	2	2	2	3	3	5	3	5	4	4	3	3
Dec 23	2	2	2	2	2	3	3	3	4	3	3	3	3	2	2	2	2	2	2	3	3	2	2	2
Dec 24	3	3	3	2	2	2	3	2	3	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2
Dec 25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
Dec 26	4	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	7	4	5	4	4	3	2	2
Dec 27	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec 28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
Dec 29	2	2	4	3	3	4	4	3	4	3	3	3	2	2	2	2	2	2	2	3	2	2	2	2
Dec 30	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2
Dec 31	2	3	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	3	2	2	2



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

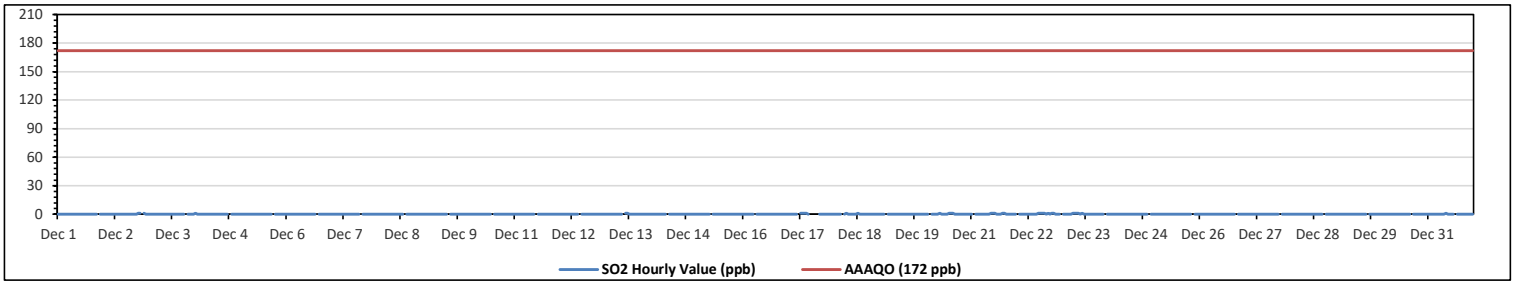
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

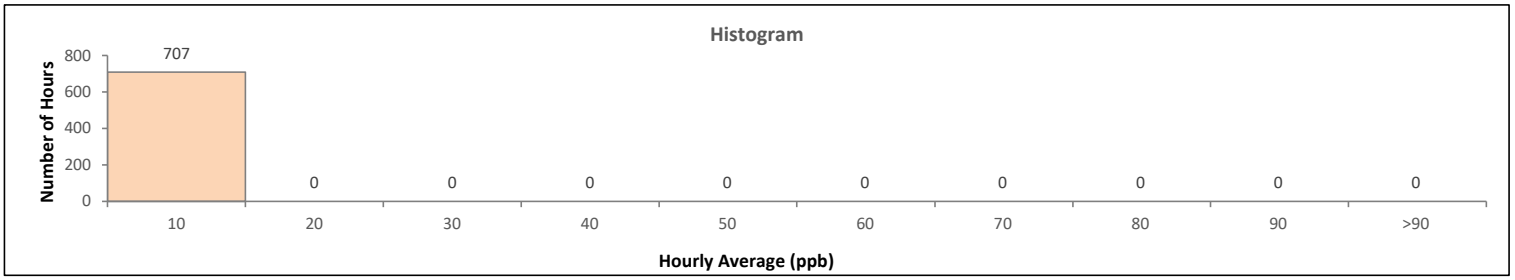
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Dec 2 at hr 18	Hours in Service:	744	
Maximum Daily Value:	0.3	ppb	on Dec 22	Hours of Data:	707	
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Dec 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			
Dec 1	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
Dec 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	S	1	0	0	0	1	0.1
Dec 3	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
Dec 4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0.0
Dec 5	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
Dec 6	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
Dec 7	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
Dec 8	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
Dec 9	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
Dec 10	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
Dec 11	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
Dec 12	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
Dec 13	0	0	0	0	0	0	0	0	0	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Dec 14	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
Dec 15	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
Dec 16	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
Dec 17	0	0	0	0	0	S	1	1	1	1	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	1	0.2
Dec 18	0	0	0	0	S	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Dec 19	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
Dec 20	0	0	S	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.2
Dec 21	0	S	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0.2
Dec 22	S	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	1	1	0	0	0	S	0	1	0.3
Dec 23	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.2
Dec 24	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
Dec 25	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
Dec 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Dec 27	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
Dec 28	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
Dec 29	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
Dec 30	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
Dec 31	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.0
Diurnal Maximum	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



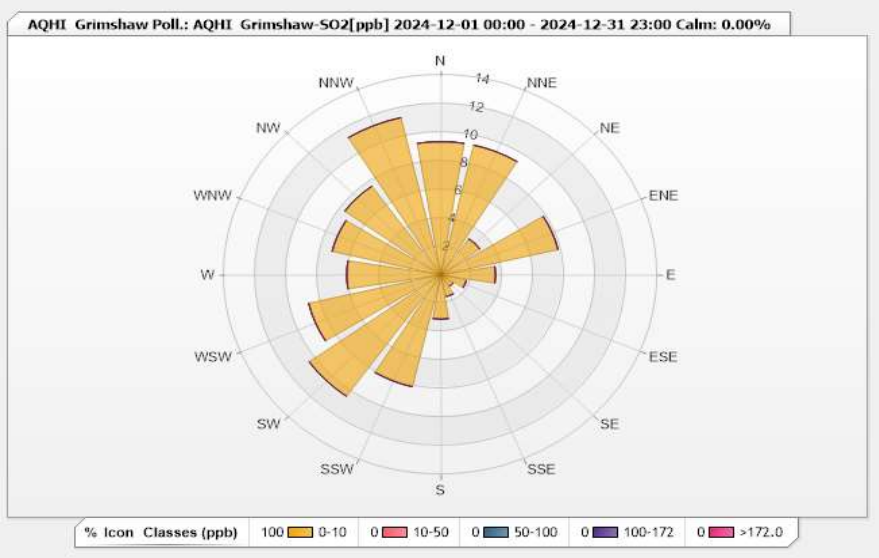


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	9.34	0	0	0	0	9.34
NNE	9.34	0	0	0	0	9.34
NE	3.11	0	0	0	0	3.11
ENE	7.78	0	0	0	0	7.78
E	3.54	0	0	0	0	3.54
ESE	1.7	0	0	0	0	1.7
SE	0.99	0	0	0	0	0.99
SSE	1.56	0	0	0	0	1.56
S	3.11	0	0	0	0	3.11
SSW	8.06	0	0	0	0	8.06
SW	10.47	0	0	0	0	10.47
WSW	8.77	0	0	0	0	8.77
W	6.08	0	0	0	0	6.08
WNW	7.21	0	0	0	0	7.21
NW	7.64	0	0	0	0	7.64
NNW	11.32	0	0	0	0	11.32
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

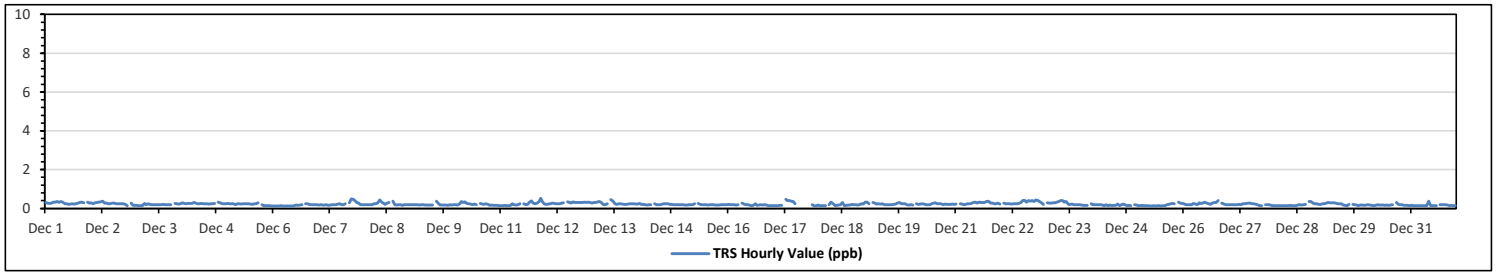
TOTAL REDUCED SULPHUR (TRS) in ppb

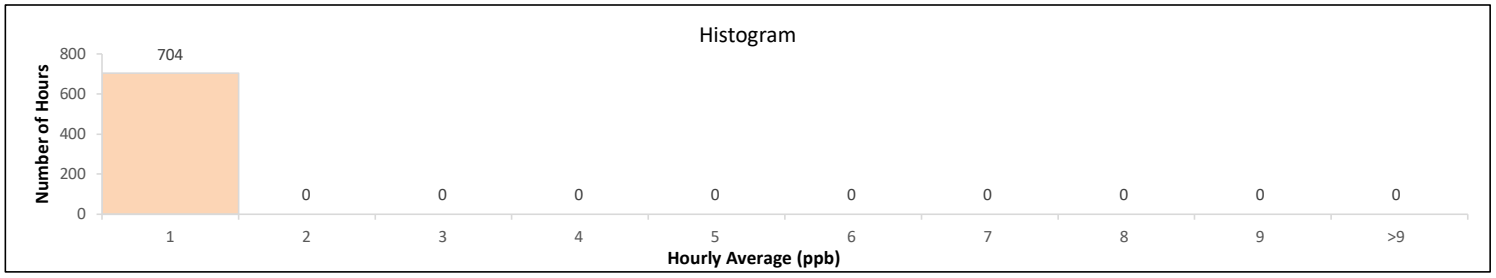
Maximum Hourly Value:	0.53	ppb	on Dec 11 at hr 21	Hours in Service:	744
Maximum Daily Value:	0.31	ppb	on Dec 22	Hours of Data:	704
Minimum Hourly Value:	0.12	ppb	on Dec 5 at hr 23	Hours of Missing Data:	2
Minimum Daily Value:	0.16	ppb	on Dec 6	Hours of Calibration:	38
Monthly Average:	0.22	ppb		Operational Uptime:	99.7

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	0.3	0.28	0.26	0.27	0.32	0.32	0.35	0.31	0.36	0.32	0.24	0.23	0.21	0.22	0.25	0.22	0.25	0.27	0.3	0.32	0.29	S	0.32	0.28	0.21	0.36	0.28
Dec 2	0.29	0.25	0.29	0.3	0.32	0.34	0.38	0.28	0.27	0.24	0.24	0.28	0.27	0.24	0.25	0.25	0.25	0.24	0.21	0.15	S	0.28	0.16	0.16	0.15	0.38	0.26
Dec 3	0.16	0.14	0.14	0.15	0.26	0.19	0.25	0.21	0.2	0.19	0.19	0.19	0.19	0.19	0.21	0.19	0.19	0.2	0.19	S	0.26	0.23	0.22	0.25	0.14	0.26	0.20
Dec 4	0.29	0.26	0.25	0.26	0.26	0.26	0.3	0.27	0.25	0.25	0.26	0.23	0.23	0.23	0.22	0.24	0.24	0.26	S	0.32	0.29	0.25	0.25	0.25	0.22	0.32	0.26
Dec 5	0.26	0.25	0.25	0.24	0.2	0.23	0.24	0.22	0.23	0.24	0.25	0.23	0.22	0.21	0.23	0.25	0.29	S	0.19	0.15	0.15	0.14	0.14	0.12	0.12	0.29	0.21
Dec 6	0.12	0.12	0.12	0.12	0.14	0.12	0.13	0.12	0.13	0.12	0.13	0.15	0.17	0.16	0.17	0.18	S	0.25	0.23	0.21	0.18	0.18	0.18	0.18	0.12	0.25	0.16
Dec 7	0.17	0.18	0.17	0.17	0.18	0.16	0.17	0.19	0.19	0.18	0.22	0.23	0.19	0.19	0.24	S	0.29	0.49	0.47	0.42	0.3	0.28	0.2	0.19	0.16	0.49	0.24
Dec 8	0.18	0.19	0.2	0.2	0.19	0.23	0.23	0.27	0.44	0.32	0.27	0.21	0.27	0.31	S	0.37	0.2	0.17	0.18	0.18	0.16	0.18	0.19	0.2	0.16	0.44	0.23
Dec 9	0.19	0.2	0.19	0.2	0.19	0.17	0.18	0.18	0.17	0.17	0.17	0.17	0.17	S	0.38	0.26	0.17	0.17	0.17	0.17	0.16	0.18	0.17	0.18	0.16	0.38	0.19
Dec 10	0.18	0.17	0.22	0.35	0.31	0.34	0.26	0.24	0.22	0.2	0.22	0.18	S	0.26	0.22	0.21	0.23	0.21	0.16	0.17	0.16	0.16	0.16	0.15	0.15	0.35	0.22
Dec 11	0.15	0.15	0.16	0.14	0.15	0.16	0.23	0.18	0.17	0.2	0.23	S	0.23	0.2	0.21	0.32	0.39	0.28	0.23	0.28	0.35	**0.53**	0.32	0.22	0.14	**0.53**	0.24
Dec 12	0.21	0.22	0.24	0.27	0.26	0.25	0.23	0.24	0.27	0.29	S	0.34	0.31	0.28	0.34	0.3	0.31	0.31	0.31	0.3	0.32	0.3	0.32	0.3	0.21	0.34	0.28
Dec 13	0.28	0.31	0.31	0.34	0.35	0.29	0.18	0.18	0.23	S	0.46	0.37	0.23	0.21	0.24	0.23	0.22	0.21	0.21	0.22	0.24	0.24	0.24	0.22	0.18	0.46	0.26
Dec 14	0.22	0.26	0.21	0.21	0.18	0.17	0.18	0.18	S	0.24	0.2	0.2	0.2	0.22	0.24	0.25	0.23	0.21	0.21	0.2	0.19	0.2	0.2	0.18	0.17	0.26	0.21
Dec 15	0.18	0.17	0.17	0.18	0.2	0.2	0.23	S	0.26	0.21	0.19	0.18	0.18	0.17	0.2	0.19	0.18	0.17	0.17	0.17	0.18	0.2	0.19	0.18	0.17	0.26	0.19
Dec 16	0.21	0.18	0.18	0.18	0.17	0.18	S	0.28	0.22	0.2	0.19	0.17	0.15	0.16	0.24	0.16	0.17	0.18	0.17	0.19	0.17	0.15	0.14	0.15	0.14	0.28	0.18
Dec 17	0.15	0.15	0.15	0.16	0.16	S	0.47	0.42	0.4	0.38	0.35	0.25	C	C	C	NRM	NRM	C	C	C	0.2	0.14	0.13	0.17	0.13	0.47	NA
Dec 18	0.14	0.15	0.15	0.15	S	0.19	0.33	0.23	0.14	0.16	0.17	0.19	0.3	0.15	0.16	0.17	0.17	0.21	0.18	0.18	0.17	0.2	0.23	0.22	0.14	0.33	0.19
Dec 19	0.32	0.33	0.24	S	0.3	0.28	0.22	0.23	0.22	0.23	0.2	0.19	0.19	0.18	0.2	0.21	0.22	0.28	0.3	0.24	0.23	0.23	0.19	0.17	0.17	0.33	0.23
Dec 20	0.19	0.17	S	0.23	0.21	0.22	0.24	0.22	0.2	0.2	0.18	0.25	0.27	0.29	0.25	0.25	0.23	0.2	0.22	0.21	0.21	0.21	0.22	0.21	0.17	0.29	0.22
Dec 21	0.22	S	0.25	0.22	0.2	0.21	0.23	0.23	0.26	0.3	0.32	0.28	0.33	0.31	0.3	0.3	0.36	0.37	0.28	0.27	0.24	0.25	0.27	0.22	0.20	0.37	0.27
Dec 22	S	0.28	0.24	0.25	0.25	0.22	0.23	0.23	0.25	0.26	0.3	0.4	0.43	0.32	0.4	0.37	0.42	0.36	0.44	0.4	0.34	0.27	0.21	S	0.21	0.44	**0.31**
Dec 23	0.29	0.27	0.28	0.29	0.29	0.33	0.36	0.41	0.42	0.33	0.36	0.21	0.21	0.22	0.19	0.18	0.18	0.18	0.17	0.16	0.16	0.16	S	0.23	0.16	0.42	0.26
Dec 24	0.19	0.18	0.18	0.18	0.19	0.17	0.15	0.18	0.15	0.17	0.15	0.16	0.16	0.22	0.15	0.18	0.22	0.19	0.15	0.16	0.15	S	0.19	0.17	0.15	0.22	0.17
Dec 25	0.15	0.15	0.16	0.15	0.14	0.14	0.12	0.13	0.14	0.13	0.14	0.14	0.13	0.14	0.15	0.18	0.21	0.25	0.26	0.25	S	0.33	0.28	0.26	0.12	0.33	0.18
Dec 26	0.23	0.2	0.18	0.19	0.19	0.26	0.22	0.18	0.29	0.26	0.27	0.32	0.28	0.25	0.21	0.28	0.3	0.31	0.41	S	0.28	0.22	0.19	0.19	0.18	0.41	0.25
Dec 27	0.19	0.18	0.18	0.18	0.2	0.21	0.2	0.23	0.24	0.26	0.28	0.28	0.25	0.23	0.21	0.17	0.15	0.15	S	0.2	0.19	0.2	0.16	0.15	0.15	0.28	0.20
Dec 28	0.15	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.16	0.14	0.15	0.14	0.17	0.2	0.17	0.19	0.21	S	0.36	0.36	0.27	0.23	0.23	0.21	0.14	0.36	0.19
Dec 29	0.21	0.24	0.24	0.28	0.31	0.29	0.29	0.29	0.28	0.25	0.25	0.24	0.17	0.16	0.15	0.21	S	0.21	0.18	0.17	0.15	0.17	0.17	0.16	0.15	0.31	0.22
Dec 30	0.17	0.18	0.17	0.16	0.15	0.16	0.18	0.17	0.17	0.17	0.16	0.17	0.16	0.17	0.18	S	0.3	0.21	0.2	0.2	0.16	0.16	0.16	0.15	0.15	0.30	0.18
Dec 31	0.16	0.14	0.15	0.15	0.15	0.14	0.14	0.15	0.15	0.38	0.14	0.15	0.15	0.14	S	0.2	0.18	0.19	0.19	0.17	0.15	0.16	0.15	0.14	0.14	0.38	0.17
Diurnal Maximum	0.32	0.33	0.31	0.35	0.35	0.34	0.47	0.42	0.44	0.38	0.46	0.40	0.43	0.32	0.40	0.37	0.42	0.49	0.47	0.42	0.35	0.53	0.32	0.30			
Diurnal Average	0.21	0.20	0.20	0.21	0.22	0.22	0.24	0.23	0.24	0.23	0.23	0.22	0.22	0.21	0.23	0.23	0.24	0.24	0.24	0.23	0.22	0.22	0.21	0.20			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of 30-Minute Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Guideline (AAAQG) for TRS: 30-minute 5 ppb

Number of 30-Minute Exceedances: 0

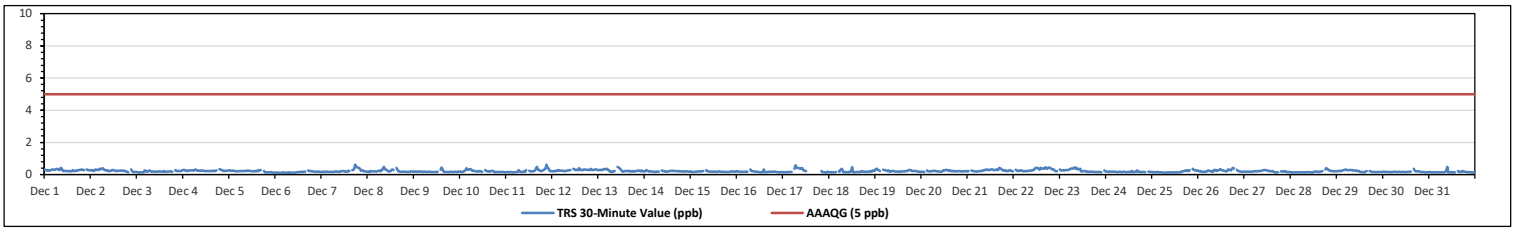
Maximum 30-Minute Value:	0.63 ppb	on Dec 11 at 21:00	# of Instrument in Service	1488
Maximum Daily Value:	0.31 ppb	on Dec 22	# of Valid Measurements	1409
Minimum 30-Minute Value:	0.11 ppb	Dec 6 at 01:30	# of Missing Measurements:	5
Minimum Daily Value:	0.16 ppb	on Dec 6	# of Calibration:	74
Monthly Average:	0.22 ppb		Operational Uptime:	99.7

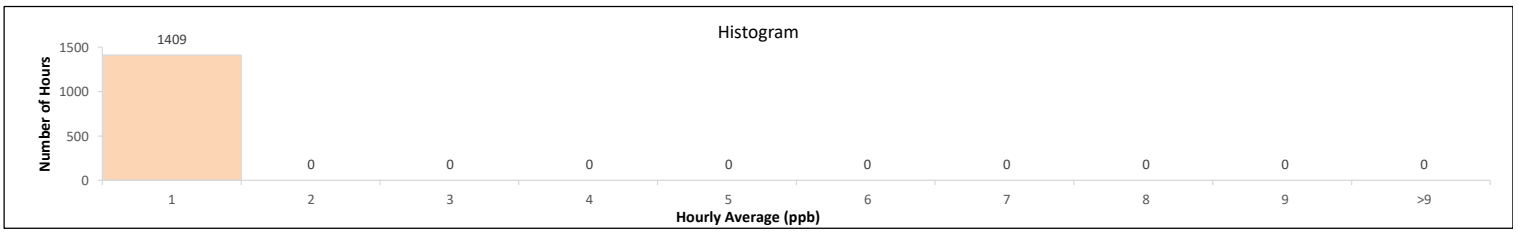
30-Minute Period Starting at (MST)	Dec 1	Dec 2	Dec 3	Dec 4	Dec 5	Dec 6	Dec 7	Dec 8	Dec 9	Dec 10	Dec 11	Dec 12	Dec 13	Dec 14	Dec 15	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21	Dec 22	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28	Dec 29	Dec 30	Dec 31	Diurnal Maximum	Diurnal Average
00:00	0.32	0.27	0.17	0.28	0.26	0.12	0.17	0.18	0.19	0.19	0.14	0.2	0.29	0.19	0.2	0.22	0.16	0.15	0.28	0.18	0.21	S	0.33	0.2	0.17	0.25	0.19	0.16	0.2	0.18	0.15	0.33	0.21
00:30	0.29	0.3	0.15	0.31	0.26	0.12	0.18	0.18	0.19	0.18	0.16	0.22	0.28	0.24	0.17	0.21	0.14	0.14	0.37	0.19	0.23	S	0.26	0.18	0.14	0.21	0.19	0.15	0.22	0.16	0.16	0.37	0.21
01:00	0.27	0.27	0.13	0.27	0.24	0.13	0.17	0.17	0.21	0.17	0.16	0.21	0.31	0.28	0.17	0.18	0.15	0.14	0.35	0.17	S	0.31	0.26	0.18	0.16	0.22	0.19	0.13	0.23	0.18	0.15	0.35	0.21
01:30	0.29	0.24	0.15	0.25	0.25	0.11	0.19	0.22	0.19	0.17	0.14	0.23	0.3	0.25	0.17	0.18	0.15	0.17	0.3	0.17	S	0.26	0.27	0.19	0.14	0.19	0.18	0.15	0.25	0.17	0.14	0.30	0.20
02:00	0.25	0.26	0.14	0.26	0.26	0.12	0.17	0.2	0.19	0.21	0.16	0.25	0.3	0.23	0.16	0.19	0.16	0.15	0.26	S	0.26	0.24	0.29	0.18	0.15	0.19	0.18	0.14	0.24	0.17	0.15	0.30	0.20
02:30	0.27	0.33	0.14	0.24	0.24	0.11	0.18	0.21	0.19	0.22	0.16	0.23	0.32	0.19	0.18	0.17	0.15	0.15	0.22	S	0.24	0.25	0.27	0.19	0.16	0.17	0.18	0.14	0.23	0.17	0.15	0.33	0.20
03:00	0.27	0.31	0.15	0.25	0.24	0.11	0.18	0.2	0.2	0.3	0.14	0.28	0.34	0.2	0.18	0.18	0.17	0.15	S	0.26	0.22	0.24	0.28	0.19	0.16	0.19	0.19	0.14	0.27	0.16	0.14	0.34	0.21
03:30	0.28	0.29	0.15	0.27	0.23	0.13	0.16	0.2	0.19	0.4	0.15	0.25	0.33	0.21	0.19	0.17	0.16	0.16	S	0.21	0.21	0.26	0.3	0.18	0.14	0.19	0.18	0.14	0.29	0.16	0.15	0.40	0.21
04:00	0.32	0.29	0.26	0.26	0.21	0.15	0.16	0.2	0.19	0.31	0.15	0.27	0.35	0.18	0.21	0.18	0.16	S	0.31	0.21	0.21	0.26	0.29	0.19	0.14	0.19	0.19	0.15	0.3	0.15	0.15	0.35	0.22
04:30	0.31	0.36	0.25	0.26	0.2	0.13	0.19	0.19	0.19	0.31	0.14	0.25	0.35	0.18	0.2	0.17	0.17	S	0.29	0.21	0.19	0.24	0.29	0.18	0.15	0.2	0.21	0.15	0.33	0.16	0.15	0.36	0.22
05:00	0.31	0.34	0.19	0.27	0.23	0.13	0.16	0.21	0.17	0.34	0.16	0.25	0.3	0.16	0.19	0.18	S	0.21	0.29	0.21	0.21	0.23	0.32	0.18	0.15	0.26	0.21	0.14	0.31	0.17	0.15	0.34	0.22
05:30	0.33	0.34	0.18	0.25	0.24	0.11	0.17	0.25	0.18	0.34	0.16	0.25	0.29	0.17	0.21	0.18	S	0.18	0.26	0.22	0.21	0.21	0.35	0.16	0.12	0.25	0.22	0.14	0.27	0.16	0.14	0.35	0.22
06:00	0.34	0.4	0.24	0.29	0.24	0.13	0.18	0.25	0.19	0.28	0.17	0.23	0.2	0.18	0.23	S	0.36	0.31	0.22	0.23	0.23	0.23	0.38	0.15	0.13	0.23	0.2	0.15	0.29	0.18	0.14	0.40	0.23
06:30	0.36	0.35	0.26	0.32	0.24	0.13	0.17	0.21	0.17	0.23	0.28	0.22	0.17	0.19	0.22	S	0.58	0.35	0.22	0.25	0.23	0.23	0.35	0.16	0.12	0.22	0.2	0.14	0.29	0.18	0.14	0.58	0.24
07:00	0.32	0.28	0.23	0.3	0.22	0.14	0.18	0.29	0.17	0.25	0.2	0.24	0.18	0.18	S	0.32	0.41	0.31	0.26	0.23	0.23	0.22	0.38	0.18	0.13	0.18	0.22	0.15	0.29	0.16	0.15	0.41	0.23
07:30	0.3	0.28	0.19	0.25	0.23	0.11	0.2	0.26	0.19	0.22	0.16	0.25	0.17	0.19	S	0.24	0.42	0.15	0.19	0.22	0.23	0.24	0.44	0.19	0.13	0.17	0.24	0.14	0.28	0.17	0.15	0.44	0.22
08:00	0.31	0.26	0.19	0.26	0.22	0.13	0.19	0.4	0.17	0.23	0.17	0.27	0.22	S	0.28	0.23	0.4	0.15	0.19	0.2	0.26	0.25	0.39	0.14	0.14	0.28	0.24	0.15	0.28	0.16	0.14	0.40	0.23
08:30	0.41	0.28	0.2	0.25	0.23	0.13	0.19	0.48	0.18	0.21	0.17	0.27	0.24	S	0.24	0.2	0.4	0.14	0.24	0.2	0.27	0.25	0.45	0.16	0.14	0.3	0.24	0.16	0.27	0.18	0.16	0.48	0.24
09:00	0.39	0.24	0.19	0.24	0.25	0.13	0.19	0.32	0.17	0.21	0.2	0.29	S	0.26	0.21	0.2	0.35	0.16	0.23	0.2	0.31	0.26	0.32	0.18	0.13	0.28	0.25	0.14	0.26	0.17	0.27	0.39	0.23
09:30	0.25	0.24	0.18	0.26	0.24	0.12	0.17	0.32	0.17	0.19	0.19	0.28	S	0.22	0.2	0.19	0.4	0.15	0.22	0.19	0.29	0.27	0.34	0.16	0.13	0.24	0.27	0.14	0.25	0.17	0.49	0.49	0.23
10:00	0.23	0.23	0.19	0.25	0.27	0.13	0.21	0.3	0.17	0.23	0.19	S	0.48	0.22	0.19	0.19	0.4	0.15	0.21	0.18	0.32	0.29	0.35	0.16	0.14	0.27	0.28	0.15	0.26	0.16	0.13	0.48	0.23
10:30	0.25	0.25	0.19	0.26	0.23	0.13	0.22	0.24	0.17	0.2	0.28	S	0.44	0.19	0.19	0.19	0.29	0.18	0.19	0.18	0.31	0.3	0.36	0.15	0.14	0.26	0.29	0.14	0.24	0.16	0.15	0.44	0.23
11:00	0.23	0.28	0.19	0.23	0.22	0.15	0.23	0.21	0.17	0.2	S	0.35	0.4	0.2	0.19	0.17	0.26	0.17	0.18	0.22	0.28	0.38	0.21	0.16	0.14	0.31	0.29	0.14	0.23	0.17	0.15	0.40	0.22
11:30	0.23	0.29	0.2	0.23	0.24	0.15	0.22	0.21	0.16	0.17	S	0.32	0.34	0.19	0.18	0.17	0.24	0.2	0.2	0.28	0.28	0.42	0.21	0.16	0.13	0.34	0.26	0.13	0.24	0.16	0.15	0.42	0.22
12:00	0.22	0.29	0.2	0.22	0.21	0.17	0.19	0.24	0.17	S	0.25	0.3	0.27	0.19	0.18	0.15	0.23	0.46	0.18	0.27	0.33	0.43	0.2	0.16	0.14	0.29	0.26	0.16	0.18	0.15	0.16	0.46	0.23
12:30	0.21	0.25	0.18	0.23	0.23	0.16	0.2	0.31	0.18	S	0.21	0.31	0.19	0.21	0.18	0.15	C	0.15	0.2	0.28	0.33	0.42	0.22	0.16	0.13	0.26	0.24	0.19	0.15	0.16	0.13	0.42	0.21
13:00	0.23	0.24	0.19	0.23	0.21	0.16	0.19	0.33	S	0.29	0.21	0.28	0.19	0.22	0.18	0.15	C	0.15	0.19	0.31	0.32	0.34	0.23	0.2	0.14	0.26	0.23	0.2	0.16	0.18	0.14	0.34	0.22
13:30	0.21	0.25	0.19	0.22	0.2	0.16	0.19	0.29	S	0.24	0.2	0.29	0.22	0.23	0.17	0.17	C	0.15	0.18	0.26	0.29	0.31	0.21	0.24	0.15	0.23	0.23	0.19	0.16	0.16	0.15	0.31	0.21
14:00	0.21	0.24	0.22	0.23	0.25	0.18	0.25	S	0.31	0.24	0.2	0.4	0.24	0.25	0.19	0.32	C	0.17	0.2	0.26	0.3	0.42	0.2	0.15	0.15	0.22	0.21	0.19	0.15	0.18	S	0.42	0.23
14:30	0.28	0.25	0.19	0.22	0.21	0.16	0.23	S	0.45	0.2	0.22	0.28	0.23	0.24	0.21	0.16	NRM	0.16	0.21	0.24	0.3	0.38	0.17	0.16	0.14	0.2	0.22	0.16	0.15	0.18	S	0.45	0.22
15:00	0.23	0.25	0.18	0.23	0.27	0.18	S	0.41	0.34	0.22	0.27	0.31	0.24	0.25	0.2	0.15	NRM	0.17	0.21	0.27	0.32	0.39	0.18	0.17	0.16	0.24	0.18	0.19	0.18	S	0.22	0.41	0.24
15:30	0.22	0.25	0.19	0.25	0.23	0.18	S	0.33	0.19	0.19	0.36	0.29	0.22	0.24	0.19	0.16	NRM	0.17	0.2	0.24	0.29	0.35	0.17	0.19	0.2	0.32	0.15	0.18	0.24	S	0.19	0.36	0.23
16:00	0.24	0.26	0.18	0.24	0.28	S	0.28	0.21	0.17	0.21	0.48	0.29	0.25	0.23	0.17	0.17	NRM	0.16	0.22	0.21	0.31	0.39	0.18	0.27	0.2	0.31	0.14	0.2	S	0.35	0.17	0.48	0.24
16:30	0.26	0.25	0.19	0.24	0.3	S	0.29	0.2	0.17	0.25	0.31	0.33	0.18	0.22	0.18	0.17	NRM	0.17	0.22	0.25	0.42	0.46	0.18	0.16	0.22	0.28	0.15	0.23	S	0.26	0.18	0.46	0.24
17:00	0.25	0.24	0.21	0.26	S	0.27	0.36	0.18	0.17	0.22	0.31	0.32	0.2	0.2	0.18	0.18	C	0.22	0.27	0.21	0.39	0.38	0.18	0.19	0.25	0.26	0.14	S	0.22	0.21	0.17	0.39	0.24
17:30	0.29	0.25	0.2	0.26	S	0.23	0.62	0.17	0.17	0.2	0.25	0.31	0.21	0.21	0.16	0.18	C	0.2	0.28	0.2	0.35	0.35	0.17	0.18	0.26	0.36	0.15	S	0.2	0.21	0.22	0.62	0.24
18:00	0.29	0.24	0.18	S	0.24	0.22	0.49	0.18	0.17	0.15	0.22	0.31	0.22	0.22	0.17	0.17	C	0.18	0.3	0.22	0.29	0.45	0.17	0.15	0.24	0.43	S	0.32	0.18	0.2	0.2	0.49	0.24
18:30	0.31	0.18	0.19	S	0.14	0.24	0.46	0.18	0.17	0.16	0.24	0.31	0.19	0.21	0.17	0.18	C	0.18	0.29	0.21	0.27	0.43	0.16	0.16	0.27	0.39	S	0.4	0.17	0.21	0.18	0.46	0.24
19:00	0.31	0.16	S	0.34	0.15	0.21	0.43	0.18	0.17	0.16	0.26	0.3	0.21	0.2	0.17	0.18	C	0.17	0.24	0.2	0.25	0.43	0.16	0.16	0.24	S	0.21	0.39	0.17	0.21	0.17	0.43	0.23
19:30	0.32	0.14	S	0.31	0.15	0.2	0.41	0.19	0.18	0.17	0.3	0.3	0.23	0.2	0.17	0.19	C	0.18	0.23	0.22	0.29	0.38	0.16	0.17	0.26	S	0.2	0.32	0.17	0.18	0.17	0.41	0.23
20:00	0.3	S	0.28	0.31	0.15	0.19	0.35	0.16	0.16	0.16	0.34	0.35	0.24	0.19	0.17	0.19	0.23	0.18	0.23	0.22	0.25	0.33	0.16	0.14	S	0.31	0.18	0.27	0.16	0.15	0.15	0.35	0.22
20:30	0.28	S	0.24	0.27	0.15	0.18	0.25	0.16	0.16	0.16	0.36	0.3	0.25	0.2	0.18	0.16	0.16	0.16	0.23	0.21	0.23	0.34	0.16	0.16	S	0.25	0.2	0.26	0.15	0.17	0.15	0.36	0.21
21:00	S	0.33	0.23	0.24	0.14	0.18	0.29	0.18	0.17	0.16	0.63	0.3	0.26	0.18	0.2	0.16	0.14	0.2	0.24	0.2	0.22	0.3	0.16	S	0.35	0.23	0.22	0.23	0.16	0.16	0.16	0.63	0.23
21:30	S	0.24	0.24	0.25	0.15	0.18	0.26	0.17	0.19	0.16	0.43	0.31	0.22	0.21	0.2	0.14	0.15	0.21	0.22	0.21	0.27	0.25	0.15	S	0.31	0.21	0.18	0.23	0.17	0.15	0.15	0.43	0.21
22:00	0.33	0.16	0.22	0.24	0.16	0.18	0.2	0.17	0.16	0.17	0.4	0.31	0.21	0.2	0.18	0.14	0.14	0.19	0.19	0.21	0.29	0.21	S	0.19	0.3	0.19	0.16	0.21	0.17	0.17	0.15	0.40	0.21
22:30	0.3	0.16	0.22	0.25	0.13	0.18	0.2	0.2	0.17	0.16	0.25	0.33	0.26	0.19	0.2	0.14	0.12	0.26	0.18	0.22	0.25	0.22	S	0.19	0.26	0.19	0.16	0.24	0.16	0.15	0.14	0.33	0.20
23:00	0.29	0.16	0.23	0.25	0.13	0.19	0.2	0.21	0.18	0.15	0.22	0.32	0.24	0.18	0.18	0.16	0.16	0.22	0.18	0.21	0.23	S	0.26	0.17	0.25	0.18	0.16	0.21	0.16	0.14	0.13	0.32	0.20
23:30	0.27	0.16	0.27	0.26	0.12	0.17	0.18	0.19	0.18	0.14	0.23	0.29	0.2	0.19	0.19	0.15	0.18	0.22	0.17	0.22	0.21	S	0.2	0.17	0.26	0.19	0.14	0.2	0.16	0.16	0.15	0.29	0.19
Minimum	0.21	0.14	0.13	0.22	0.12	0.11	0.16	0.16	0.16	0.14	0.14	0.2	0.17	0.16	0.16	0.14	0.12	0.14	0.17	0.17	0.19	0.21	0.15	0.14	0.12	0.17	0.14	0.13	0.15	0.14	0.13		
Maximum	0.41	0.4	0.28	0.34	0.3	0.27	0.62	0.48	0.45	0.4	0.63	0.4	0.48	0.28	0.28	0.32	0.58	0.46	0.37	0.31	0.42	0.46	0.45	0.27	0.35	0.43	0.29	0.4	0.33	0.35	0.49		
Average	0.28	0.26	0.2	0.26	0.22	0.16	0.24	0.23	0.19	0.22	0.24	0.28	0.26	0.21	0.19	0.18	0.24	0.19	0.23	0.22	0.27	0.31	0.25	0.17	0.18	0.25	0.2	0.19	0.22	0.18	0.17		

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



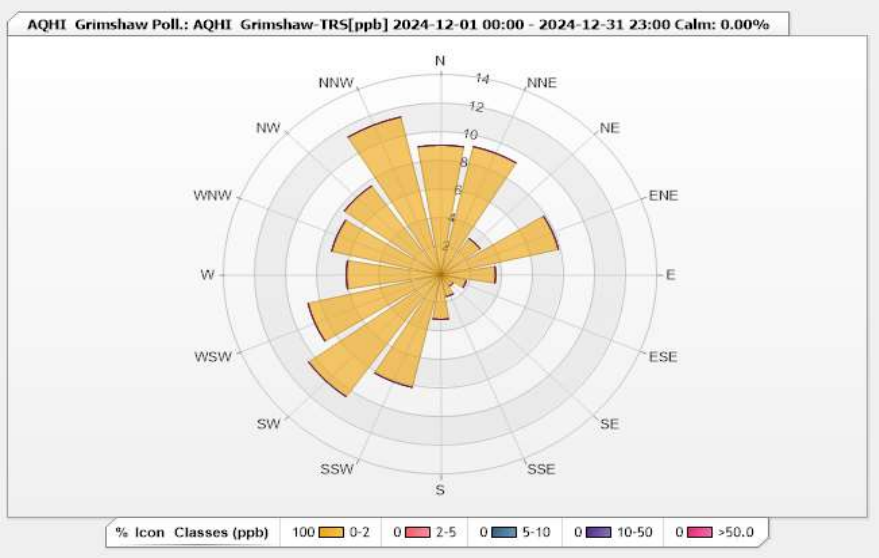


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 94.62% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	9.09	0	0	0	0	9.09
NNE	9.23	0	0	0	0	9.23
NE	3.13	0	0	0	0	3.13
ENE	7.81	0	0	0	0	7.81
E	3.55	0	0	0	0	3.55
ESE	1.7	0	0	0	0	1.7
SE	0.99	0	0	0	0	0.99
SSE	1.56	0	0	0	0	1.56
S	3.13	0	0	0	0	3.13
SSW	8.1	0	0	0	0	8.1
SW	10.51	0	0	0	0	10.51
WSW	8.81	0	0	0	0	8.81
W	6.11	0	0	0	0	6.11
WNW	7.24	0	0	0	0	7.24
NW	7.67	0	0	0	0	7.67
NNW	11.36	0	0	0	0	11.36
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

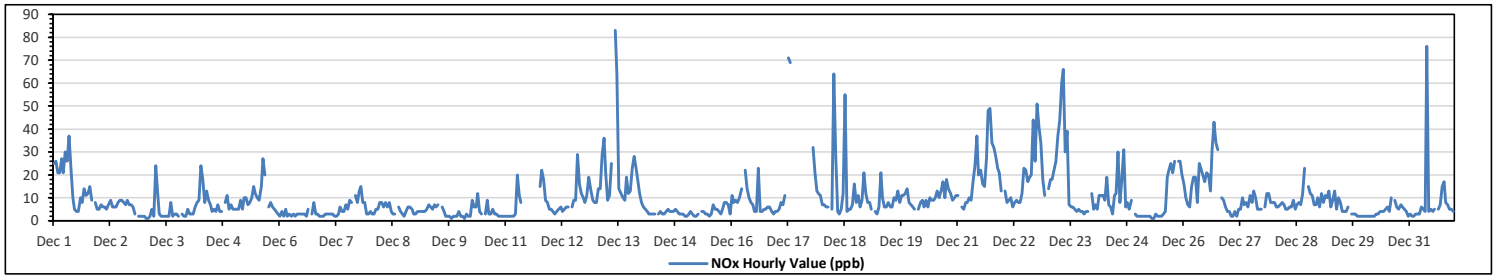
OXIDES OF NITROGEN (NOx) in ppb

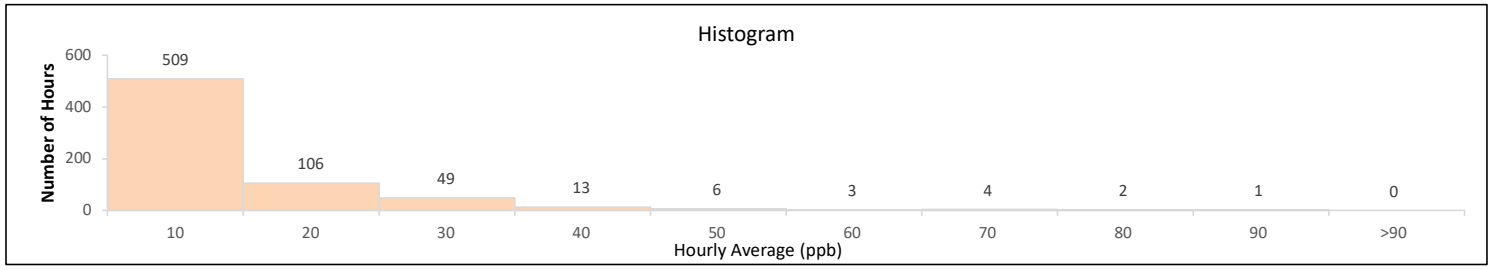
Maximum Hourly Value:	83	ppb	on Dec 13 at hr 10	Hours in Service:	744	
Maximum Daily Value:	22.0	ppb	on Dec 13	Hours of Data:	693	
Minimum Hourly Value:	1	ppb	on Dec 3 at hr 1	Hours of Missing Data:	8	
Minimum Daily Value:	3.0	ppb	on Dec 6	Hours of Calibration:	43	
Monthly Average:	9.7	ppb		Operational Uptime:	98.9	

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			
Dec 1	25	26	21	21	27	21	30	26	37	23	10	5	4	4	10	8	14	11	12	15	9	S	8	5	4	37	16.2
Dec 2	5	7	6	6	5	7	9	6	6	6	8	9	9	8	7	9	7	7	6	3	S	2	2	2	2	9	6.2
Dec 3	2	1	1	2	5	2	24	12	3	2	2	2	2	2	8	2	3	3	2	S	3	2	2	5	1	24	4.0
Dec 4	3	3	3	6	8	9	24	18	8	13	9	7	4	5	4	7	4	4	S	8	11	5	7	5	3	24	7.6
Dec 5	5	5	5	9	5	10	10	7	8	10	15	12	10	9	15	27	20	S	6	8	6	5	4	3	3	27	9.3
Dec 6	2	4	2	5	2	3	2	3	2	3	3	3	3	3	2	5	S	3	8	3	3	2	2	2	2	8	**3.0**
Dec 7	3	3	3	3	3	2	2	3	6	4	4	7	5	9	8	S	11	8	13	15	8	8	3	3	2	15	5.8
Dec 8	4	3	3	5	5	8	8	6	8	6	8	4	3	3	S	6	4	3	2	4	6	6	5	3	2	8	4.9
Dec 9	3	4	4	4	4	4	5	7	6	5	7	6	7	S	6	4	2	2	2	1	2	2	2	4	1	7	4.0
Dec 10	2	2	1	3	2	2	9	6	6	12	4	3	S	3	9	3	3	5	3	3	2	2	2	2	1	12	3.9
Dec 11	2	2	2	2	2	3	20	11	8	X	X	X	X	X	X	X	X	S	15	22	18	9	8	5	2	22	NA
Dec 12	5	4	3	4	5	6	4	5	6	6	S	6	9	9	29	16	12	10	8	11	19	13	9	8	3	29	9.0
Dec 13	8	14	14	29	36	21	9	11	25	S	**83**	64	14	12	10	9	19	12	13	23	28	23	18	12	8	**83**	**22.0**
Dec 14	8	6	5	4	3	3	3	3	S	3	4	3	3	4	5	4	4	4	5	4	3	3	3	2	2	8	3.9
Dec 15	2	3	4	3	2	2	3	S	4	4	3	3	2	3	7	5	5	4	3	5	8	8	7	3	2	8	4.0
Dec 16	11	8	9	8	10	14	S	22	14	10	8	7	4	4	23	4	4	5	5	6	6	4	3	4	3	23	8.4
Dec 17	4	5	8	7	11	S	71	69	C	C	C	C	C	C	C	C	C	C	C	32	21	13	12	11	4	71	NA
Dec 18	7	7	6	6	S	5	64	28	4	3	5	12	55	4	5	5	7	16	8	11	6	9	21	12	3	64	13.3
Dec 19	8	8	5	S	4	3	6	21	10	6	6	8	6	6	10	9	13	8	11	11	12	14	8	7	3	21	8.7
Dec 20	6	5	S	5	8	9	6	9	6	10	9	9	10	13	10	13	17	10	18	14	12	9	10	11	5	18	10.0
Dec 21	11	S	6	5	8	8	10	9	17	24	37	20	22	16	15	27	48	49	34	32	28	23	21	13	5	49	21.0
Dec 22	S	13	8	9	10	6	8	9	8	8	12	23	22	17	19	20	44	26	51	41	34	18	11	S	6	51	19.0
Dec 23	14	18	18	22	26	37	44	60	66	30	39	7	6	6	5	4	5	4	4	3	4	4	S	12	3	66	19.0
Dec 24	5	7	5	11	11	11	9	19	7	6	3	11	12	30	8	18	31	6	8	5	9	S	3	2	2	31	10.3
Dec 25	2	2	2	2	2	2	2	1	1	3	2	2	2	3	4	19	22	25	21	26	S	26	26	20	1	26	9.4
Dec 26	16	10	7	6	15	19	19	8	25	23	20	17	21	20	13	31	43	34	31	S	10	9	6	4	4	43	17.7
Dec 27	4	2	2	4	2	5	5	10	7	8	6	11	8	13	10	5	5	5	S	6	12	12	8	8	2	13	6.9
Dec 28	8	6	6	7	8	7	5	5	6	6	9	5	7	8	7	12	23	S	15	12	11	7	7	10	5	23	8.6
Dec 29	6	12	8	11	10	13	6	9	13	5	10	8	4	4	4	6	S	3	3	3	2	2	2	2	2	13	6.3
Dec 30	2	2	2	2	2	2	3	3	4	4	4	5	6	4	10	S	9	6	5	7	6	5	4	2	2	10	4.3
Dec 31	3	2	2	3	3	3	6	5	4	76	4	5	4	5	S	5	7	15	17	8	7	5	5	4	2	76	8.6
Diurnal Maximum	25	26	21	29	36	37	71	69	66	76	83	64	55	30	29	31	48	49	51	41	34	26	26	20			
Diurnal Average	6.2	6.5	5.7	7.1	8.1	8.2	14.2	13.7	11.2	11.4	11.9	9.8	9.4	8.1	9.7	10.5	14.3	10.7	11.8	11.8	10.6	8.6	7.6	6.2			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	ND	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.



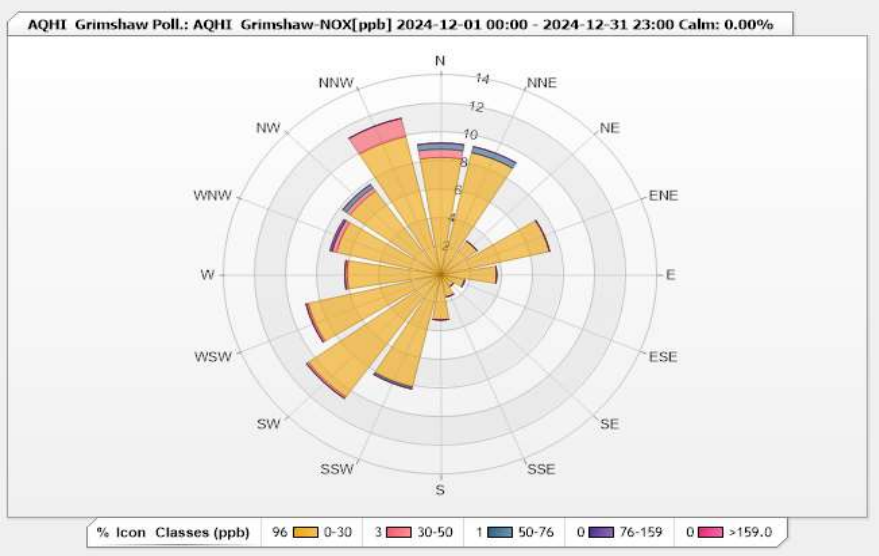


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 93.15% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	8.23	0.58	0.43	0	0	9.24
NNE	8.8	0	0.43	0	0	9.23
NE	2.89	0	0	0	0	2.89
ENE	7.22	0	0	0	0	7.22
E	3.61	0	0	0	0	3.61
ESE	1.59	0	0	0	0	1.59
SE	1.01	0	0	0	0	1.01
SSE	1.59	0	0	0	0	1.59
S	3.17	0	0	0	0	3.17
SSW	8.08	0	0.14	0	0	8.22
SW	10.53	0.14	0	0	0	10.67
WSW	8.8	0.14	0	0	0	8.94
W	6.06	0.14	0	0	0	6.2
WNW	6.93	0.29	0	0.14	0	7.36
NW	7.22	0.29	0.29	0	0	7.8
NNW	9.96	1.3	0	0	0	11.26
Summary	95.69	2.88	1.29	0.14	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

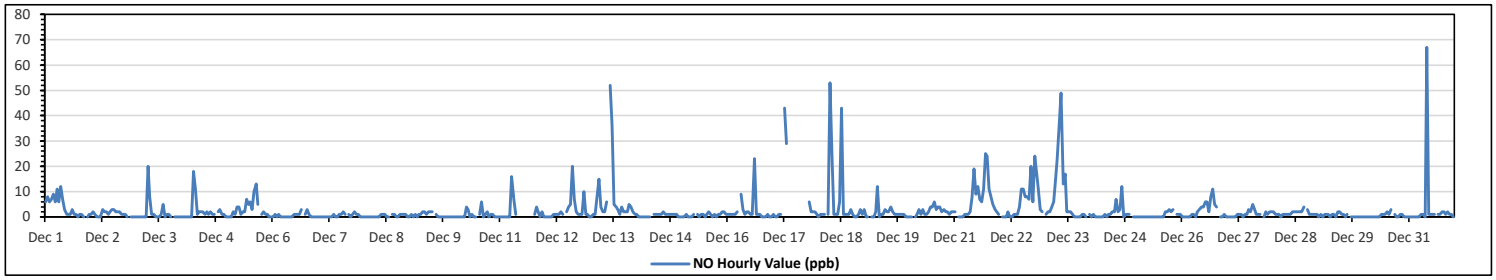
NITRIC OXIDE (NO) in ppb

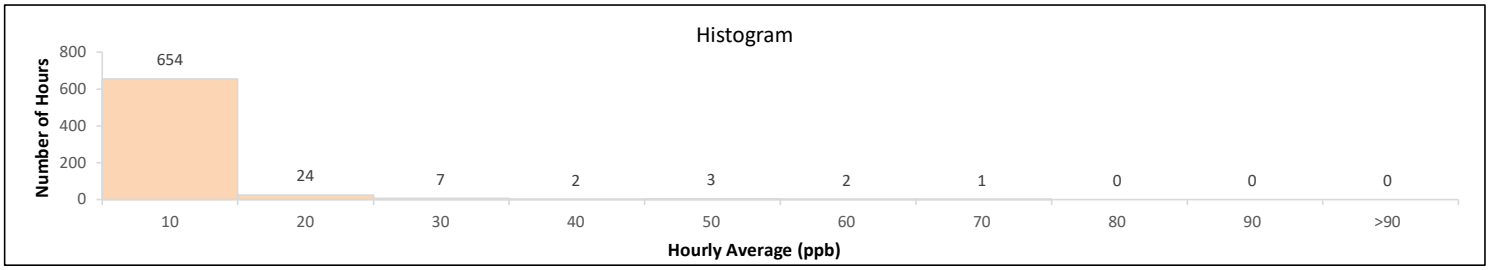
Maximum Hourly Value:	67	ppb	on Dec 31 at hr 9	Hours in Service:	744
Maximum Daily Value:	7.7	ppb	on Dec 23	Hours of Data:	693
Minimum Hourly Value:	0	ppb	on Dec 1 at hr 17	Hours of Missing Data:	8
Minimum Daily Value:	0.4	ppb	on Dec 8	Hours of Calibration:	43
Monthly Average:	2.6	ppb		Operational Uptime:	98.9

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			
Dec 1	6	8	6	7	9	6	11	6	12	7	3	1	1	1	3	1	1	0	1	1	0	S	0	1	0	12	4.0
Dec 2	1	2	1	0	0	0	3	2	2	1	2	3	3	2	2	2	1	1	1	0	S	0	0	0	0	3	1.3
Dec 3	0	0	0	0	0	0	20	8	1	1	0	0	0	1	5	0	1	1	0	S	0	0	0	0	0	20	1.7
Dec 4	0	0	0	0	0	0	18	11	1	2	2	2	1	2	1	2	1	1	S	2	3	1	1	0	0	18	2.2
Dec 5	0	0	0	2	1	4	4	1	2	2	7	5	6	3	10	13	5	S	1	2	1	1	0	0	0	13	3.0
Dec 6	0	1	0	1	0	0	0	0	0	0	0	1	1	1	1	3	S	1	3	1	0	0	0	0	0	3	0.6
Dec 7	0	0	0	0	0	0	0	0	1	0	0	1	1	2	1	S	1	0	1	2	1	1	0	0	0	2	0.5
Dec 8	0	0	0	0	0	0	0	0	0	1	1	1	0	0	S	1	1	0	0	1	1	1	1	0	0	1	0.4
Dec 9	0	1	0	1	0	1	1	2	2	1	2	2	2	S	1	0	0	0	0	0	0	0	0	0	0	2	0.7
Dec 10	0	0	0	0	0	0	4	3	0	1	0	0	S	1	6	0	1	2	0	1	1	0	0	0	0	6	0.9
Dec 11	0	0	0	0	0	0	16	7	1	X	X	X	X	X	X	X	X	S	1	4	2	0	2	0	0	16	NA
Dec 12	0	0	0	0	1	1	1	1	2	1	S	2	4	5	20	7	2	1	1	1	10	1	1	0	0	20	2.7
Dec 13	0	1	1	8	15	4	2	2	6	S	52	36	5	4	3	1	4	2	2	2	5	4	2	1	0	52	7.0
Dec 14	1	0	0	0	0	0	0	0	S	1	1	1	1	1	2	1	1	1	1	1	1	1	0	0	0	2	0.7
Dec 15	0	0	1	0	0	0	1	S	1	0	1	1	0	1	2	1	0	1	0	1	1	2	2	1	0	2	0.7
Dec 16	1	1	1	1	1	2	S	9	3	1	2	2	1	1	23	1	1	1	0	0	0	1	0	0	0	23	2.3
Dec 17	1	0	0	1	1	S	43	29	C	C	C	C	C	C	C	C	C	C	C	6	2	2	2	1	0	43	NA
Dec 18	0	1	1	1	S	1	53	25	1	1	1	6	43	1	1	1	1	3	1	0	0	1	3	1	0	53	6.4
Dec 19	3	0	0	S	0	0	2	12	0	1	1	3	2	2	4	2	1	1	1	1	1	1	0	0	0	12	1.7
Dec 20	0	0	S	0	1	3	1	3	1	1	2	4	4	6	3	4	4	2	3	2	2	1	2	2	0	6	2.2
Dec 21	2	S	0	0	0	1	1	1	2	8	19	9	12	7	6	11	25	24	11	8	5	3	2	1	0	25	6.9
Dec 22	S	0	0	0	2	0	0	1	1	1	4	11	11	8	8	7	20	6	24	17	11	3	2	S	0	24	6.2
Dec 23	1	2	2	4	6	15	23	36	49	13	17	2	2	2	1	0	0	0	0	1	1	0	S	1	0	49	7.7
Dec 24	0	1	0	0	0	0	0	1	0	1	1	2	2	7	2	3	12	0	1	1	1	S	0	0	0	12	1.5
Dec 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	2	3	S	1	1	1	0	3	0.7
Dec 26	0	0	0	0	0	1	1	0	2	3	4	4	6	6	2	8	11	5	4	S	0	0	1	0	0	11	2.5
Dec 27	0	0	0	0	0	1	1	1	0	1	1	3	2	5	3	1	1	1	S	0	2	1	2	2	0	5	1.2
Dec 28	2	1	1	1	0	1	1	1	1	1	2	2	2	2	2	2	4	S	3	1	1	1	1	1	0	4	1.5
Dec 29	0	1	0	1	1	1	0	1	1	0	2	2	1	1	0	1	S	0	0	0	0	0	0	0	0	2	0.6
Dec 30	0	0	0	0	0	0	0	0	0	1	1	1	2	1	3	S	1	0	0	1	1	0	0	0	0	3	0.5
Dec 31	0	0	0	0	0	0	1	1	0	67	1	1	1	1	S	1	1	2	2	1	2	1	1	0	0	67	3.7
Diurnal Maximum	6	8	6	8	15	15	53	36	49	67	52	36	43	8	23	13	25	24	24	17	11	4	3	2			
Diurnal Average	0.6	0.7	0.5	0.9	1.3	1.4	6.9	5.5	3.2	4.2	4.6	3.7	4.1	2.6	4.3	2.8	3.8	2.2	2.3	2.1	1.9	1.0	0.9	0.4			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



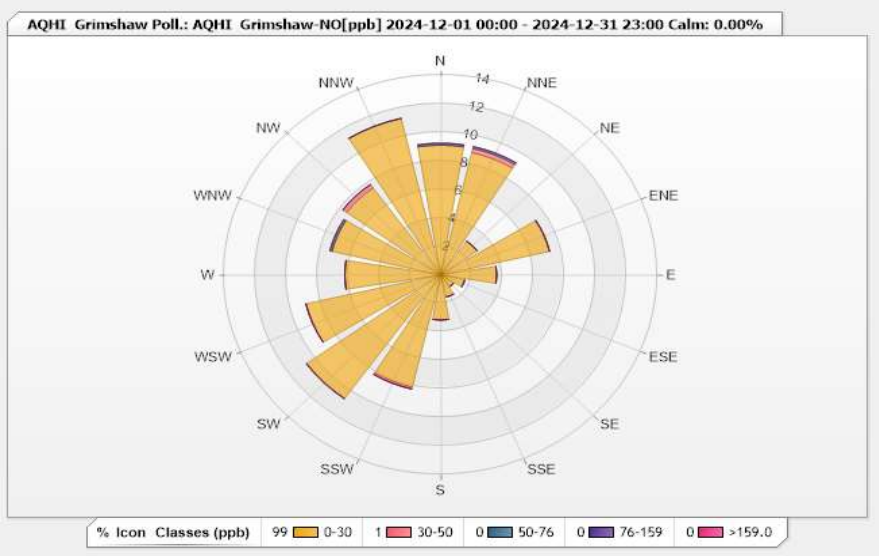


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 93.15% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	9.09	0	0.14	0	0	9.23
NNE	8.8	0.29	0.14	0	0	9.23
NE	2.89	0	0	0	0	2.89
ENE	7.22	0	0	0	0	7.22
E	3.61	0	0	0	0	3.61
ESE	1.59	0	0	0	0	1.59
SE	1.01	0	0	0	0	1.01
SSE	1.59	0	0	0	0	1.59
S	3.17	0	0	0	0	3.17
SSW	8.08	0.14	0	0	0	8.22
SW	10.68	0	0	0	0	10.68
WSW	8.95	0	0	0	0	8.95
W	6.2	0	0	0	0	6.2
WNW	7.22	0	0.14	0	0	7.36
NW	7.5	0.29	0	0	0	7.79
NNW	11.26	0	0	0	0	11.26
Summary	98.86	0.72	0.42	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

NITROGEN DIOXIDE (NO_2) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 159 ppb

Number of 1-Hour Exceedances: 0

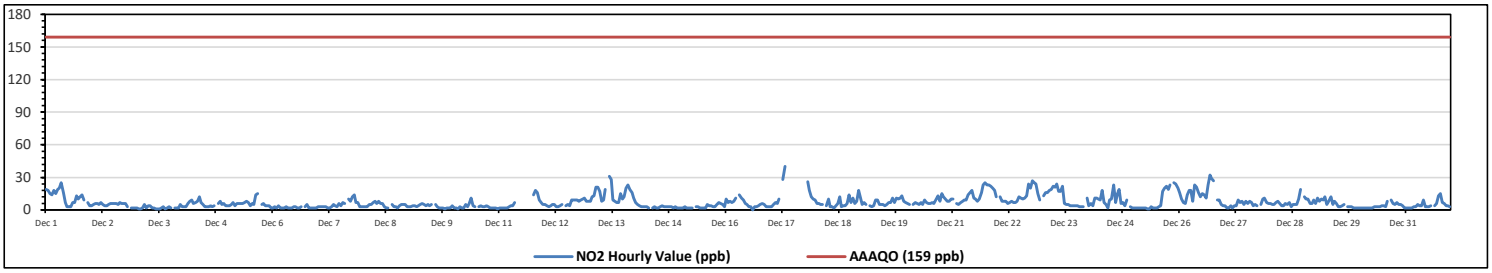
Maximum Hourly Value:	40	ppb	on Dec 17 at hr 7	Hours in Service:	744
Maximum Daily Value:	15.1	ppb	on Dec 26	Hours of Data:	693
Minimum Hourly Value:	0	ppb	on Dec 16 at hr 14	Hours of Missing Data:	8
Minimum Daily Value:	2.3	ppb	on Dec 3	Hours of Calibration:	43
Monthly Average:	7.1	ppb		Operational Uptime:	98.9

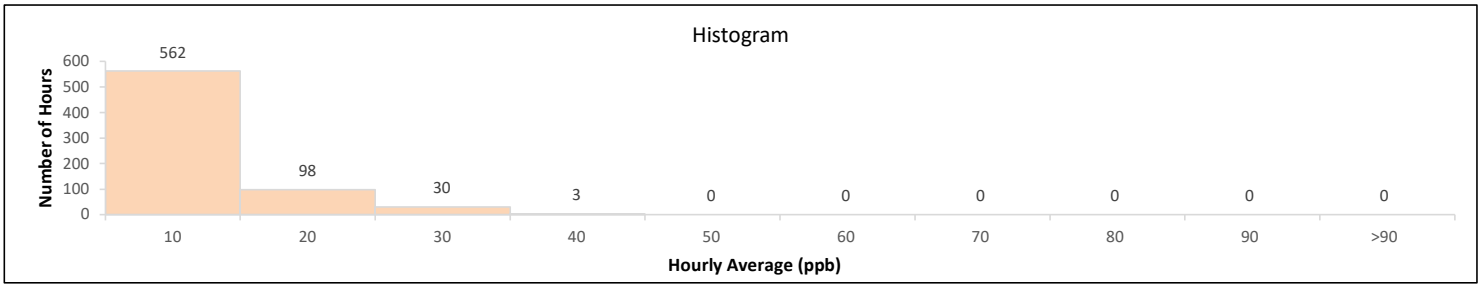
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	19	18	15	14	18	15	19	20	25	16	7	3	3	3	7	7	13	10	12	14	9	S	7	4	3	25	12.1
Dec 2	4	5	6	6	5	7	5	4	4	5	6	6	6	6	5	7	6	6	6	3	S	2	2	2	2	7	5.0
Dec 3	2	1	1	2	5	2	4	4	2	2	1	1	1	2	3	1	2	3	2	S	2	2	2	5	1	5	**2.3**
Dec 4	3	3	3	6	8	9	6	7	8	12	7	5	3	3	3	4	3	4	S	6	8	5	6	4	3	12	5.5
Dec 5	4	4	5	7	4	6	6	6	6	7	8	7	4	6	5	14	15	S	5	6	4	4	4	2	2	15	6.0
Dec 6	2	3	2	4	2	2	2	3	2	2	2	3	3	2	2	3	S	3	5	2	2	2	2	2	2	5	2.5
Dec 7	3	3	3	3	3	2	2	3	5	4	3	6	4	7	6	S	10	8	12	14	7	7	3	3	2	14	5.3
Dec 8	3	3	3	5	5	7	8	6	8	6	6	3	2	2	S	5	3	3	2	4	5	5	5	3	2	8	4.4
Dec 9	3	3	4	4	3	4	5	6	5	4	5	4	5	S	5	3	2	2	2	1	2	2	2	4	1	6	3.5
Dec 10	2	2	1	3	2	2	5	3	6	11	4	3	S	3	4	3	3	4	3	2	2	2	2	1	1	11	3.2
Dec 11	2	2	2	2	2	3	4	4	7	X	X	X	X	X	X	X	X	S	14	18	16	9	7	5	2	18	NA
Dec 12	5	4	3	4	5	5	3	3	4	5	S	4	5	4	9	9	9	9	8	9	10	11	8	8	3	11	6.3
Dec 13	8	12	13	21	21	17	8	9	19	S	31	28	9	8	7	7	15	10	12	20	23	19	16	11	7	31	15.0
Dec 14	7	5	4	3	3	3	3	2	S	2	3	2	2	3	4	3	3	3	3	3	2	3	2	2	2	7	3.0
Dec 15	2	2	3	2	2	2	2	S	3	3	2	2	2	2	5	4	4	3	3	5	7	6	5	3	2	7	3.2
Dec 16	10	7	8	7	8	11	S	14	11	9	6	5	3	3	0	3	3	4	5	6	5	3	3	3	**0**	14	6.0
Dec 17	3	5	7	6	10	S	28	**40**	C	C	C	C	C	C	C	C	C	C	C	26	18	12	10	9	3	**40**	NA
Dec 18	6	6	5	5	S	4	10	3	3	2	4	6	12	3	4	4	6	14	7	11	6	8	18	11	2	18	6.9
Dec 19	5	7	5	S	4	3	4	9	9	5	5	5	4	5	7	7	11	7	11	10	11	13	8	7	3	13	7.0
Dec 20	6	5	S	5	7	6	5	7	5	9	7	6	6	7	6	9	13	8	15	12	10	8	8	10	5	15	7.8
Dec 21	10	S	6	5	7	8	9	9	14	16	18	11	10	8	10	16	23	25	23	23	22	20	18	12	5	25	14.0
Dec 22	S	12	8	8	8	6	7	8	7	7	8	12	11	10	11	13	24	20	27	25	24	15	9	S	6	27	12.7
Dec 23	13	16	16	18	19	22	21	24	17	17	22	6	5	5	4	4	4	4	4	3	3	3	S	11	3	24	11.3
Dec 24	4	6	4	11	11	10	9	18	7	5	2	9	10	23	7	15	19	6	7	4	9	S	3	2	2	23	8.7
Dec 25	2	2	2	2	2	2	2	1	1	3	2	2	2	3	4	17	20	22	19	23	S	25	24	20	1	25	8.8
Dec 26	16	10	7	6	14	18	18	8	23	21	16	12	15	14	11	23	32	29	27	S	9	9	5	4	4	32	**15.1**
Dec 27	4	2	2	4	2	4	4	9	7	8	5	8	6	8	7	4	5	4	S	5	10	11	7	6	2	11	5.7
Dec 28	6	5	5	7	8	6	4	4	6	5	7	3	5	5	5	10	19	S	12	10	10	6	6	9	3	19	7.1
Dec 29	6	11	8	10	9	12	5	8	12	5	8	6	3	3	4	5	S	3	3	3	2	2	2	2	2	12	5.7
Dec 30	2	2	2	2	2	2	2	3	3	3	3	4	4	3	8	S	9	6	5	7	5	5	4	2	2	9	3.8
Dec 31	2	2	2	2	3	3	5	4	4	9	3	3	3	4	S	4	6	13	15	7	6	4	4	3	2	15	4.8
Diurnal Maximum	19	18	16	21	21	22	28	40	25	21	31	28	15	23	11	23	32	29	27	26	24	25	24	20			
Diurnal Average	5.5	5.6	5.2	6.1	6.7	6.8	7.2	8.3	8.0	7.3	7.2	6.0	5.3	5.5	5.7	7.6	10.4	8.6	9.6	9.7	8.6	7.7	6.7	5.7			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



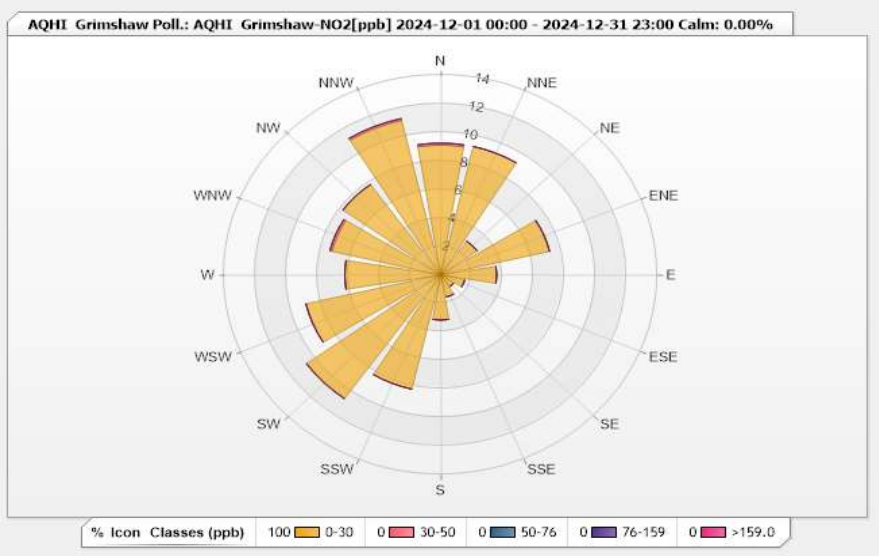


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 93.15% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	9.09	0.14	0	0	0	9.23
NNE	9.24	0	0	0	0	9.24
NE	2.89	0	0	0	0	2.89
ENE	7.22	0	0	0	0	7.22
E	3.61	0	0	0	0	3.61
ESE	1.59	0	0	0	0	1.59
SE	1.01	0	0	0	0	1.01
SSE	1.59	0	0	0	0	1.59
S	3.17	0	0	0	0	3.17
SSW	8.23	0	0	0	0	8.23
SW	10.68	0	0	0	0	10.68
WSW	8.95	0	0	0	0	8.95
W	6.2	0	0	0	0	6.2
WNW	7.22	0.14	0	0	0	7.36
NW	7.79	0	0	0	0	7.79
NNW	11.11	0.14	0	0	0	11.25
Summary	100	0.42	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

OZONE (O_3) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 76 ppb

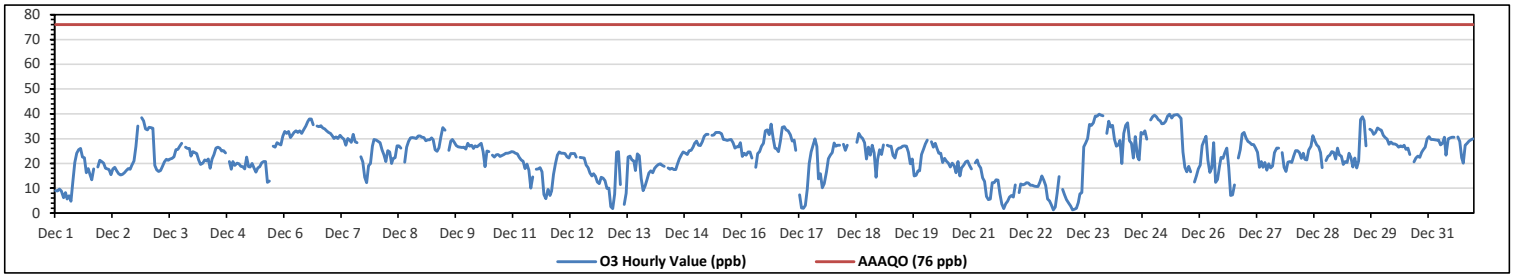
Number of 1-Hour Exceedances: 0

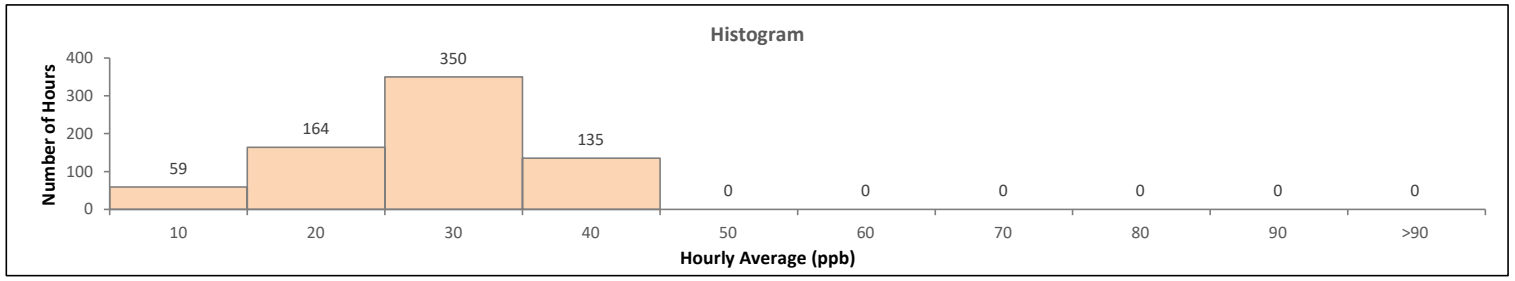
Maximum Hourly Value:	39.8 ppb	on Dec 23 at hr 19	Hours in Service:	744
Maximum Daily Value:	33.9 ppb	on Dec 6	Hours of Data:	708
Minimum Hourly Value:	1.3 ppb	on Dec 22 at hr 19	Hours of Missing Data:	0
Minimum Daily Value:	9.7 ppb	on Dec 22	Hours of Calibration:	36
Monthly Average:	23.2 ppb		Operational 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			
Dec 1	8.9	8.8	9.6	8.8	6.2	8.2	5.7	6.9	4.7	12.8	20.4	24.1	25.6	26	22.5	22.3	16.2	17.9	15.7	13.3	17.7	S	18.6	21.3	4.7	26.0	14.9
Dec 2	20.7	20.1	18	17.7	17.5	15.4	17.8	18.4	17.1	15.8	15.3	15.6	16.2	17.2	17.9	17.6	19.2	21	26.8	35	S	38.5	37.1	34	15.3	38.5	21.3
Dec 3	33.5	34.5	34.4	34.2	19.3	17.4	16.8	17.2	18.9	20.6	21.6	21.3	21.7	22	22.7	25.6	25.7	27	28.1	S	26.6	26	26	22.9	16.8	34.5	24.5
Dec 4	24.7	24.4	24	21.5	19.5	20.1	21.4	21	21.8	18	21.7	23.7	26.1	26.5	26.2	25	25.2	24.2	S	20.7	17.6	20.7	19.3	20.1	17.6	26.5	22.3
Dec 5	19.8	18.8	18.7	17.8	22.6	18.7	18.5	19.9	18.2	16.5	18.1	18.7	20.2	20.8	20.7	12.4	12.9	S	27	26.5	28.3	27.9	27.5	31	12.4	31.0	20.9
Dec 6	32.8	32.2	32.9	30.4	31.4	32.4	33.2	32.5	33.2	32.2	33.5	35	36.8	38	37.9	35.6	S	35	34.8	35.2	34.3	34	33.1	32.4	30.4	38.0	**33.9**
Dec 7	32.2	31.1	30.1	30.7	30.1	31.4	30.4	29.8	27.4	30.1	29.4	28.5	31.8	28.7	28.3	S	22.7	20.6	14.4	12.3	19.1	20	27	29.7	12.3	32.2	26.8
Dec 8	29.4	28.9	28.3	25.6	23.5	20.7	25.1	24.6	19.9	22	22.3	27.1	27.1	26.1	S	20.5	26.6	28.9	30.3	30.4	30.2	30.1	31.1	31.1	19.9	31.1	26.5
Dec 9	30.6	30.4	29.2	29.6	29.6	30.2	29.6	25.5	24.9	26.3	30.7	34.4	33.4	S	25.3	29	29.7	28.5	27.2	26.7	26.5	26.4	26.5	25.8	24.9	34.4	28.5
Dec 10	28	27	27.4	26	27.1	26.7	27.5	28	24.8	18.7	25	24.7	S	23.4	22.5	23.5	23.7	22.8	23.2	23.7	24.1	24.1	24.4	24.8	18.7	28.0	24.8
Dec 11	24.6	24.1	23.8	22.4	21.5	20.9	17.9	19.7	17.3	10	14.6	S	17.6	17.8	18.3	16.6	7.5	5.8	9.5	7	8.8	15.6	19.8	23.3	5.8	24.6	16.7
Dec 12	24.6	24.1	24.1	23.9	22.7	22.2	23.9	24	23.9	22.5	S	22.4	22.3	22.1	19.4	18.3	16.1	15	15.8	14.9	12.5	11.9	14.5	14	11.9	24.6	19.8
Dec 13	13	9.9	10	2.5	1.8	7.6	24.5	24.8	11.4	S	3.5	8	22.5	23	21.5	21	17.2	23.8	23.1	13.9	8.9	10.8	13.3	16.1	1.8	24.8	14.4
Dec 14	17.1	16.3	18	19	19.6	19.8	19.2	18.9	S	18.1	17.6	18	17.5	17.5	19.6	21.8	23.3	24.6	24.2	23.7	25.1	25.3	26.6	28	16.3	28.0	20.8
Dec 15	29	27.3	27.2	28.8	30.9	31.7	31.8	S	31.4	31.5	32.5	32.5	32.5	32	29.7	29.6	29.3	29.6	29.7	28.4	26.1	26.7	26.7	28.3	26.1	32.5	29.7
Dec 16	22.8	24.1	23.4	24.6	24.6	22.1	S	18.4	23.9	24.8	26.9	28	33.1	33.5	31.6	35.9	30.4	26.2	25.9	24.7	29	34.5	34.8	33.6	18.4	35.9	27.7
Dec 17	33.1	31.6	29	29.4	25.3	S	7.3	2.1	2	3.1	9.6	20	24.6	27.4	30	26.8	13.7	15.8	10.2	11.9	16.7	21.9	23.4	24.4	2.0	33.1	19.1
Dec 18	28.2	27	27.3	27.3	S	27.8	25.3	27.3	C	C	C	C	28.5	32.2	30.8	30.1	28.4	21.8	26.5	23.4	27.3	24.2	14.5	21.7	14.5	32.2	26.3
Dec 19	25.6	23.7	27.5	S	27.4	27	27	23.2	22.1	25.4	26.1	26.3	26.9	27.1	26.9	24.5	19.8	21.8	15	15.2	17.1	17	23.7	25.7	15.0	27.5	23.6
Dec 20	27.9	29.4	S	28.7	26.5	28.1	26.2	24.1	24.1	20.4	22	20.9	20.1	18.6	20.1	19.1	16.3	20.7	15	18.1	19.4	20.6	21	19.3	15.0	29.4	22.0
Dec 21	17.8	S	20.2	21.4	19.4	18.1	14.2	12.8	6.7	5.4	5.6	12.2	12.2	13.4	13.2	7.7	3.6	1.8	3.7	4.7	6.5	7	6.5	11.3	1.8	21.4	10.7
Dec 22	S	8.3	11.7	11.3	11.6	12.2	12.1	11.2	11.1	10.8	10.7	10.7	12.5	15	13.2	11	5.6	4.9	3.2	1.3	2.4	8.1	14.7	S	**1.3**	15.0	**9.7**
Dec 23	9.5	7.3	5.4	4	2.8	1.3	1.5	2	4.3	7.7	8.2	26.7	28.2	30.1	35.8	35.3	36.4	39	39.1	**39.8**	39.5	39.2	S	32.1	**1.3**	**39.8**	20.7
Dec 24	37	34.7	35.4	29.7	26.9	27.5	29.3	20	32.2	35.4	36.4	29.2	28.1	22.2	30.8	22.7	21.5	32.5	31.9	33.2	29.8	S	37.5	38.8	20.0	38.8	30.6
Dec 25	39.5	38.8	37.7	37.1	36	36.1	37	39	**39.8**	38.4	39.5	39.6	39.7	39	38.2	24.6	18.4	16.6	18.8	16.6	S	12.5	15	17.8	12.5	**39.8**	31.1
Dec 26	19.4	27.2	28.9	31	21.3	16.4	18.1	28.4	12.4	13.5	18.7	22.4	22	24.4	26.1	18.4	7	7.3	11.3	S	22.2	25.6	31.9	32.5	7.0	32.5	21.1
Dec 27	30.2	28.9	28.3	27.6	27.6	26.2	24.5	18.4	20.8	18.4	20.3	17.3	19.8	18.2	19	24.3	26.2	26.1	S	24.3	18.4	16.8	20.5	20.8	16.8	30.2	22.7
Dec 28	20.3	23	25.1	25.2	24.4	22	24.1	21.6	21.5	25.4	26.9	31.2	29.2	27.5	26.7	24.4	18.3	S	21.2	22.8	23.3	24.8	24.5	21.7	18.3	31.2	24.1
Dec 29	26.1	23.3	23	19.6	20.7	20.3	24.1	22.3	18.5	22.2	18.1	21.1	37.6	38.8	37.3	27.1	S	33.8	33.3	31.7	32.4	34.3	33.7	33.4	18.1	38.8	27.5
Dec 30	31.3	30.4	29.8	27.7	28.6	27.9	27.9	27.5	26.5	27.1	26.7	27.4	25.7	26.2	23.6	S	20.6	22.2	22.9	22.4	24.5	25.6	26.6	29.9	20.6	31.3	26.5
Dec 31	30.8	29.7	29.7	29.6	29.4	29.4	27.5	28.1	30.5	23.4	29.9	30.2	30.5	30.5	S	30.7	28.9	22.3	20.1	27.4	28.1	29	29.5	30	20.1	30.8	28.5
Diurnal Maximum	39.5	38.8	37.7	37.1	36.0	36.1	37.0	39.0	39.8	38.4	39.5	39.6	39.7	39.0	38.2	35.9	36.4	39.0	39.1	39.8	39.5	39.2	37.5	38.8			
Diurnal Average	25.6	24.8	24.6	23.8	22.5	22.2	22.3	21.3	20.4	20.6	21.8	24.0	25.7	25.5	25.4	23.5	20.4	22.0	21.7	21.7	22.2	23.4	24.3	25.9			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



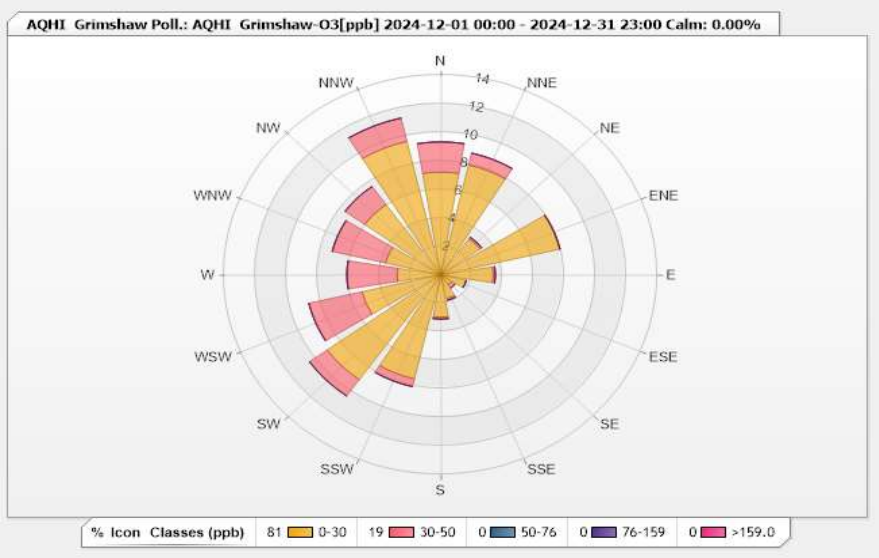


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	7.2	2.12	0	0	0	9.32
NNE	7.91	0.85	0	0	0	8.76
NE	3.11	0.14	0	0	0	3.25
ENE	7.91	0	0	0	0	7.91
E	3.39	0.14	0	0	0	3.53
ESE	1.69	0	0	0	0	1.69
SE	0.85	0.28	0	0	0	1.13
SSE	1.69	0.14	0	0	0	1.83
S	2.97	0.14	0	0	0	3.11
SSW	7.49	0.56	0	0	0	8.05
SW	9.04	1.41	0	0	0	10.45
WSW	5.23	3.53	0	0	0	8.76
W	2.82	3.25	0	0	0	6.07
WNW	3.67	3.53	0	0	0	7.2
NW	6.07	1.55	0	0	0	7.62
NNW	9.6	1.69	0	0	0	11.29
Summary	80.64	19.33	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

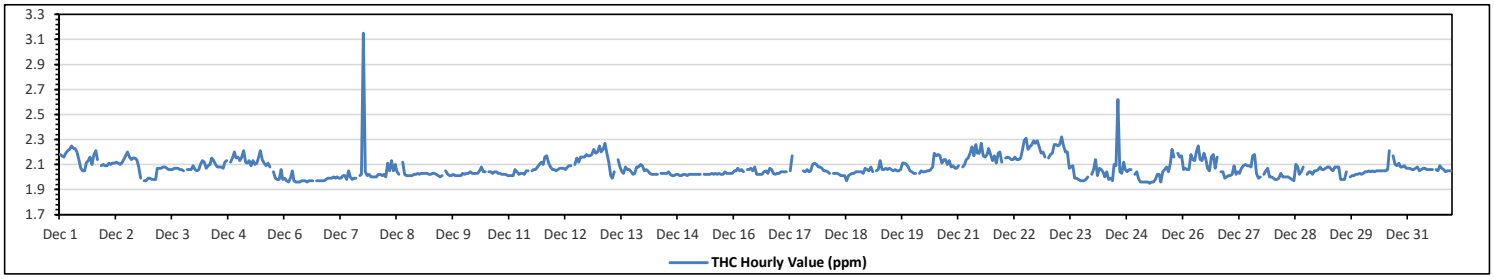
TOTAL HYDROCARBONS (THC) in ppm

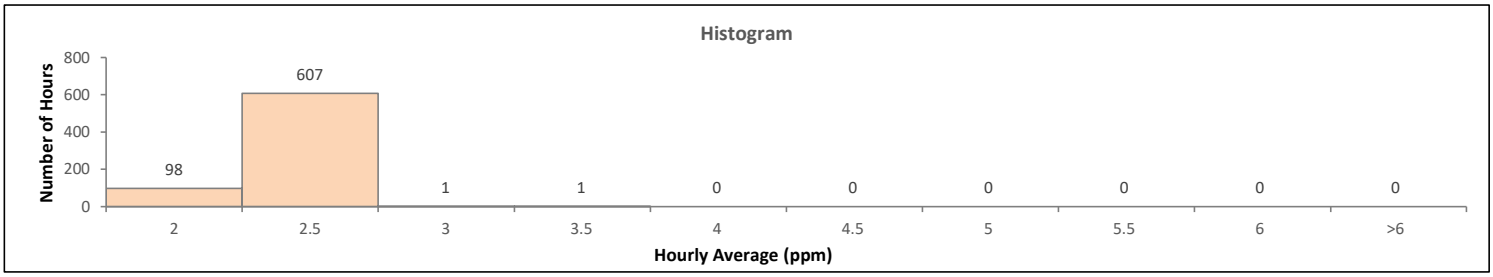
Maximum Hourly Value:	3.15	ppm	on Dec 7 at hr 18	Hours in Service:	744
Maximum Daily Value:	2.21	ppm	on Dec 22	Hours of Data:	707
Minimum Hourly Value:	1.95	ppm	on Dec 25 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	1.97	ppm	on Dec 6	Hours of Calibration:	37
Monthly Average:	2.07	ppm		Operational 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			
Dec 1	2.18	2.17	2.16	2.19	2.21	2.22	2.25	2.23	2.23	2.20	2.14	2.07	2.05	2.05	2.11	2.13	2.16	2.10	2.18	2.21	2.14	S	2.09	2.10	2.05	2.25	2.16
Dec 2	2.09	2.09	2.11	2.10	2.11	2.11	2.12	2.11	2.10	2.11	2.14	2.17	2.20	2.16	2.14	2.15	2.15	2.14	2.08	1.99	S	1.97	1.97	1.99	1.97	2.20	2.10
Dec 3	1.99	1.98	1.98	1.98	2.07	2.07	2.07	2.08	2.08	2.07	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.05	S	2.06	2.06	2.06	2.09	1.98	2.09	2.05
Dec 4	2.06	2.05	2.06	2.10	2.13	2.12	2.07	2.09	2.10	2.15	2.13	2.10	2.08	2.08	2.08	2.07	2.12	2.13	S	2.12	2.15	2.20	2.15	2.16	2.05	2.20	2.11
Dec 5	2.13	2.16	2.21	2.12	2.11	2.13	2.09	2.13	2.10	2.11	2.15	2.21	2.14	2.11	2.09	2.11	2.08	S	2.04	1.99	1.98	1.98	2.06	1.98	1.98	2.21	2.10
Dec 6	1.99	1.97	1.96	1.99	2.05	1.97	1.96	1.96	1.96	1.97	1.97	1.97	1.96	1.97	1.97	1.97	S	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.96	2.05	1.97
Dec 7	1.99	1.99	2.00	1.99	2.00	1.99	1.99	2.01	2.01	1.98	2.05	2.00	1.98	1.99	1.99	S	2.01	2.02	**3.15**	2.04	2.01	2.02	2.00	2.00	1.98	**3.15**	2.05
Dec 8	2.00	2.00	2.02	2.02	2.01	2.02	2.00	2.11	2.05	2.13	2.05	2.10	2.04	2.02	S	2.12	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.00	2.13	2.04
Dec 9	2.02	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.01	2.00	2.01	S	2.05	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.03	2.00	2.05	2.02
Dec 10	2.02	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.05	2.08	2.04	2.04	S	2.04	2.04	2.03	2.04	2.04	2.03	2.03	2.02	2.02	2.02	2.01	2.01	2.08	2.03
Dec 11	2.01	2.01	2.01	2.06	2.04	2.02	2.03	2.03	2.02	2.05	2.05	S	2.05	2.06	2.06	2.08	2.10	2.12	2.10	2.16	2.17	2.11	2.08	2.06	2.01	2.17	2.06
Dec 12	2.06	2.05	2.06	2.07	2.07	2.07	2.06	2.08	2.09	2.09	S	2.10	2.15	2.12	2.16	2.16	2.16	2.18	2.17	2.17	2.18	2.22	2.19	2.20	2.05	2.22	2.12
Dec 13	2.25	2.20	2.22	2.27	2.19	2.12	2.01	1.99	2.04	S	2.14	2.08	2.04	2.03	2.08	2.06	2.06	2.04	2.02	2.03	2.08	2.08	2.10	2.09	1.99	2.27	2.10
Dec 14	2.05	2.06	2.05	2.03	2.02	2.02	2.02	2.02	S	2.03	2.03	2.03	2.03	2.04	2.02	2.01	2.01	2.02	2.02	2.01	2.01	2.02	2.02	2.01	2.01	2.06	2.03
Dec 15	2.02	2.02	2.02	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.02	2.03	2.02	2.03	2.02	2.03	2.02	2.02	2.04	2.03	2.03	2.03	2.03	2.02	2.04	2.02
Dec 16	2.05	2.05	2.07	2.05	2.06	2.04	S	2.06	2.06	2.07	2.05	2.08	2.02	2.02	2.02	2.02	2.04	2.05	2.03	2.07	2.06	2.03	2.02	2.03	2.02	2.08	2.05
Dec 17	2.03	2.04	2.04	2.04	2.04	S	2.05	2.17	C	C	C	C	C	2.05	2.04	2.06	2.04	2.05	2.10	2.11	2.10	2.08	2.08	2.07	2.03	2.17	2.07
Dec 18	2.05	2.05	2.04	2.03	S	2.03	2.03	2.03	2.02	2.01	2.01	2.01	1.97	2.01	2.02	2.03	2.03	2.04	2.04	2.04	2.04	2.03	2.07	2.06	1.97	2.07	2.03
Dec 19	2.05	2.08	2.04	S	2.05	2.06	2.13	2.06	2.06	2.07	2.06	2.07	2.06	2.05	2.06	2.05	2.05	2.06	2.11	2.11	2.10	2.08	2.05	2.04	2.04	2.13	2.07
Dec 20	2.03	2.03	S	2.03	2.05	2.04	2.04	2.05	2.05	2.06	2.08	2.19	2.17	2.18	2.17	2.11	2.14	2.14	2.10	2.13	2.08	2.09	2.07	2.07	2.03	2.19	2.09
Dec 21	2.09	S	2.08	2.10	2.14	2.15	2.19	2.24	2.17	2.26	2.19	2.19	2.27	2.17	2.16	2.18	2.23	2.18	2.13	2.17	2.11	2.19	2.20	2.12	2.08	2.27	2.17
Dec 22	S	2.15	2.16	2.15	2.14	2.14	2.16	2.14	2.14	2.15	2.22	2.29	2.31	2.22	2.24	2.26	2.29	2.27	2.29	2.24	2.19	2.20	2.16	S	2.14	2.31	**2.21**
Dec 23	2.15	2.18	2.19	2.26	2.26	2.25	2.26	2.32	2.25	2.20	2.20	2.07	2.08	2.09	1.99	1.99	1.98	1.97	1.97	1.97	1.98	2.00	S	2.02	1.97	2.32	2.11
Dec 24	2.06	2.14	2.01	2.07	2.06	2.04	2.00	2.04	1.98	1.99	1.97	2.10	2.09	2.62	2.04	2.03	2.12	2.06	2.04	2.06	2.06	S	2.02	2.04	1.97	2.62	2.07
Dec 25	1.99	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.98	2.02	2.02	1.96	2.04	2.06	2.08	2.04	2.11	2.22	2.16	S	2.19	2.16	2.17	1.95	2.22	2.04
Dec 26	2.06	2.07	2.06	2.06	2.18	2.14	2.13	2.20	2.25	2.14	2.13	2.19	2.14	2.07	2.05	2.16	2.18	2.07	2.16	S	2.04	2.04	1.99	2.00	1.99	2.25	2.11
Dec 27	2.01	2.01	2.02	2.09	2.02	2.04	2.03	2.07	2.09	2.10	2.09	2.09	2.08	2.17	2.18	2.03	1.99	2.00	S	2.02	2.05	2.07	2.00	2.00	1.99	2.18	2.05
Dec 28	1.99	1.98	1.98	1.99	2.03	2.00	2.00	2.00	2.00	1.99	1.98	1.97	2.10	2.08	2.02	2.04	2.08	S	2.02	2.04	2.04	2.02	2.05	2.05	1.97	2.10	2.02
Dec 29	2.06	2.08	2.06	2.06	2.07	2.08	2.08	2.06	2.05	2.08	2.08	2.08	1.98	1.98	1.98	2.04	S	2.00	2.01	2.01	2.02	2.02	2.03	2.02	1.98	2.08	2.04
Dec 30	2.03	2.04	2.04	2.05	2.04	2.05	2.04	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.21	S	2.17	2.10	2.09	2.11	2.08	2.08	2.09	2.07	2.03	2.21	2.07
Dec 31	2.07	2.07	2.06	2.06	2.07	2.08	2.05	2.06	2.07	2.07	2.06	2.06	2.06	2.06	S	2.06	2.05	2.09	2.07	2.06	2.04	2.05	2.05	2.05	2.04	2.09	2.06
Diurnal Maximum	2.25	2.20	2.22	2.27	2.26	2.25	2.26	2.32	2.25	2.26	2.22	2.29	2.31	2.62	2.24	2.26	2.29	2.27	3.15	2.24	2.19	2.22	2.20	2.20			
Diurnal Average	2.05	2.06	2.06	2.07	2.08	2.07	2.06	2.08	2.07	2.08	2.07	2.08	2.07	2.09	2.07	2.07	2.08	2.07	2.11	2.07	2.06	2.06	2.06	2.05			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



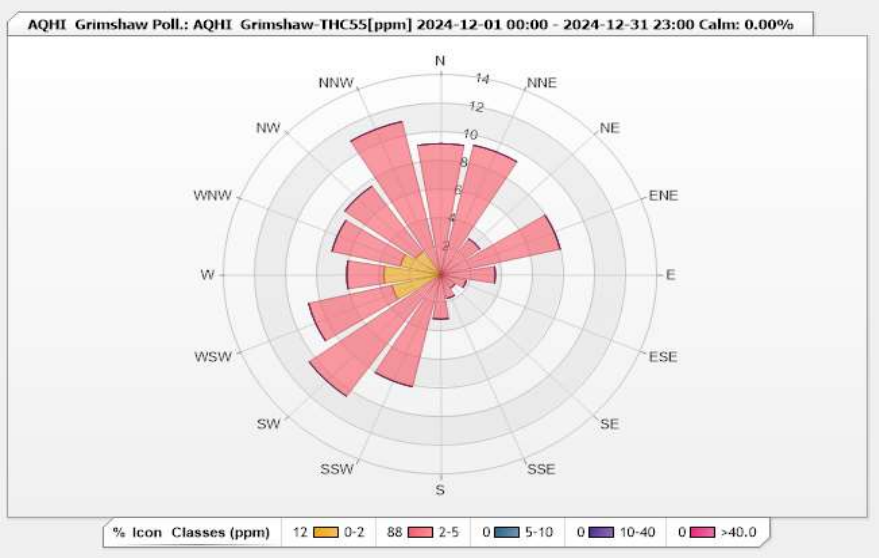


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	9.19	0	0	0	9.19
NNE	0.28	9.05	0	0	0	9.33
NE	0	3.11	0	0	0	3.11
ENE	0	7.92	0	0	0	7.92
E	0.14	3.39	0	0	0	3.53
ESE	0	1.7	0	0	0	1.7
SE	0.14	0.99	0	0	0	1.13
SSE	0	1.7	0	0	0	1.7
S	0.14	2.97	0	0	0	3.11
SSW	0	8.06	0	0	0	8.06
SW	0	10.47	0	0	0	10.47
WSW	3.25	5.52	0	0	0	8.77
W	3.68	2.4	0	0	0	6.08
WNW	2.69	4.53	0	0	0	7.22
NW	1.98	5.66	0	0	0	7.64
NNW	0	11.03	0	0	0	11.03
Summary	12.3	87.69	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

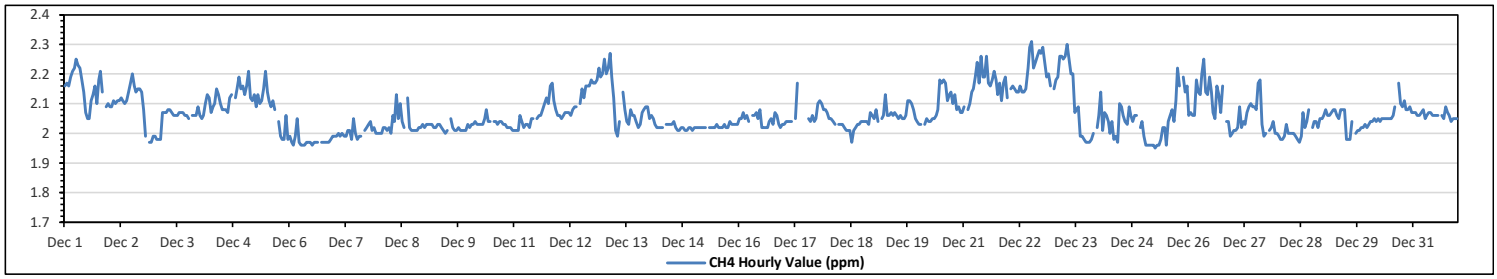
METHANE (CH4) in ppm

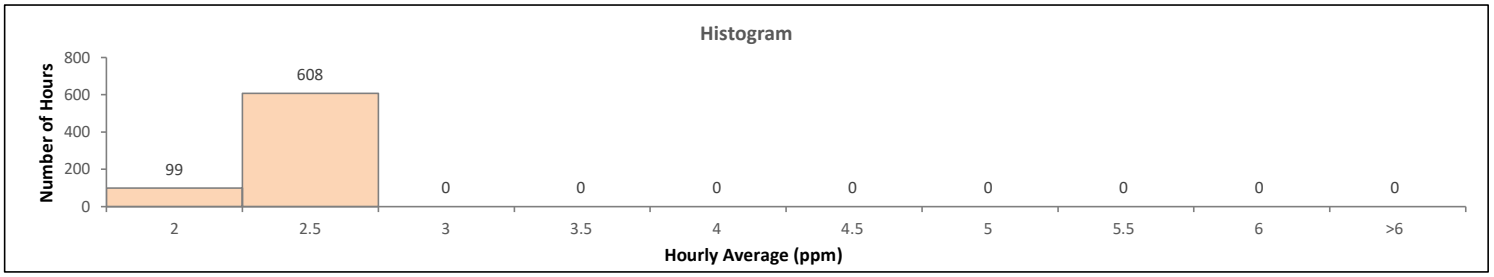
Maximum Hourly Value:	2.31	ppm	on Dec 22 at hr 12	Hours in Service:	744
Maximum Daily Value:	2.20	ppm	on Dec 22	Hours of Data:	707
Minimum Hourly Value:	1.95	ppm	on Dec 25 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	1.97	ppm	on Dec 6	Hours of Calibration:	37
Monthly Average:	2.07	ppm		Operational 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			
Dec 1	2.16	2.17	2.16	2.19	2.21	2.22	2.25	2.23	2.22	2.18	2.14	2.07	2.05	2.05	2.11	2.13	2.16	2.10	2.18	2.21	2.14	S	2.09	2.10	2.05	2.25	2.15
Dec 2	2.09	2.09	2.11	2.10	2.11	2.11	2.12	2.11	2.10	2.11	2.14	2.17	2.20	2.16	2.14	2.15	2.15	2.14	2.08	1.99	S	1.97	1.97	1.99	1.97	2.20	2.10
Dec 3	1.99	1.98	1.98	1.98	2.07	2.07	2.07	2.08	2.08	2.07	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.05	S	2.06	2.06	2.06	2.09	1.98	2.09	2.05
Dec 4	2.06	2.05	2.06	2.10	2.13	2.12	2.07	2.09	2.10	2.15	2.13	2.10	2.08	2.08	2.08	2.07	2.12	2.13	S	2.12	2.15	2.19	2.15	2.16	2.05	2.19	2.11
Dec 5	2.13	2.16	2.21	2.12	2.11	2.13	2.09	2.13	2.10	2.11	2.15	2.21	2.14	2.11	2.09	2.11	2.08	S	2.04	1.99	1.98	1.98	2.06	1.98	1.98	2.21	2.10
Dec 6	1.99	1.97	1.96	1.99	2.05	1.97	1.96	1.96	1.96	1.97	1.97	1.97	1.96	1.97	1.97	1.97	S	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.96	2.05	1.97
Dec 7	1.99	1.99	2.00	1.99	2.00	1.99	1.99	2.01	2.01	1.98	2.05	2.00	1.98	1.99	1.99	S	2.01	2.02	2.03	2.04	2.01	2.02	2.00	2.00	1.98	2.05	2.00
Dec 8	2.00	2.00	2.02	2.02	2.01	2.02	2.00	2.06	2.04	2.13	2.05	2.10	2.04	2.02	S	2.12	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.00	2.13	2.03
Dec 9	2.02	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.01	2.00	2.01	S	2.05	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.03	2.00	2.05	2.02
Dec 10	2.02	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.05	2.08	2.04	2.04	S	2.04	2.04	2.03	2.04	2.04	2.03	2.03	2.02	2.02	2.02	2.01	2.01	2.08	2.03
Dec 11	2.01	2.01	2.01	2.06	2.04	2.02	2.03	2.03	2.02	2.05	2.05	S	2.05	2.06	2.06	2.08	2.10	2.12	2.10	2.16	2.17	2.11	2.08	2.06	2.01	2.17	2.06
Dec 12	2.06	2.05	2.06	2.07	2.07	2.07	2.06	2.08	2.09	2.09	S	2.10	2.15	2.12	2.16	2.16	2.16	2.18	2.17	2.17	2.18	2.22	2.19	2.20	2.05	2.22	2.12
Dec 13	2.25	2.20	2.22	2.27	2.19	2.12	2.01	1.99	2.04	S	2.14	2.08	2.04	2.03	2.08	2.06	2.06	2.04	2.02	2.03	2.07	2.08	2.09	2.09	1.99	2.27	2.10
Dec 14	2.05	2.06	2.05	2.03	2.02	2.02	2.02	2.02	S	2.03	2.03	2.03	2.03	2.04	2.02	2.01	2.01	2.02	2.02	2.01	2.01	2.02	2.02	2.01	2.01	2.06	2.03
Dec 15	2.02	2.02	2.02	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.02	2.03	2.02	2.02	2.02	2.03	2.02	2.02	2.04	2.03	2.03	2.03	2.03	2.02	2.04	2.02
Dec 16	2.05	2.05	2.07	2.05	2.06	2.04	S	2.06	2.06	2.07	2.05	2.08	2.02	2.02	2.02	2.02	2.04	2.05	2.03	2.07	2.06	2.03	2.02	2.03	2.02	2.08	2.05
Dec 17	2.03	2.04	2.04	2.04	2.04	S	2.05	2.17	C	C	C	C	C	2.05	2.04	2.06	2.04	2.05	2.10	2.11	2.10	2.08	2.08	2.07	2.03	2.17	2.07
Dec 18	2.05	2.05	2.04	2.03	S	2.03	2.03	2.03	2.02	2.01	2.01	2.01	1.97	2.01	2.02	2.03	2.03	2.04	2.04	2.04	2.04	2.03	2.07	2.06	1.97	2.07	2.03
Dec 19	2.05	2.08	2.04	S	2.05	2.06	2.13	2.06	2.06	2.07	2.06	2.07	2.06	2.05	2.06	2.05	2.05	2.06	2.11	2.11	2.10	2.08	2.05	2.04	2.04	2.13	2.07
Dec 20	2.03	2.03	S	2.03	2.05	2.04	2.04	2.05	2.05	2.06	2.08	2.18	2.17	2.18	2.17	2.11	2.13	2.14	2.10	2.13	2.08	2.09	2.07	2.07	2.03	2.18	2.09
Dec 21	2.09	S	2.08	2.10	2.14	2.15	2.19	2.24	2.17	2.26	2.19	2.19	2.26	2.17	2.16	2.18	2.21	2.18	2.13	2.17	2.11	2.17	2.19	2.12	2.08	2.26	2.17
Dec 22	S	2.15	2.16	2.15	2.14	2.14	2.16	2.14	2.14	2.15	2.22	2.29	**2.31**	2.22	2.24	2.26	2.28	2.27	2.29	2.24	2.19	2.20	2.16	S	2.14	**2.31**	**2.20**
Dec 23	2.15	2.18	2.19	2.26	2.26	2.25	2.26	2.30	2.25	2.20	2.20	2.07	2.08	2.09	1.99	1.99	1.98	1.97	1.97	1.97	1.98	2.00	S	2.02	1.97	2.30	2.11
Dec 24	2.06	2.14	2.01	2.07	2.06	2.04	2.00	2.04	1.98	1.99	1.97	2.10	2.09	2.06	2.04	2.03	2.09	2.06	2.04	2.06	2.06	S	2.02	2.04	1.97	2.14	2.05
Dec 25	1.99	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.98	2.02	2.02	1.96	2.04	2.06	2.08	2.04	2.11	2.22	2.16	S	2.19	2.14	2.16	1.95	2.22	2.04
Dec 26	2.06	2.07	2.06	2.06	2.18	2.14	2.13	2.20	2.25	2.14	2.13	2.19	2.14	2.07	2.05	2.16	2.13	2.07	2.16	S	2.04	2.04	1.99	2.00	1.99	2.25	2.11
Dec 27	2.01	2.01	2.02	2.09	2.02	2.04	2.03	2.07	2.09	2.10	2.09	2.09	2.08	2.17	2.18	2.03	1.99	2.00	S	2.01	2.02	2.04	2.00	2.00	1.99	2.18	2.05
Dec 28	1.99	1.98	1.98	1.99	2.03	2.00	2.00	2.00	2.00	1.99	1.98	1.97	1.99	2.07	2.02	2.04	2.08	S	2.02	2.04	2.04	2.02	2.05	2.05	1.97	2.08	2.01
Dec 29	2.06	2.08	2.06	2.06	2.07	2.08	2.08	2.06	2.05	2.08	2.08	2.08	1.98	1.98	1.98	2.04	S	2.00	2.01	2.01	2.02	2.02	2.03	2.02	1.98	2.08	2.04
Dec 30	2.03	2.04	2.04	2.05	2.04	2.05	2.04	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.09	S	2.17	2.10	2.09	2.11	2.08	2.08	2.09	2.07	2.03	2.17	2.07
Dec 31	2.07	2.07	2.06	2.06	2.07	2.08	2.05	2.06	2.07	2.07	2.06	2.06	2.06	2.06	S	2.06	2.05	2.09	2.07	2.06	2.04	2.05	2.05	2.05	2.04	2.09	2.06
Diurnal Maximum	2.25	2.20	2.22	2.27	2.26	2.25	2.26	2.30	2.25	2.26	2.22	2.29	2.31	2.22	2.24	2.26	2.28	2.27	2.29	2.24	2.19	2.22	2.19	2.20			
Diurnal Average	2.05	2.06	2.06	2.07	2.08	2.07	2.06	2.08	2.07	2.08	2.07	2.08	2.07	2.07	2.07	2.07	2.08	2.07	2.07	2.07	2.06	2.06	2.06	2.05			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



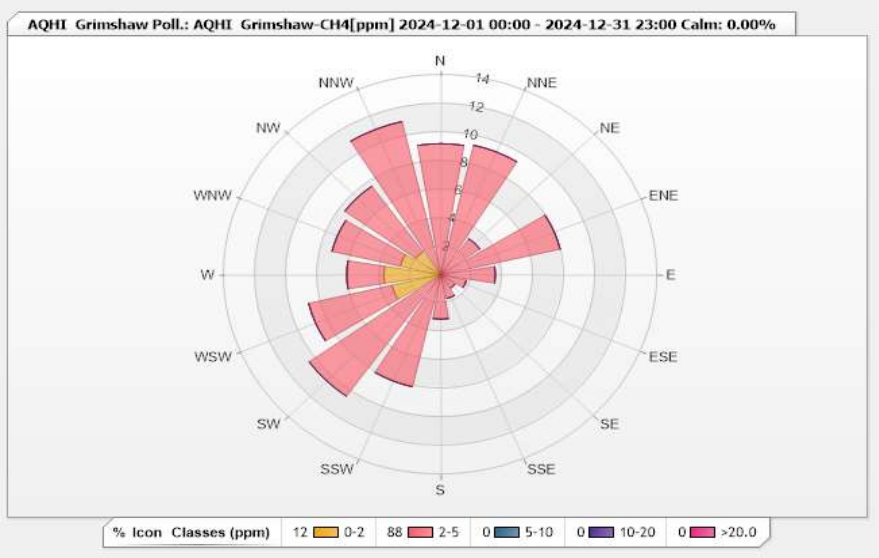


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.14	9.05	0	0	0	9.19
NNE	0.28	9.05	0	0	0	9.33
NE	0	3.11	0	0	0	3.11
ENE	0	7.92	0	0	0	7.92
E	0.14	3.39	0	0	0	3.53
ESE	0	1.7	0	0	0	1.7
SE	0.14	0.99	0	0	0	1.13
SSE	0	1.7	0	0	0	1.7
S	0.14	2.97	0	0	0	3.11
SSW	0	8.06	0	0	0	8.06
SW	0	10.47	0	0	0	10.47
WSW	3.25	5.52	0	0	0	8.77
W	3.68	2.4	0	0	0	6.08
WNW	2.69	4.53	0	0	0	7.22
NW	1.98	5.66	0	0	0	7.64
NNW	0	11.03	0	0	0	11.03
Summary	12.44	87.55	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

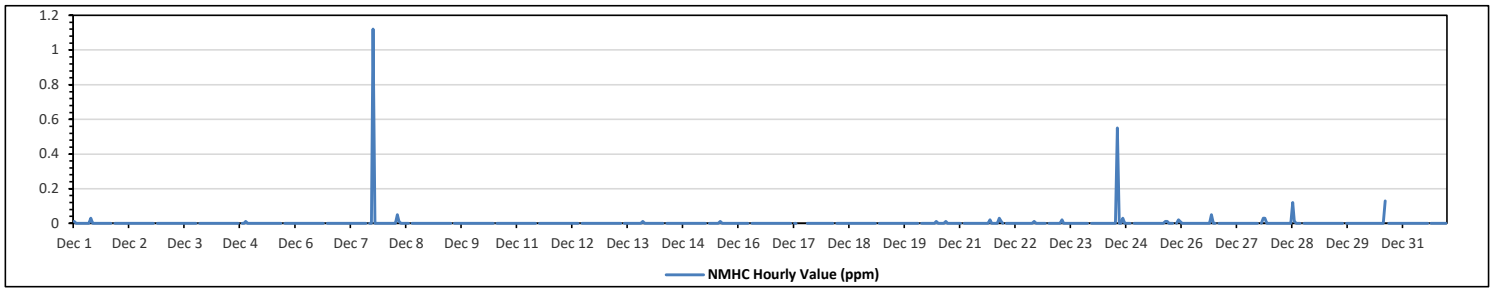
NON-METHANE HYDROCARBONS (NMHC) in ppm

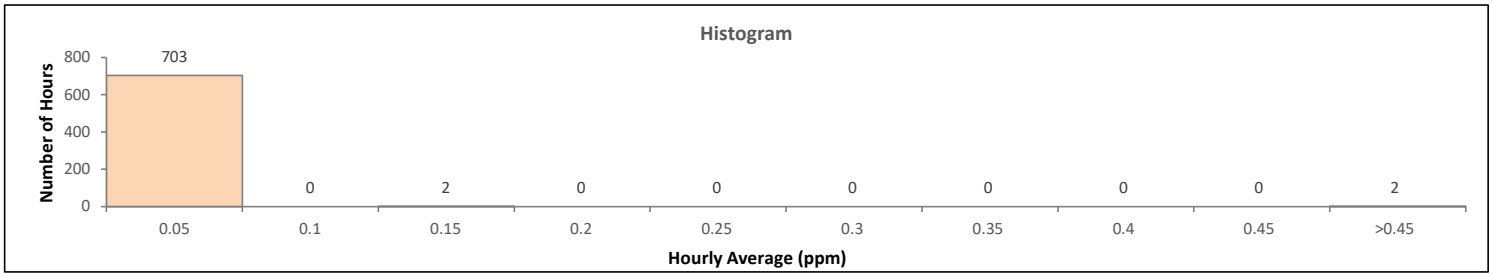
Maximum Hourly Value:	1.12	ppm	on Dec 7 at hr 18	Hours in Service:	744	
Maximum Daily Value:	0.05	ppm	on Dec 7	Hours of Data:	707	
Minimum Hourly Value:	0.00	ppm	on Dec 1 at hr 1	Hours of Missing Data:	0	
Minimum Daily Value:	0.00	ppm	on Dec 2	Hours of Calibration:	37	
Monthly Average:	0.00	ppm		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	0.01	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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.03	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00
Dec 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	S	0.00	0.00	**1.12**	0.00	0.00	0.00	0.00	0.00	0.00	**1.12**	**0.05**
Dec 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
Dec 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	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
Dec 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	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
Dec 11	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
Dec 12	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
Dec 13	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	0.01	0.00	0.00	0.00	0.01	0.00
Dec 14	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
Dec 15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Dec 16	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
Dec 17	0.00	0.00	0.00	0.00	0.00	S	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	0.00	0.00	0.00	0.00
Dec 18	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
Dec 19	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
Dec 20	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Dec 21	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	0.02	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.00	0.03	0.00
Dec 22	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.01	0.00
Dec 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	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	0.02	0.00
Dec 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.03	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.55	0.03
Dec 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	S	0.00	0.02	0.01	0.00	0.02	0.00
Dec 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	0.05	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.05	0.00
Dec 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	S	0.00	0.03	0.03	0.00	0.00	0.00	0.03	0.00
Dec 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	0.12	0.01	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.01
Dec 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 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	0.13	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01
Dec 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	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
Diurnal Maximum	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.03	0.00	0.01	0.12	0.55	0.13	0.01	0.05	0.00	1.12	0.00	0.03	0.03	0.02	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	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



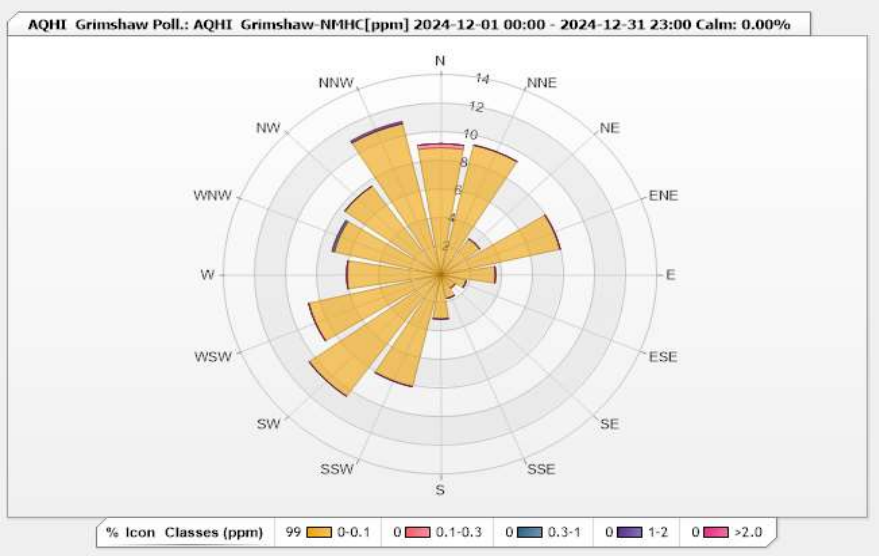


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 12-2024

Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	8.91	0.28	0	0	0	9.19
NNE	9.34	0	0	0	0	9.34
NE	3.11	0	0	0	0	3.11
ENE	7.92	0	0	0	0	7.92
E	3.54	0	0	0	0	3.54
ESE	1.7	0	0	0	0	1.7
SE	1.13	0	0	0	0	1.13
SSE	1.7	0	0	0	0	1.7
S	3.11	0	0	0	0	3.11
SSW	8.06	0	0	0	0	8.06
SW	10.47	0	0	0	0	10.47
WSW	8.77	0	0	0	0	8.77
W	6.08	0	0	0	0	6.08
WNW	7.07	0	0.14	0	0	7.21
NW	7.64	0	0	0	0	7.64
NNW	10.89	0	0	0.14	0	11.03
Summary	99.44	0.28	0.14	0.14	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

PARTICULATE MATTER 2.5 ($PM_{2.5}$) in µg/m^3

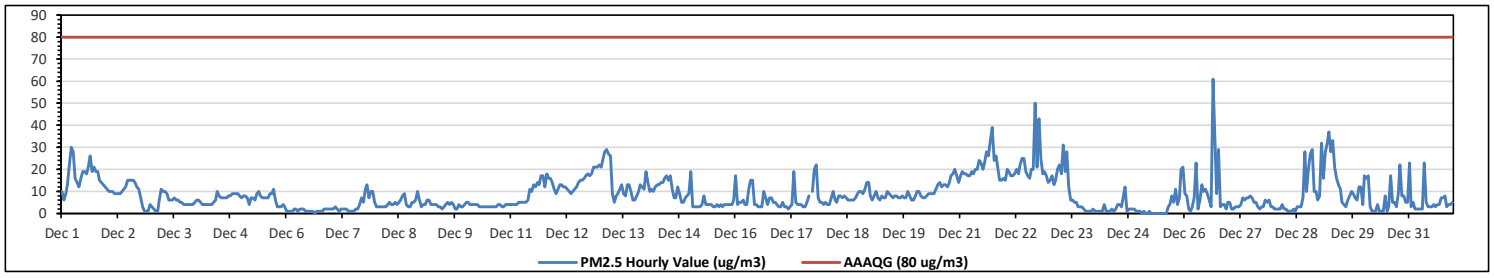
Alberta Ambient Air Quality Guideline (AAAQG): 1-Hour 80 µg/m3, Alberta Ambient Air Quality Objective (AAAQO): 24-Hour 29 µg/m3

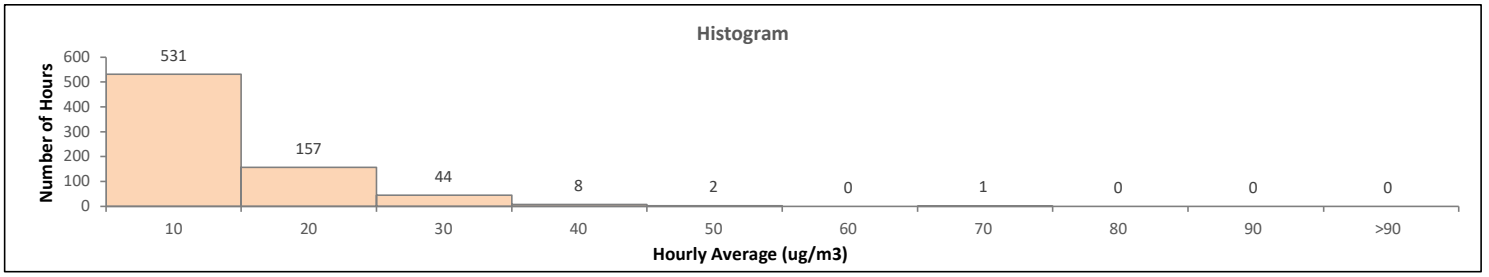
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0
Maximum Hourly Value:	61 µg/m^3 on Dec 26 at hr 15	Hours in Service:	744
Maximum Daily Value:	21.5 µg/m^3 on Dec 21	Hours of Data:	743
Minimum Hourly Value:	0 µg/m^3 on Dec 6 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1 µg/m^3 on Dec 6	Hours of Calibration:	1
Monthly Average:	8.6 µg/m^3	Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	10	6	9	13	22	30	28	16	14	12	16	19	19	18	21	26	19	21	19	19	15	14	13	12	6	30	17.1
Dec 2	11	10	10	10	9	9	9	9	10	11	12	15	15	15	15	14	12	11	7	3	1	1	1	4	1	15	9.3
Dec 3	3	2	1	1	6	11	10	10	9	6	6	6	7	6	6	5	5	4	4	4	4	4	4	5	1	11	5.4
Dec 4	6	6	5	4	4	4	4	4	4	5	6	10	8	7	7	7	7	8	8	9	9	9	9	8	4	10	6.6
Dec 5	7	8	8	7	4	7	7	6	9	10	8	7	7	7	7	9	9	11	6	3	3	3	4	3	3	11	6.7
Dec 6	1	1	1	1	2	2	1	2	2	2	1	1	1	1	1	0	1	1	1	1	2	2	2	2	**0**	2	**1.3**
Dec 7	2	2	3	2	1	2	2	2	2	1	1	1	1	2	2	4	7	5	11	13	7	10	10	5	1	13	4.1
Dec 8	3	3	3	3	3	3	4	5	4	4	5	4	5	6	8	9	4	3	3	5	5	6	10	6	3	10	4.8
Dec 9	3	4	4	6	6	4	4	4	4	3	3	2	3	4	5	4	5	4	2	2	4	3	3	4	2	6	3.8
Dec 10	5	5	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	4	4	3	3	4	4	4	3	5	3.6
Dec 11	4	4	4	4	5	5	5	5	5	6	11	10	13	12	14	13	17	17	12	18	16	16	14	11	4	18	10.0
Dec 12	9	11	13	13	12	12	11	10	9	10	11	12	14	15	15	16	17	18	17	18	21	21	21	22	9	22	14.5
Dec 13	21	25	28	29	27	26	9	5	8	9	11	13	9	8	13	13	10	6	6	8	10	13	12	11	5	29	13.8
Dec 14	19	14	10	11	10	12	13	13	14	14	16	17	15	17	11	7	7	12	9	5	5	7	8	9	5	19	11.5
Dec 15	19	3	3	3	3	3	4	8	4	4	4	4	3	3	4	3	4	3	4	4	4	4	4	6	3	19	4.5
Dec 16	17	4	5	5	6	4	4	11	15	15	4	4	3	3	3	10	7	4	7	7	5	5	4	3	3	17	6.5
Dec 17	3	5	3	3	2	3	4	19	5	4	4	4	3	3	5	8	**C**	10	20	22	7	5	5	4	2	22	6.6
Dec 18	5	4	4	7	10	6	5	8	8	7	8	7	6	6	6	6	7	9	10	10	9	11	14	14	4	14	7.8
Dec 19	8	6	8	10	7	6	8	7	7	10	9	8	7	8	8	7	7	8	7	7	10	8	6	6	6	10	7.6
Dec 20	8	10	10	8	7	7	8	9	9	9	9	11	13	14	12	13	13	12	14	17	18	20	17	14	7	20	11.8
Dec 21	17	19	18	18	17	17	19	18	20	20	24	23	20	23	28	26	33	39	24	26	21	15	15	16	15	39	**21.5**
Dec 22	15	20	19	17	17	18	20	18	22	25	25	19	17	16	20	20	50	21	43	25	18	19	17	14	14	50	21.5
Dec 23	15	17	13	15	20	22	18	31	19	28	12	6	6	5	5	3	3	3	2	1	1	1	1	2	1	31	10.4
Dec 24	1	1	1	1	1	4	1	1	1	2	1	2	4	4	3	7	12	1	2	2	2	2	1	1	1	12	2.4
Dec 25	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	3	4	8	5	11	4	7	20	21	**0**	21	3.6
Dec 26	9	8	2	1	3	7	23	2	6	13	10	11	9	6	3	**61**	33	9	29	3	4	4	2	5	1	**61**	11.0
Dec 27	5	2	2	3	3	3	4	7	6	7	7	8	7	5	5	3	2	3	3	6	5	6	3	3	2	8	4.5
Dec 28	2	2	2	2	4	2	2	1	1	1	2	1	3	3	3	7	28	10	20	27	29	10	10	6	1	29	7.4
Dec 29	8	32	16	28	32	37	28	33	21	16	13	11	5	4	3	6	8	10	9	7	6	12	12	4	3	37	15.0
Dec 30	17	16	17	3	1	1	1	4	1	1	1	8	1	3	17	5	5	3	9	22	8	8	5	5	1	22	6.8
Dec 31	23	3	5	2	2	2	2	2	23	5	3	3	3	4	3	4	4	7	7	8	3	4	4	5	2	23	5.5
Diurnal Maximum	23	32	28	29	32	37	28	33	23	28	25	23	20	23	28	61	50	39	43	27	29	21	21	22			
Diurnal Average	8.9	8.2	7.5	7.5	8.1	8.8	8.5	8.8	8.5	8.5	7.9	8.1	7.4	7.5	8.3	10.4	11.4	9.2	10.5	10.2	8.4	8.2	8.2	7.6			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.





Station: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 12-2024

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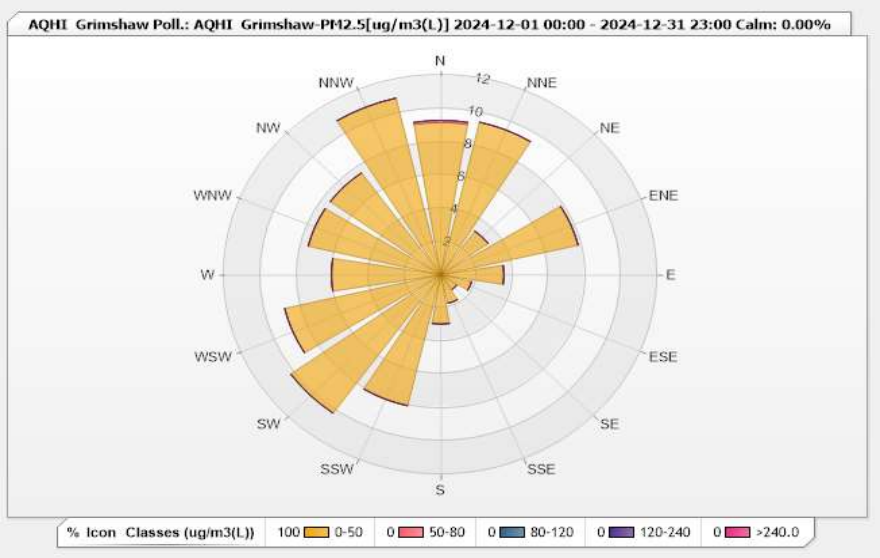
Type: Pollution Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

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	9.15	0.13	0	0	0	9.28
NNE	9.42	0	0	0	0	9.42
NE	3.23	0	0	0	0	3.23
ENE	7.81	0	0	0	0	7.81
E	3.5	0	0	0	0	3.5
ESE	1.75	0	0	0	0	1.75
SE	1.08	0	0	0	0	1.08
SSE	1.75	0	0	0	0	1.75
S	2.96	0	0	0	0	2.96
SSW	8.08	0	0	0	0	8.08
SW	10.23	0	0	0	0	10.23
WSW	8.88	0	0	0	0	8.88
W	6.06	0	0	0	0	6.06
WNW	7.54	0	0	0	0	7.54
NW	7.54	0	0	0	0	7.54
NNW	10.9	0	0	0	0	10.9
Summary	100	0.13	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

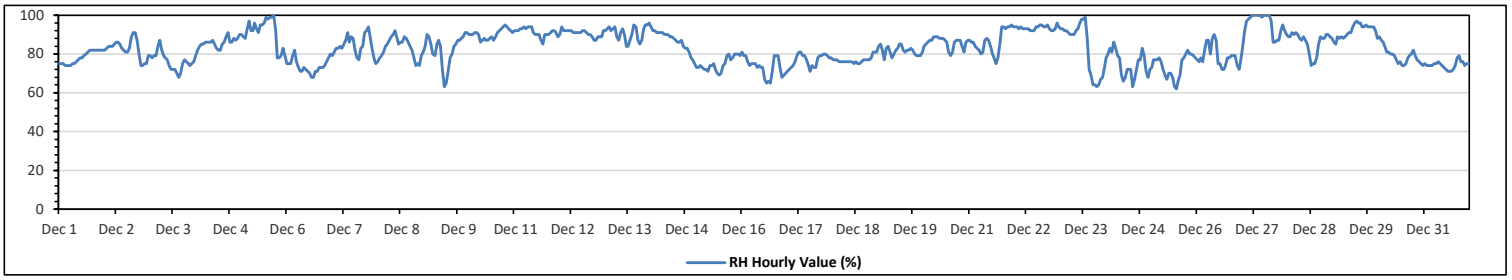
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Dec 5 at hr 17	Hours in Service:	744	
Maximum Daily Value:	95.0	%	on Dec 27	Hours of Data:	744	
Minimum Hourly Value:	62	%	on Dec 25 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	73.3	%	on Dec 16	Hours of Calibration:	0	
Monthly Average:	83.0	%		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			
Dec 1	75	75	75	74	74	74	74	75	75	76	77	78	78	79	80	81	82	82	82	82	82	82	82	82	74	82	78.2
Dec 2	82	83	84	84	84	85	86	86	85	83	82	81	81	83	89	91	91	87	80	74	74	75	75	79	74	91	82.7
Dec 3	79	78	79	79	84	87	82	79	78	77	74	72	72	72	70	68	70	75	77	76	75	74	75	76	68	87	76.2
Dec 4	79	82	84	85	85	86	86	86	86	87	85	83	82	82	85	86	89	91	86	86	88	87	88	90	79	91	85.6
Dec 5	90	89	88	93	97	92	92	96	93	91	95	95	96	99	98	99	99	**100**	92	78	78	79	83	79	78	**100**	91.3
Dec 6	75	75	75	79	82	76	73	71	71	73	72	71	70	68	68	71	71	73	73	73	74	76	78	80	68	82	73.7
Dec 7	79	81	83	83	84	83	85	87	91	86	89	88	82	78	77	83	84	91	92	94	88	83	78	75	75	94	84.3
Dec 8	76	78	79	81	84	85	87	89	90	92	89	85	86	86	89	88	86	84	82	78	74	75	74	79	74	92	83.2
Dec 9	81	84	90	89	85	80	79	85	87	84	72	63	65	71	78	80	84	85	87	87	88	89	91	91	63	91	82.3
Dec 10	90	90	90	91	91	90	86	87	88	87	87	88	89	87	89	91	92	93	94	95	94	93	92	91	86	95	90.2
Dec 11	92	92	92	93	93	94	93	94	94	94	91	90	90	90	87	85	90	90	90	91	92	92	91	89	85	94	91.2
Dec 12	90	94	92	92	92	92	92	91	91	91	91	91	92	92	91	90	90	89	87	87	89	89	89	92	87	94	90.7
Dec 13	92	93	94	92	93	94	89	87	91	93	90	84	84	87	90	95	94	87	85	87	93	95	95	96	84	96	90.8
Dec 14	94	92	92	91	91	91	91	90	90	90	89	89	88	87	86	86	87	84	83	83	81	78	77	75	75	94	86.9
Dec 15	73	73	74	73	72	72	71	74	74	75	72	70	69	70	74	75	79	80	77	78	80	80	80	79	69	80	74.8
Dec 16	81	79	79	76	74	75	75	75	73	74	73	73	67	65	66	65	71	79	79	79	73	68	69	70	65	81	**73.3**
Dec 17	71	72	73	74	76	79	81	81	79	79	77	74	71	74	73	73	78	79	79	80	80	79	78	78	71	81	76.6
Dec 18	77	77	77	76	76	76	76	76	76	76	76	75	76	75	75	76	77	77	77	77	78	81	81	81	75	81	76.9
Dec 19	84	85	82	77	83	84	81	78	80	82	83	85	85	82	81	82	82	83	82	80	79	79	79	81	77	85	81.6
Dec 20	84	85	86	87	87	89	89	89	88	88	88	87	86	81	79	81	86	87	87	87	84	81	86	87	79	89	85.8
Dec 21	87	86	86	84	83	82	80	81	87	88	87	84	80	78	75	78	85	94	94	93	94	94	95	94	75	95	86.2
Dec 22	94	94	93	94	93	93	93	93	92	92	92	94	94	95	95	94	94	95	93	92	92	93	96	94	92	96	93.5
Dec 23	93	93	92	92	91	90	90	90	92	93	96	98	98	99	88	72	69	64	64	63	64	67	68	73	63	99	83.3
Dec 24	78	80	83	81	86	83	79	78	69	66	68	72	72	72	63	67	72	77	77	83	79	71	68	72	63	86	74.8
Dec 25	73	77	77	77	78	76	72	69	67	70	70	68	63	**62**	66	69	77	78	80	82	80	80	79	78	**62**	82	73.7
Dec 26	77	76	78	76	82	87	87	80	88	90	87	75	75	72	72	74	78	78	79	79	79	74	72	78	72	90	78.9
Dec 27	84	92	97	98	99	**100**	**100**	**100**	**100**	**100**	99	**100**	**100**	**100**	**100**	97	86	86	87	87	92	95	92	90	84	**100**	**95.0**
Dec 28	89	89	91	90	91	90	88	87	89	87	85	80	74	75	75	78	85	89	88	88	90	90	89	88	74	91	86.0
Dec 29	86	85	89	88	89	88	89	90	91	91	94	96	97	96	96	94	94	95	94	94	94	94	92	88	85	97	91.8
Dec 30	89	87	86	84	81	81	80	80	79	77	75	76	74	74	75	78	79	80	82	79	77	76	75	74	74	89	79.1
Dec 31	75	74	74	74	74	75	75	76	75	74	73	72	71	71	71	72	74	78	79	76	76	74	75	75	71	79	74.3
Diurnal Maximum	94	94	97	98	99	100	100	100	100	100	99	100	100	100	100	99	99	100	94	95	94	95	96	96			
Diurnal Average	82.9	83.5	84.3	84.1	85.0	84.8	83.9	83.9	84.2	84.1	83.2	81.8	80.9	80.7	80.7	81.3	83.1	84.2	83.5	82.8	82.6	82.0	82.0	82.4			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

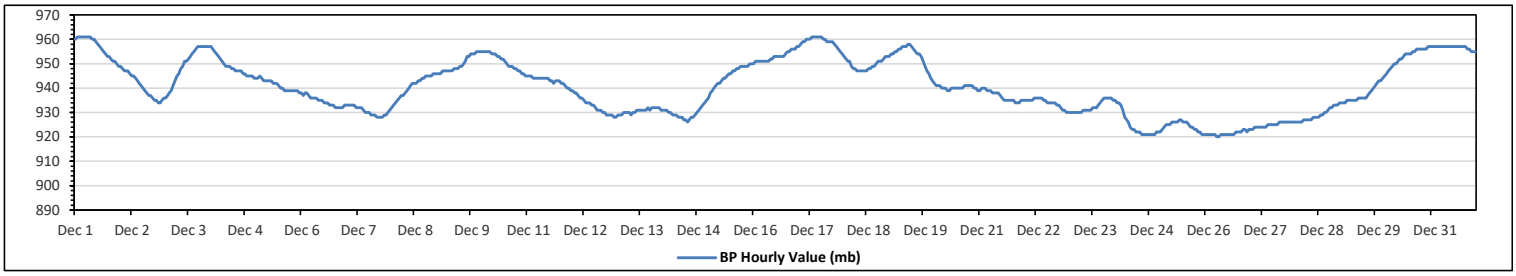
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	961	mb	on Dec 1 at hr 1	Hours in Service:	744
Maximum Daily Value:	959	mb	on Dec 17	Hours of Data:	744
Minimum Hourly Value:	920	mb	on Dec 26 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	921	mb	on Dec 26	Hours of Calibration:	0
Monthly Average:	940	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Dec 1	960	**961**	**961**	**961**	**961**	**961**	**961**	**961**	**961**	960	960	959	958	957	956	955	954	953	953	952	951	951	950	949	949	**961**	957
Dec 2	949	948	947	947	947	946	945	945	944	943	942	941	940	939	938	937	937	936	935	935	934	934	935	936	934	949	941
Dec 3	936	937	938	939	941	943	945	946	948	949	951	951	952	953	954	955	956	957	957	957	957	957	957	957	936	957	950
Dec 4	957	956	955	954	953	952	951	950	949	949	949	948	948	947	947	947	947	946	946	945	945	945	945	944	944	957	949
Dec 5	944	944	945	944	943	943	943	943	943	942	942	942	941	940	940	939	939	939	939	939	939	939	939	938	938	945	941
Dec 6	938	937	938	938	937	936	936	936	936	935	935	935	934	934	934	933	933	933	932	932	932	932	932	933	932	938	935
Dec 7	933	933	933	933	933	932	932	932	932	931	930	930	930	929	929	929	928	928	928	928	929	929	930	931	928	933	931
Dec 8	932	933	934	935	936	937	937	938	939	940	941	942	942	942	943	943	944	944	945	945	945	945	946	946	932	946	941
Dec 9	946	946	946	947	947	947	947	947	947	948	948	948	949	949	950	951	953	953	954	954	954	955	955	955	946	955	950
Dec 10	955	955	955	955	955	954	954	954	953	953	952	952	951	950	949	949	949	948	948	947	947	946	946	945	945	955	951
Dec 11	945	945	945	944	944	944	944	944	944	944	944	944	943	943	942	943	943	943	942	942	941	940	940	939	939	945	943
Dec 12	939	938	938	937	936	936	935	934	934	934	933	933	932	931	931	931	930	930	929	929	929	929	928	928	928	939	933
Dec 13	929	929	929	930	930	930	930	929	930	930	931	931	931	931	931	931	932	931	932	932	932	932	932	931	929	932	931
Dec 14	931	931	931	930	930	929	929	929	928	928	928	927	927	926	927	928	928	929	930	931	932	933	934	935	926	935	930
Dec 15	936	938	939	940	941	942	942	943	944	944	945	946	946	947	947	948	948	949	949	949	949	949	950	950	936	950	945
Dec 16	950	951	951	951	951	951	951	951	951	952	952	953	953	953	953	953	953	954	955	955	956	956	956	957	950	957	953
Dec 17	957	958	959	959	960	960	960	**961**	**961**	**961**	**961**	**961**	**961**	960	960	959	959	959	959	958	957	956	955	954	954	**961**	**959**
Dec 18	953	952	951	951	949	948	948	947	947	947	947	947	947	948	948	949	949	950	951	951	951	952	953	953	947	953	950
Dec 19	953	954	954	955	955	956	956	957	957	957	958	958	957	956	955	954	954	953	951	949	947	946	944	943	943	958	953
Dec 20	942	941	941	941	940	940	940	939	939	940	940	940	940	940	940	940	941	941	941	941	941	940	940	939	939	942	940
Dec 21	939	940	940	940	939	939	939	938	938	938	938	937	936	935	935	935	935	935	935	934	934	934	935	935	934	940	937
Dec 22	935	935	935	935	935	936	936	936	936	936	935	935	934	934	934	934	934	933	933	932	931	931	930	930	930	936	934
Dec 23	930	930	930	930	930	930	930	931	931	931	931	931	932	932	932	933	934	935	936	936	936	936	936	935	930	936	932
Dec 24	935	934	934	933	931	928	927	926	924	923	923	922	922	922	921	921	921	921	921	921	921	921	922	922	921	935	925
Dec 25	922	923	924	925	925	925	926	926	926	926	927	927	926	926	926	925	924	924	923	923	922	922	921	921	921	927	924
Dec 26	921	921	921	921	921	921	**920**	**920**	921	921	921	921	921	921	921	921	922	922	922	922	923	923	922	923	**920**	923	**921**
Dec 27	923	923	924	924	924	924	924	924	924	925	925	925	925	925	925	926	926	926	926	926	926	926	926	926	923	926	925
Dec 28	926	926	926	926	927	927	927	927	927	928	928	928	928	929	929	930	930	931	932	932	933	933	933	934	926	934	929
Dec 29	934	934	934	935	935	935	935	935	935	936	936	936	936	936	937	938	939	940	941	942	943	943	944	945	934	945	938
Dec 30	946	947	948	949	950	950	951	952	952	953	954	954	954	954	955	955	956	956	956	956	956	956	957	957	946	957	953
Dec 31	957	957	957	957	957	957	957	957	957	957	957	957	957	957	957	957	957	957	957	956	956	955	955	955	955	957	957
Diurnal Maximum	960	961	961	961	961	961	961	961	961	961	961	961	961	960	960	959	959	959	959	958	957	957	957	957			
Diurnal Average	940	941	941	941	941	941	941	941	941	941	941	941	940	940	940	940	940	941	941	940	940	940	940	940			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

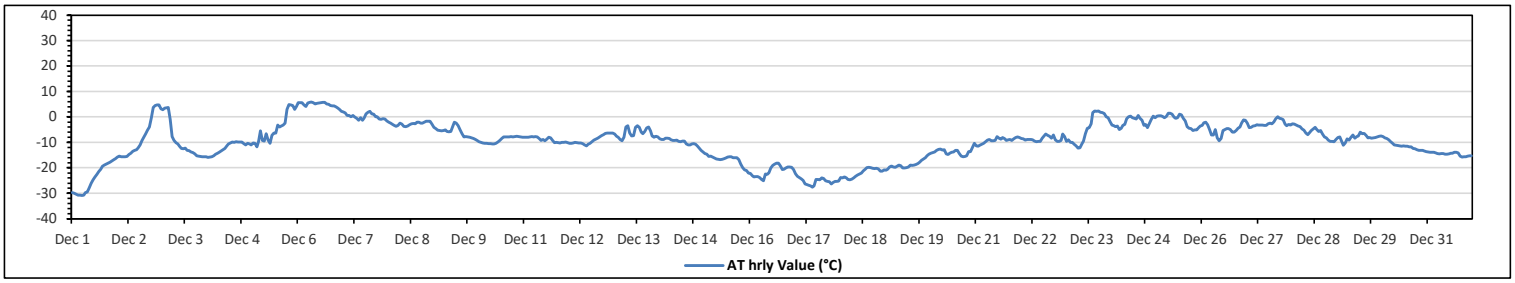
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	5.9	°C	on Dec 6 at hr 7	Hours in Service:	744	
Maximum Daily Value:	4.9	°C	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	-30.9	°C	on Dec 1 at hr 5	Hours of Missing Data:	0	
Minimum Daily Value:	-25.3	°C	on Dec 17	Hours of Calibration:	0	
Monthly Average:	-9.6	°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			
Dec 1	-29.7	-30	-30.3	-30.8	-30.7	**-30.9**	-30.8	-29.7	-29.5	-27.9	-26	-24.7	-23.6	-22.6	-21.5	-20.5	-19.4	-18.9	-18.5	-18.2	-17.8	-17.3	-16.8	-16.3	**-30.9**	-16.3	-24.3
Dec 2	-15.8	-15.4	-15.7	-15.7	-15.6	-15.5	-14.8	-14.2	-13.5	-13.2	-12.8	-12.1	-11	-9.3	-7.9	-6.8	-5.2	-4	-0.4	3.8	4.5	4.7	4.8	3.2	-15.8	4.8	-8.2
Dec 3	2.8	3.5	3.6	3.8	-0.9	-7.7	-9.2	-10.1	-10.7	-11.5	-12.3	-12.4	-12.2	-13.1	-13.3	-13.7	-14	-14.5	-15.2	-15.4	-15.5	-15.6	-15.6	-15.7	-15.7	3.8	-9.8
Dec 4	-15.9	-15.8	-15.6	-15.2	-14.7	-14.3	-13.9	-13.4	-12.9	-12.3	-11.4	-10.6	-10.2	-9.8	-9.9	-9.7	-9.8	-9.8	-9.8	-10.5	-11	-10.3	-10.6	-10.9	-15.9	-9.7	-12.0
Dec 5	-10.2	-10.3	-11.8	-9.7	-5.5	-9.3	-9.5	-6.6	-9.1	-10.4	-7.2	-6.3	-6.4	-3.2	-4	-3.5	-3.1	-2.4	3	4.9	4.8	4.5	3	4.2	-11.8	4.9	-4.3
Dec 6	5.6	5.6	5.6	4.8	4.1	5.5	5.8	**5.9**	5.6	5.2	5.3	5.4	5.6	5.8	5.7	5.2	5	4.5	4.4	4.3	4	3.5	2.9	2.2	2.2	**5.9**	**4.9**
Dec 7	2	1.6	0.6	0.6	0.1	0.6	-0.1	-0.5	-1.4	-0.2	-1.3	-0.4	1.2	1.9	2.3	1.2	1.1	0.1	0	-0.8	-0.9	-0.7	-0.8	-1.5	-1.5	2.3	0.2
Dec 8	-2.1	-2.4	-2.9	-3.3	-3.7	-3.3	-2.5	-2.8	-3.7	-3.9	-3.5	-3	-2.7	-2.6	-2.7	-2	-2.1	-2.4	-2.4	-2	-1.6	-1.7	-1.6	-2.8	-3.9	-1.6	-2.7
Dec 9	-4.1	-4.5	-5.2	-5.3	-5.5	-5.4	-5.1	-5.7	-5.8	-5.6	-3.7	-2.1	-2.4	-3.4	-5.1	-6.6	-7.8	-7.7	-7.8	-8	-8.2	-8.5	-8.8	-9.2	-9.2	-2.1	-5.9
Dec 10	-9.7	-9.9	-10.2	-10.3	-10.4	-10.5	-10.5	-10.6	-10.7	-10.3	-9.8	-9.2	-8.5	-7.9	-7.8	-7.9	-7.8	-7.7	-7.8	-7.7	-7.6	-7.7	-7.8	-8	-10.7	-7.6	-9.0
Dec 11	-8	-8	-8	-7.8	-7.7	-7.8	-7.7	-7.9	-8.5	-9.2	-8.9	-9.4	-8.7	-8	-8.2	-9.2	-10.1	-9.9	-10.1	-10.2	-10	-9.9	-9.8	-10.1	-10.2	-7.7	-8.9
Dec 12	-10.4	-10.3	-10.2	-10	-10.1	-10.2	-10.2	-10.5	-10.9	-11.3	-10.8	-10.4	-9.7	-9.1	-8.7	-8.3	-7.9	-7.3	-6.9	-6.5	-6.3	-6.3	-6.4	-6.4	-11.3	-6.3	-9.0
Dec 13	-6.8	-7.6	-8	-8.8	-9.4	-8	-4	-3.4	-6.4	-7.4	-7.3	-4.1	-3.4	-4.1	-6	-6.6	-5.7	-4.3	-4	-5.5	-7.4	-8	-7.6	-7.8	-9.4	-3.4	-6.3
Dec 14	-8.6	-8.8	-8.8	-8.3	-8.3	-8.4	-9	-9.2	-9.2	-9.1	-9.6	-9.7	-9.5	-9.5	-10.7	-10.9	-10.9	-10.7	-10.5	-10.8	-11.5	-12.3	-13.1	-13.7	-13.7	-8.3	-10.0
Dec 15	-14.4	-14.6	-15.5	-15.4	-15.8	-16.2	-16.5	-16.6	-16.7	-16.6	-16.4	-16.2	-15.8	-15.6	-15.6	-16	-16.1	-16.1	-16.8	-18.6	-19.9	-20.8	-21	-22	-22.0	-14.4	-16.9
Dec 16	-22.2	-23	-23.6	-23.4	-23.4	-23.8	-24.5	-25.1	-22.4	-22.6	-21.9	-20.1	-19	-18.5	-18.1	-18.1	-19.2	-20.7	-20.5	-20.1	-19.6	-19.6	-19.8	-20.7	-25.1	-18.1	-21.2
Dec 17	-22.3	-23.3	-23.8	-24.3	-25	-26.3	-26.6	-26.8	-27.1	-27.6	-27.1	-24.6	-24.5	-24.7	-24	-24.2	-25.1	-25.3	-25.5	-26.3	-25.7	-25.4	-25.3	-25.2	-27.6	-22.3	**-25.3**
Dec 18	-23.8	-24	-23.6	-24	-24.5	-24.7	-24.4	-24	-23.3	-22.9	-22.5	-22	-21.2	-20.5	-19.9	-19.8	-20	-20.2	-20.3	-20.2	-20.4	-21.3	-21.3	-20.8	-24.7	-19.8	-22.1
Dec 19	-20.9	-20.5	-19.7	-19.2	-19.7	-19.8	-19.4	-18.9	-19.1	-20.1	-20.1	-20	-19.6	-18.9	-19	-18.9	-18.7	-18.3	-17.7	-17	-16.5	-16.1	-15.3	-14.7	-20.9	-14.7	-18.7
Dec 20	-14.3	-14	-13.7	-13.2	-12.7	-12.6	-13	-12.9	-14.5	-14.8	-14.2	-13.8	-13.7	-13.1	-13.1	-14.4	-15.4	-15.7	-15.5	-15.3	-13.6	-13.6	-12	-10.4	-15.7	-10.4	-13.7
Dec 21	-11.3	-11.5	-11.1	-10.8	-10.3	-9.7	-9.1	-8.9	-9.4	-9.4	-9.3	-7.7	-8.3	-8.7	-8.1	-8.4	-9.2	-9	-8.8	-9.3	-8.6	-8.1	-7.8	-8.1	-11.5	-7.7	-9.2
Dec 22	-8.4	-8.6	-9.1	-8.8	-8.8	-8.8	-9	-9.5	-9.7	-9.6	-9.6	-8.3	-7.6	-6.8	-7.2	-7.6	-8.3	-7.1	-9	-9.6	-9.6	-9.2	-6.7	-7.7	-9.7	-6.7	-8.5
Dec 23	-9.6	-9	-9.9	-10	-10.8	-11.4	-12.2	-12.1	-10.6	-9.5	-6.6	-4.4	-4.2	-2.7	1.7	2.4	2.2	2.4	1.9	1.7	1.3	0	-0.3	-1.8	-12.2	2.4	-4.6
Dec 24	-3.1	-3.4	-3.8	-3.5	-4.9	-4.4	-3.3	-2.9	-0.7	0.1	0.3	-0.2	-0.5	-0.8	0.6	-0.5	-1.3	-3.3	-2.9	-4.2	-2.6	-0.9	0.3	-0.3	-4.9	0.6	-1.9
Dec 25	0.3	0.5	0.5	0.2	-0.3	0.2	1.5	1.4	1.1	-0.1	-0.5	-0.3	1.1	0.9	-0.5	-1.5	-3.9	-4.4	-4.6	-5.3	-5.1	-5.1	-4.3	-3.6	-5.3	1.5	-1.3
Dec 26	-3.3	-2.3	-2.1	-3	-5	-7	-7	-5	-8.2	-9.4	-8.4	-5.4	-5	-4.5	-4.6	-5	-5.9	-6	-5.3	-4.4	-4	-2.5	-1.2	-1.3	-9.4	-1.2	-4.8
Dec 27	-2.4	-4.2	-4.1	-3.6	-3.4	-3	-3.1	-3.1	-3.2	-3.3	-3.3	-2.7	-2.4	-2.7	-1.9	-0.6	0	-0.5	-0.7	-1	-2.8	-3.4	-2.9	-3.1	-4.2	0.0	-2.6
Dec 28	-2.7	-2.8	-3.2	-3.6	-3.8	-4.7	-5.2	-6.3	-6.9	-6.1	-5.3	-4.7	-4.1	-5.1	-5.7	-5.3	-6.7	-7.9	-8.2	-9.1	-9.6	-9.6	-9.7	-8.9	-9.7	-2.7	-6.1
Dec 29	-8.1	-7.9	-9.4	-11.1	-10.2	-8.6	-9.1	-8	-7	-8.3	-7.7	-7.5	-6	-6.6	-6.5	-7.2	-8.2	-8.1	-8.3	-8.2	-8.1	-7.8	-7.6	-7.5	-11.1	-6.0	-8.0
Dec 30	-7.7	-8.2	-8.5	-9	-9.7	-10.3	-11	-11.1	-11.2	-11.4	-11.5	-11.3	-11.5	-11.5	-11.8	-11.8	-12.3	-12.5	-12.9	-13.1	-13.2	-13.2	-13.4	-13.6	-13.6	-7.7	-11.3
Dec 31	-13.7	-13.8	-13.8	-13.8	-14.1	-14.4	-14.5	-14.4	-14.4	-14.6	-14.7	-14.5	-14.3	-14.2	-13.9	-13.9	-14.1	-15.4	-15.8	-15.7	-15.6	-15.4	-15.3	-15.3	-15.8	-13.7	-14.6
Diurnal Maximum	5.6	5.6	5.6	4.8	4.1	5.5	5.8	5.9	5.6	5.2	5.3	5.4	5.6	5.8	5.7	5.2	5.0	4.5	4.4	4.9	4.8	4.7	4.8	4.2			
Diurnal Average	-9.6	-9.8	-10.0	-10.1	-10.3	-10.7	-10.6	-10.4	-10.6	-10.8	-10.3	-9.4	-9.0	-8.7	-8.6	-8.7	-9.0	-9.1	-8.9	-9.0	-9.0	-9.0	-8.8	-9.0			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

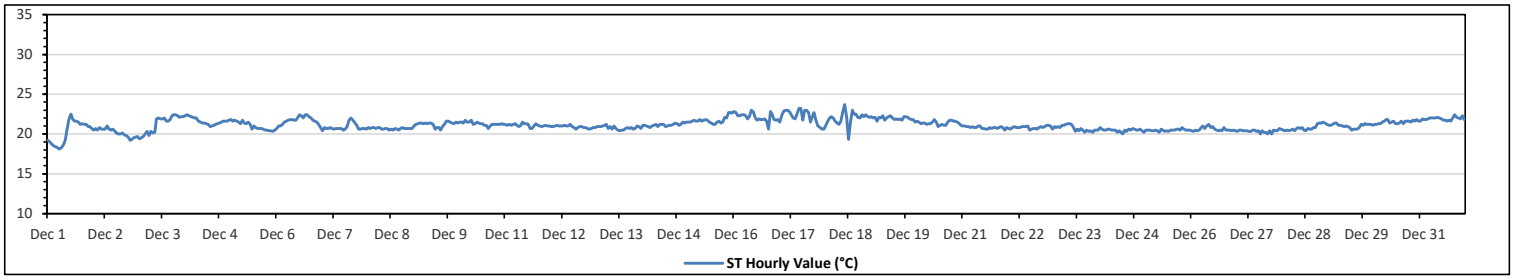
Maximum Hourly Value:	23.7	°C	on Dec 18 at hr 10	Hours in Service:	744	
Maximum Daily Value:	22.2	°C	on Dec 17	Hours of Data:	744	
Minimum Hourly Value:	18.1	°C	on Dec 1 at hr 6	Hours of Missing Data:	0	
Minimum Daily Value:	20.2	°C	on Dec 2	Hours of Calibration:	0	
Monthly Average:	21.1	°C		Operational 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			
Dec 1	19.2	19.0	18.7	18.5	18.4	18.3	**18.1**	18.3	18.6	19.2	20.6	21.9	22.5	21.9	21.6	21.6	21.5	21.2	21.3	21.2	21.2	20.9	20.9	20.7	**18.1**	22.5	20.2
Dec 2	20.5	20.7	20.5	20.8	20.6	20.6	20.6	21.0	20.6	20.5	20.6	20.4	20.1	20.0	20.0	20.1	19.9	19.8	19.6	19.2	19.3	19.5	19.6	19.7	19.2	21.0	**20.2**
Dec 3	19.4	19.5	19.7	20.0	20.3	19.8	20.3	20.1	20.2	21.9	22.0	21.9	21.9	22.0	21.6	21.6	21.8	22.3	22.4	22.4	22.3	22.1	22.2	22.2	19.4	22.4	21.2
Dec 4	22.3	22.4	22.3	22.2	22.1	22.0	22.0	21.6	21.5	21.4	21.4	21.3	21.2	20.9	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.6	21.6	21.7	20.9	22.4	21.6
Dec 5	21.8	21.6	21.7	21.6	21.5	21.3	21.7	21.4	21.3	21.5	21.2	20.6	21.0	20.8	20.7	20.7	20.7	20.6	20.5	20.5	20.4	20.4	20.3	20.5	20.3	21.8	21.0
Dec 6	20.7	21.0	21.0	21.2	21.5	21.6	21.7	21.8	21.8	21.7	21.7	22.0	22.4	22.3	22.0	22.4	22.4	22.2	22.0	21.7	21.6	21.5	21.2	20.8	20.7	22.4	21.7
Dec 7	20.4	20.8	20.7	20.7	20.8	20.7	20.6	20.7	20.7	20.7	20.7	20.5	20.6	20.9	21.7	22.0	21.7	21.4	21.1	20.6	20.6	20.7	20.7	20.6	20.4	22.0	20.9
Dec 8	20.8	20.7	20.8	20.8	20.7	20.8	20.8	20.6	20.6	20.7	20.7	20.5	20.6	20.5	20.7	20.6	20.5	20.7	20.8	20.7	20.7	20.7	20.7	20.7	20.5	20.8	20.7
Dec 9	21.0	21.2	21.3	21.4	21.4	21.3	21.4	21.3	21.4	21.4	21.2	20.6	20.8	20.8	20.5	20.9	21.2	21.6	21.6	21.5	21.4	21.3	21.5	21.4	20.5	21.6	21.2
Dec 10	21.5	21.5	21.4	21.7	21.5	21.5	21.7	21.2	21.3	21.5	21.4	21.3	21.3	21.1	21.1	20.7	21.0	21.2	21.2	21.2	21.2	21.2	21.3	21.2	20.7	21.7	21.3
Dec 11	21.2	21.1	21.2	21.1	21.2	21.3	21.1	20.9	21.1	21.5	21.3	21.3	21.2	20.7	20.7	21.0	21.3	21.1	21.0	20.9	21.0	21.1	21.0	21.0	20.7	21.5	21.1
Dec 12	20.9	20.9	21.0	21.1	21.0	21.0	21.0	21.1	21.0	21.0	21.2	20.9	20.8	20.6	20.8	20.9	20.9	20.8	20.8	20.7	20.6	20.7	20.8	20.8	20.6	21.2	20.9
Dec 13	20.9	20.9	20.9	21.0	21.1	21.2	20.7	20.9	20.6	21.0	20.7	20.5	20.4	20.5	20.5	20.7	20.8	20.7	20.8	20.6	20.7	21.0	20.9	20.7	20.4	21.2	20.8
Dec 14	21.1	21.1	21.0	20.9	20.8	21.0	21.1	21.2	20.9	21.2	21.2	21.2	20.9	21.0	21.1	21.1	21.2	21.4	21.3	21.1	21.2	21.5	21.4	21.5	20.8	21.5	21.1
Dec 15	21.5	21.5	21.6	21.7	21.6	21.6	21.8	21.6	21.7	21.8	21.7	21.5	21.4	21.2	21.2	21.5	21.6	21.4	21.5	22.1	22.0	22.7	22.7	22.6	21.2	22.7	21.7
Dec 16	22.8	22.7	22.3	22.3	22.4	22.4	22.3	21.9	22.2	23.0	22.8	22.1	21.7	21.9	21.8	21.8	21.9	21.6	20.6	22.8	22.5	21.8	21.7	21.8	20.6	23.0	22.1
Dec 17	21.5	22.4	22.9	23.0	23.0	22.8	22.4	22.0	21.9	22.5	23.2	23.2	21.7	23.0	23.0	22.7	21.5	22.1	22.7	21.7	21.0	20.8	20.6	20.6	20.6	23.2	**22.2**
Dec 18	21.1	21.6	22.0	22.2	22.0	21.6	21.4	21.2	21.6	22.8	**23.7**	22.1	19.3	21.5	23.0	22.5	22.5	22.1	22.0	22.4	22.2	22.4	22.2	22.1	19.3	**23.7**	22.0
Dec 19	22.2	22.0	22.1	21.6	22.1	22.0	22.3	21.7	22.0	22.2	22.3	22.0	21.8	21.9	21.8	21.9	21.7	22.2	22.2	22.1	21.9	21.8	21.8	21.5	21.5	22.3	22.0
Dec 20	21.6	21.5	21.3	21.4	21.4	21.2	21.3	21.3	21.5	21.8	21.5	20.9	21.1	21.2	21.1	21.1	21.5	21.7	21.7	21.6	21.6	21.5	21.4	21.1	20.9	21.8	21.4
Dec 21	21.0	21.0	20.9	20.9	20.8	20.9	20.8	20.8	21.0	21.0	20.7	20.7	20.6	20.6	20.8	20.7	20.8	20.8	20.7	20.8	20.9	20.8	20.5	20.8	20.5	21.0	20.8
Dec 22	20.7	20.6	20.8	20.9	20.8	20.8	20.8	20.9	20.9	20.9	21.0	20.5	20.6	20.7	20.7	20.6	20.8	20.9	20.8	20.9	21.1	21.1	21.0	20.6	20.5	21.1	20.8
Dec 23	20.9	20.8	20.9	20.8	21.1	21.1	21.2	21.3	21.3	21.2	20.8	20.3	20.6	20.4	20.7	20.5	20.2	20.5	20.3	20.4	20.2	20.5	20.5	20.5	20.2	21.3	20.7
Dec 24	20.8	20.6	20.5	20.5	20.6	20.6	20.5	20.5	20.5	20.2	20.4	20.2	20.0	20.5	20.3	20.6	20.5	20.7	20.6	20.5	20.5	20.6	20.4	20.2	20.0	20.8	20.5
Dec 25	20.5	20.5	20.5	20.4	20.4	20.5	20.4	20.2	20.6	20.5	20.3	20.4	20.3	20.5	20.5	20.5	20.6	20.6	20.5	20.8	20.6	20.5	20.5	20.5	20.2	20.8	20.5
Dec 26	20.4	20.3	20.5	20.4	20.5	20.8	21.0	20.7	21.0	21.2	20.8	20.9	20.6	20.5	20.4	20.5	20.4	20.8	20.5	20.5	20.5	20.4	20.5	20.4	20.3	21.2	20.6
Dec 27	20.3	20.5	20.5	20.4	20.4	20.4	20.3	20.3	20.5	20.5	20.3	20.4	20.0	20.4	20.2	20.2	20.0	20.4	20.0	20.5	20.4	20.4	20.7	20.6	20.0	20.7	20.4
Dec 28	20.5	20.4	20.5	20.4	20.5	20.6	20.4	20.7	20.8	20.7	20.8	20.5	20.4	20.7	20.6	20.6	20.8	20.8	21.3	21.4	21.4	21.5	21.4	21.2	20.4	21.5	20.8
Dec 29	21.1	21.1	21.2	21.4	21.4	21.1	21.1	21.0	20.9	21.0	20.9	20.8	20.5	20.6	20.6	20.6	20.8	21.2	21.1	21.3	21.2	21.2	21.2	21.1	20.5	21.4	21.0
Dec 30	21.2	21.2	21.3	21.3	21.5	21.6	21.8	21.8	21.4	21.5	21.6	21.3	21.3	21.4	21.6	21.3	21.6	21.6	21.6	21.5	21.7	21.6	21.8	21.6	21.2	21.8	21.5
Dec 31	21.6	21.9	21.8	21.8	21.9	22.0	22.0	22.0	22.0	22.1	22.0	21.9	21.7	21.7	21.6	21.7	21.6	22.0	22.4	22.1	22.0	21.9	22.3	21.8	21.6	22.4	21.9
Diurnal Maximum	22.8	22.7	22.9	23.0	23.0	22.8	22.4	22.0	22.2	23.0	23.7	23.2	22.5	23.0	23.0	22.7	22.5	22.3	22.7	22.8	22.5	22.7	22.7	22.6			
Diurnal Average	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.0	21.1	21.3	21.3	21.1	20.9	21.1	21.1	21.1	21.1	21.2	21.2	21.2	21.1	21.2	21.1	21.0			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**ND**	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.



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

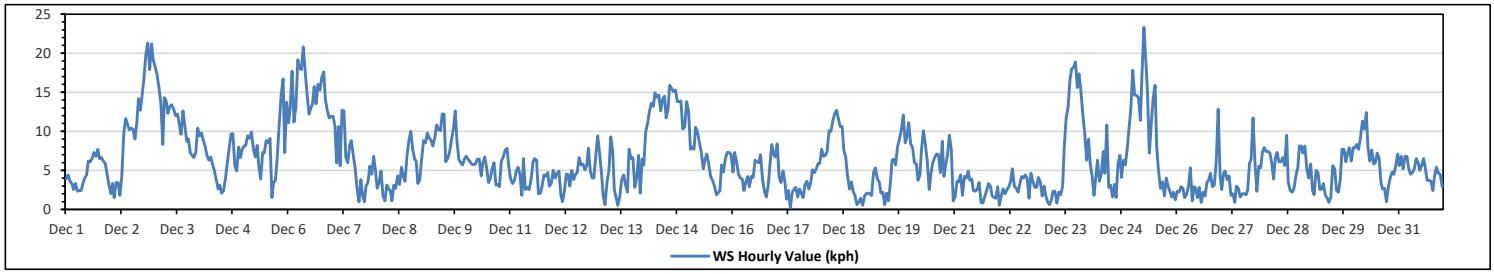
VECTOR WIND SPEED (VWS) in km/hr

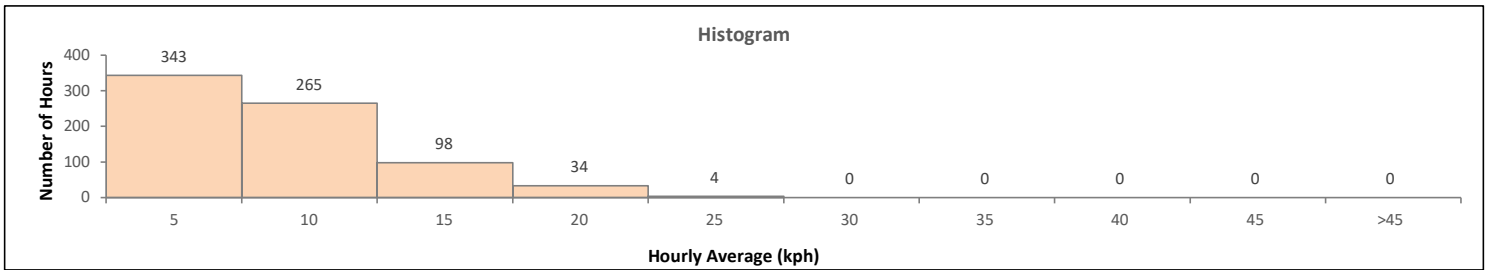
Maximum Hourly Value:	23.3	kph	on Dec 25 at hr 6	Hours in Service:	744	
Maximum Daily Value:	14.9	kph	on Dec 6	Hours of Data:	744	
Minimum Hourly Value:	0.2	kph	on Dec 17 at hr 7	Hours of Missing Data:	0	
Minimum Daily Value:	2.7	kph	on Dec 21	Hours of Calibration:	0	
Monthly Average:	6.4	kph		Operational 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
Dec 1	3.9	4.4	3.6	3.3	2.5	3.3	2.3	2.4	2.4	3.4	4.1	4.4	6.2	6.1	6.5	7.3	6.8	7.7	6.5	6.6	6.2	5.9	4.5	3.1	2.3	7.7	4.7
Dec 2	2.0	3.3	1.5	3.4	3.4	1.8	4.3	9.7	11.6	11.0	10.2	10.4	10.3	9.0	11.2	14.2	12.7	14.5	16.7	19.8	21.3	17.9	21.2	19.2	1.5	21.3	10.9
Dec 3	18.3	17.3	15.6	13.6	8.3	14.3	13.8	12.3	13.2	13.4	12.8	12.0	12.2	11.0	9.6	12.6	10.6	8.7	9.0	7.2	6.9	6.6	7.3	10.4	6.6	18.3	11.5
Dec 4	9.4	9.8	8.8	8.1	6.9	6.3	6.7	5.7	5.0	3.8	2.6	3.1	2.1	2.4	4.0	6.1	8.0	9.6	9.7	5.6	4.9	8.0	6.6	7.7	2.1	9.8	6.3
Dec 5	8.1	8.2	9.4	9.1	9.9	7.8	6.7	8.2	5.5	3.9	7.3	7.2	8.8	8.5	9.1	1.5	3.4	3.7	6.9	11.0	14.7	16.7	7.3	13.7	1.5	16.7	8.2
Dec 6	11.1	13.0	17.7	11.2	13.2	19.2	18.1	17.9	20.8	17.6	14.7	12.2	12.9	13.5	15.7	13.5	16.0	15.3	16.9	17.6	14.1	12.7	11.7	11.9	11.1	20.8	**14.9**
Dec 7	11.9	10.7	6.0	10.6	5.6	12.7	12.6	6.6	6.0	8.2	8.8	7.0	5.3	2.7	1.0	3.8	1.8	1.0	3.0	3.4	5.5	4.5	6.8	4.8	1.0	12.7	6.3
Dec 8	2.7	3.4	4.9	1.8	1.1	3.1	2.6	2.4	1.1	3.1	2.7	4.3	3.2	5.4	4.3	3.6	6.8	8.8	10.0	7.7	6.4	6.2	3.3	3.8	1.1	10.0	4.3
Dec 9	6.5	8.8	8.5	9.8	9.1	8.9	8.1	9.2	10.8	10.2	10.1	12.2	12.2	6.1	6.5	7.3	8.9	10.3	12.6	8.9	6.4	6.0	5.7	6.5	5.7	12.6	8.7
Dec 10	6.8	6.4	6.1	5.8	5.7	5.8	6.4	6.4	4.3	5.9	6.7	5.3	3.4	4.0	5.2	6.0	3.1	3.2	2.9	6.2	6.7	7.6	7.8	5.5	2.9	7.8	5.6
Dec 11	3.9	3.3	3.7	4.8	5.4	4.5	1.8	6.5	2.5	2.8	2.5	3.9	6.1	6.5	6.3	2.0	2.1	2.9	4.4	4.2	4.7	3.0	3.3	5.0	1.8	6.5	4.0
Dec 12	4.0	4.6	4.9	1.8	1.0	2.3	4.5	4.5	3.0	5.0	3.8	4.5	4.7	6.6	5.7	5.8	5.1	5.6	7.8	4.9	4.1	4.0	6.8	9.4	1.0	9.4	4.8
Dec 13	7.2	4.6	1.8	0.6	3.4	4.9	9.3	7.4	2.5	1.4	0.5	1.6	3.8	4.4	3.2	2.2	7.7	6.5	6.6	2.8	4.1	6.9	2.1	6.4	0.5	9.3	4.2
Dec 14	5.7	9.9	11.0	12.6	13.6	13.2	14.9	14.4	14.6	12.6	14.1	14.5	11.7	12.9	15.9	15.5	15.1	15.3	13.8	13.8	13.9	10.3	10.5	13.8	5.7	15.9	13.1
Dec 15	12.6	7.7	8.0	7.7	10.5	9.9	8.5	7.3	5.2	6.4	7.1	5.8	4.2	3.7	3.0	1.9	2.1	2.4	5.7	4.8	6.5	7.3	7.3	7.0	1.9	12.6	6.4
Dec 16	4.8	7.3	6.1	4.5	4.0	3.9	2.4	3.5	4.2	2.9	4.2	4.1	6.3	6.1	6.0	7.0	3.9	2.3	1.6	3.1	5.5	8.3	7.0	6.7	1.6	8.3	4.8
Dec 17	8.4	4.2	3.4	4.9	3.6	1.3	2.4	**0.2**	2.2	2.5	2.8	1.6	2.6	2.1	1.5	3.2	3.6	2.6	3.4	5.1	4.7	5.2	5.9	5.9	**0.2**	8.4	3.5
Dec 18	7.7	6.8	6.9	7.4	10.1	10.0	11.4	12.3	12.7	11.6	10.6	10.6	7.6	6.7	4.2	2.6	3.5	2.3	1.8	0.6	0.9	1.4	0.5	1.7	0.5	12.7	6.3
Dec 19	2.0	2.1	2.0	1.8	4.7	5.3	3.9	3.5	2.1	2.2	0.6	2.1	1.1	3.5	6.3	6.4	5.7	8.0	9.0	10.2	12.1	8.5	9.2	11.1	0.6	12.1	5.1
Dec 20	8.4	7.9	6.0	5.8	3.7	4.4	7.7	10.1	8.3	6.2	2.5	4.7	6.0	6.6	7.1	7.0	4.7	8.7	4.2	5.8	6.9	9.5	7.7	1.1	1.1	10.1	6.3
Dec 21	1.6	3.6	3.5	4.4	1.8	4.2	4.0	4.9	3.7	3.9	2.4	2.3	2.5	3.4	0.9	0.8	1.6	2.3	3.3	3.0	1.7	1.5	1.4	2.9	0.8	4.9	**2.7**
Dec 22	0.5	1.7	2.6	2.0	2.5	2.9	3.5	5.2	3.0	2.7	2.2	3.4	4.2	4.0	4.4	4.0	1.4	4.6	3.6	2.8	2.8	4.1	3.5	1.7	0.5	5.2	3.1
Dec 23	3.0	1.8	1.0	0.6	1.2	2.3	2.3	0.8	2.2	1.9	3.0	8.0	11.7	13.1	16.6	18.0	18.2	18.9	15.6	17.4	15.2	12.2	9.7	6.3	0.6	18.9	8.4
Dec 24	9.0	5.9	4.3	1.8	4.3	6.3	3.6	4.6	7.4	4.6	10.8	2.8	3.1	1.6	3.2	1.5	5.8	6.9	4.1	6.3	5.7	7.8	10.6	12.8	1.5	12.8	5.6
Dec 25	17.8	14.6	14.6	14.3	11.4	17.3	**23.3**	19.0	15.2	7.2	11.0	14.3	15.9	7.9	4.8	2.7	3.5	1.7	4.0	2.9	2.3	1.6	2.2	1.2	1.2	**23.3**	9.6
Dec 26	2.3	2.2	2.9	2.7	1.5	1.9	2.9	5.3	1.1	2.9	2.7	1.5	2.8	0.9	2.2	1.7	3.4	3.8	4.6	2.9	3.1	6.1	12.8	4.4	0.9	12.8	3.3
Dec 27	2.5	4.6	4.9	3.8	4.3	1.8	2.0	0.9	3.0	2.7	1.6	2.0	2.0	1.9	2.4	5.9	6.4	11.7	6.0	2.3	5.5	5.3	7.3	7.9	0.9	11.7	4.1
Dec 28	7.4	7.4	7.2	5.8	3.9	6.6	7.3	6.1	6.1	6.6	5.6	9.5	3.5	2.4	2.2	2.7	4.3	5.4	8.1	8.1	7.2	8.1	5.2	4.0	2.2	9.5	5.9
Dec 29	5.8	2.4	1.9	5.0	4.7	2.5	2.6	3.3	1.8	1.4	0.9	1.5	5.6	5.2	2.4	2.2	4.0	7.7	7.7	6.1	7.3	7.9	6.2	7.9	0.9	7.9	4.3
Dec 30	7.9	8.3	7.7	9.3	11.3	10.3	12.4	8.0	6.2	7.6	5.8	6.0	7.2	6.5	3.3	2.6	2.7	1.0	2.9	4.1	4.8	4.5	5.6	7.1	1.0	12.4	6.4
Dec 31	5.6	6.8	5.2	6.8	6.8	5.3	4.5	4.7	5.2	6.5	6.0	5.0	5.6	6.5	5.4	3.7	3.7	3.6	2.4	4.2	5.4	4.6	4.5	2.9	2.4	6.8	5.0
Diurnal Maximum	18.3	17.3	17.7	14.3	13.6	19.2	23.3	19.0	20.8	17.6	14.7	14.5	15.9	13.5	16.6	18.0	18.2	18.9	16.9	19.8	21.3	17.9	21.2	19.2			
Diurnal Average	6.7	6.5	6.2	6.0	5.8	6.6	7.0	6.9	6.2	5.9	5.8	6.1	6.3	5.8	5.8	5.7	6.0	6.7	6.9	6.8	7.0	7.1	6.8	6.9			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.



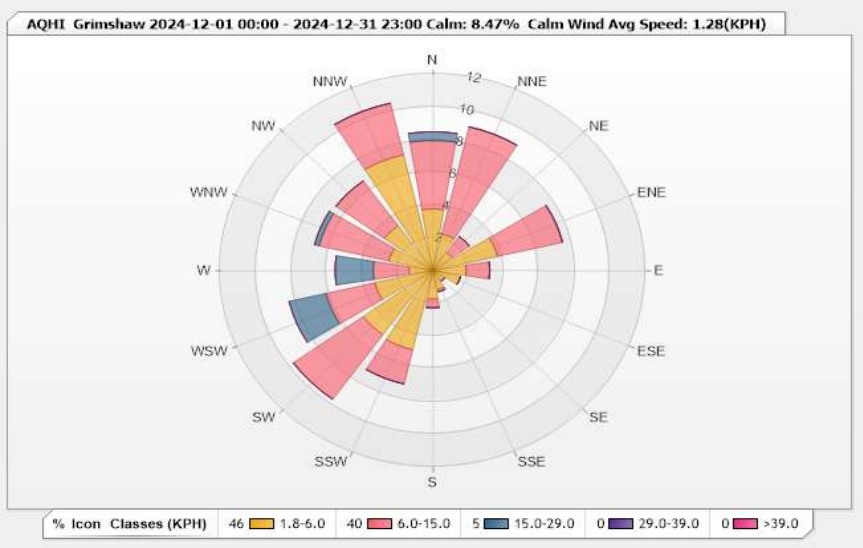


Station: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 12-2024

Type: Wind Rose
Direction: Blowing From (Wind Frequency)
Time Base: 1 - Hour

Calm (WS<1.8kph): 8.47% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	3.76	4.17	0.54	0	0	8.47
NNE	2.28	6.72	0	0	0	9
NE	1.34	1.21	0	0	0	2.55
ENE	3.76	3.76	0	0	0	7.52
E	1.88	1.34	0	0	0	3.22
ESE	1.61	0	0	0	0	1.61
SE	0.81	0	0	0	0	0.81
SSE	1.21	0.13	0	0	0	1.34
S	1.75	0.54	0	0	0	2.29
SSW	4.97	2.15	0	0	0	7.12
SW	4.84	4.84	0	0	0	9.68
WSW	3.36	2.82	2.15	0	0	8.33
W	1.34	2.02	2.15	0	0	5.51
WNW	2.55	4.03	0.27	0	0	6.85
NW	3.36	3.36	0	0	0	6.72
NNW	7.26	3.23	0	0	0	10.49
Summary	46.08	40.32	5.11	0	0	91.51



Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

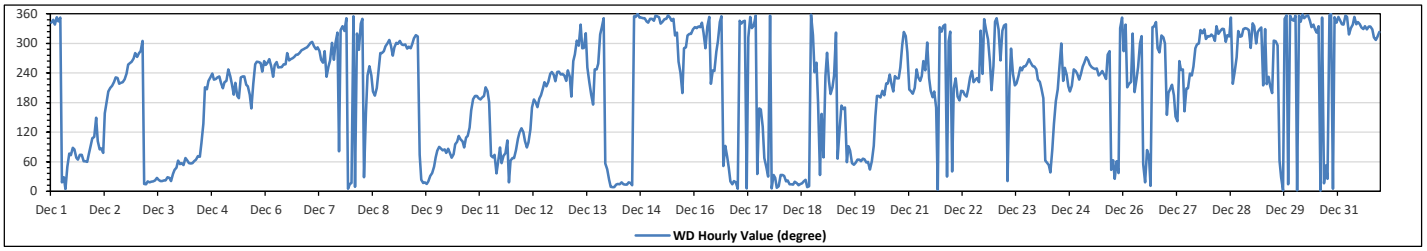
WIND DIRECTION (VWD) in sector

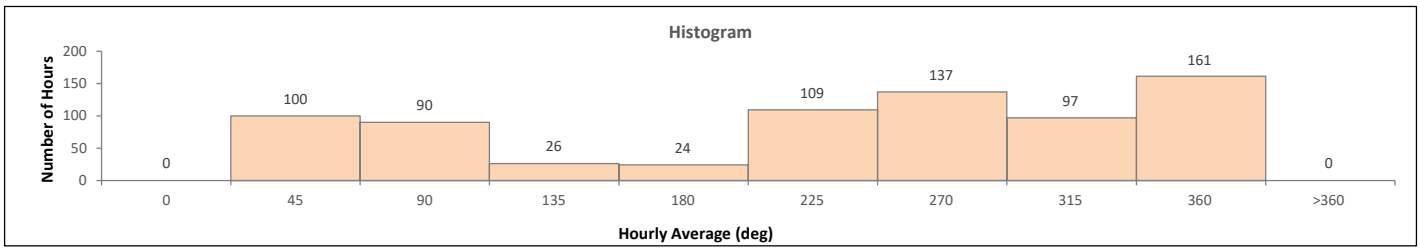
Monthly Average:	309 (NW)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Dec 1	NNW	NNW	NNW	N	NNW	N	NNE	NNE	N	NE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ESE	47	NE
Dec 2	ESE	SSE	E	E	E	ENE	SSE	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	W	209	SSW
Dec 3	W	W	WNW	WNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	15	NNE
Dec 4	NE	ENE	NE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	SE	SSW	SSW	SW	SW	WSW	SW	SW	SW	SW	SW	112	ESE
Dec 5	SSW	SW	SW	WSW	SW	SW	SSW	SW	S	S	SW	SW	SW	SW	SSW	SSW	SSE	SW	WSW	W	W	WSW	WSW	W	226	SW
Dec 6	WSW	WSW	W	WSW	SW	WSW	W	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW	267	W
Dec 7	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	SW	WSW	W	WNW	W	WNW	NW	E	NW	NNW	NW	N	N	NNE	301	WNW
Dec 8	NNE	N	N	NW	WNW	NNW	N	NNE	SSE	SW	WSW	SW	SSW	SSW	SSW	WSW	W	W	WNW	WNW	WNW	NW	WNW	W	287	WNW
Dec 9	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	ENE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE	336	NNW
Dec 10	E	E	E	E	E	ENE	E	ENE	ENE	ENE	E	E	ESE	ESE	E	E	ESE	ESE	SE	SSE	S	S	S	S	108	ESE
Dec 11	S	S	S	SSW	SSW	S	ENE	ENE	ENE	NE	ENE	E	ENE	ENE	ENE	ESE	NNE	ENE	ENE	ENE	E	ESE	ESE	SE	97	E
Dec 12	ESE	E	E	E	SE	SSE	S	S	S	S	SSW	SSW	SW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	SW	199	SSW
Dec 13	SW	WSW	SW	S	W	W	NW	WNW	NNW	WNW	WNW	NW	WSW	SW	SSW	S	WSW	WSW	WSW	NW	NNW	N	NE	NE	273	W
Dec 14	NNE	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	NNW	NNW	N	4	N
Dec 15	N	NNW	N	N	N	NNW	NNW	NNW	N	N	N	NNW	N	NW	NW	W	WSW	SSW	WNW	WNW	NW	NW	NW	NNW	328	NNW
Dec 16	NNW	NNW	NNW	NNW	NNW	NW	WNW	NNW	N	SW	WSW	WSW	W	WNW	NNW	N	NE	E	ENE	NE	NNE	NNE	NNE	NNE	344	NNW
Dec 17	N	NNW	NNW	NNW	NNW	N	NW	N	NNW	NNW	N	NE	SSE	SSE	SE	ENE	NE	NNE	N	N	NNE	NNE	N	N	9	N
Dec 18	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NW	WSW	W	S	NNE	SSE	13	NNE
Dec 19	ENE	SW	W	SW	SSW	SSW	SW	NW	ENE	ESE	S	SSE	SSE	ENE	E	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	97	E
Dec 20	ENE	ENE	NE	ENE	E	SSE	S	S	S	SSW	SSW	SW	SW	SW	SW	SSW	SW	SW	SW	WSW	WNW	NW	NW	W	220	SW
Dec 21	SSW	SSW	SSW	SSW	WSW	SW	SW	SW	W	WSW	WNW	SW	SSW	S	SSW	SSE	N	NNW	NW	NNW	NNW	NNE	WNW	NW	253	WSW
Dec 22	NE	SSW	SW	S	S	SSW	SSW	SSW	S	SSW	SW	WSW	SW	SW	SW	SW	NW	SW	NNW	NW	NW	W	SSW	WSW	231	SW
Dec 23	NNW	N	NNW	W	NW	NNW	NNW	NNE	SSW	WNW	SW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	271	W
Dec 24	SW	SW	SSW	S	ENE	ENE	NE	NE	E	SE	S	SSW	WSW	WNW	SW	WSW	SW	SSW	SSW	SSW	WSW	WSW	SW	SW	216	SW
Dec 25	SW	WSW	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	SW	SW	W	WNW	NE	ENE	NNE	ENE	NE	NNW	N	271	W
Dec 26	WNW	NNW	SSW	SW	SW	NW	SSW	SW	WSW	WNW	NW	NE	NNE	E	ENE	NNE	NNW	NNW	NNW	WNW	W	NW	NW	WNW	306	NW
Dec 27	SSE	SSW	SSW	SW	SSW	SSE	SE	W	WSW	WSW	SSE	SSW	SSW	WSW	SW	WSW	WNW	WNW	WNW	NW	NW	NNW	NW	NW	243	WSW
Dec 28	NW	NW	NW	WNW	NNW	NW	NW	NNW	NNW	WNW	NW	NW	N	SW	WSW	W	NW	NW	NW	NNW	NNW	NNW	NW	WNW	313	NW
Dec 29	NNW	NNW	WNW	NW	NNW	NNW	SSW	NNW	SW	SW	SSW	SSW	NW	WNW	WNW	ENE	NNE	N	N	N	NNE	N	NNW	NNW	325	NW
Dec 30	N	N	N	NNW	N	N	N	N	NNW	NNW	NNW	NNW	NW	NNW	N	N	NNE	NE	NNE	N	N	N	N	NNW	354	N
Dec 31	N	NNW	NNW	NNW	N	N	NW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	334	NNW

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	ND	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.





Peace River Area Monitoring Program

AQHI - Grimshaw Station - December 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	23.3	kph	on Dec 25 at hr 6	Hours in Service:	744
Maximum Daily Value:	14.9	kph	on Dec 6	Hours of Data:	744
Minimum Hourly Value:	0.2	kph	on Dec 17 at hr 7	Hours of Missing Data:	0
Minimum Daily Value:	2.7	kph	on Dec 21	Hours of Calibration:	0
Monthly Average:	6.4	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 309 degree (NW)

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			
Dec 1	3.9	4.4	3.6	3.3	2.5	3.3	2.3	2.4	2.4	3.4	4.1	4.4	6.2	6.1	6.5	7.3	6.8	7.7	6.5	6.6	6.2	5.9	4.5	3.1	2.3	7.7	4.7
	NNW	NNW	NNW	N	NNW	N	NNE	NNE	N	NE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ESE			47(NE)
Dec 2	2.0	3.3	1.5	3.4	3.4	1.8	4.3	9.7	11.6	11.0	10.2	10.4	10.3	9.0	11.2	14.2	12.7	14.5	16.7	19.8	21.3	17.9	21.2	19.2	1.5	21.3	10.9
	ESE	SSE	E	E	E	ENE	SSE	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	W			209(SSW)
Dec 3	18.3	17.3	15.6	13.6	8.3	14.3	13.8	12.3	13.2	13.4	12.8	12.0	12.2	11.0	9.6	12.6	10.6	8.7	9.0	7.2	6.9	6.6	7.3	10.4	6.6	18.3	11.5
	W	W	WNW	WNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	ENE			15(NNE)
Dec 4	9.4	9.8	8.8	8.1	6.9	6.3	6.7	5.7	5.0	3.8	2.6	3.1	2.1	2.4	4.0	6.1	8.0	9.6	9.7	5.6	4.9	8.0	6.6	7.7	2.1	9.8	6.3
	NE	ENE	NE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	SE	SSW	SSW	SW	SW	WSW	SW	SW	SW	SW	SW			112(ESE)
Dec 5	8.1	8.2	9.4	9.1	9.9	7.8	6.7	8.2	5.5	3.9	7.3	7.2	8.8	8.5	9.1	1.5	3.4	3.7	6.9	11.0	14.7	16.7	7.3	13.7	1.5	16.7	8.2
	SSW	SW	SW	WSW	SW	SW	SSW	SW	S	S	SW	SW	SW	SW	SSW	SSW	SSE	SW	WSW	W	W	WSW	WSW	W			226(SW)
Dec 6	11.1	13.0	17.7	11.2	13.2	19.2	18.1	17.9	20.8	17.6	14.7	12.2	12.9	13.5	15.7	13.5	16.0	15.3	16.9	17.6	14.1	12.7	11.7	11.9	11.1	20.8	**14.9**
	WSW	WSW	W	WSW	SW	WSW	W	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW			267(W)
Dec 7	11.9	10.7	6.0	10.6	5.6	12.7	12.6	6.6	6.0	8.2	8.8	7.0	5.3	2.7	1.0	3.8	1.8	1.0	3.0	3.4	5.5	4.5	6.8	4.8	1.0	12.7	6.3
	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	SW	WSW	W	WNW	W	WNW	NW	E	NW	NNW	NW	N	N	NNE			301(WNW)
Dec 8	2.7	3.4	4.9	1.8	1.1	3.1	2.6	2.4	1.1	3.1	2.7	4.3	3.2	5.4	4.3	3.6	6.8	8.8	10.0	7.7	6.4	6.2	3.3	3.8	1.1	10.0	4.3
	NNE	N	N	NW	WNW	NNW	N	NNE	SSE	SW	WSW	SW	SSW	SSW	SSW	WSW	W	W	WNW	WNW	WNW	NW	WNW	W			287(WNW)
Dec 9	6.5	8.8	8.5	9.8	9.1	8.9	8.1	9.2	10.8	10.2	10.1	12.2	12.2	6.1	6.5	7.3	8.9	10.3	12.6	8.9	6.4	6.0	5.7	6.5	5.7	12.6	8.7
	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	ENE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE			336(NNW)
Dec 10	6.8	6.4	6.1	5.8	5.7	5.8	6.4	6.4	4.3	5.9	6.7	5.3	3.4	4.0	5.2	6.0	3.1	3.2	2.9	6.2	6.7	7.6	7.8	5.5	2.9	7.8	5.6
	E	E	E	E	E	ENE	E	ENE	ENE	ENE	E	E	ESE	ESE	E	E	ESE	ESE	SE	SSE	S	S	S	S			108(ESE)
Dec 11	3.9	3.3	3.7	4.8	5.4	4.5	1.8	6.5	2.5	2.8	2.5	3.9	6.1	6.5	6.3	2.0	2.1	2.9	4.4	4.2	4.7	3.0	3.3	5.0	1.8	6.5	4.0
	S	S	S	SSW	SSW	S	ENE	ENE	ENE	NE	ENE	E	ENE	ENE	ENE	ESE	NNE	ENE	ENE	ENE	E	ESE	ESE	SE			97(E)
Dec 12	4.0	4.6	4.9	1.8	1.0	2.3	4.5	4.5	3.0	5.0	3.8	4.5	4.7	6.6	5.7	5.8	5.1	5.6	7.8	4.9	4.1	4.0	6.8	9.4	1.0	9.4	4.8
	ESE	E	E	E	SE	SSE	S	S	S	S	SSW	SSW	SW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	SW			199(SSW)
Dec 13	7.2	4.6	1.8	0.6	3.4	4.9	9.3	7.4	2.5	1.4	0.5	1.6	3.8	4.4	3.2	2.2	7.7	6.5	6.6	2.8	4.1	6.9	2.1	6.4	0.5	9.3	4.2
	SW	WSW	SW	S	W	W	NW	WNW	NNW	WNW	WNW	NW	WSW	SW	SSW	S	WSW	WSW	WSW	NW	NNW	N	NE	NE			273(W)
Dec 14	5.7	9.9	11.0	12.6	13.6	13.2	14.9	14.4	14.6	12.6	14.1	14.5	11.7	12.9	15.9	15.5	15.1	15.3	13.8	13.8	13.9	10.3	10.5	13.8	5.7	15.9	13.1
	NNE	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	NNW	NNW	N			4(N)
Dec 15	12.6	7.7	8.0	7.7	10.5	9.9	8.5	7.3	5.2	6.4	7.1	5.8	4.2	3.7	3.0	1.9	2.1	2.4	5.7	4.8	6.5	7.3	7.3	7.0	1.9	12.6	6.4
	N	NNW	N	N	N	NNW	NNW	NNW	N	N	N	NNW	N	NW	NW	W	WSW	SSW	WNW	WNW	NW	NW	NW	NNW			328(NNW)
Dec 16	4.8	7.3	6.1	4.5	4.0	3.9	2.4	3.5	4.2	2.9	4.2	4.1	6.3	6.1	6.0	7.0	3.9	2.3	1.6	3.1	5.5	8.3	7.0	6.7	1.6	8.3	4.8
	NNW	NNW	NNW	NNW	NNW	NW	WNW	NNW	N	SW	WSW	WSW	W	WNW	NNW	N	NE	E	ENE	NE	NNE	NNE	NNE	NNE			344(NNW)
Dec 17	8.4	4.2	3.4	4.9	3.6	1.3	2.4	**0.2**	2.2	2.5	2.8	1.6	2.6	2.1	1.5	3.2	3.6	2.6	3.4	5.1	4.7	5.2	5.9	5.9	**0.2**	8.4	3.5
	N	NNW	NNW	NNW	NNW	N	NW	N	NNW	NNW	N	NE	SSE	SSE	SE	ENE	NE	NNE	N	N	NNE	NNE	N	N			9(N)
Dec 18	7.7	6.8	6.9	7.4	10.1	10.0	11.4	12.3	12.7	11.6	10.6	10.6	7.6	6.7	4.2	2.6	3.5	2.3	1.8	0.6	0.9	1.4	0.5	1.7	0.5	12.7	6.3
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NW	WSW	W	S	NNE	SSE			13(NNE)
Dec 19	2.0	2.1	2.0	1.8	4.7	5.3	3.9	3.5	2.1	2.2	0.6	2.1	1.1	3.5	6.3	6.4	5.7	8.0	9.0	10.2	12.1	8.5	9.2	11.1	0.6	12.1	5.1
	ENE	SW	W	SW	SSW	SSW	SW	NW	ENE	ESE	S	SSE	SSE	ENE	E	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE			97(E)
Dec 20	8.4	7.9	6.0	5.8	3.7	4.4	7.7	10.1	8.3	6.2	2.5	4.7	6.0	6.6	7.1	7.0	4.7	8.7	4.2	5.8	6.9	9.5	7.7	1.1	1.1	10.1	6.3
	ENE	ENE	NE	ENE	E	SSE	S	S	S	SSW	SSW	SW	SW	SW	SW	SSW	SW	SW	SW	WSW	WNW	NW	NW	W			220(SW)
Dec 21	1.6	3.6	3.5	4.4	1.8	4.2	4.0	4.9	3.7	3.9	2.4	2.3	2.5	3.4	0.9	0.8	1.6	2.3	3.3	3.0	1.7	1.5	1.4	2.9	0.8	4.9	**2.7**
	SSW	SSW	SSW	SSW	WSW	SW	SW	SW	W	WSW	WNW	SW	SSW	S	SSW	SSE	N	NNW	NW	NNW	NNW	NNE	WNW	NW			253(WSW)
Dec 22	0.5	1.7	2.6	2.0	2.5	2.9	3.5	5.2	3.0	2.7	2.2	3.4	4.2	4.0	4.4	4.0	1.4	4.6	3.6	2.8	2.8	4.1	3.5	1.7	0.5	5.2	3.1
	NE	SSW	SW	S	S	SSW	SSW	SSW	S	SSW	SW	WSW	SW	SW	SW	SW	NW	SW	NNW	NW	NW	W	SSW	WSW			231(SW)
Dec 23	3.0	1.8	1.0	0.6	1.2	2.3	2.3	0.8	2.2	1.9	3.0	8.0	11.7	13.1	16.6	18.0	18.2	18.9	15.6	17.4	15.2	12.2	9.7	6.3	0.6	18.9	8.4
	NNW	N	NNW	W	NW	NNW	NNW	NNE	SSW	WNW	SW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW			271(W)
Dec 24	9.0	5.9	4.3	1.8	4.3	6.3	3.6	4.6	7.4	4.6	10.8	2.8	3.1	1.6	3.2	1.5	5.8	6.9	4.1	6.3	5.7	7.8	10.6	12.8	1.5	12.8	5.6
	SW	SW	SSW	S	ENE	ENE	NE	NE	E	SE	S	SSW	WSW	WNW	SW	WSW	SW	SSW	SSW	SSW	WSW	WSW	SW	SW			216(SW)
Dec 25	17.8	14.6	14.6	14.3	11.4	17.3	**23.3**	19.0	15.2	7.2	11.0	14.3	15.9	7.9	4.8	2.7	3.5	1.7	4.0	2.9	2.3	1.6	2.2	1.2	1.2	**23.3**	9.6
	SW	WSW	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	SW	SW	W	WNW	NE	ENE	NNE	ENE	NE	NNW	N			271(W)
Dec 26	2.3	2.2	2.9	2.7	1.5	1.9	2.9	5.3	1.1	2.9	2.7	1.5	2.8	0.9	2.2	1.7	3.4	3.8	4.6	2.9	3.1	6.1	12.8	4.4	0.9	12.8	3.3
	WNW	NNW	SSW	SW	SW	NW	SSW	SW	WSW	WNW	NW	NE	NNE	E	ENE	NNE	NNW	NNW	NNW	WNW	W	NW	NW	WNW			306(NW)
Dec 27	2.5	4.6	4.9	3.8	4.3	1.8	2.0	0.9	3.0	2.7	1.6	2.0	2.0	1.9	2.4	5.9	6.4	11.7	6.0	2.3	5.5	5.3	7.3	7.9	0.9	11.7	4.1
	SSE	SSW	SSW	SW	SSW	SSE	SE	W	WSW	WSW	SSE	SSW	SSW	WSW	SW	WSW	WNW	WNW	WNW	NW	NW	NNW	NW	NW			243(WSW)
Dec 28	7.4	7.4	7.2	5.8	3.9	6.6	7.3	6.1	6.1	6.6	5.6	9.5	3.5	2.4	2.2	2.7	4.3	5.4	8.1	8.1	7.2	8.1	5.2	4.0	2.2	9.5	5.9
	NW	NW	NW	WNW	NNW	NW	NW	NNW	NNW	WNW	NW	NW	N	SW	WSW	W	NW	NW	NW	NNW	NNW	NNW	NW	WNW			313(NW)
Dec 29	5.8	2.4	1.9	5.0	4.7	2.5	2.6	3.3	1.8	1.4	0.9	1.5	5.6	5.2	2.4	2.2	4.0	7.7	7.7	6.1	7.3	7.9	6.2	7.9	0.9	7.9	4.3
	NNW	NNW	WNW	NW	NNW	NNW	SSW	NNW	SW	SW	SSW	SSW	NW	WNW	WNW	ENE	NNE	N	N	N	NNE	N	NNW	NNW			325(NW)
Dec 30	7.9	8.3	7.7	9.3	11.3	10.3	12.4	8.0	6.2	7.6	5.8	6.0	7.2	6.5	3.3	2.6	2.7	1.0	2.9	4.1	4.8	4.5	5.6	7.1	1.0	12.4	6.4
	N	N	N	NNW	N	N	N	N	NNW	NNW	NNW	NNW	NW	NNW	N	N	NNE	NE	NNE	N	N	N	N	NNW			354(N)
Dec 31	5.6	6.8	5.2	6.8	6.8	5.3	4.5	4.7	5.2	6.5	6.0	5.0	5.6	6.5	5.4	3.7	3.7	3.6	2.4	4.2	5.4	4.6	4.5	2.9	2.4	6.8	5.0
	N	NNW	NNW	NNW	N	N	NW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW			334(NNW)

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance		
K	Collection Error	ND	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, 150 of 150, ends the December 2024 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

DECEMBER 2024

Ambient Air Monitoring Calibration Report

- 842-B STATION-

CAL-PRAMP-202412-01561

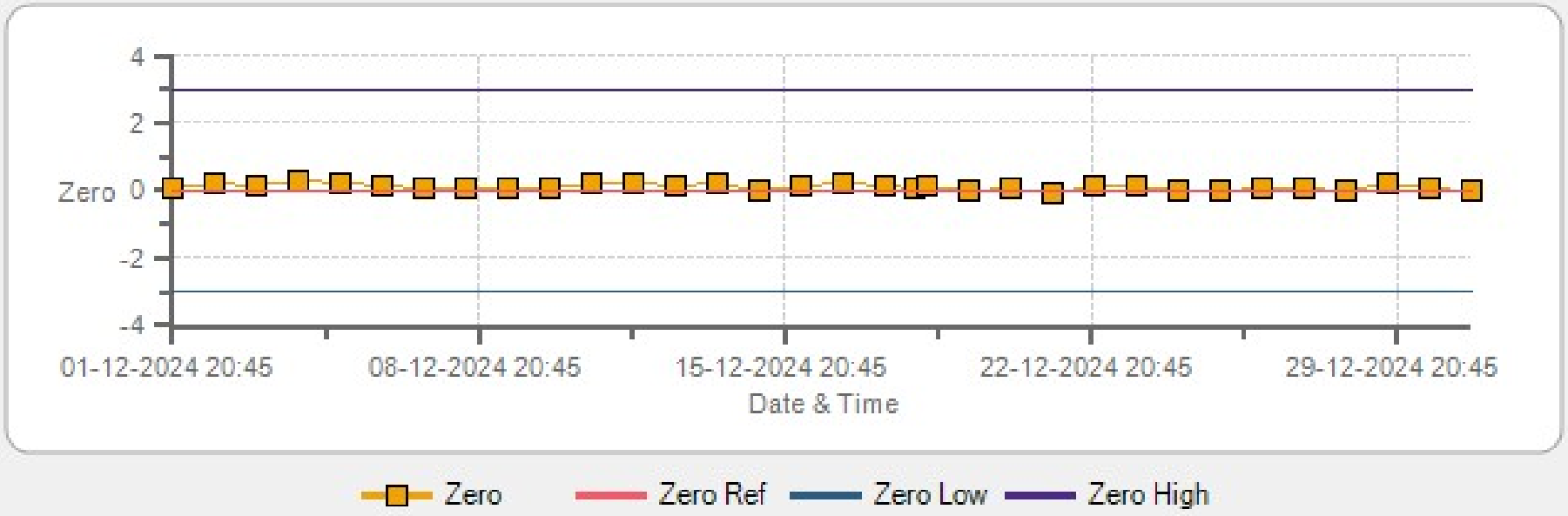
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

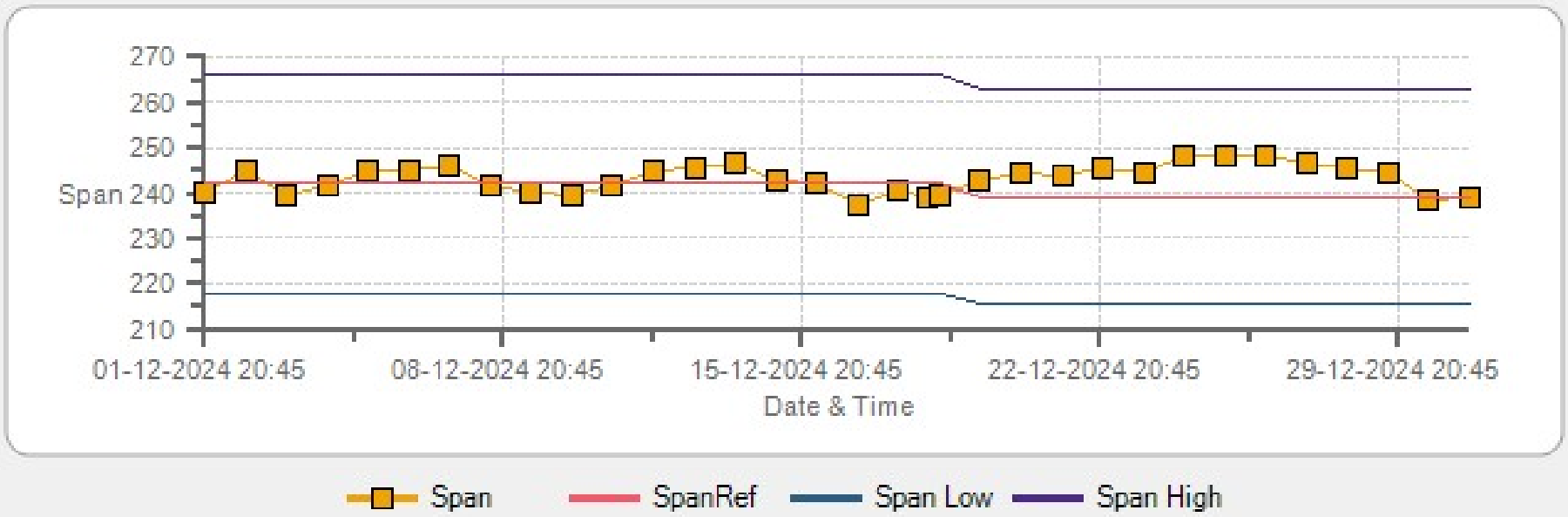
January 13, 2025

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

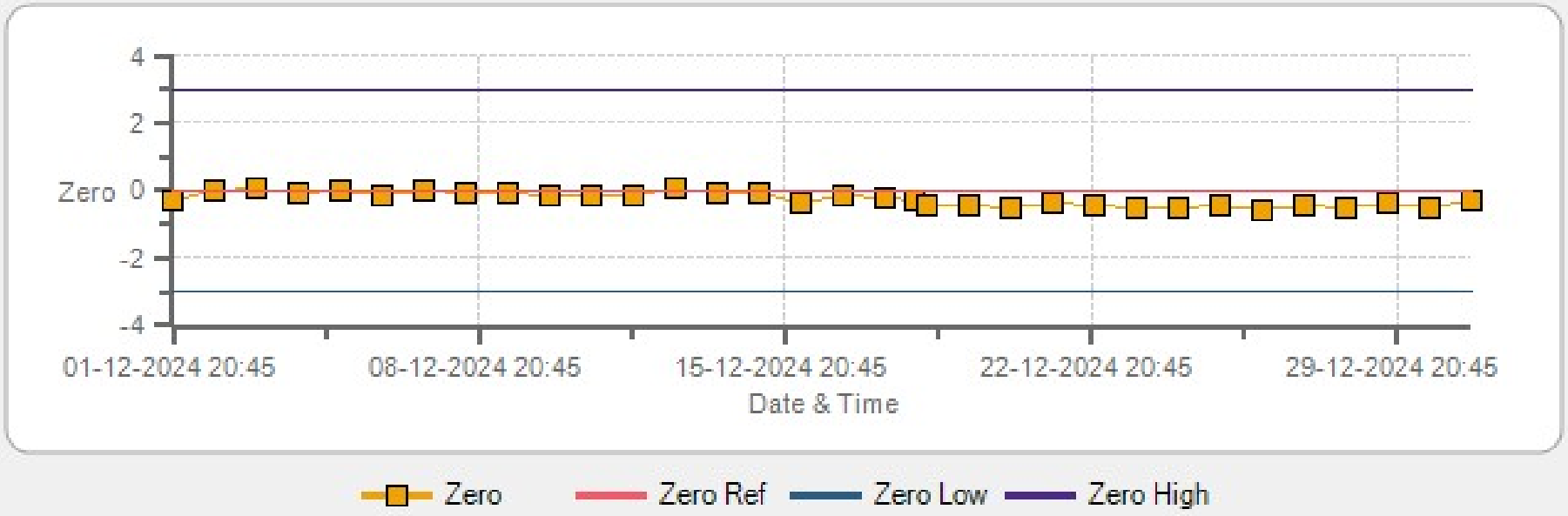
SO2[ppb] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Zero



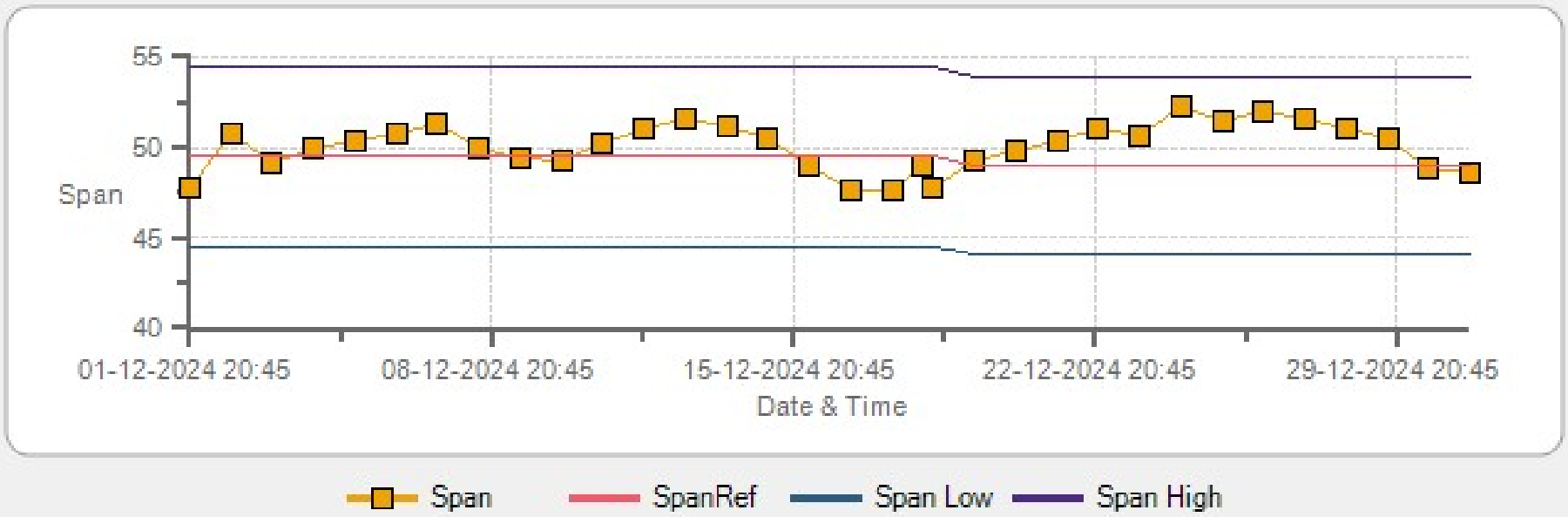
SO2[ppb] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Span



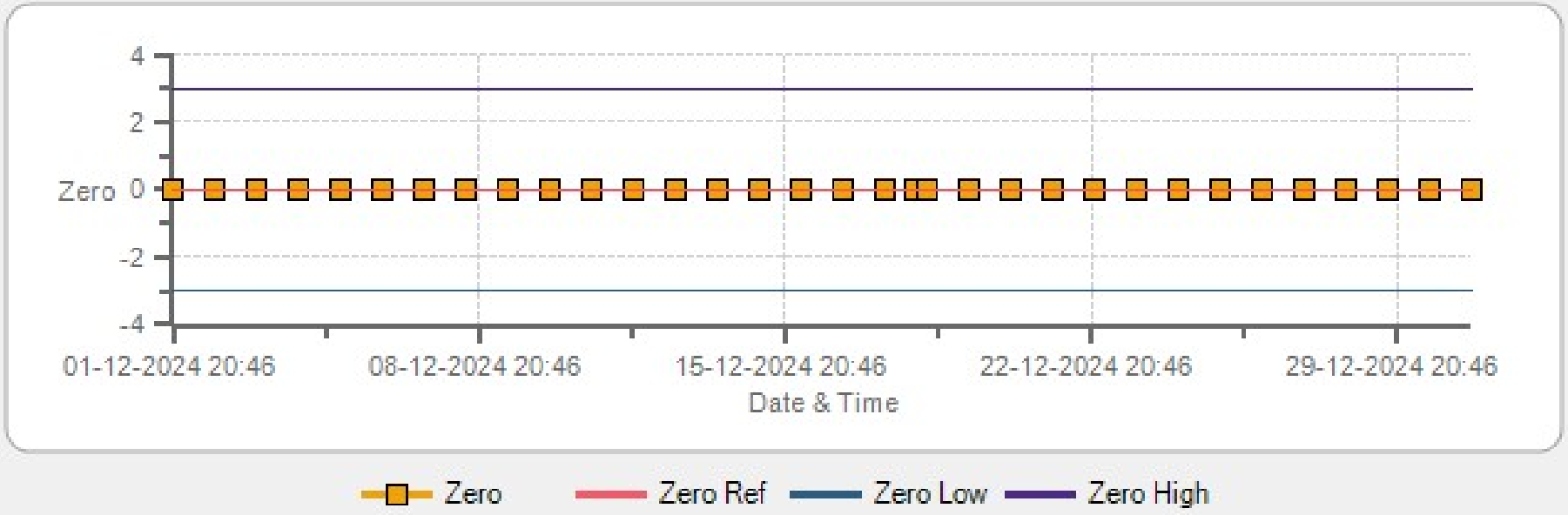
TRS[ppb] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Zero



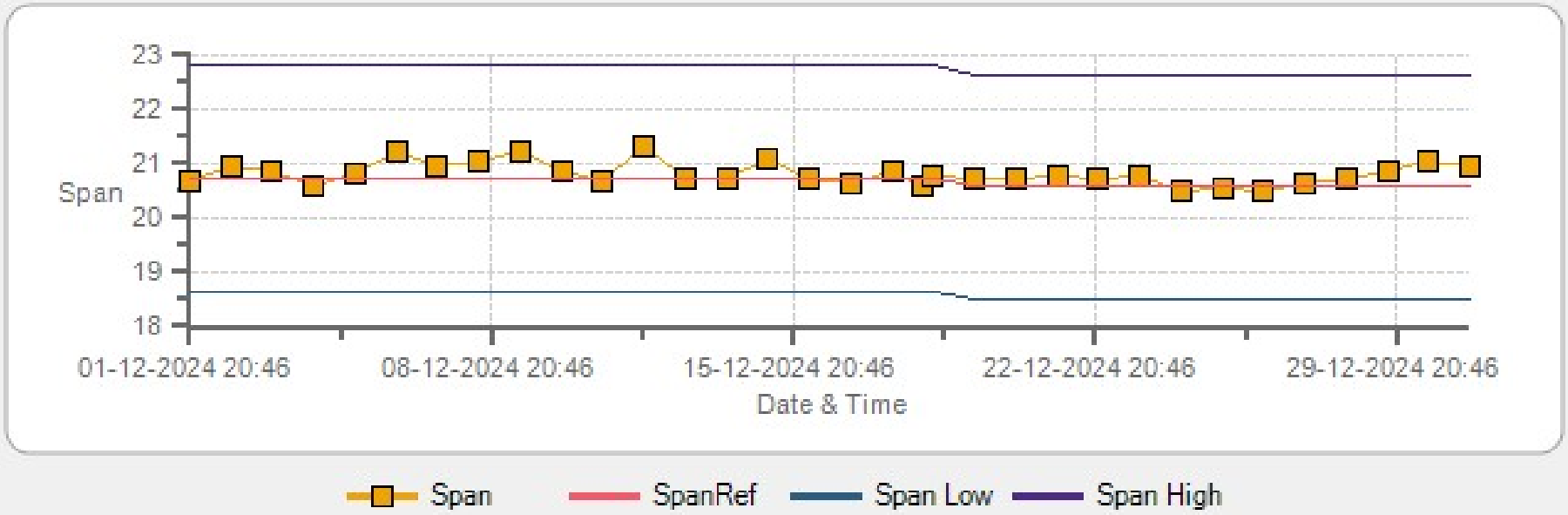
TRS[ppb] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Span



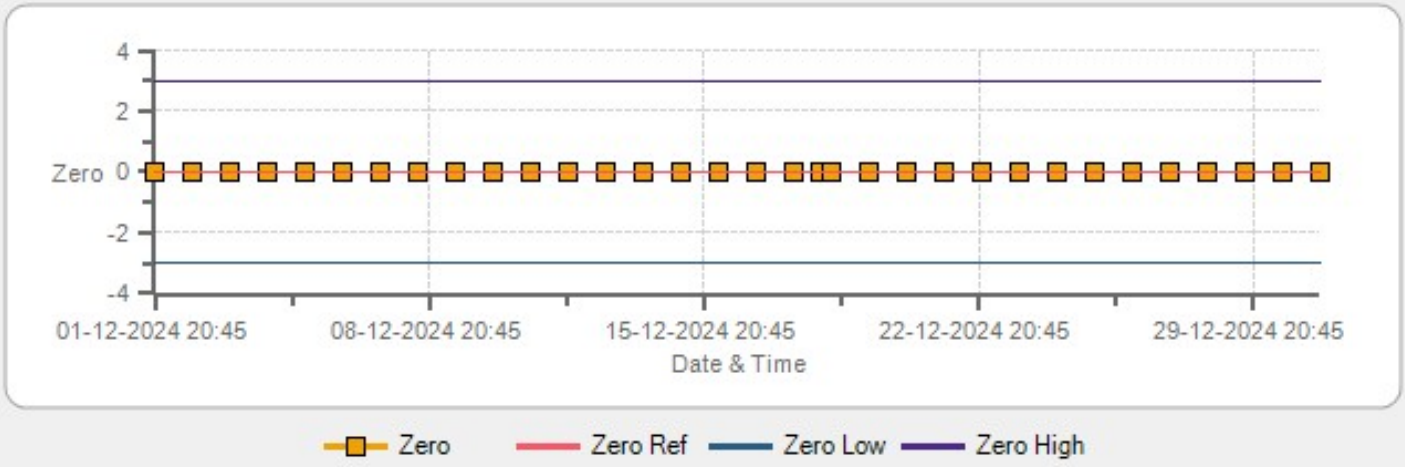
THC55[ppm] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Zero



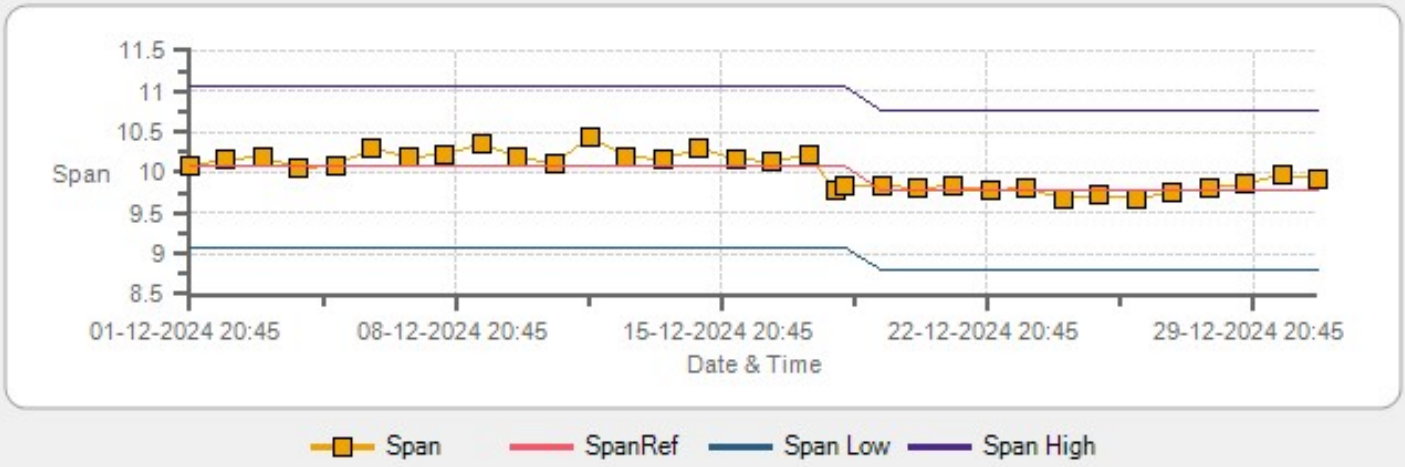
THC55[ppm] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Span



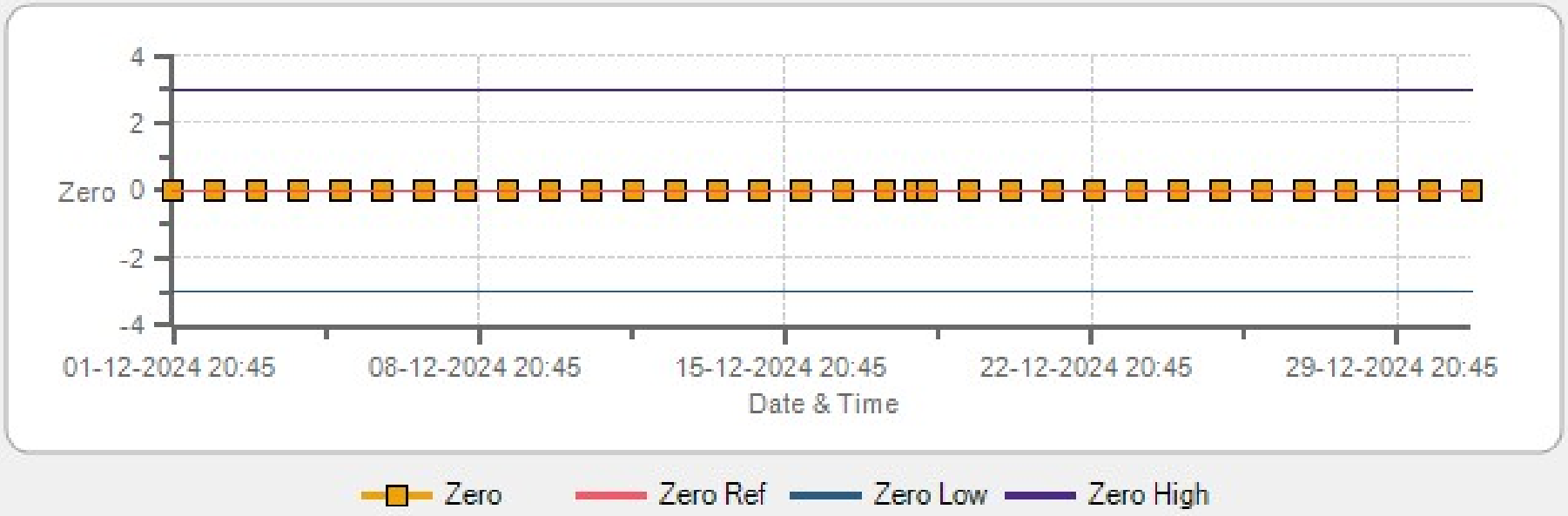
CH4[ppm] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Zero



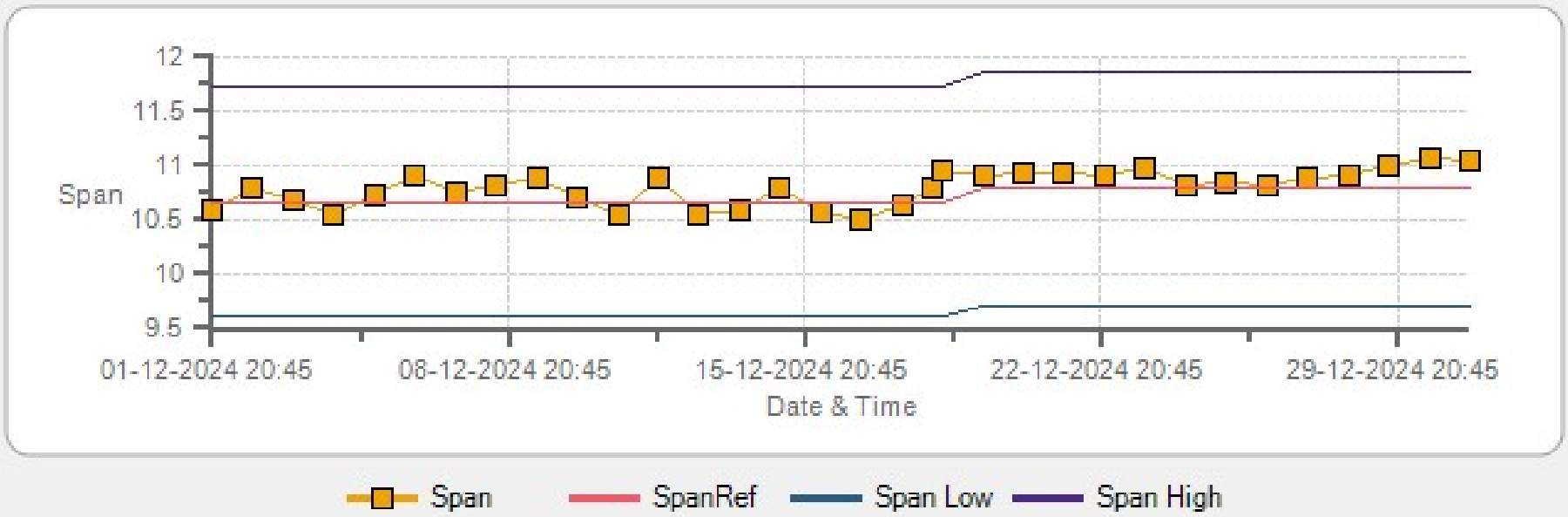
CH4[ppm] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 12-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	18-Dec-2024	PREVIOUS CALIBRATION DATE:	05-Nov-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	21.3
LOCATION:	842b	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	16:12
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	20:28

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	427
INITIAL		FINAL	
BKG/OFFSET	9	BKG/OFFSET	9.1
COEF/SLOPE	1.134	COEF/SLOPE	1.137
Expected (reference) Value	242.1	Expected (reference) Value	239.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002518	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1700	LOW ID	n/a
EXPIRY DATE	14-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:

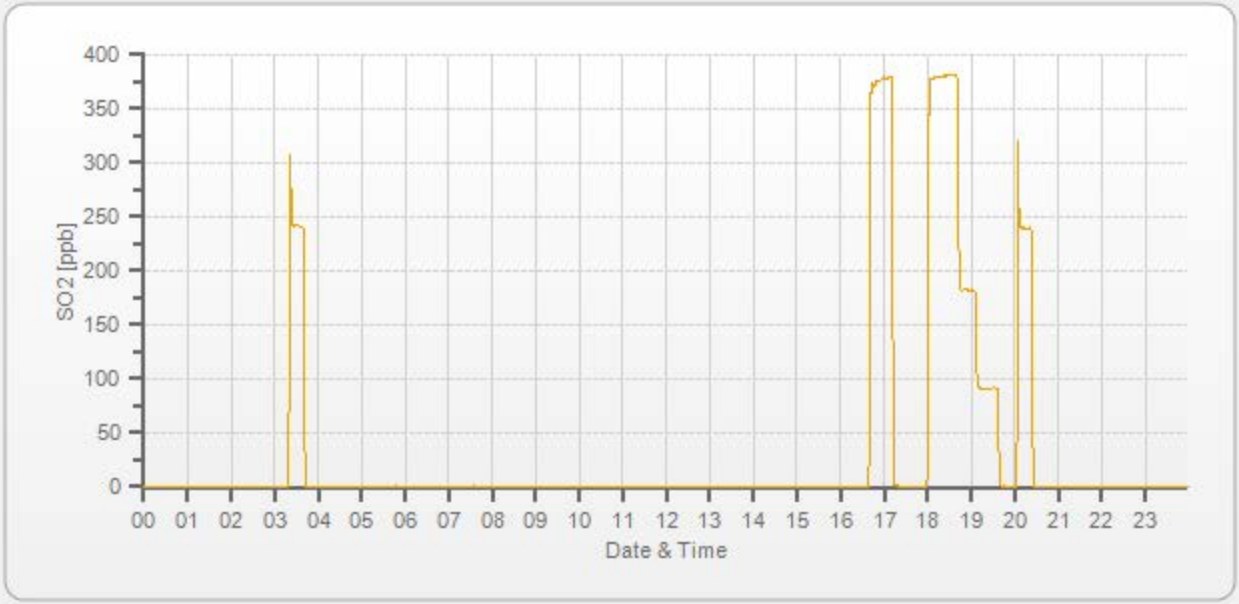
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	0.11	0		
3938	60.60	3999	380.36	379.1	381.2	1.004	0.998
3970	28.70	3999	180.14	n/a	182.4	n/a	0.988
3986	14.40	4000	90.36	n/a	91.5	n/a	0.988

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.2%

COMMENTS:

Sample Filter Changed


SO2[ppb] Station: PRAMP 842-B Daily: 2024-12-18 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
400
350
300
250
200
150
100
50
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	18-Dec-2024	PREVIOUS CALIBRATION DATE:	05-Nov-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	21.3
LOCATION:	842b	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	16:12
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	20:28

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	380
INITIAL		FINAL	
BKG/OFFSET	16.4	BKG/OFFSET	16
COEF/SLOPE	0.948	COEF/SLOPE	0.949
Expected (reference) Value	49.5	Expected (reference) Value	49

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	800	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	0.11	0		
3968	30.90	3999	77.96	76.41	78.26	1.022	0.996
3984	15.10	3999	38.10	n/a	38.97	n/a	0.978
3993	7.50	4000	18.92	n/a	19.87	n/a	0.952

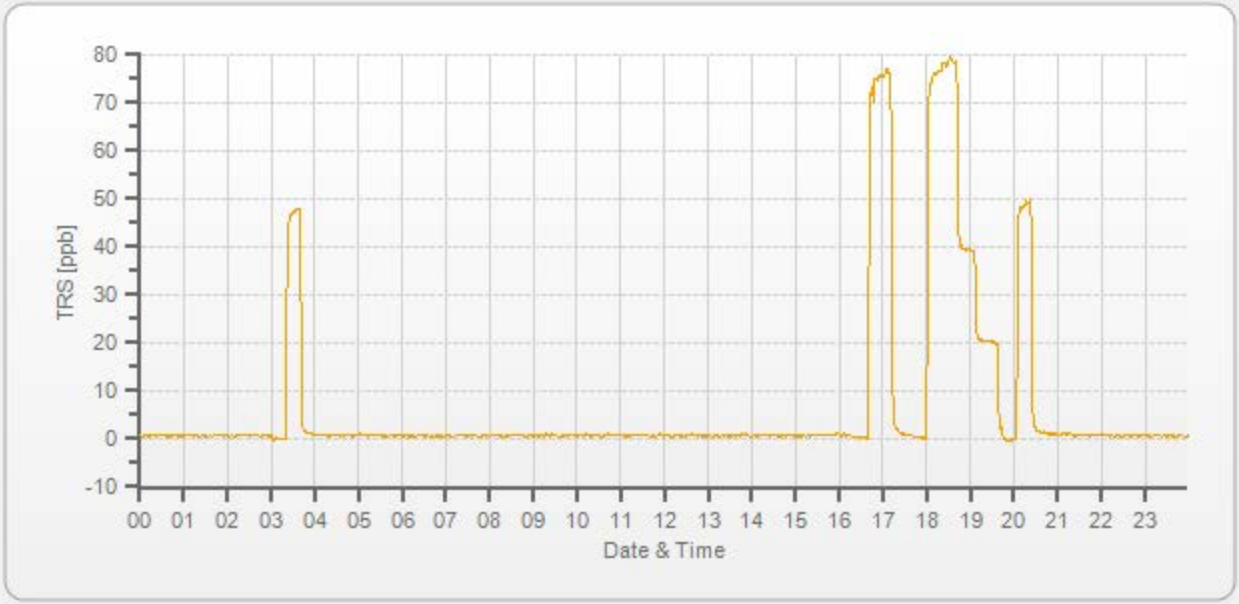
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.5%

COMMENTS:

Sample Filter Changed
TRS Converter CDNOVA CDN #552

TRS[ppb] Station: PRAMP 842-B Daily: 2024-12-18 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	18-Dec-2024	PREVIOUS CALIBRATION DATE:	05-Nov-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	21.3
LOCATION:	842b	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	16:12
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	20:29

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12208316589	1096
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	1.001	1.001

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	Yes

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.07	10.67	20.73		9.78	10.79	20.57

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3501		3501	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3443	56.80	3500	14.56	13.43	27.99	14.90	13.33	28.23	14.55	13.47	28.03	0.977	1.008	0.992	1.000	0.997	0.999
3473	28.40	3501	7.28	6.71	13.99	n/a	n/a	n/a	7.28	6.73	14.01	n/a	n/a	n/a	1.000	0.998	0.999
3488	14.20	3502	3.64	3.36	6.99	n/a	n/a	n/a	3.63	3.39	7.02	n/a	n/a	n/a	1.002	0.990	0.996

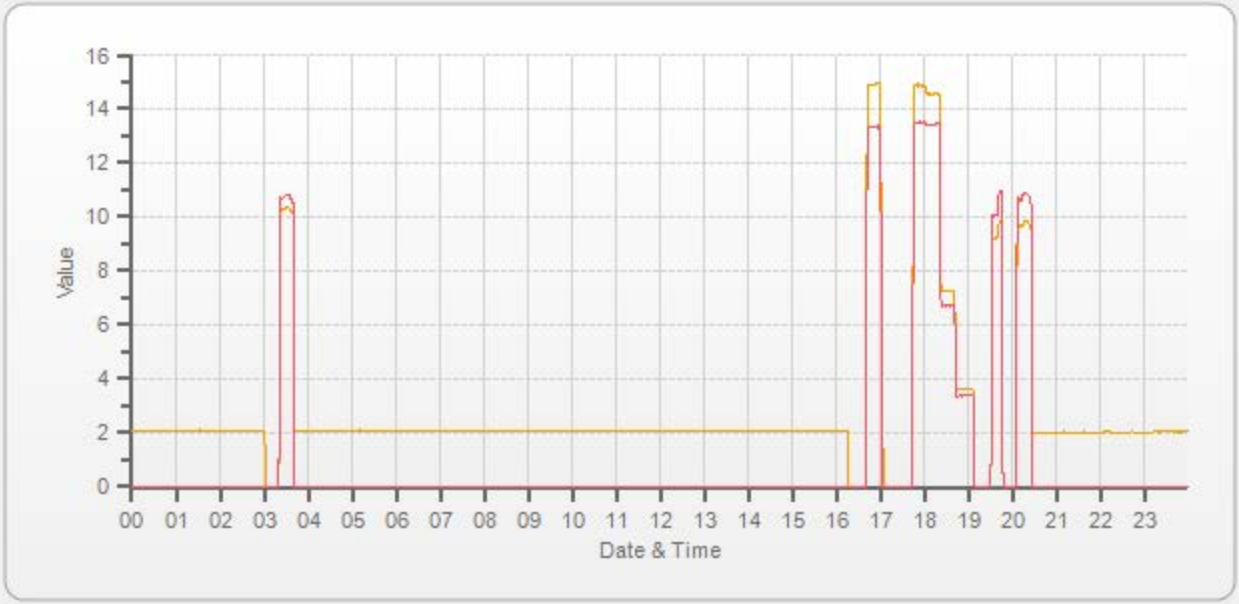
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.0%
NMHC	1.000	1.002	0.0%
THC	1.000	1.001	0.0%

Comments:

Sample filter changed

Station: PRAMP 842-B Daily: 2024-12-18 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	December 18, 2024		
Technician:	Kevin Sebastian		
Station:	PRAMP 842b		
Unit:	**Make:**	**Model:**	**Serial #:**
Precipitation Sampler:	RM Young	52202	TB 15878
Temperature Sensor:	Rotronic	HC2A-S3	24010202
Barometric Pressure Sensor:	MetOne	92	Y23362
Relative Humidity Sensor:	Rotronic	HC2A-S3	24010202
Anemometer:	RM Young	05305AQ	174802
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	November 5, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 181341226 expires July 24, 2025		
Reference Temperature (°C):	-19.5		
Station - Ambient Temperature (°C):	-19.5		
Temperature Difference (°C):	0.0		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	November 5, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 24,2025		
Reference Pressure - Units/Reading:	millibar	947	
Station Pressure - Units/Reading:	millibar	948	
Pressure Tolerance +/- 15% of error:	805 - 1089	-0.11%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	November 5, 2024		
Reference Hygrometer ID:	F.S. 181341226 expires July 24, 2025		
Reference Hygrometer % RH- Reading:	76.10		
Station Hygrometer % RH- Reading:	79.90		
RH Tolerance +/- 15% of difference:	64.69 - 87.52	-5.0%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	1.6	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass

Comments

Precip gauge not checked (winter conditions)

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	842b	**Reviewed By:**	Limin Li
Audit Date:	August 22, 2024	**Start/End Time (mst):**	14:11 - 15:14
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:	August 3, 2023	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	354	1.0	1.0	1.0
30	330	28	333	2.0	-3.0	2.5
60	300	57	305	3.0	-5.0	4.0
90	270	86	275	4.0	-5.0	4.5
120	240	115	244	5.0	-4.0	4.5
150	210	145	209	5.0	1.0	3.0
180	180	177	178	3.0	2.0	2.5
210	150	208	147	2.0	3.0	2.5
240	120	242	116	-2.0	4.0	3.0
270	90	275	86	-5.0	4.0	4.5
300	60	304	57	-4.0	3.0	3.5
330	30	332	28	-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=**		**3.0**

Comments:

Declination = 15 deg East
Horizontal bearings replaced
Potentiometer noisy. Replacement required.

END OF REPORT

Peace River Area Monitoring Program

DECEMBER 2024

Ambient Air Monitoring Calibration Report

- 986-C STATION-

CAL-PRAMP-202412-01562

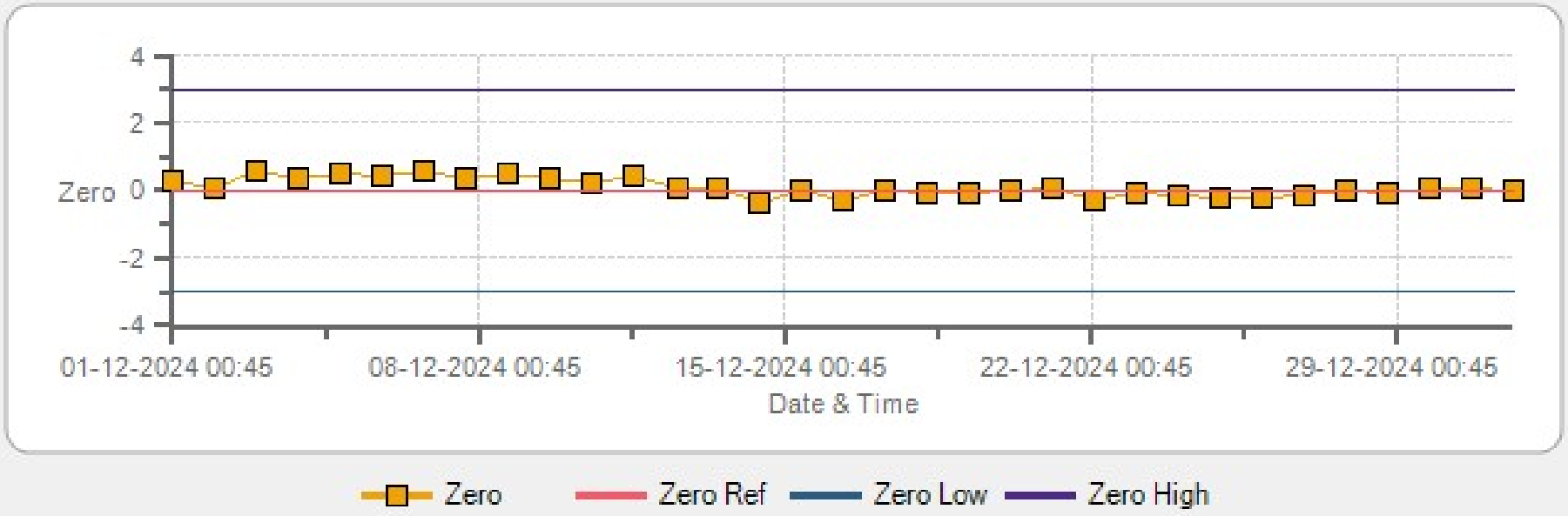
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

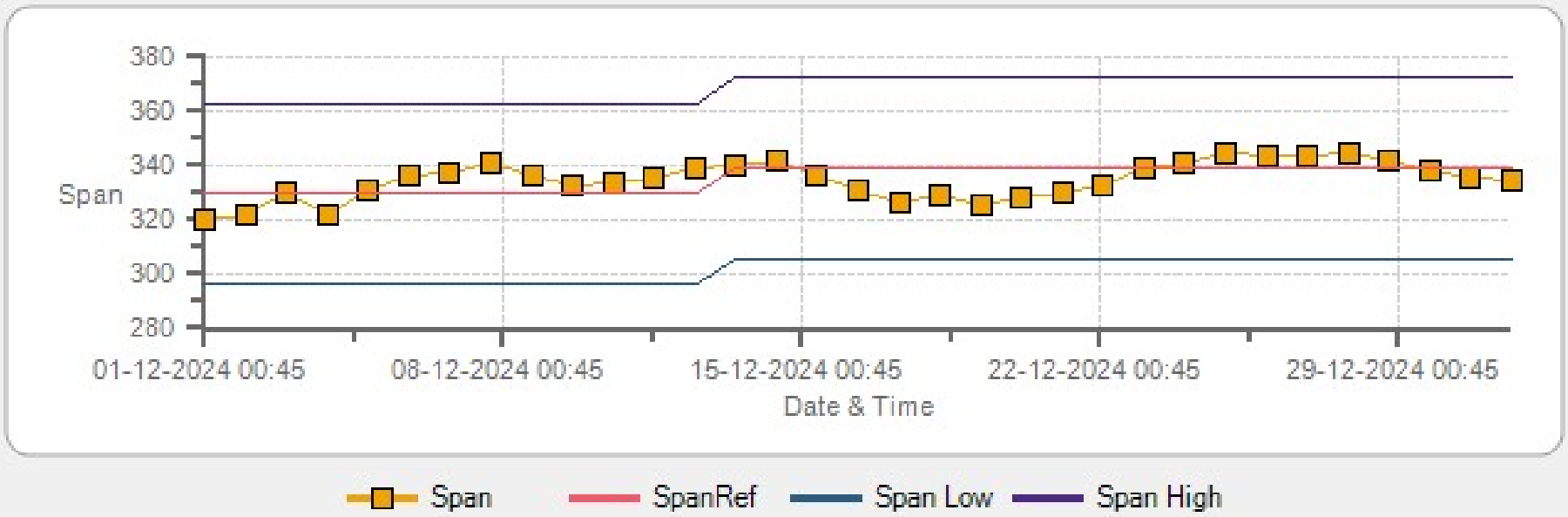
January 2, 2025

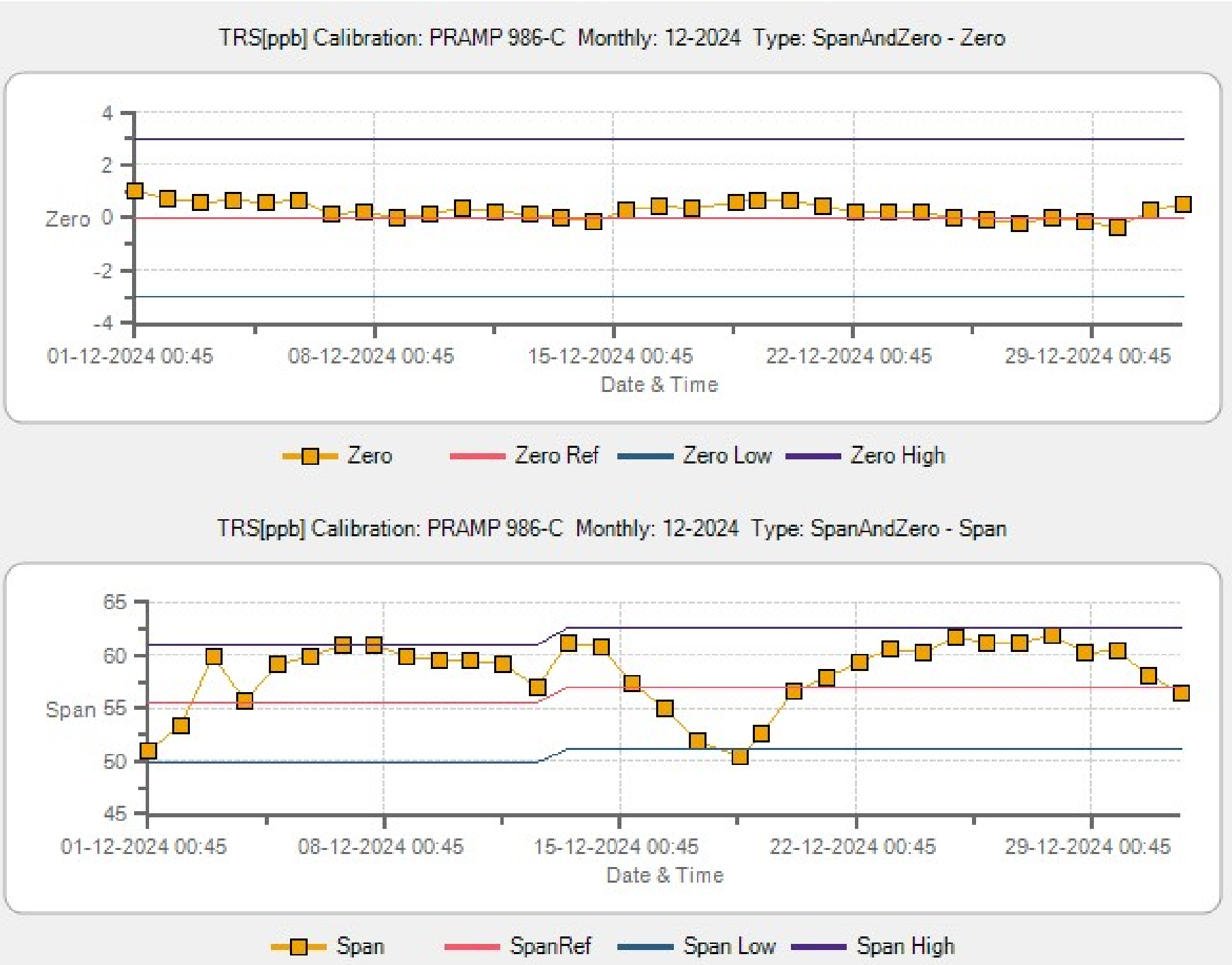
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Zero

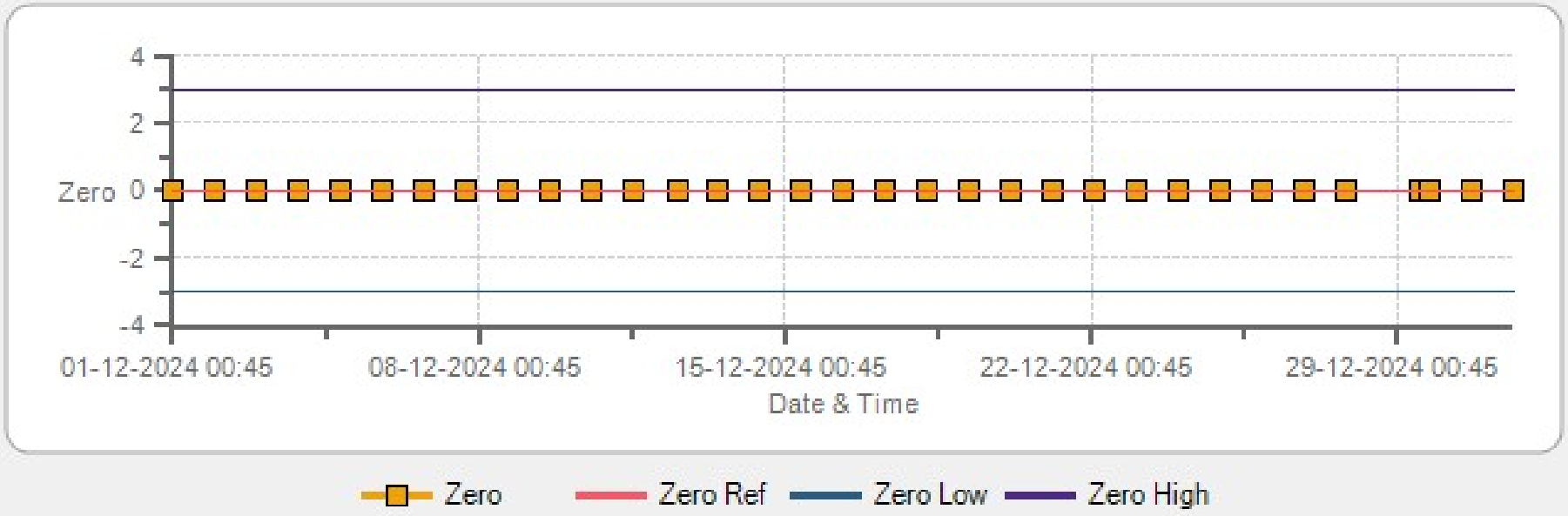


SO2[ppb] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Span

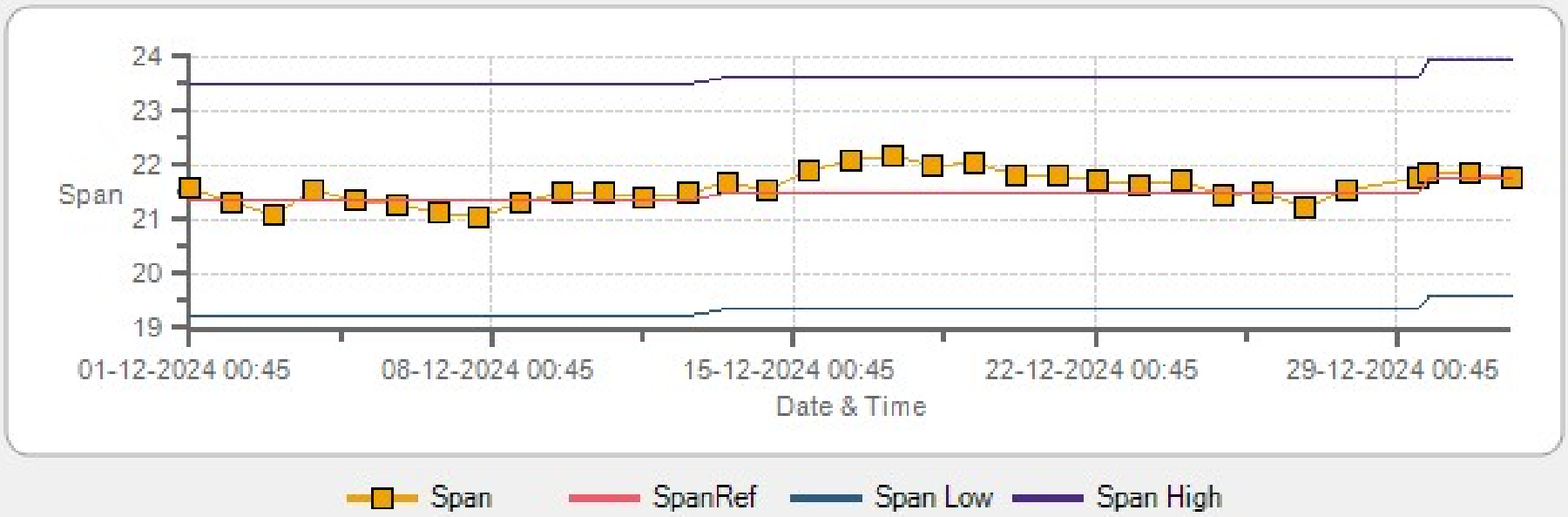



TRS[ppb] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
01-12-2024 00:45
08-12-2024 00:45
15-12-2024 00:45
22-12-2024 00:45
29-12-2024 00:45
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Span
65
60
Span 55
50
45
01-12-2024 00:45
08-12-2024 00:45
15-12-2024 00:45
22-12-2024 00:45
29-12-2024 00:45
Date & Time
Span
SpanRef
Span Low
Span High

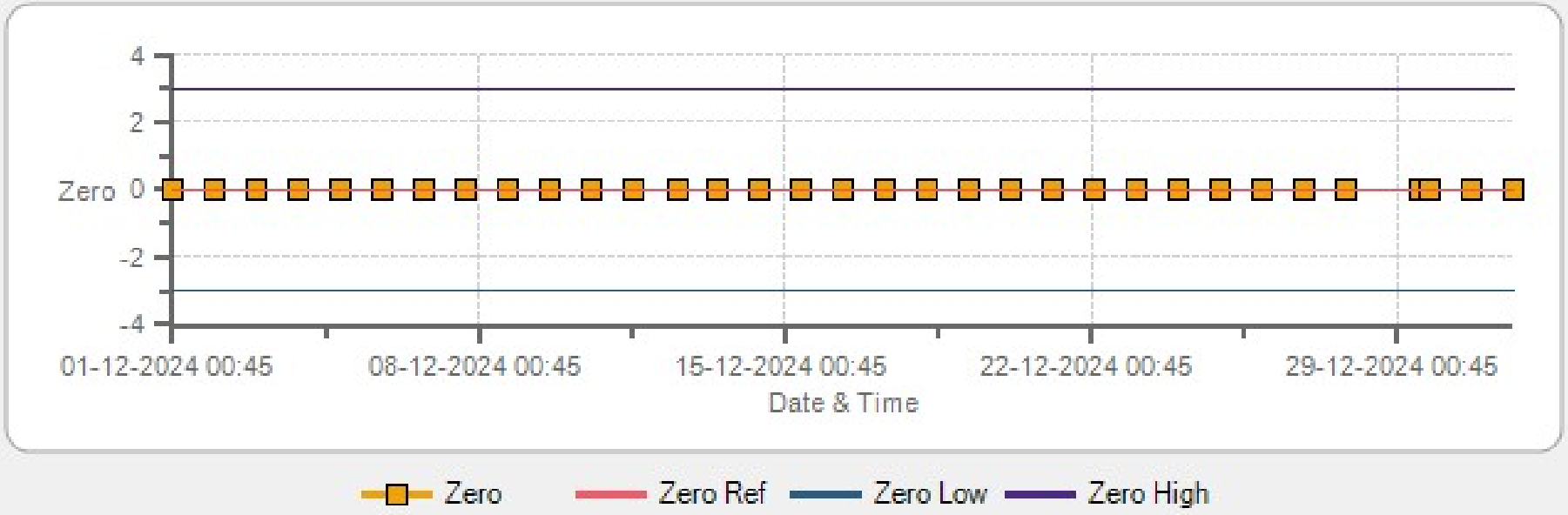
THC55[ppm] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Zero



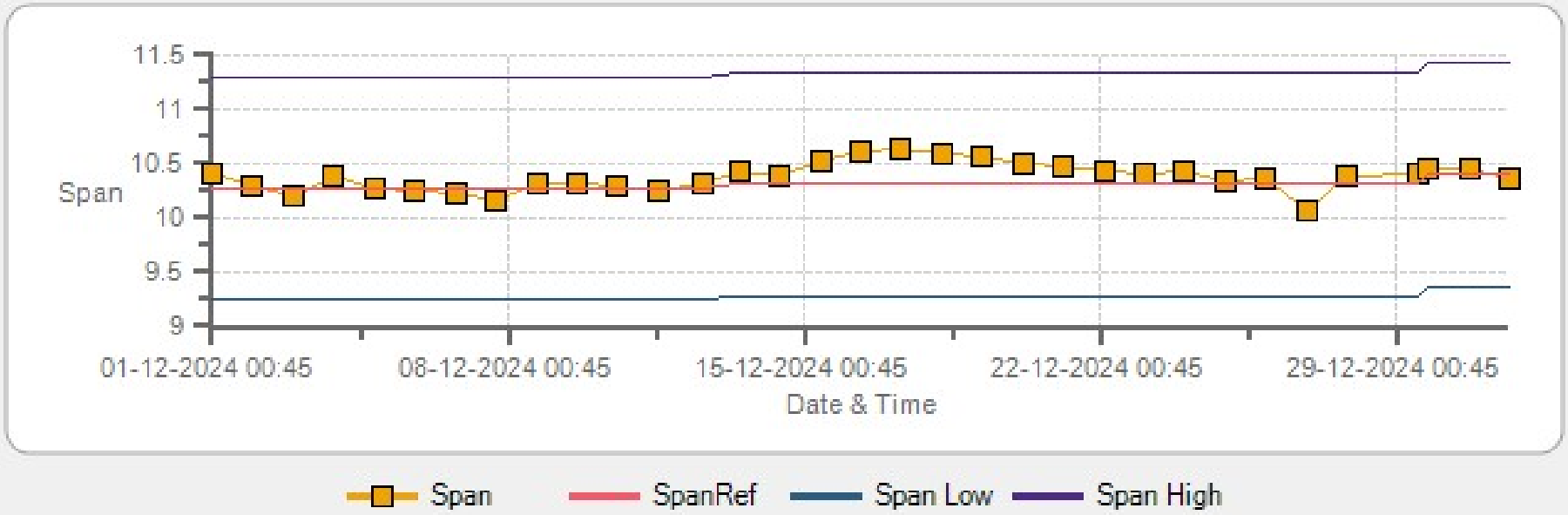
THC55[ppm] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Span



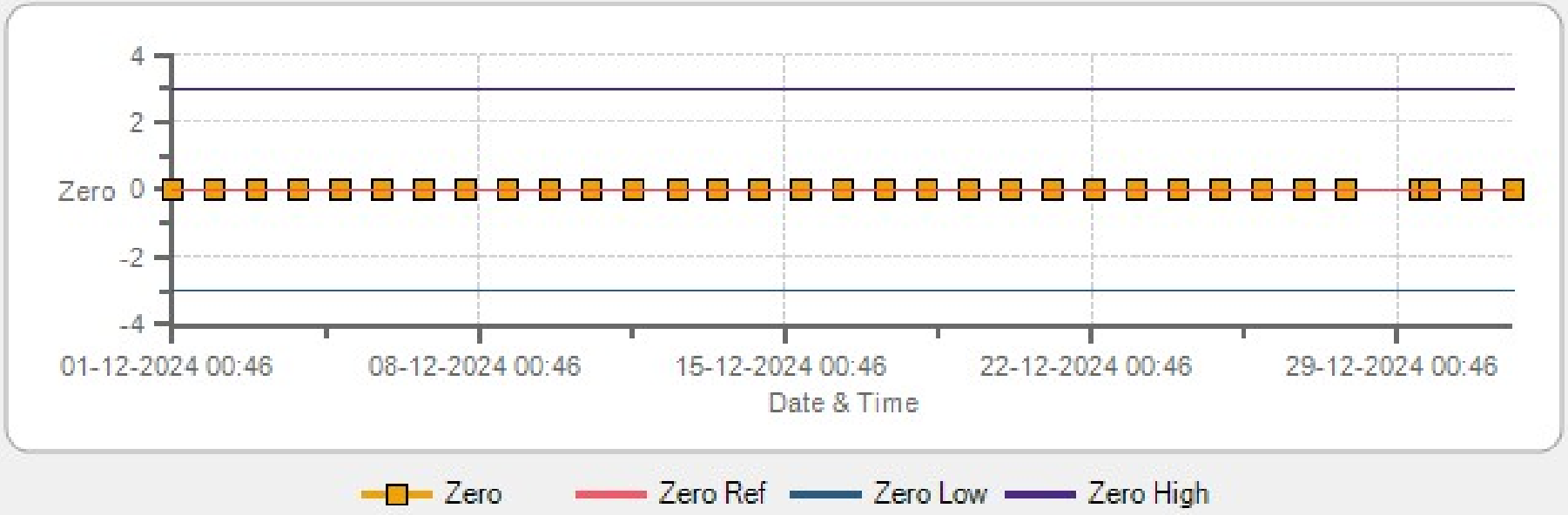
CH4[ppm] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Zero



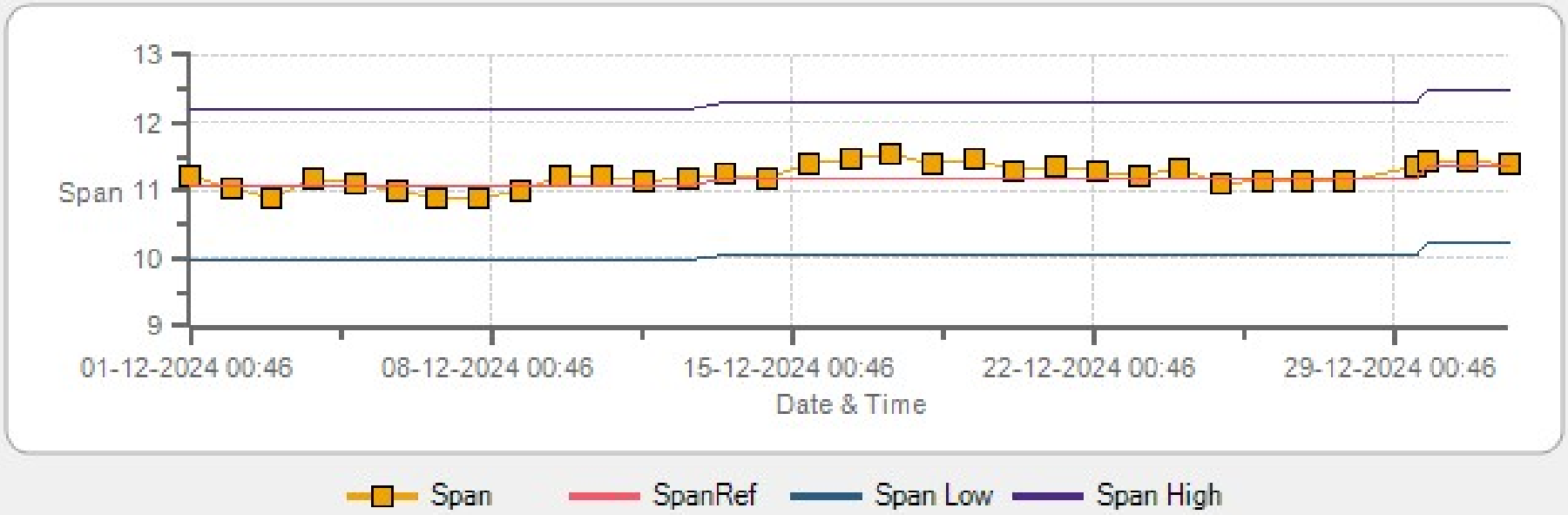
CH4[ppm] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 12-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	12-Dec-2024	PREVIOUS CALIBRATION DATE:	19-Nov-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	932
PURPOSE	Routine	START TIME (MST):	08:45
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:45

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	19.9	BKG/OFFSET	20.9
COEF/SLOPE	1.026	COEF/SLOPE	1.034
Expected (reference) Value	329.7	Expected (reference) Value	338.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002518	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1650	LOW ID	n/a
EXPIRY DATE	14-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:

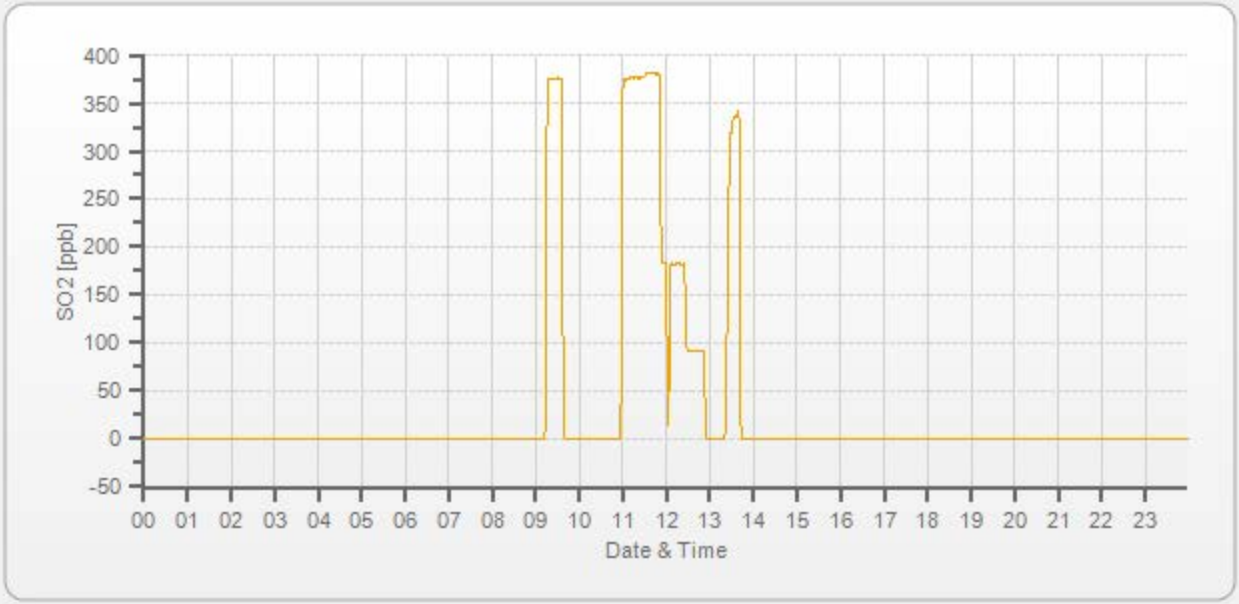
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.3	0		
3939	60.60	4000	380.27	376.4	381	1.011	0.998
3972	28.70	4001	180.05	n/a	182.9	n/a	0.984
3992	14.40	4006	90.22	n/a	91.7	n/a	0.984

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.2%

COMMENTS:

Sample Filter Changed
12:00 = Daily ZS. Mid-point restarted


SO2[ppb] Station: PRAMP 986-C Daily: 2024-12-12 Type: AVG 1 Min. [1 Min.]
400
350
300
250
200
150
100
50
0
-50
SO2 [ppb]
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	12-Dec-2024	PREVIOUS CALIBRATION DATE:	19-Nov-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.002
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	932
PURPOSE	Routine	START TIME (MST):	08:45
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:45

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	422
INITIAL		FINAL	
BKG/OFFSET	19.2	BKG/OFFSET	19.8
COEF/SLOPE	1.078	COEF/SLOPE	1.082
Expected (reference) Value	55.52	Expected (reference) Value	56.96

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.49	0		
3969	30.90	4000	77.95	77.58	77.87	1.011	1.001
3986	15.10	4001	38.08	n/a	38.14	n/a	0.998
3992	7.50	3999	18.92	n/a	19.6	n/a	0.965

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.996	0.3%

COMMENTS:

Sample Filter Changed
12:00 = daily ZS. Mid-point restarted.

TRS[ppb] Station: PRAMP 986-C Daily: 2024-12-12 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	12-Dec-2024	PREVIOUS CALIBRATION DATE:	19-Nov-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	932
PURPOSE	Routine	START TIME (MST):	08:45
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:36

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1022143392	1011
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	1.001	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.27	11.09	21.36		10.31	11.19	21.50

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3443	56.80	3500	14.56	13.43	27.99	14.41	13.35	27.76	14.54	13.46	27.99	1.010	1.006	1.008	1.001	0.998	1.000
3473	28.40	3501	7.28	6.71	13.99	n/a	n/a	n/a	7.30	6.73	14.03	n/a	n/a	n/a	0.997	0.998	0.997
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.68	3.37	7.05	n/a	n/a	n/a	0.989	0.996	0.992

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	0.998	0.1%
NMHC	1.000	1.002	0.0%
THC	1.000	0.999	0.1%

Comments:

Sample Filter Changed
H2 Desiccant Renewed after as-found
12:21-Regulator flushed to check response

Station: PRAMP 986-C Daily: 2024-12-12 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	28-Dec-2024	PREVIOUS CALIBRATION DATE:	12-Dec-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	986C	BAROMETRIC (mBar):	930
PURPOSE	Removal/Shut-down	START TIME (MST):	16:54
PERFORMED BY:	Chris Wesson	END TIME (MST):	18:42

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1022143392	979
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.001	0.998	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Sabio	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	2020EXP	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	26801218	ID:	18700921	CYLINDER (psi):	400		LOW ID:	n/a
MFC CALIBRATION DATE:	09-Sep-2024	OXIDIZER ID:	Internal	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	n/a

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.31	11.19	21.50		n/a	n/a	n/a

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3099		3099	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a						
3052	50.30	3102	14.55	13.42	27.97	14.58	13.26	27.84	n/a	n/a	n/a	0.998	1.012	1.005	n/a	n/a	n/a
3075	25.20	3100	7.29	6.73	14.02	7.29	6.64	13.93	n/a	n/a	n/a	1.000	1.013	1.007	n/a	n/a	n/a
3089	12.60	3102	3.64	3.36	7.01	3.66	3.32	6.98	n/a	n/a	n/a	0.995	1.013	1.004	n/a	n/a	n/a

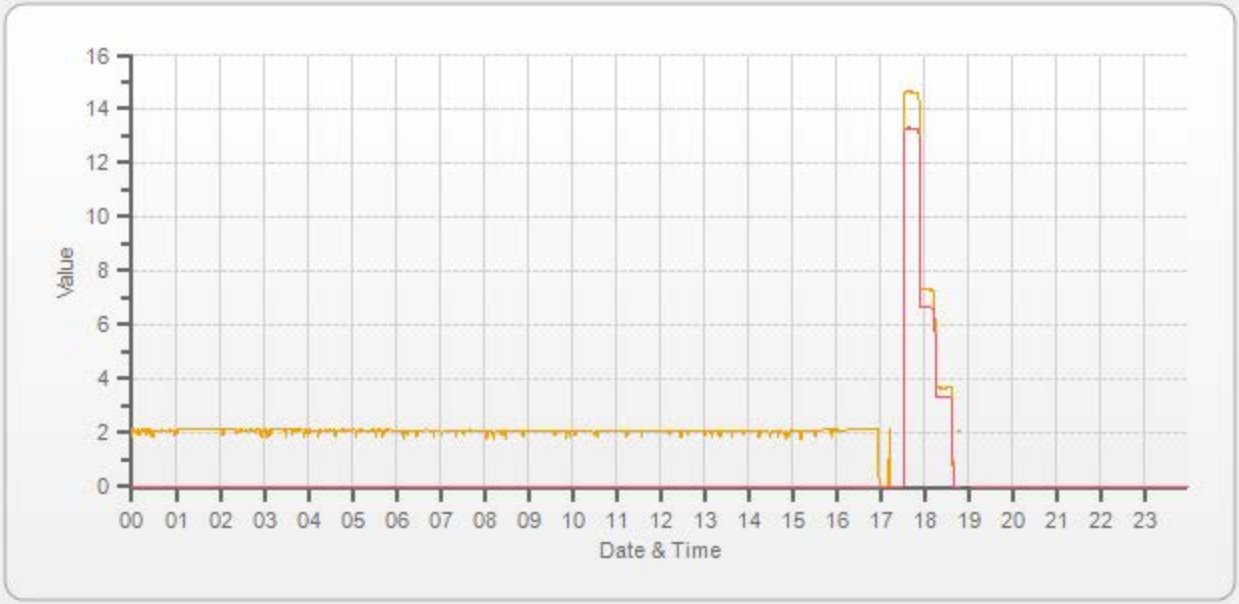
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.002	0.0%
NMHC	1.000	0.988	0.0%
THC	1.000	0.995	0.0%

Comments:

Shutdown due to bad injections
17:12 = Calibrator error. AF zero restarted
BV analyzer

Station: PRAMP 986-C Daily: 2024-12-28 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	29-Dec-2024	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	986C	BAROMETRIC (mBar):	935
PURPOSE	Install/Post-Repair	START TIME (MST):	10:40
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:07

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1086
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Sabio	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	2020EXP	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	26801218	ID:	18700921	CYLINDER (psi):	400		LOW ID:	n/a
MFC CALIBRATION DATE:	09-Sep-2024	OXIDIZER ID:	Internal	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	n/a

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	n/a	n/a	n/a		10.40	11.36	21.76

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3099		3099	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00						
3052	50.30	3102	14.55	13.42	27.97	n/a	n/a	n/a	14.54	13.40	27.94	n/a	n/a	n/a	1.000	1.002	1.001
3075	25.20	3100	7.29	6.73	14.02	n/a	n/a	n/a	7.24	6.69	13.94	n/a	n/a	n/a	1.007	1.006	1.006
3088	12.60	3101	3.64	3.36	7.01	n/a	n/a	n/a	3.61	3.40	7.01	n/a	n/a	n/a	1.010	0.989	1.000

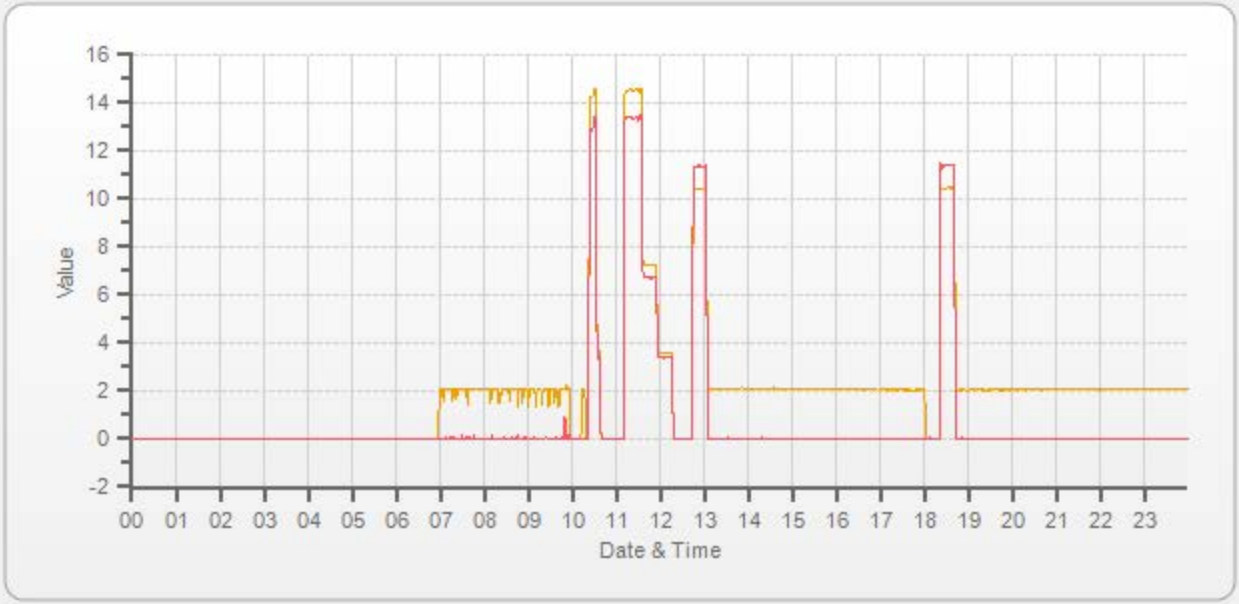
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	-0.1%
NMHC	1.000	0.997	0.1%
THC	1.000	0.999	0.0%

Comments:

PRAMP analyzer

Station: PRAMP 986-C Daily: 2024-12-29 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	December 12, 2024		
Technician:	Kevin Sebastian		
Station:	PRAMP 986c		
Unit:	**Make:**	**Model:**	**Serial #:**
Precipitation Sampler:	RM Young	52202	TB 16325
Temperature Sensor:	Rotronic	HC2-32	20626912
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2-S3	20626912
Anemometer:	RM Young	05305AQ	180340

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	November 19, 2024	Tested:14:22-14:25
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 mm)

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	November 19, 2024
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 181341226 expires July 24, 2025
Reference Temperature (^{o}C):	-3.2
Station - Ambient Temperature (^{o}C):	-3.4
Temperature Difference (^{o}C):	0.2

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	November 19, 2024	
Reference Barometer ID:	Brunton 05535 Expires July 24,2025	
Reference Pressure - Units/Reading:	millibar	930
Station Pressure - Units/Reading:	millibar	929
Pressure Tolerance +/- 15% of error:	791 - 1070	0.11%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	November 19, 2024	
Reference Hygrometer ID:	F.S. 181341226 expires July 24, 2025	
Reference Hygrometer % RH- Reading:	88.60	
Station Hygrometer % RH- Reading:	90.90	
RH Tolerance +/- 15% of difference:	75.31 - 101.89	-2.6%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	November 19, 2024	Previous check date:	November 19, 2024
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	8.9	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	986C	**Reviewed By:**	Limin Li
Audit Date:	August 22, 2024	**Start/End Time (mst):**	17:37 / 18:34
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 #:	180340	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	August 3, 2023	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	30	329	0.0	1.0	0.5
60	300	58	302	2.0	-2.0	2.0
90	270	87	270	3.0	0.0	1.5
120	240	118	238	2.0	2.0	2.0
150	210	146	206	4.0	4.0	4.0
180	180	175	176	5.0	4.0	4.5
210	150	206	146	4.0	4.0	4.0
240	120	238	118	2.0	2.0	2.0
270	90	271	88	-1.0	2.0	1.5
300	60	302	58	-2.0	2.0	2.0
330	30	331	32	-1.0	-2.0	1.5
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**2.2**

Comments:

Declination = 15 deg East
Physical inspection completed, no issues
Potentiometer noisy, replacment needed

END OF REPORT

Peace River Area Monitoring Program

DECEMBER 2024

Ambient Air Monitoring Calibration Report

- RENO-B STATION-

CAL-PRAMP-202412-01563

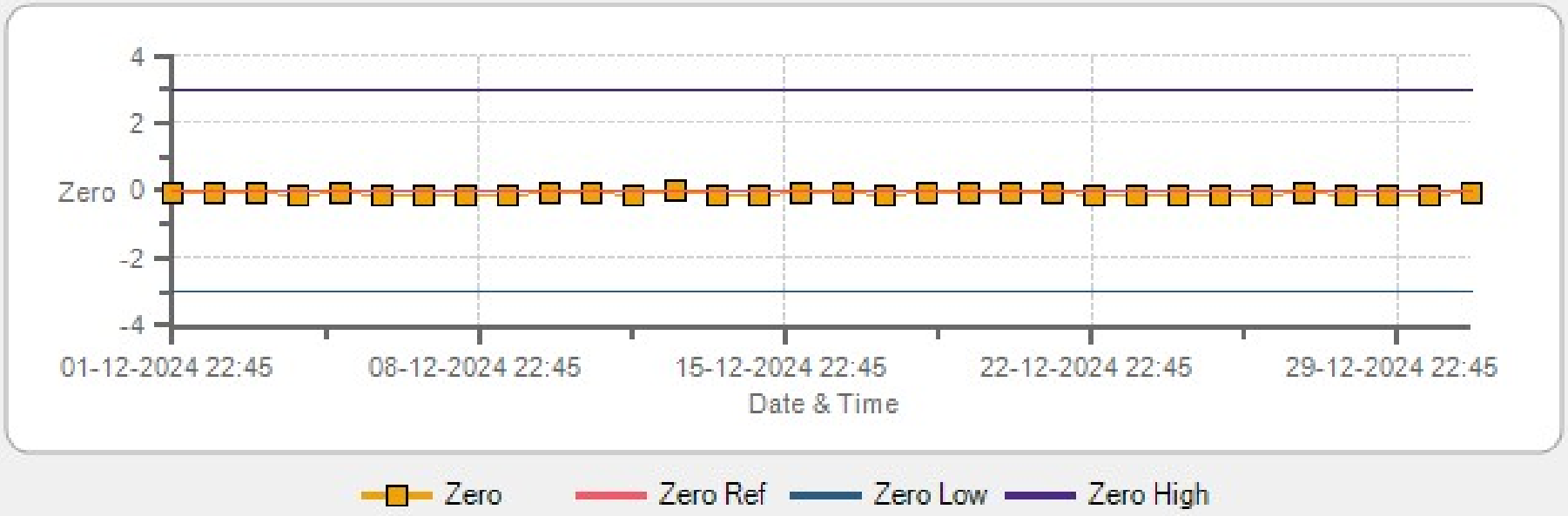
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

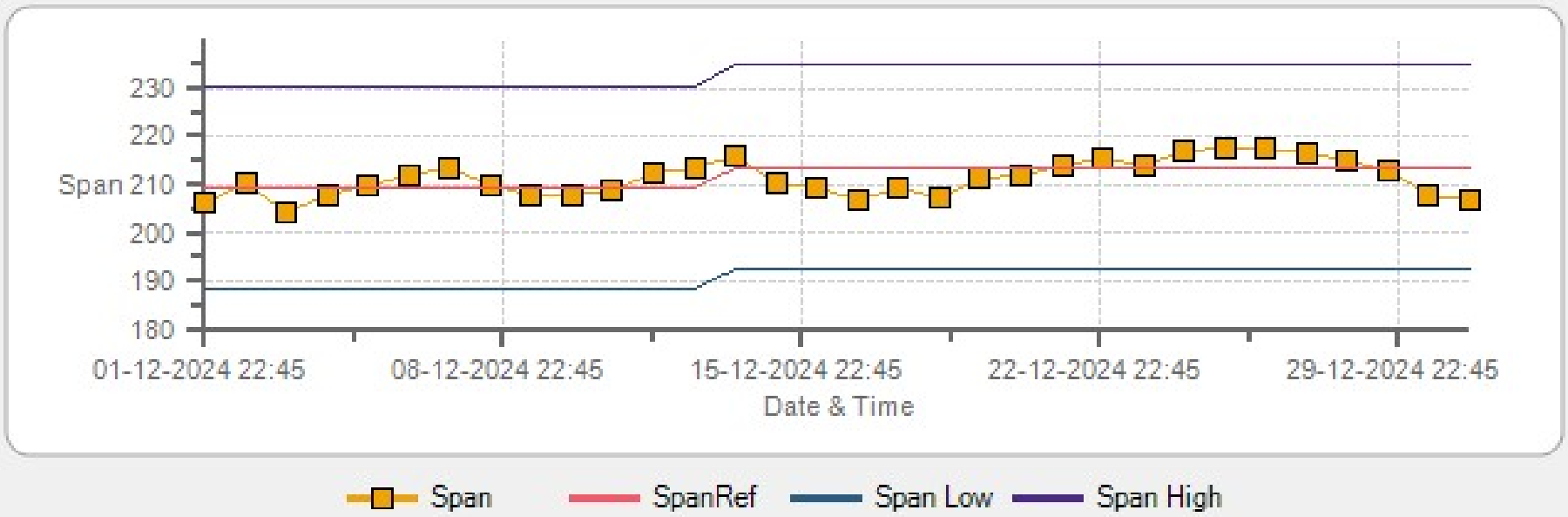
January 2, 2025

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

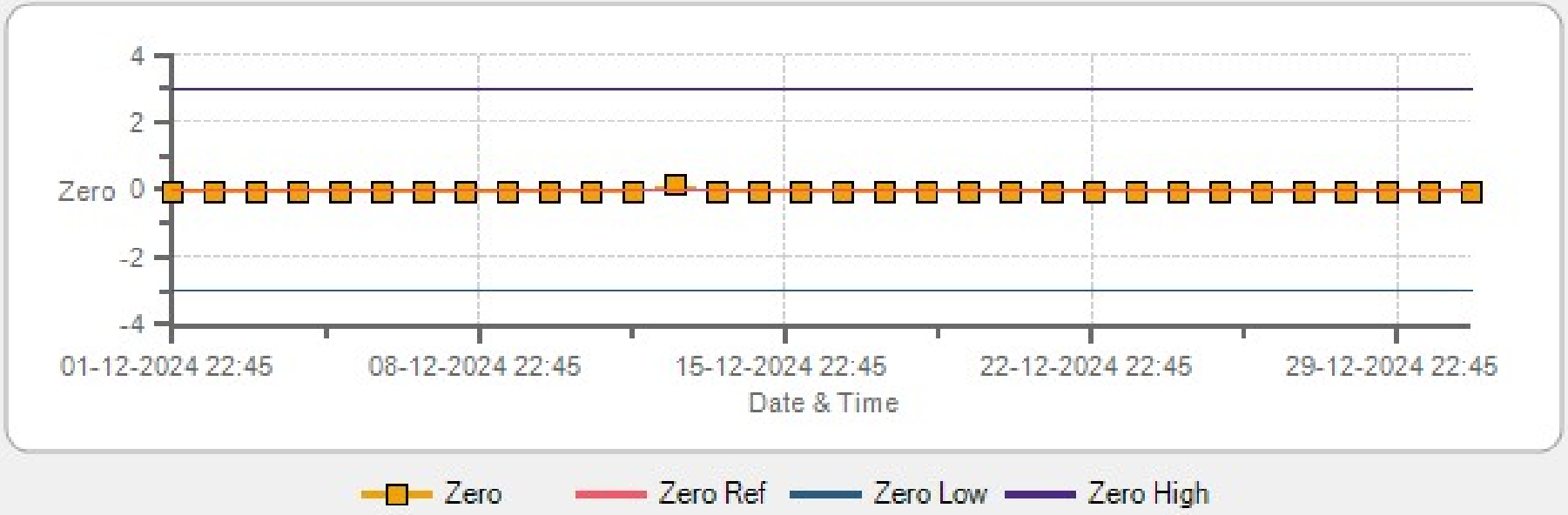
SO2[ppb] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Zero



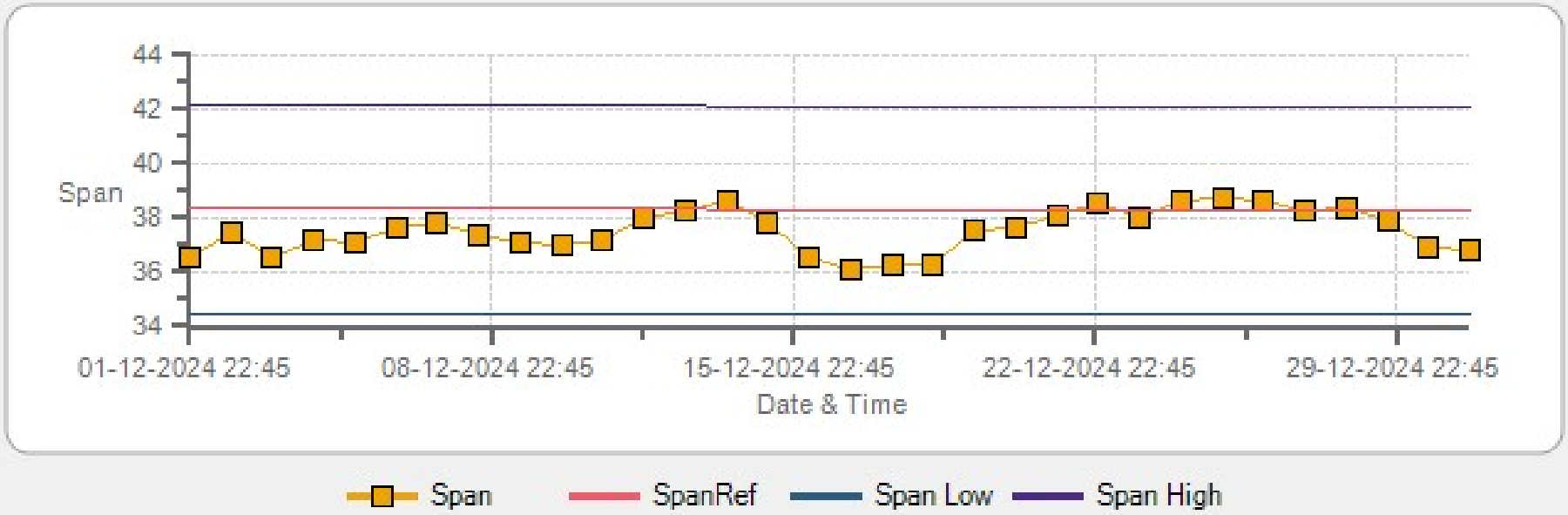
SO2[ppb] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Span



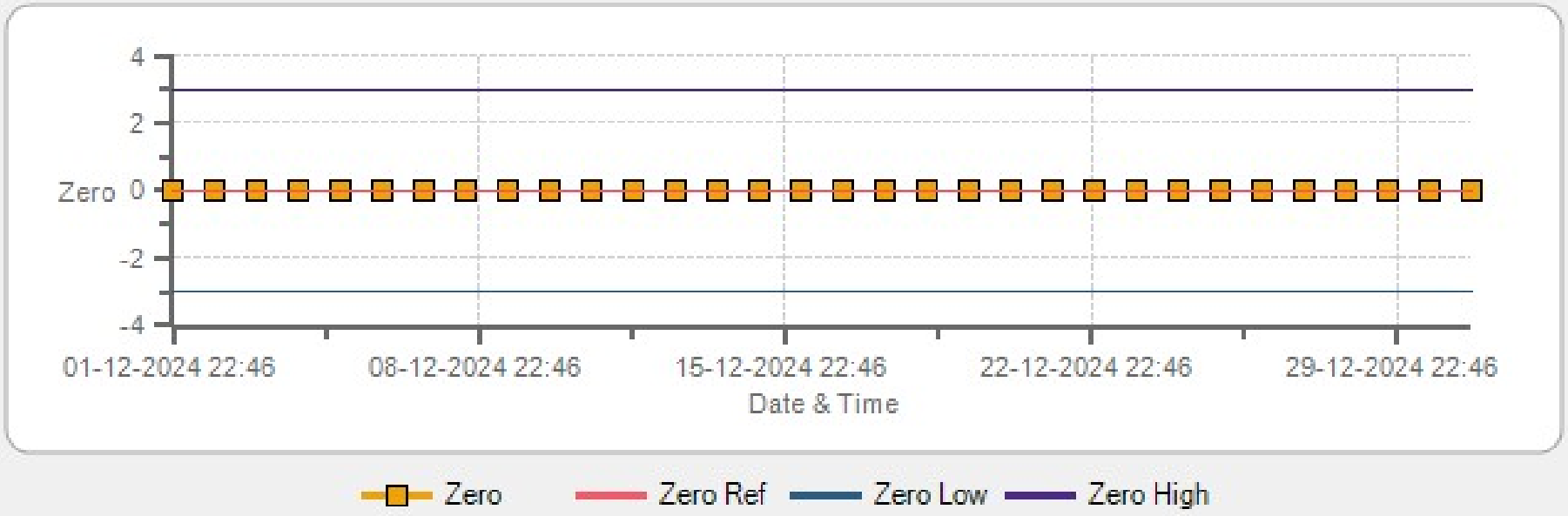
TRS[ppb] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Zero



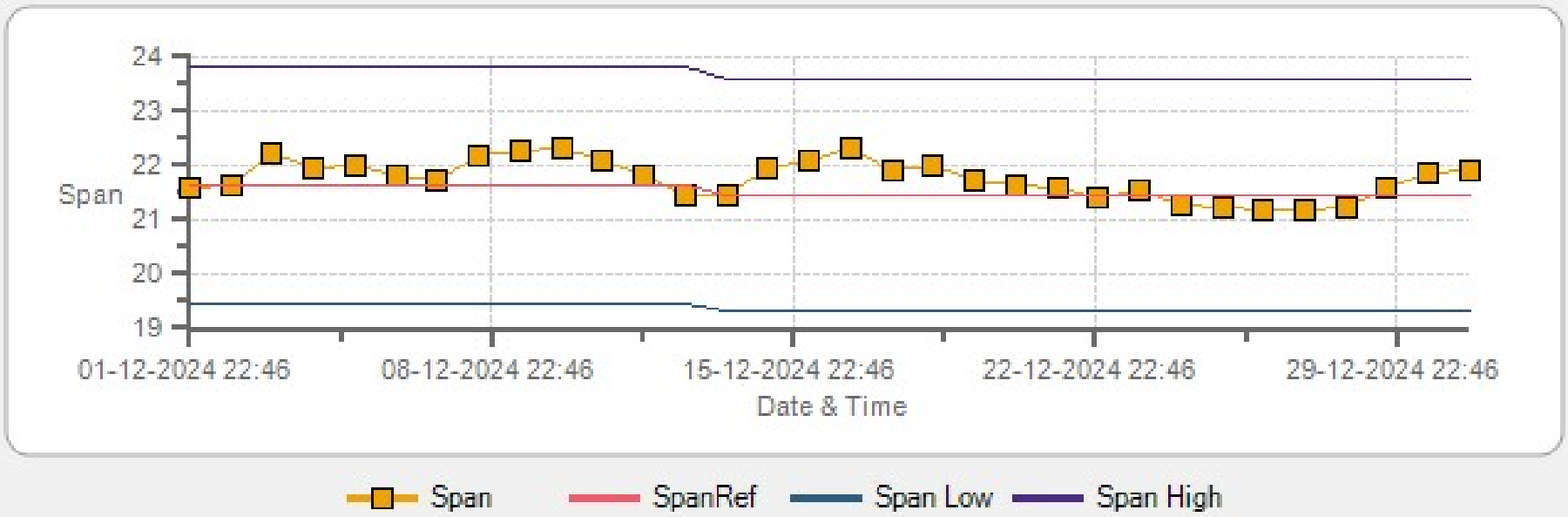
TRS[ppb] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Span



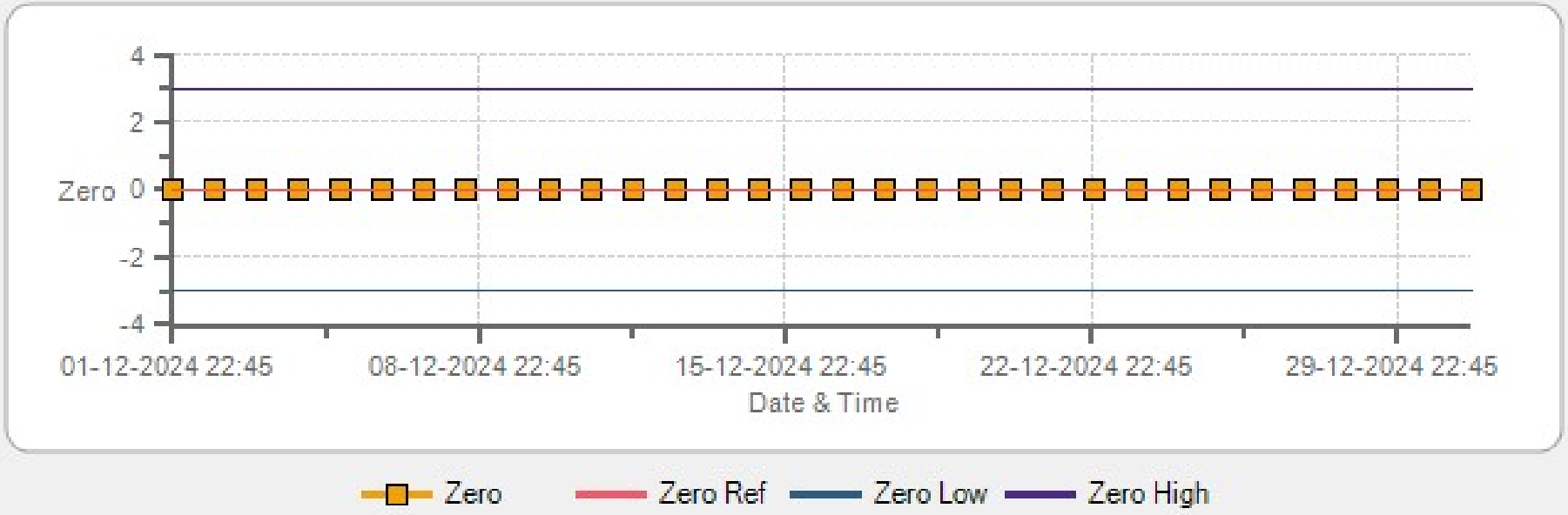
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Zero



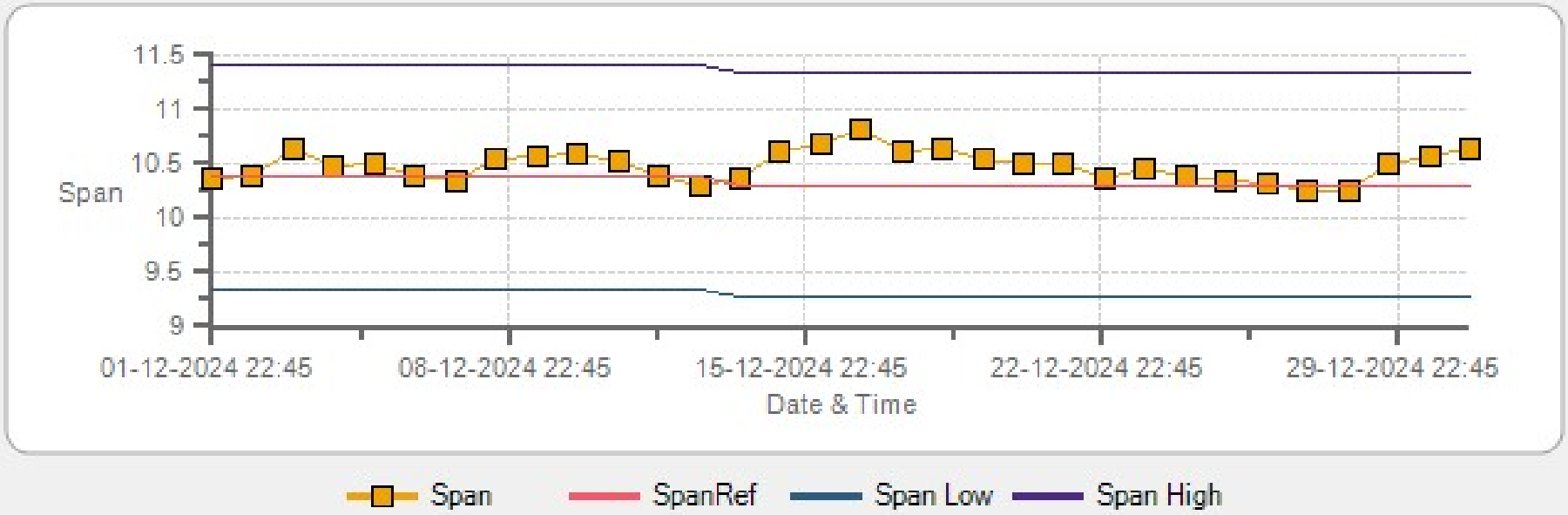
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Span



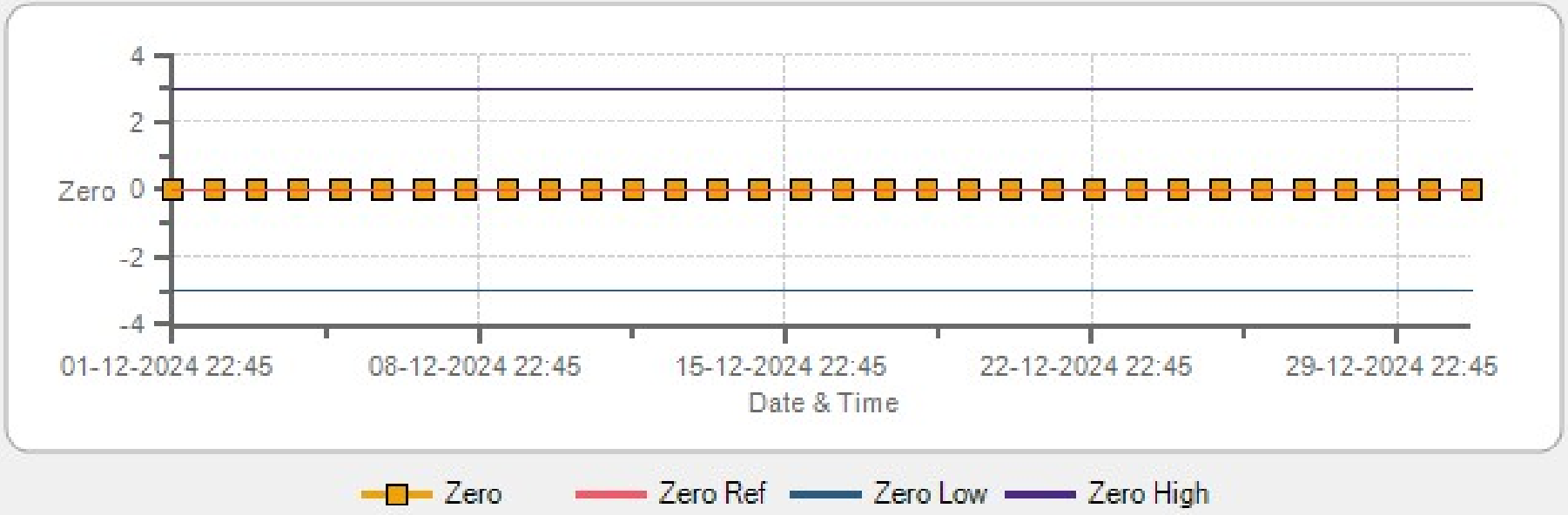
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Zero



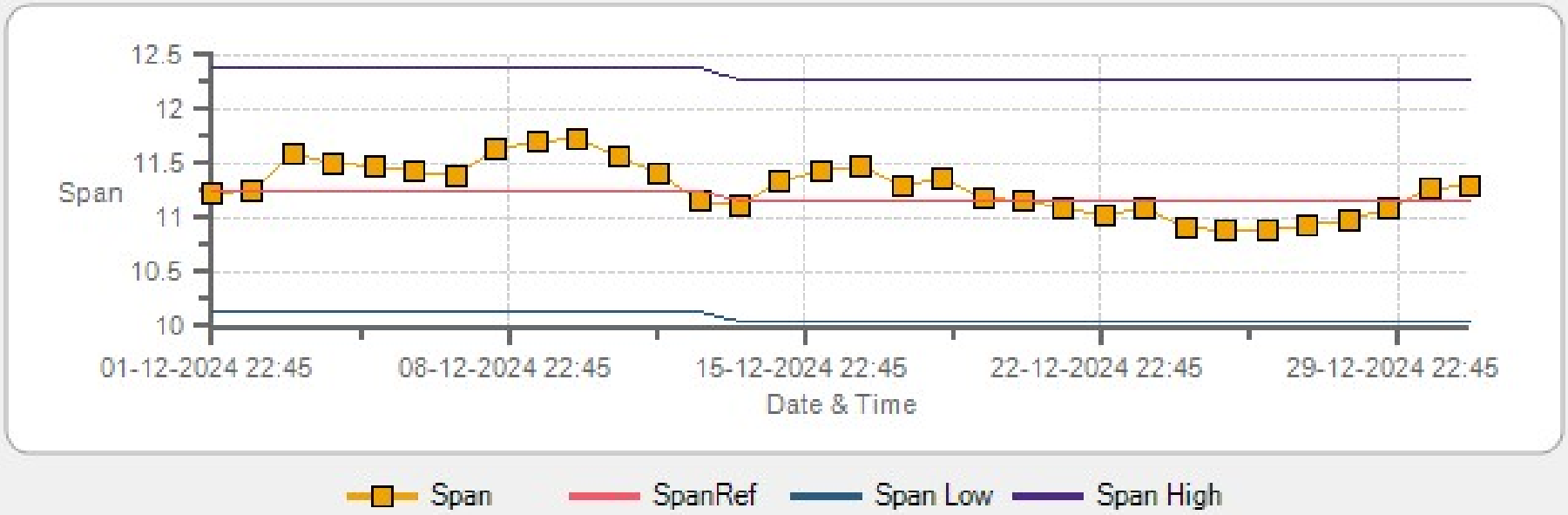
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 12-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	13-Dec-2024	PREVIOUS CALIBRATION DATE:	07-Nov-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	Reno-B	BAROMETRIC (mBar):	928
PURPOSE	Routine	START TIME (MST):	07:08
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	10:52

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	433
INITIAL		FINAL	
BKG/OFFSET	1.37	BKG/OFFSET	1.38
COEF/SLOPE	0.891	COEF/SLOPE	0.898
Expected (reference) Value	209.3	Expected (reference) Value	213.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002518	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	14-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:

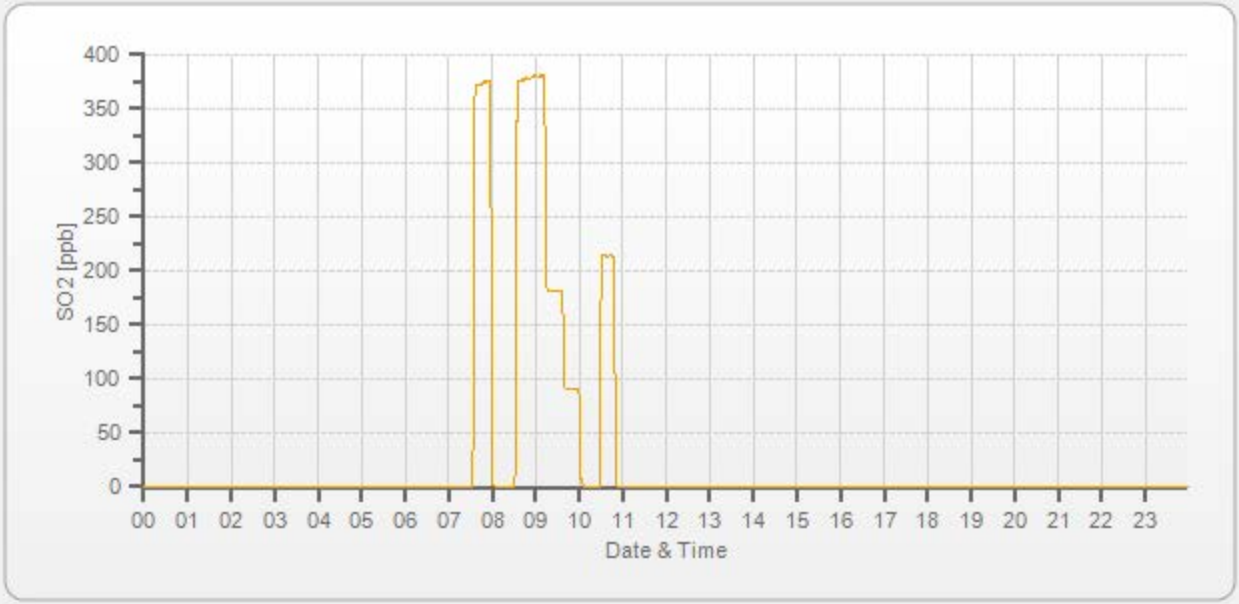
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3998		3998	0.00	-0.1	0		
3939	60.60	4000	380.27	375.1	380.3	1.013	1.000
3971	28.70	4000	180.09	n/a	181.6	n/a	0.992
3985	14.40	3999	90.38	n/a	90.5	n/a	0.999

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed


SO2[ppb] Station: PRAMP RENO-B Daily: 2024-12-13 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
400
350
300
250
200
150
100
50
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	13-Dec-2024	PREVIOUS CALIBRATION DATE:	07-Nov-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	22.5
LOCATION:	Reno-B	BAROMETRIC (mBar):	928
PURPOSE	Routine	START TIME (MST):	07:08
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	10:53

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	382
INITIAL		FINAL	
BKG/OFFSET	1.19	BKG/OFFSET	1.21
COEF/SLOPE	0.929	COEF/SLOPE	0.936
Expected (reference) Value	38.32	Expected (reference) Value	38.29

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3998		3998	0.00	-0.08	0		
3969	30.90	4000	77.95	76.76	78.09	1.014	0.998
3985	15.10	4000	38.09	n/a	38	n/a	1.002
3992	7.50	3999	18.92	n/a	19.2	n/a	0.986

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.1%

COMMENTS:

Sample filter changed

TRS[ppb] Station: PRAMP RENO-B Daily: 2024-12-13 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	13-Dec-2024	PREVIOUS CALIBRATION DATE:	07-Nov-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	Reno-B	BAROMETRIC (mBar):	928
PURPOSE	Routine	START TIME (MST):	07:08
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	10:53

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1193585652	1071
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	1.001	1.001

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.38	11.26	21.64		10.30	11.15	21.46

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3499		3499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3443	56.80	3500	14.56	13.43	27.99	14.35	13.47	27.81	14.50	13.45	27.95	1.014	0.997	1.006	1.004	0.999	1.001
3472	28.40	3500	7.28	6.72	14.00	n/a	n/a	n/a	7.28	6.74	14.02	n/a	n/a	n/a	1.000	0.997	0.998
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.66	3.38	7.04	n/a	n/a	n/a	0.994	0.993	0.994

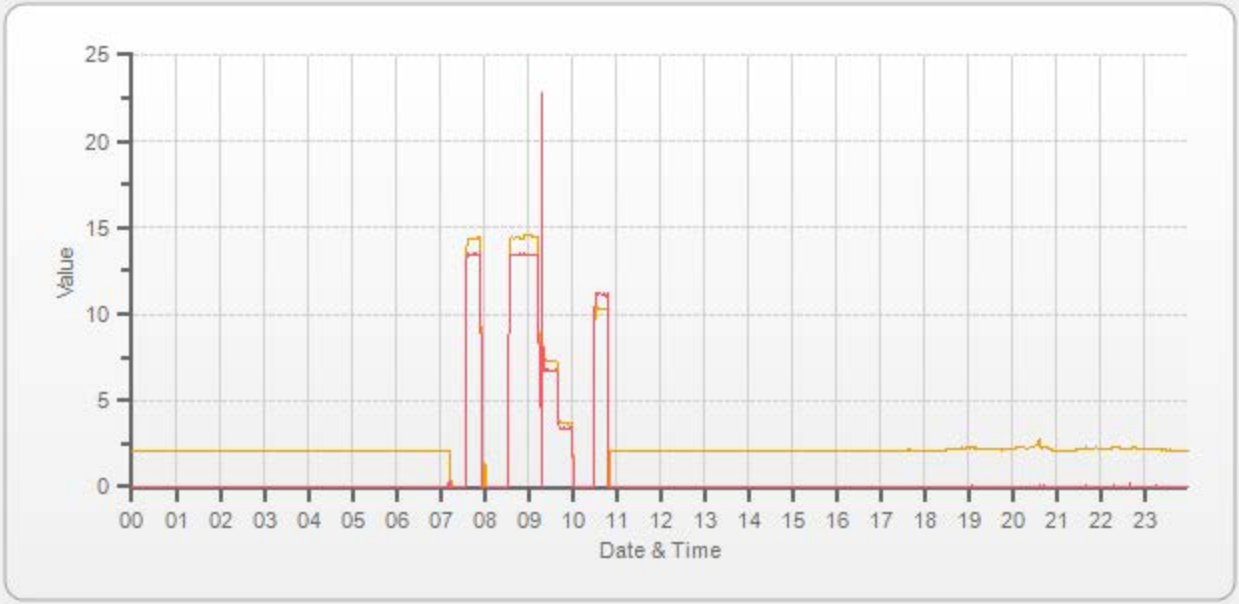
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	0.995	0.1%
NMHC	1.000	1.001	0.1%
THC	1.000	0.998	0.1%

Comments:

Sample filter Changed
09:19 = N2 cylinder swap. Mid point restarted.

Station: PRAMP RENO-B Daily: 2024-12-13 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	December 13, 2024
Technician:	Kevin Sebastian
Station:	PRAMP Reno-B

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 15877
Temperature Sensor:	Rotronic	HC2-S3	20467597
Barometric Pressure Sensor:	MetOne	92	A17940
Relative Humidity Sensor:	Rotronic	HC2-S3	20467597
Anemometer:	RM Young	05305AQ	174795

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	November 7, 2024	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Audit:09:50-09:54
Is the screen on the housing? (screen should be on between July and September	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	November 7, 2024
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	FS 181341226 expires July 24, 2025
Reference Temperature (^{o}C):	-4.8
Station - Ambient Temperature (^{o}C):	-4.7
Temperature Difference (^{o}C):	-0.1

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	November 7, 2024	
Reference Barometer ID:	Brunton 05535 Expires July 24,2025	
Reference Pressure - Units/Reading:	millibar	928
Station Pressure - Units/Reading:	millibar	928.5
Pressure Tolerance +/- 15% of error:	789 - 1067	-0.05%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	November 7, 2024	
Reference Hygrometer ID:	FS 181341226 expires July 24, 2025	
Reference Hygrometer % RH- Reading:	86.30	
Station Hygrometer % RH- Reading:	88.10	
RH Tolerance +/- 15% of difference:	73.36 - 99.25	-2.1%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	November 7, 2024	Previous check date:	
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	14.2	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	Reno-B	**Reviewed By:**	Limin Li
Audit Date:	August 23, 2024	**Start/End Time (mst):**	09:46 - 10:48
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 #:	174795	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	August 1, 2023	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	354	1.0	1.0	1.0
30	330	30	332	0.0	-2.0	1.0
60	300	59	304	1.0	-4.0	2.5
90	270	88	273	2.0	-3.0	2.5
120	240	120	242	0.0	-2.0	1.0
150	210	150	213	0.0	-3.0	1.5
180	180	181	182	-1.0	-2.0	1.5
210	150	209	151	1.0	-1.0	1.0
240	120	240	119	0.0	1.0	0.5
270	90	272	88	-2.0	2.0	2.0
300	60	304	60	-4.0	0.0	2.0
330	30	331	30	-1.0	0.0	0.5
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.4**

Comments:

Declination = 15 deg East
Physical inspection completed. Repalced horizontal bearings

END OF REPORT

Peace River Area Monitoring Program

DECEMBER 2024

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202412-01689

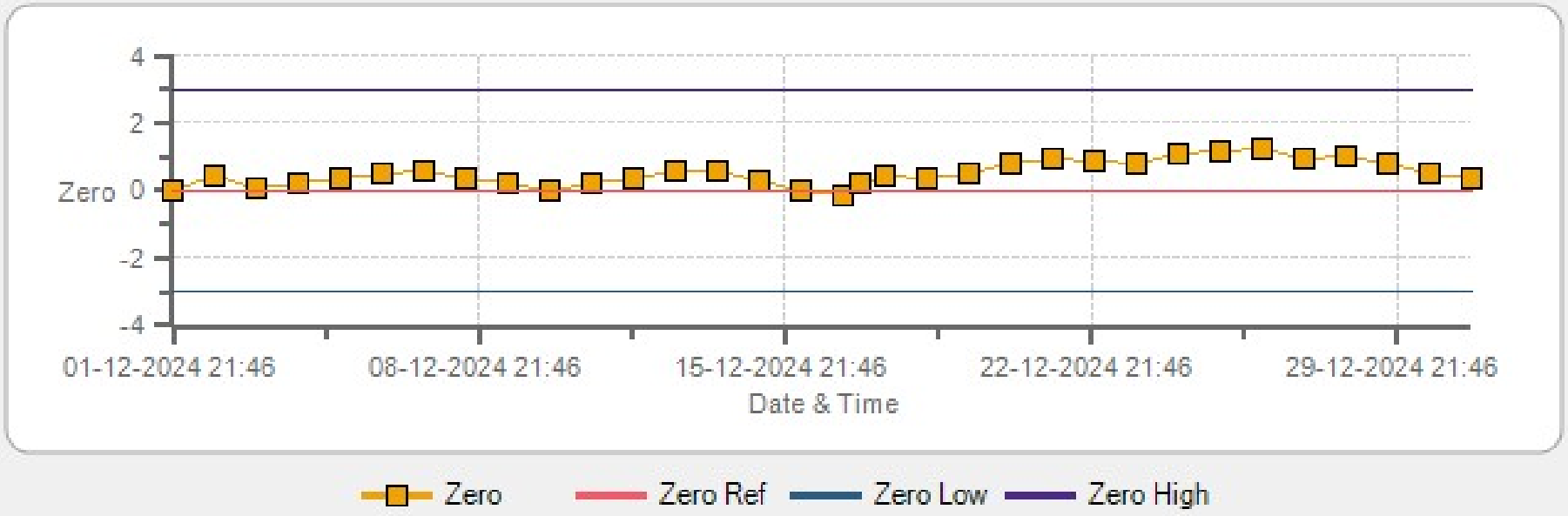
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

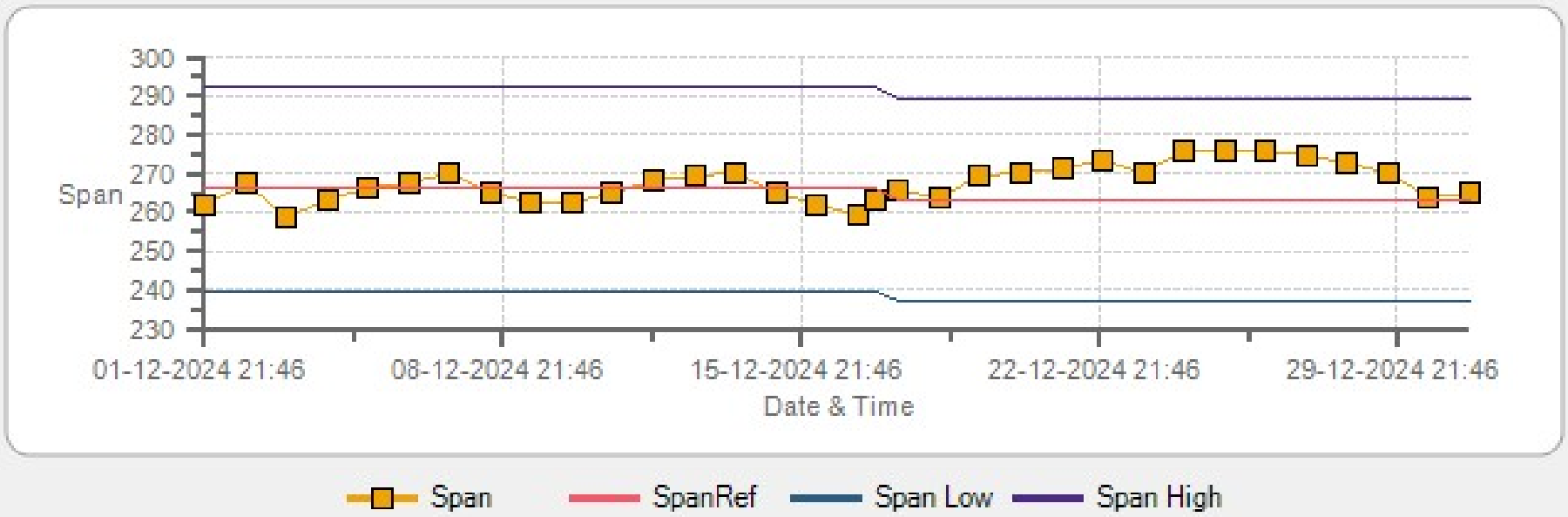
January 2, 2025

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

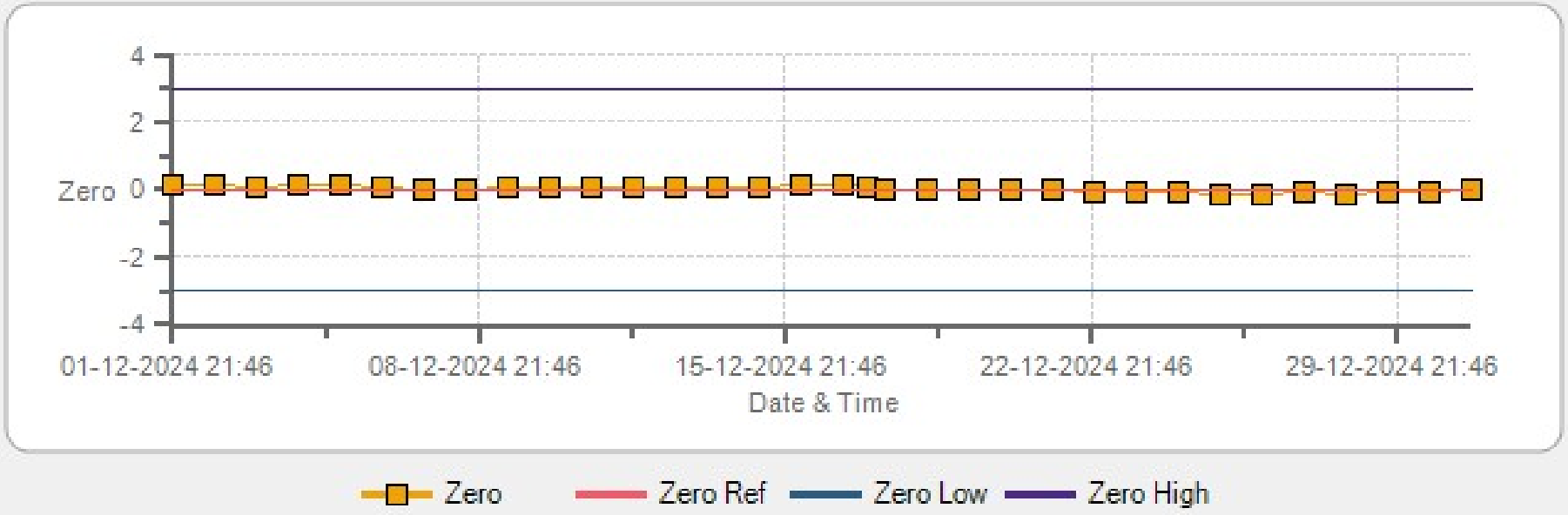
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero



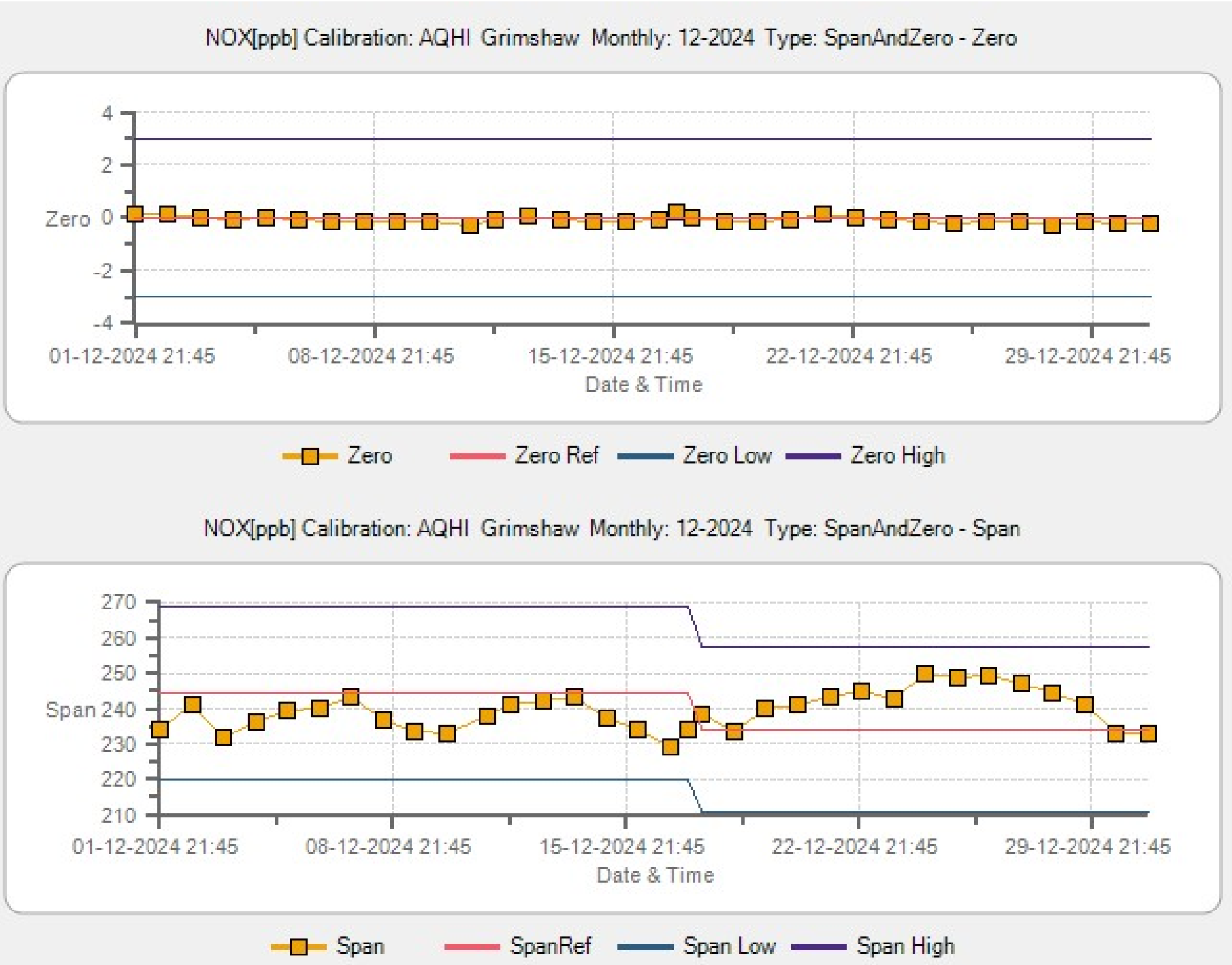
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span



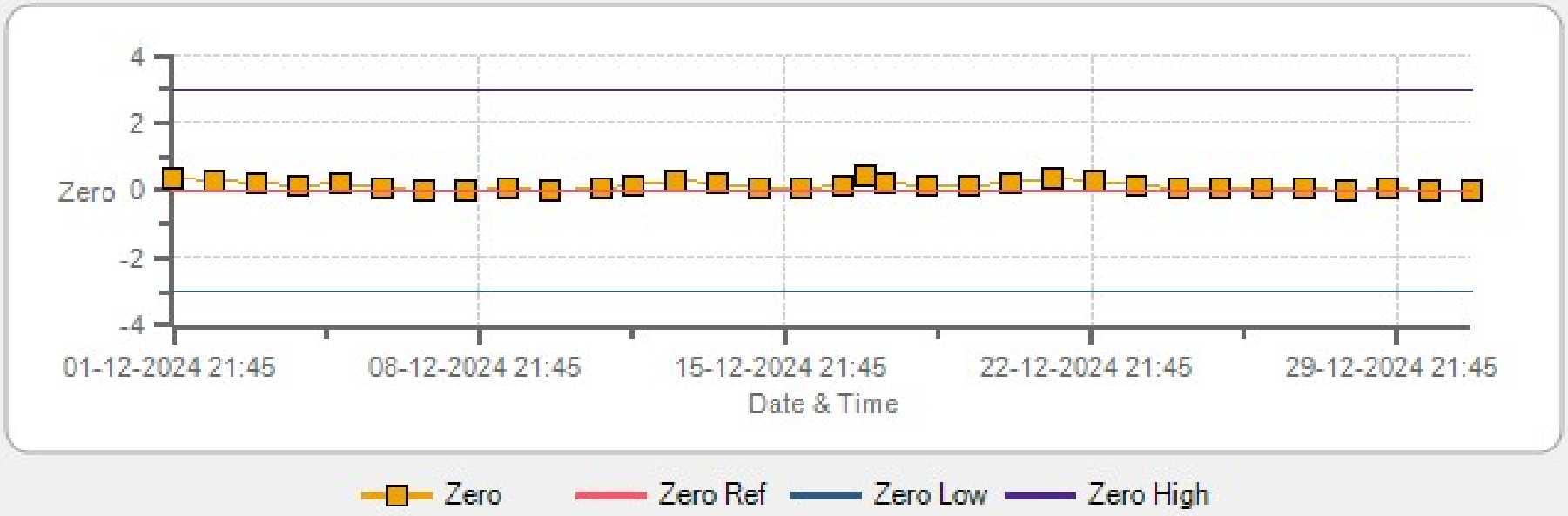
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero



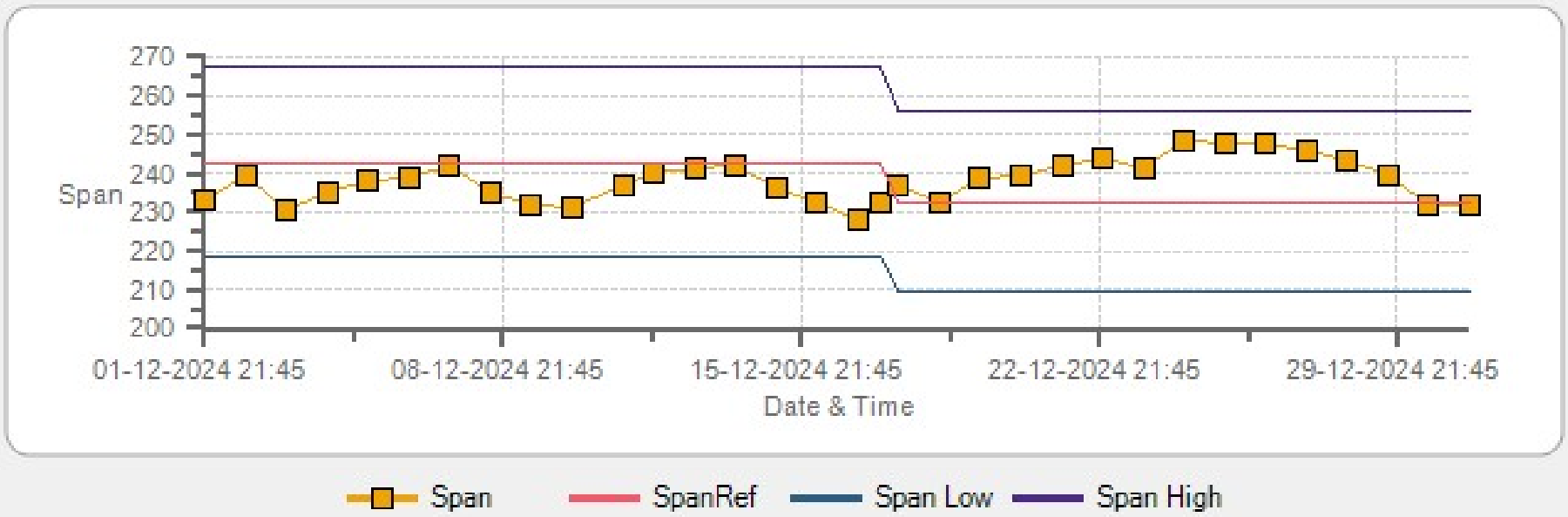
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span


NOX[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
01-12-2024 21:45
08-12-2024 21:45
15-12-2024 21:45
22-12-2024 21:45
29-12-2024 21:45
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span
270
260
250
Span 240
230
220
210
01-12-2024 21:45
08-12-2024 21:45
15-12-2024 21:45
22-12-2024 21:45
29-12-2024 21:45
Date & Time
Span
SpanRef
Span Low
Span High

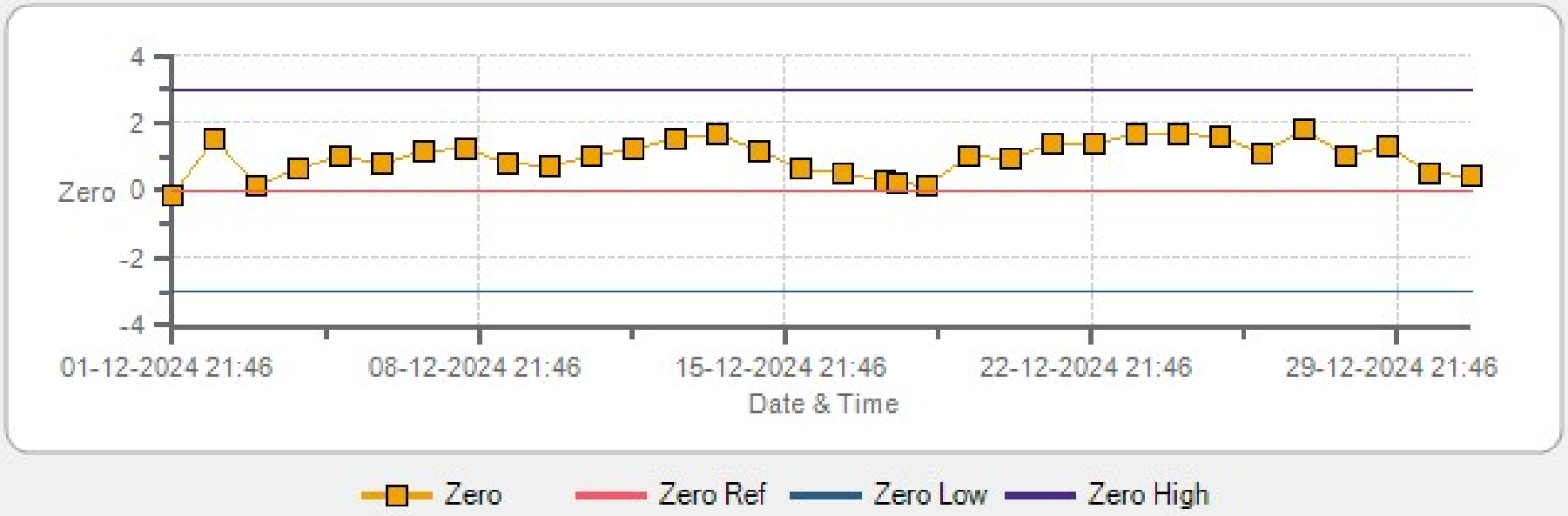
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero



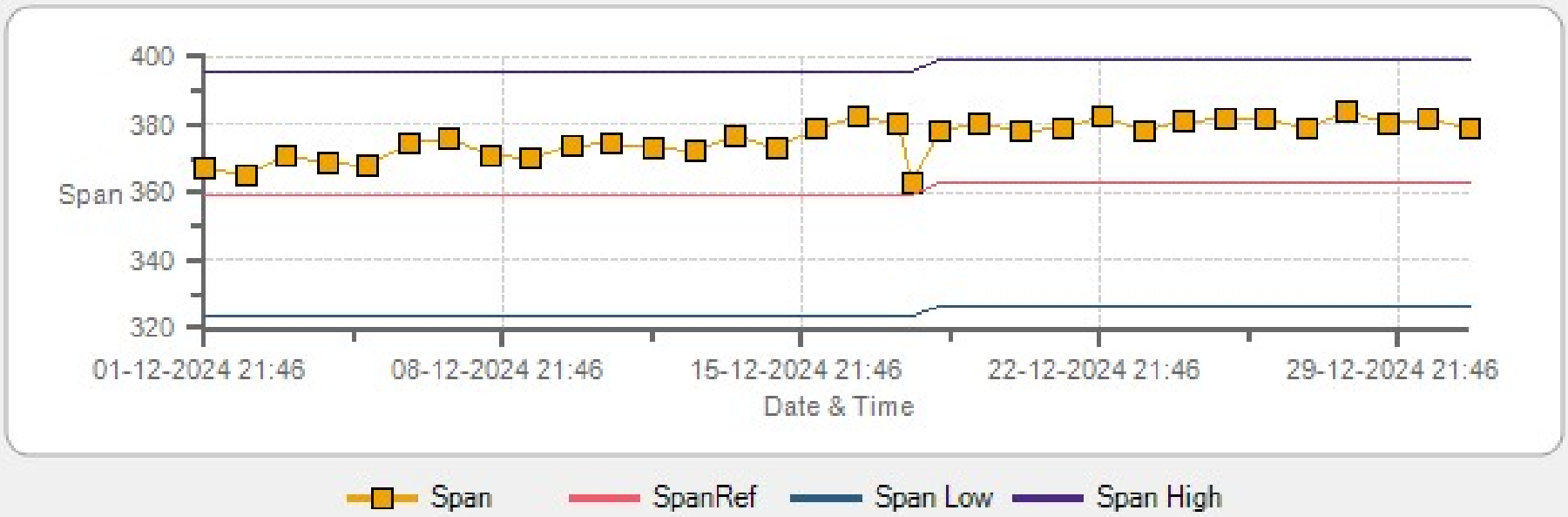
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span

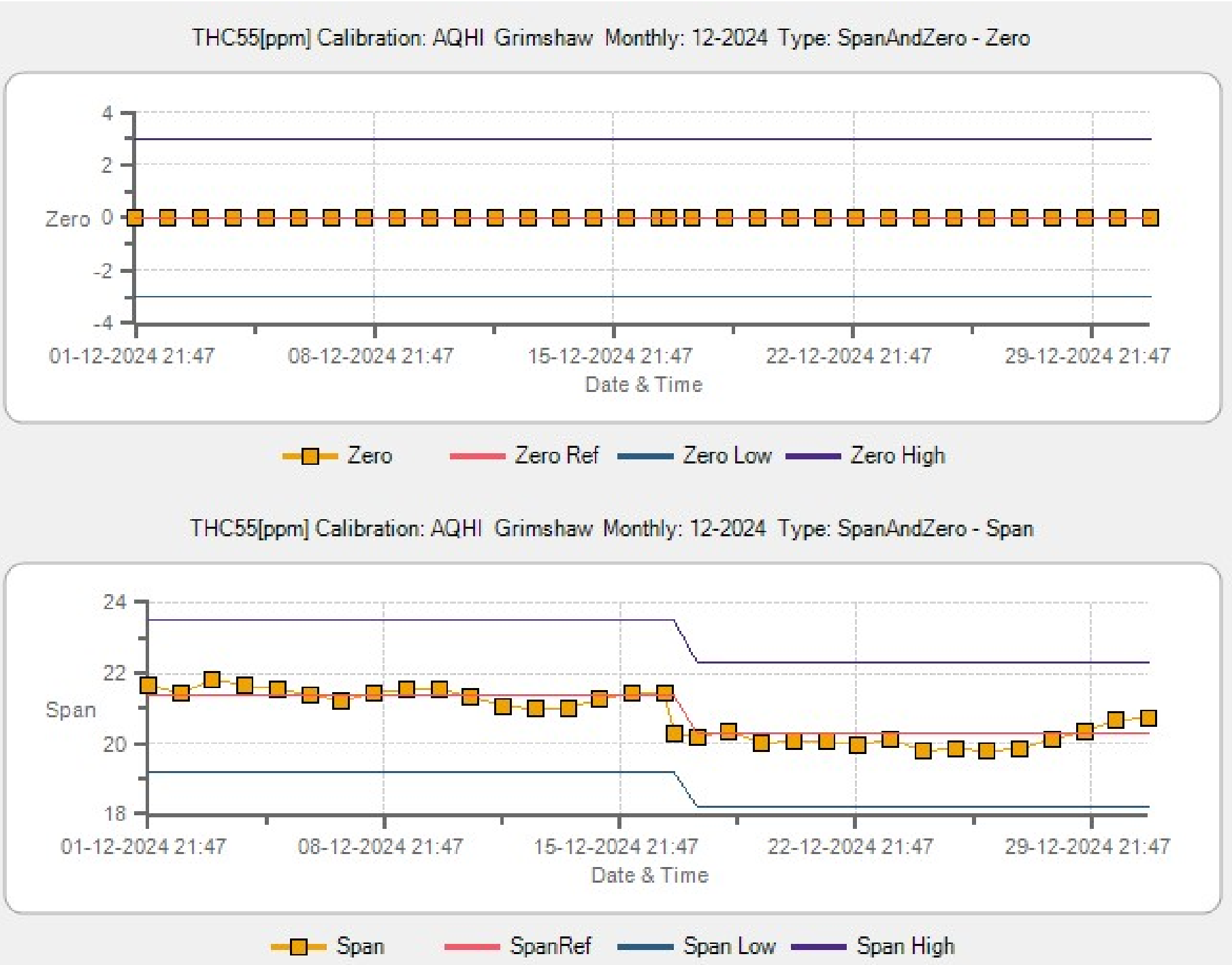


O3[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero

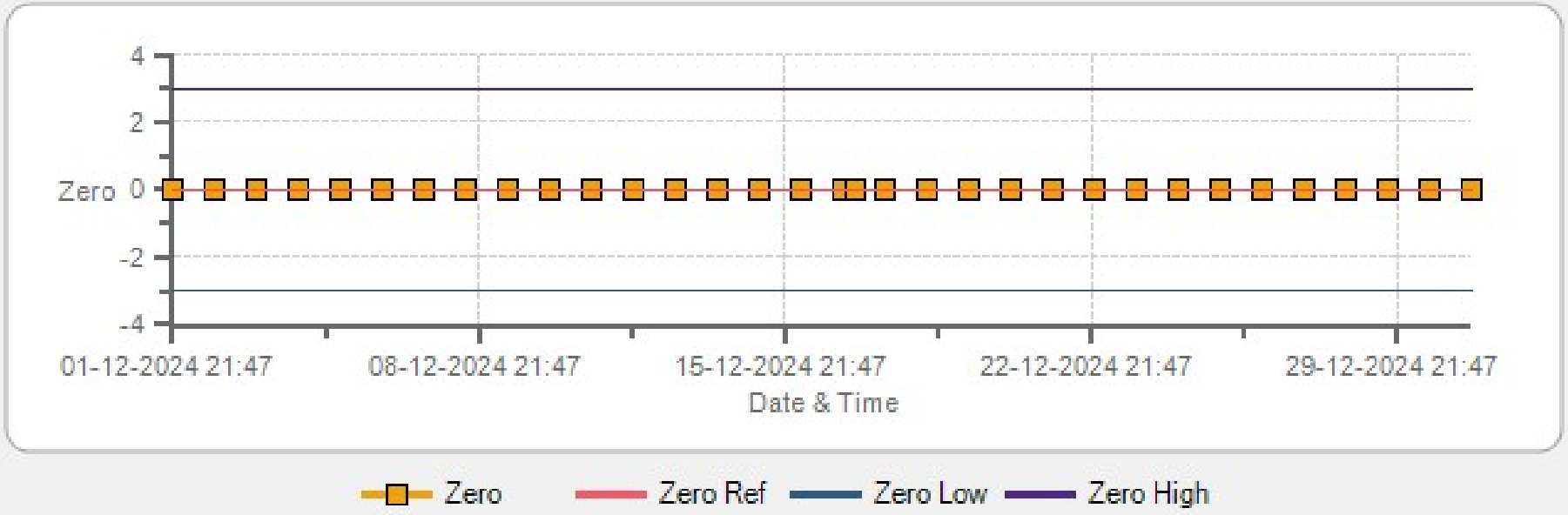


O3[ppb] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span

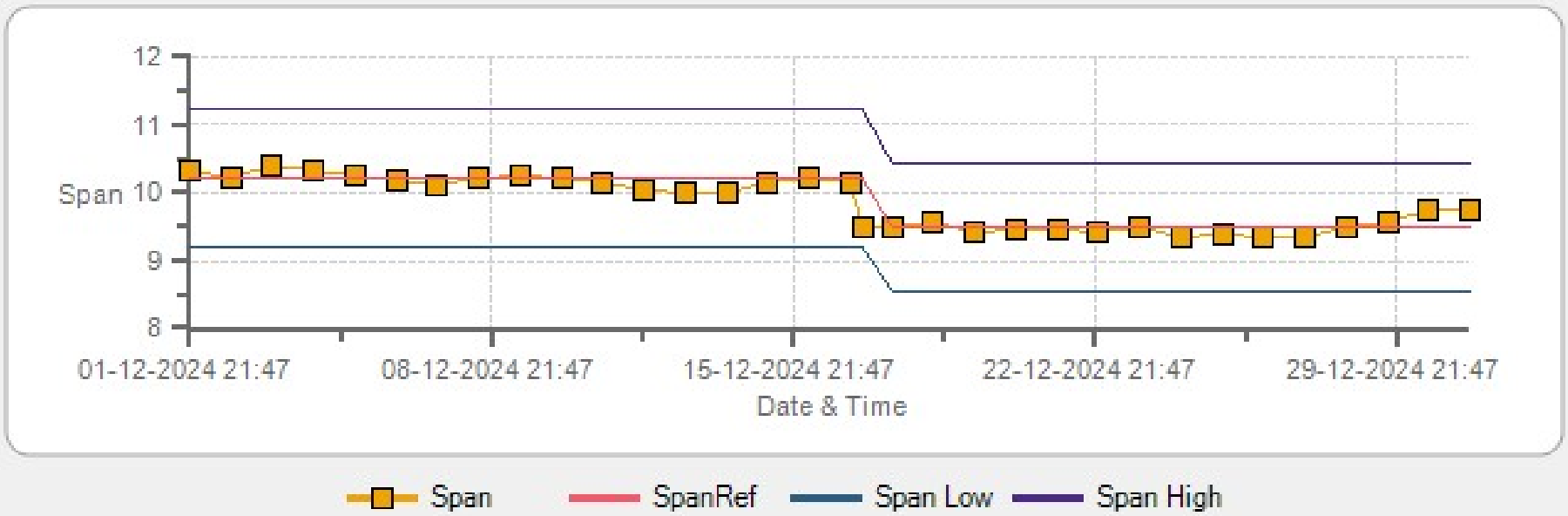



THC55[ppm] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
01-12-2024 21:47
08-12-2024 21:47
15-12-2024 21:47
22-12-2024 21:47
29-12-2024 21:47
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span
24
22
Span
20
18
01-12-2024 21:47
08-12-2024 21:47
15-12-2024 21:47
22-12-2024 21:47
29-12-2024 21:47
Date & Time
Span
SpanRef
Span Low
Span High

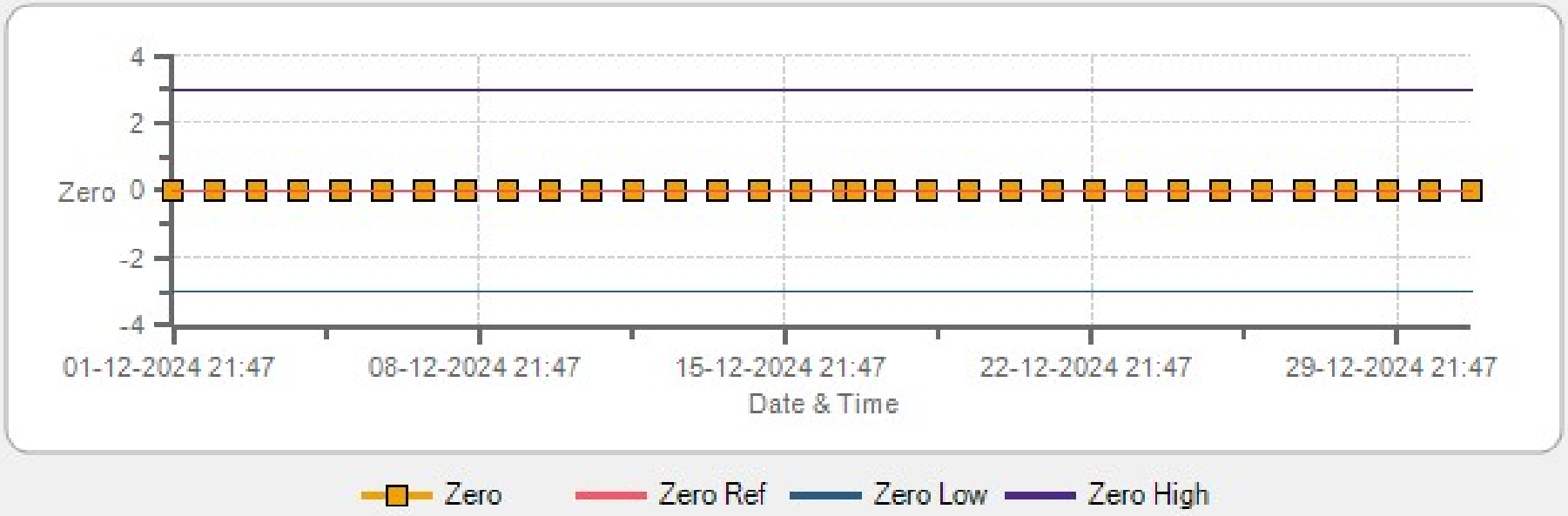
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero



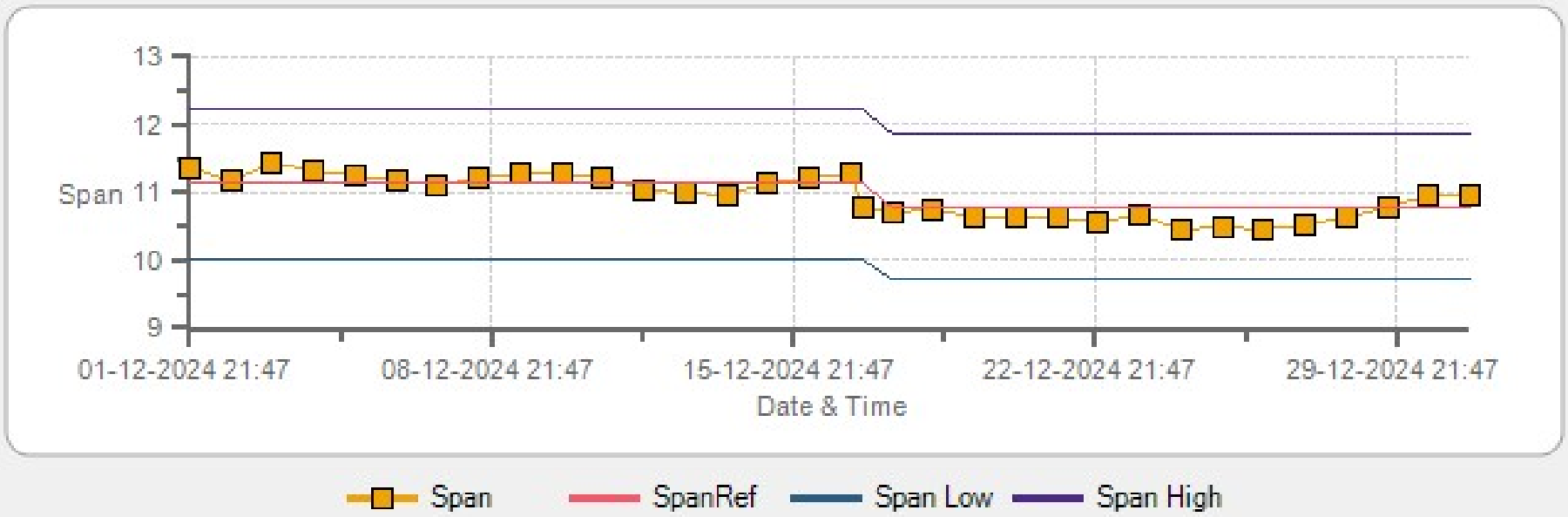
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 12-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	17-Dec-2024	PREVIOUS CALIBRATION DATE:	06-Nov-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	Grimshaw	BAROMETRIC (mBar):	960
PURPOSE	Routine	START TIME (MST):	11:41
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:38

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	463
INITIAL		FINAL	
BKG/OFFSET	36.1	BKG/OFFSET	35.2
COEF/SLOPE	0.909	COEF/SLOPE	0.918
Expected (reference) Value	266	Expected (reference) Value	263.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002518	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	14-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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	-0.5	0		
3939	60.60	4000	380.27	374	380.6	1.015	0.999
3971	28.70	4000	180.09	n/a	180.9	n/a	0.996
3986	14.30	4000	89.73	n/a	90.5	n/a	0.992

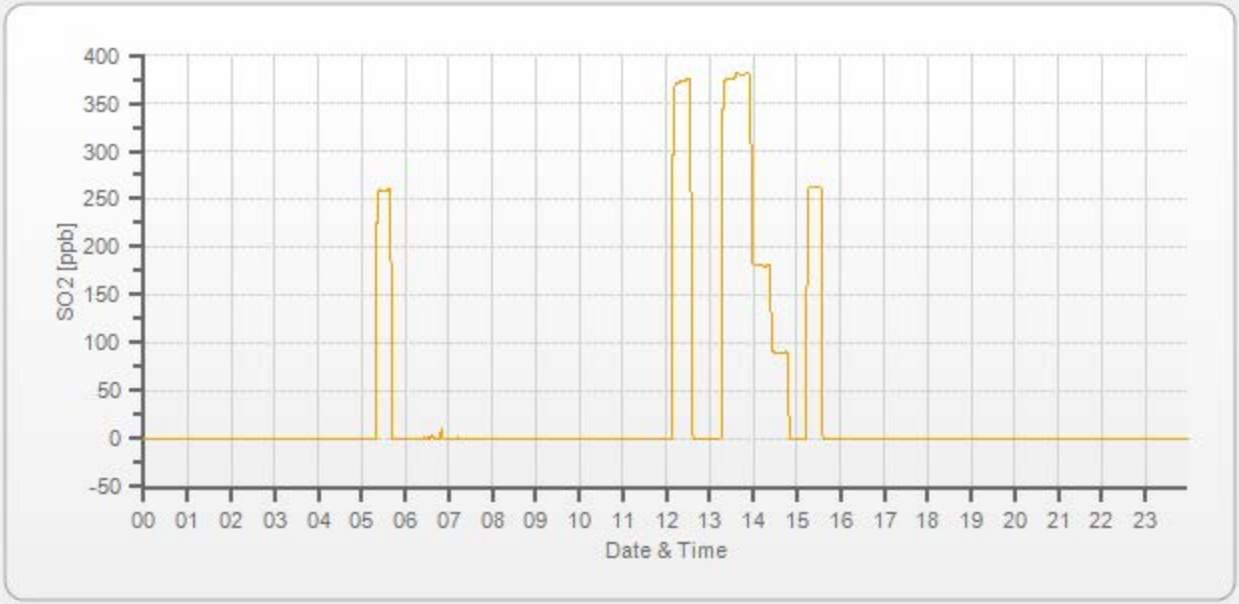
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed

SO2[ppb] Station: AQHI Grimshaw Daily: 2024-12-17 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	17-Dec-2024	PREVIOUS CALIBRATION DATE:	06-Nov-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Grimshaw	BAROMETRIC (mBar):	960
PURPOSE	Removal/Shut-down	START TIME (MST):	12:39
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:53

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12409233394	FLOW (mL/min)	376
INITIAL		FINAL	
BKG/OFFSET	1.63	BKG/OFFSET	n/a
COEF/SLOPE	1.104	COEF/SLOPE	n/a
Expected (reference) Value	64.79	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	-0.2	n/a		
3967	30.90	3998	77.98	77.42	n/a	1.005	n/a
3985	15.10	4000	38.09	38	n/a	0.997	n/a
3993	7.50	4000	18.92	19.12	n/a	0.979	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.994	0.1%

COMMENTS:

Sample filter changed

TRS Analyzer Calibration by Dilution

DATE:	17-Dec-2024	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	21.2
LOCATION:	Grimshaw	BAROMETRIC (mBar):	959
PURPOSE	Install/Post-Repair	START TIME (MST):	16:41
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	19:46

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12409233394	FLOW (mL/min)	376
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	1.74
COEF/SLOPE	n/a	COEF/SLOPE	1.087
Expected (reference) Value	n/a	Expected (reference) Value	59.84

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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:	17:14	SO2 Conc (ppb)	380
END TIME:	17:29	Analyzer Response (ppb)	0.1

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	n/a	0		
3967	30.90	3998	77.98	n/a	78.03	n/a	0.999
3985	15.10	4000	38.09	n/a	38.12	n/a	0.999
3993	7.50	4000	18.92	n/a	19.13	n/a	0.989

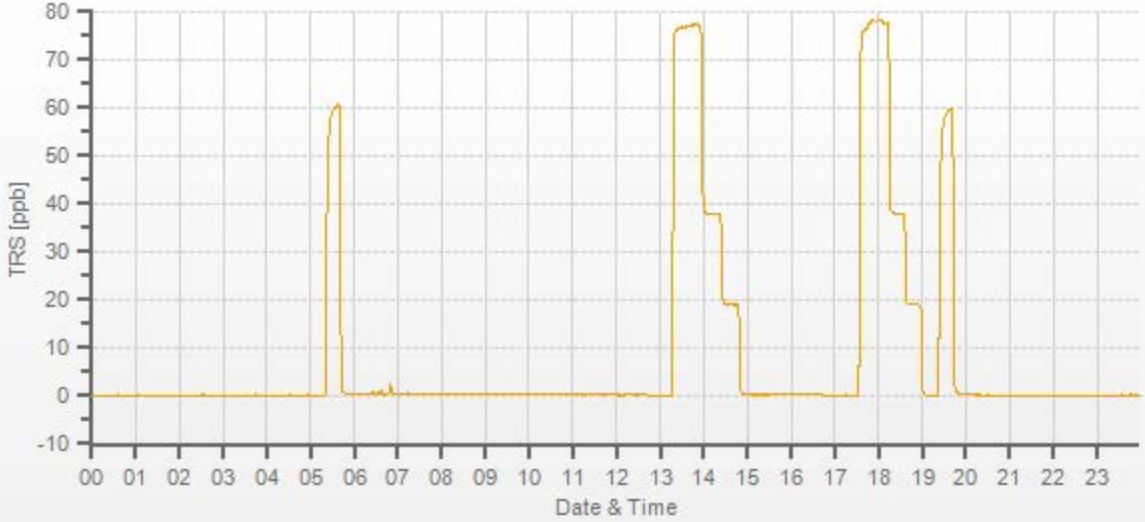
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Scrubber beads renewed

TRS[ppb] Station: AQHI Grimshaw Daily: 2024-12-17 Type: AVG 1 Min. [1 Min.]



NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

DATE:	17-Dec-2024	PREVIOUS CALIBRATION DATE:	06-Nov-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7
LOCATION:	Grimshaw	BAROMETRIC (mBar):	960
PURPOSE	Routine	START TIME (MST):	08:23
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	18:30

ANALYZER:

MAKE/MODEL:	Thermo 42iQ	PREVIOUS CF.	
SERIAL #:	12409233392	NOx	1.000
FLOW (mL/min)	650	NO	0.999
RANGE (ppb)	500	NO2	0.997
GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL18926		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	NO/NOx (PPM):	50.7	50.9	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	1900		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	11-Oct-2032		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	1.7	1.6	n/a	BKG/OFFSET:	1.7	1.6	n/a
SLOPE/COEF/CE:	1.003	1.288	0.996	SLOPE/COEF/CE:	1.003	1.332	1.014

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	244.5	1.6	242.9		234.1	1.3	232.7

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

NO/NOx CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (ppb)									CORRECTION FACTOR (CF.)					
			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		4999	0.0	0.0	0.0	-0.2	-0.1	0.1	0.0	0.0	0.0						
4960	38.90	4999	394.5	396.1	1.6	382.3	383.6	1.3	394.2	396.1	1.9	1.031	1.032		1.001	1.000	
4981	17.80	4999	180.5	181.2	0.7	n/a	n/a	n/a	178.5	179.2	0.7	n/a	n/a		1.011	1.011	
4991	8.90	5000	90.2	90.6	0.4	n/a	n/a	n/a	88.3	88.7	0.3	n/a	n/a		1.022	1.021	

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	39.00	5001	0	398.3	400.1	1.8				
AS-FOUND HIGH	39.00	5001	260	135.5	397.4	261.9	262.8	260.1	1.010	98.97%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
MID	39.00	5001	154	245.1	399.6	154.6	153.2	152.8	1.003	99.74%
LOW	39.00	5001	54	345.4	401.1	55.7	52.9	53.9	0.981	101.89%
NO2 adjustment not required.									AVERAGE:	100.20%

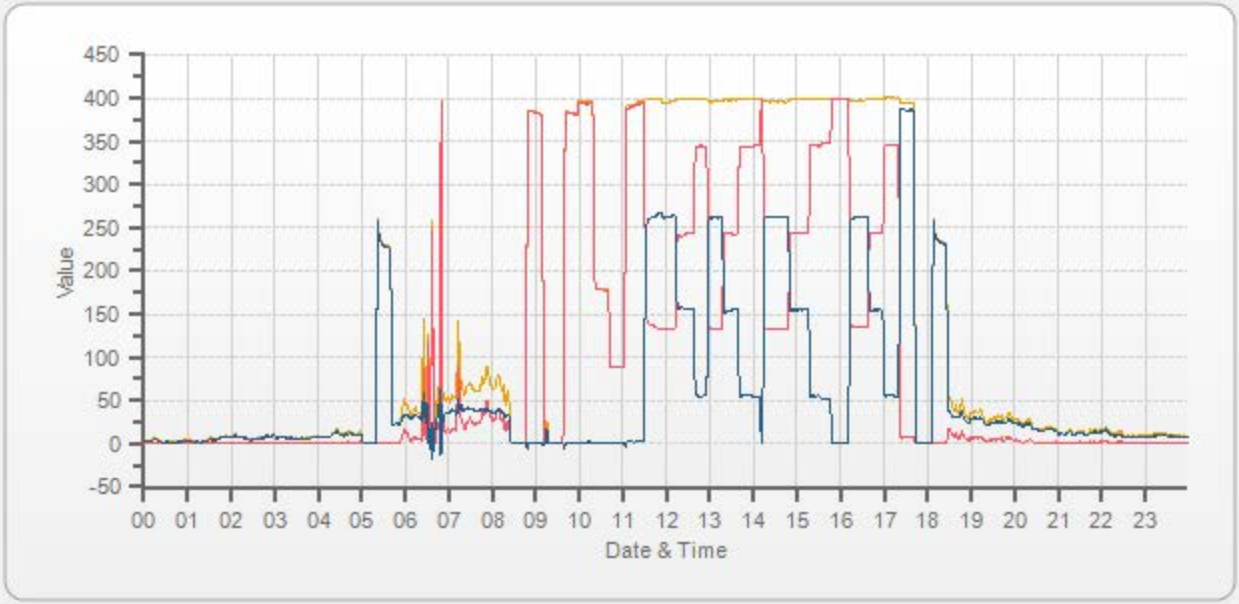
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.001	-0.23%
NOx	1.000	1.001	-0.24%
NO2	1.000	0.982	0.41%

COMMENTS:

Initial GPT attempts (x2) failed. GPT ref point repeated then OK.
Extra GPT point for O3: Setting = 380, O3 drop = 389.8

Station: AQHI Grimshaw Daily: 2024-12-17 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	18-Dec-2024	PREVIOUS CALIBRATION DATE:	06-Nov-2024
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	20.8
LOCATION:	Grimshaw	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	08:13
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:08

ANALYZER:

MAKE/MODEL	Thermo 49iQ	RANGE	500 ppb
SERIAL #	12326230141	FLOW (mL/min)	1260
INITIAL		FINAL	
BKG/OFFSET	4.2	BKG/OFFSET	4.4
COEF/SLOPE	1.02	COEF/SLOPE	1.023
Expected (reference) Value	359.5	Expected (reference) Value	362.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Sabio
MODEL:	2010	MODEL:	T701
ID:	26701218	ID:	80
MFC CALIBRATION DATE:	13-Sep-2024	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	17-Dec-2024	GPT END TIME:	17:44

CALIBRATION PARAMETERS:

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
5000		5000	0.0	-0.8	0.0		
5000		5000	389.8	387.3	390.2	1.004	0.999
5000		5000	153.2	n/a	153.9	n/a	0.995
5000		5000	52.9	n/a	53.8	n/a	0.983

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed

O3[ppb] Station: AQHI Grimshaw Daily: 2024-12-18 Type: AVG 1 Min. [1 Min.]
400
350
300
250
200
150
100
50
0
-50
O3 [ppb]
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
O3 [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	17-Dec-2024	PREVIOUS CALIBRATION DATE:	06-Nov-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7
LOCATION:	Grimshaw	BAROMETRIC (mBar):	960
PURPOSE	Routine	START TIME (MST):	08:17
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	12:20

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12101910497	1031
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	1.000	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	58100720	ID:	80	CYLINDER (psi):	800		LOW ID:	n/a
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	Yes
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	Yes

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.22	11.14	21.36		9.48	10.79	20.27

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3099		3099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3049	50.30	3099	14.56	13.44	27.99	14.53	13.57	28.09	14.56	13.49	28.05	1.002	0.990	0.997	1.000	0.996	0.998
3075	25.20	3100	7.29	6.73	14.02	n/a	n/a	n/a	7.30	6.79	14.09	n/a	n/a	n/a	0.999	0.991	0.995
3087	12.60	3100	3.65	3.36	7.01	n/a	n/a	n/a	3.63	3.39	7.02	n/a	n/a	n/a	1.004	0.992	0.999

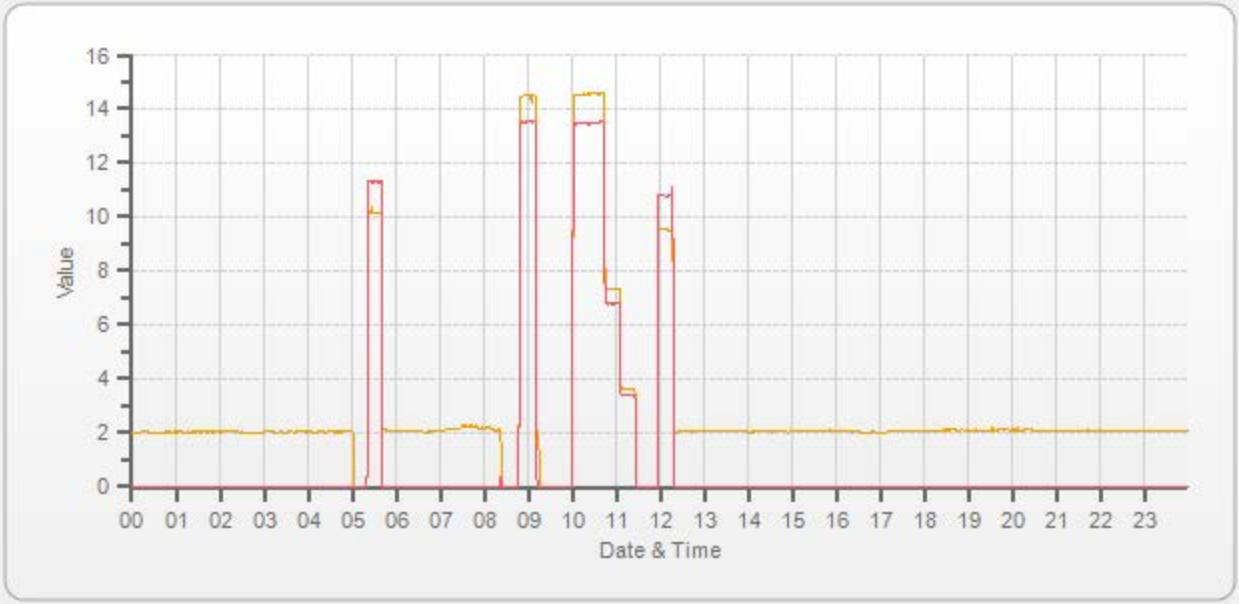
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.0%
NMHC	1.000	1.004	0.1%
THC	1.000	1.002	0.0%

Comments:

Sample filter changed

Station: AQHI Grimshaw Daily: 2024-12-17 Type: AVG 1 Min. [1 Min.]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	December 17, 2024	November 6, 2024	**Weather Conditions:**	Sunny	
Company:	PRAMP		**Start Time (mst):**	15:56	
Station:	Grimshaw		**End Time (mst):**	16:33	
Parameter:	PM 2.5		**Performed By/Reviewer:**	Kevin Sebastian	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 #177246, Exp Nov 27,2025		**Temperature:**	Deltacal DC1 #177246, Exp Nov 27,2025	
Digital Manometer:	Deltacal DC1 #177246, Exp Nov 27,2025		**Pressure:**	Deltacal DC1 #177246, Exp Nov 27,2025	

DIAGNOSTICS:

Ambient Pressure (mmHg)	718.7	Ambient Temp (°C)	-23.6	ASC Heater Duty (%)	0.0
Box Temp (°C)	25.7	Current PMT HV (V)	1540	LED Temp (°C)	33.53
P3 Value	45	PMT Setting (V)	1547	Pump PWM (%)	81
Sample Flow (L/min)	5.00	Sample RH (%RH)	3.5	Sample Temp (°C)	23.1

Item:	As-found		As-left		Tolerance
	Reference	T640x	Reference	T640x	
Zero Test (Leak Check)	PM10	0.1	0	0.0	0.0 to 0.2
	PM2.5	0.1	0	0.0	
Ambient Pressure (mmHg)	713.1	717.6	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	-24.10	-23.9	n/a		+/- 2°C
Sample Flow (L/min)	5.04	5	n/a	n/a	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
					Completed
				Inlet cleaned?	Yes
				Sample tubing inspected (inner and outer)?	Yes

Comments:

Alert: 12/16/24: System fault

Meteorological System Checklist

Date:	December 17, 2024		
Technician:	Kevin Sebastian		
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:	November 6, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	FS 181341226 expires July 24, 2025		
Reference Temperature (°C):	-25.1		
Station - Ambient Temperature (°C):	-26.3		
Temperature Difference (°C):	1.2		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	November 6, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 24,2025		
Reference Pressure - Units/Reading:	millibar	958	
Station Pressure - Units/Reading:	millibar	958	
Pressure Tolerance +/- 15% of error:	814 - 1102	0.00%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	November 6, 2024		
Reference Hygrometer ID:	FS 181341226 expires July 24, 2025		
Reference Hygrometer % RH- Reading:	81.30		
Station Hygrometer % RH- Reading:	79.00		
RH Tolerance +/- 15% of difference:	69.11 - 93.50	2.8%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	November 6, 2024	Previous check date:	November 6, 2024
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	8	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	Grimshaw	**Reviewed By:**	Limin Li
Audit Date:	August 21, 2024	**Start/End Time (mst):**	15:04 - 16:36
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:**	n/a
Sensor Model:	05305AQ	**Velocity Unit Output Range:**	0-200
Serial #:	174801	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	August 2, 2023	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	55.2	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.6	110.5	1.000
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	3	354	3.0	1.0	2.0
30	330	30	336	0.0	-6.0	3.0
60	300	59	305	1.0	-5.0	3.0
90	270	90	274	0.0	-4.0	2.0
120	240	119	239	1.0	1.0	1.0
150	210	149	207	1.0	3.0	2.0
180	180	177	178	3.0	2.0	2.5
210	150	206	149	4.0	1.0	2.5
240	120	238	118	2.0	2.0	2.0
270	90	273	90	-3.0	0.0	1.5
300	60	305	60	-5.0	0.0	2.5
330	30	336	31	-6.0	-1.0	3.5
355	0	354	3	1.0	3.0	2.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**2.3**

Comments:

Declination = 15 deg East
Horizontal bearings replaced.
Potentiometer noisy. Replacement required.

END OF REPORT

Peace River Area Monitoring Program

DECEMBER 2024

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

CAL-PRAMP-202412-01698

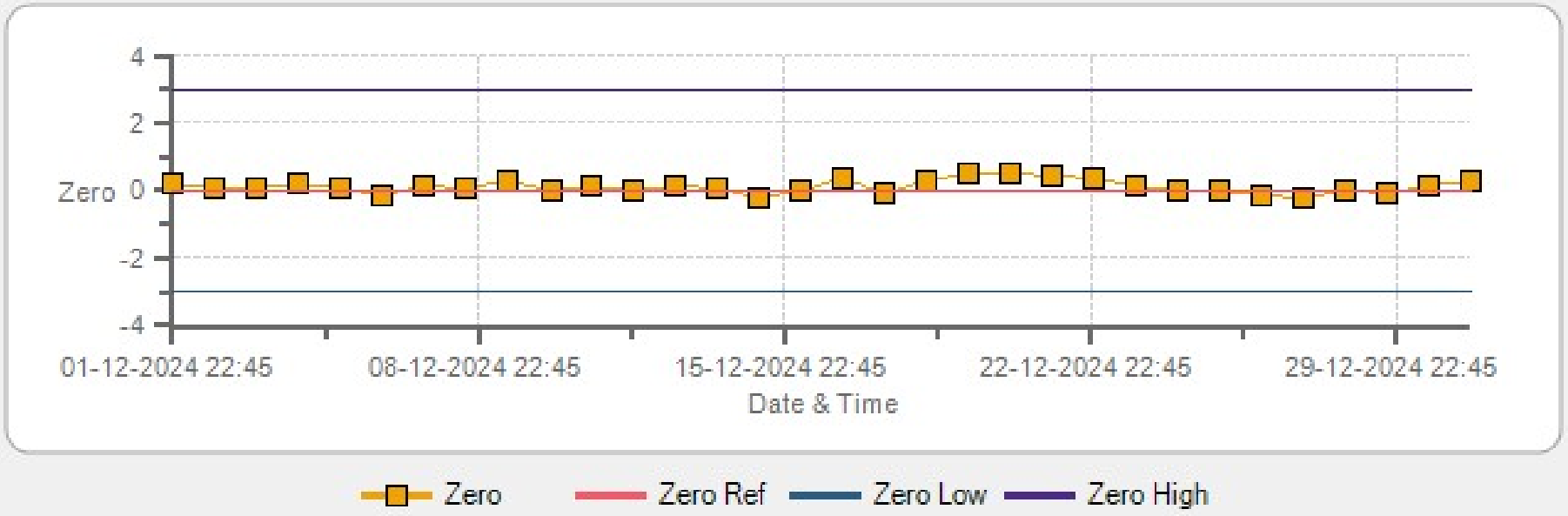
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

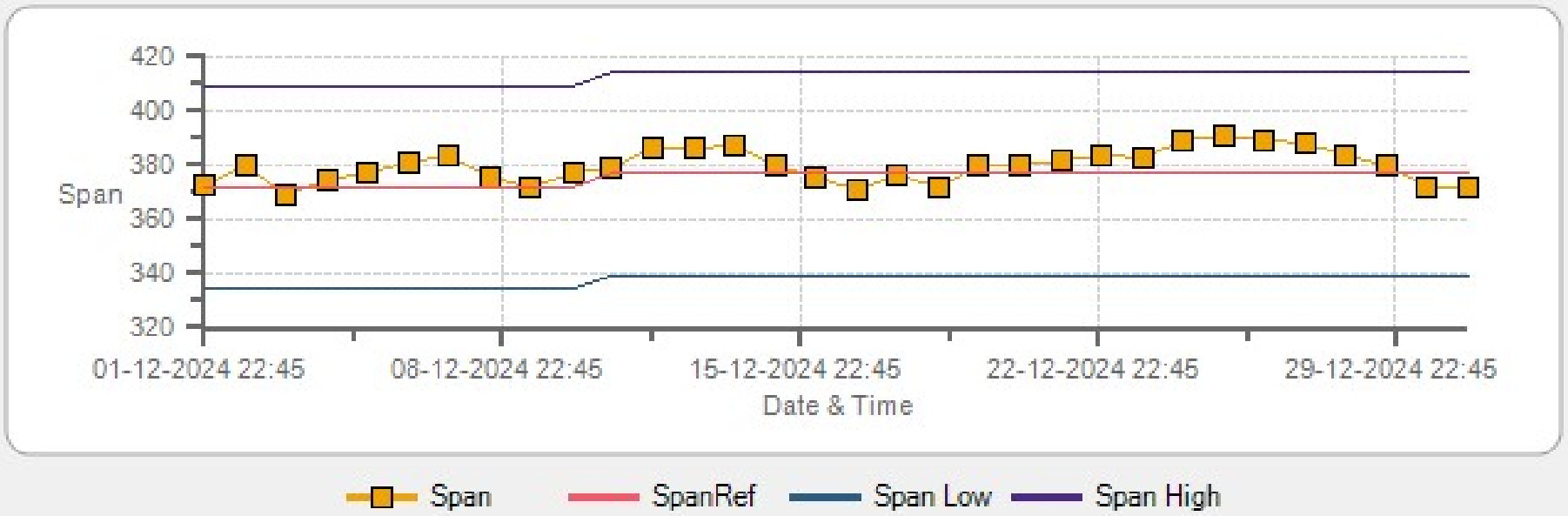
January 2, 2025

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

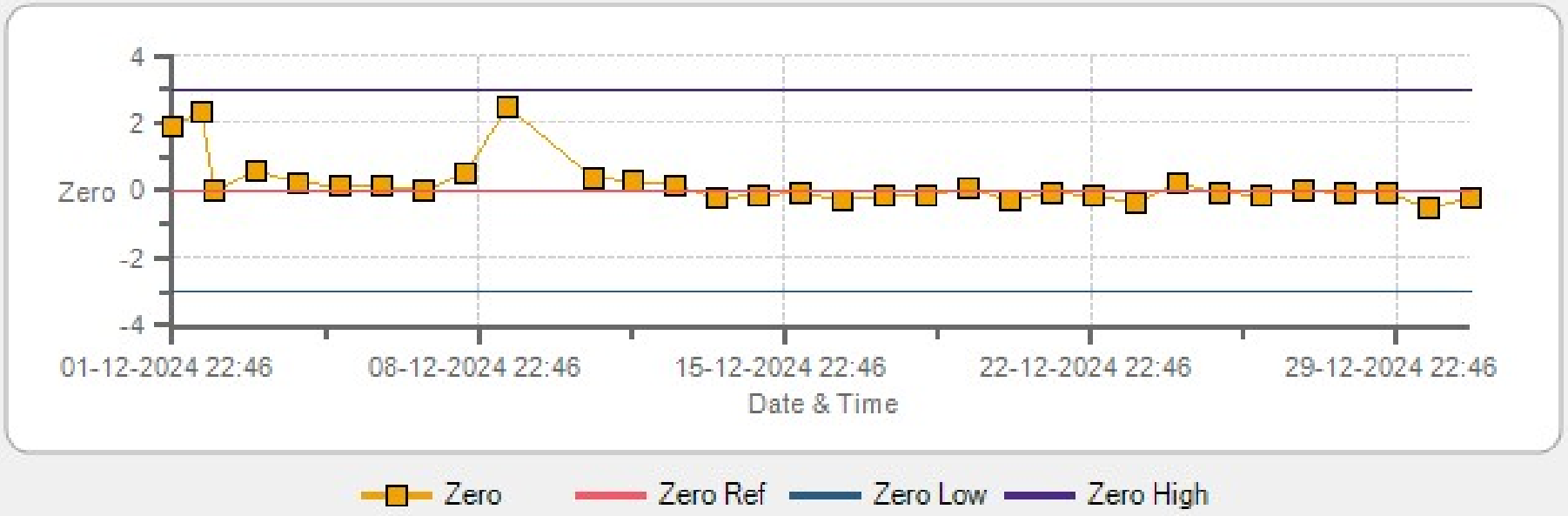
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Zero



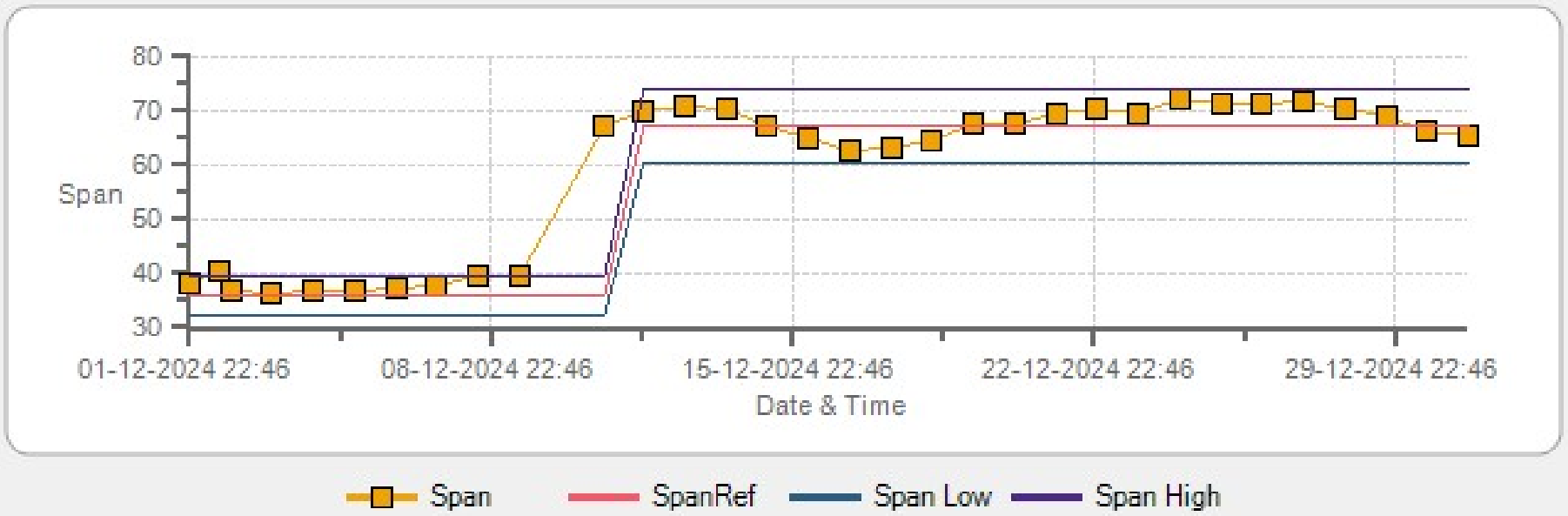
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Span



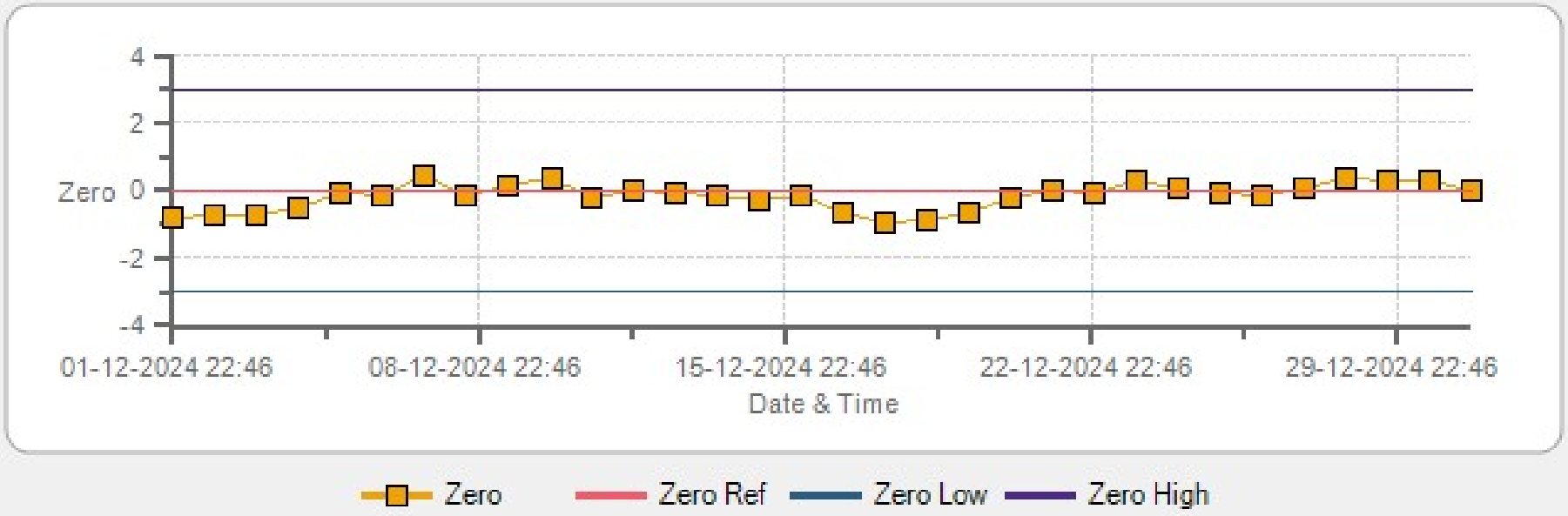
H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Zero



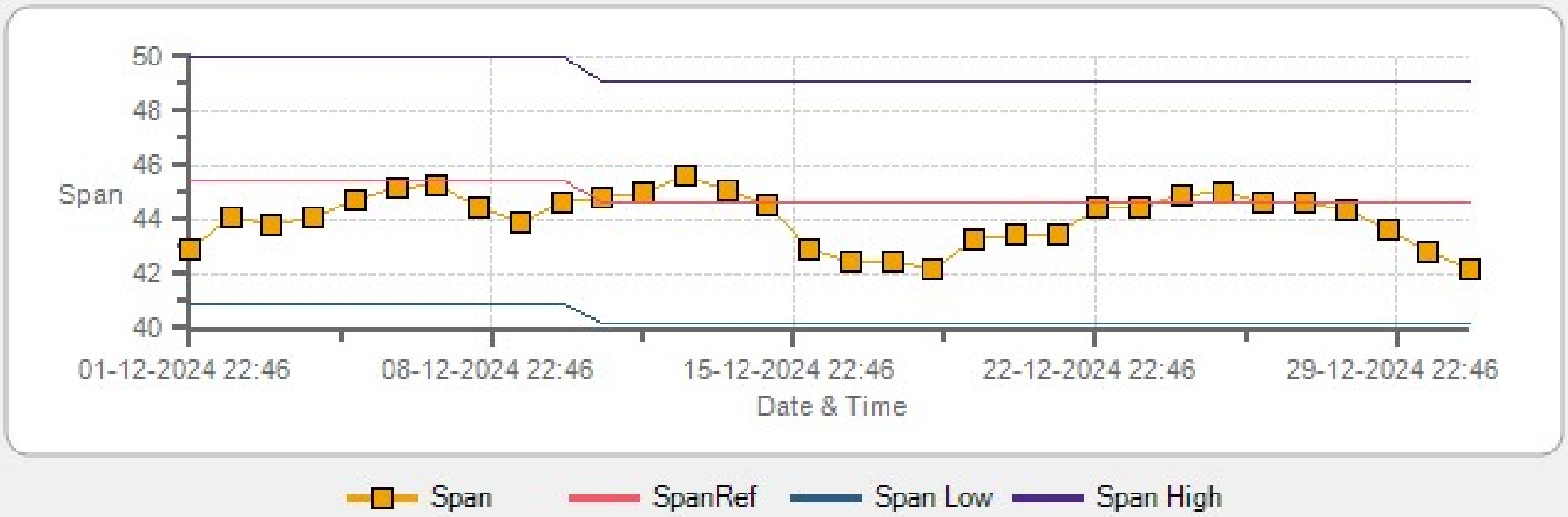
H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Span



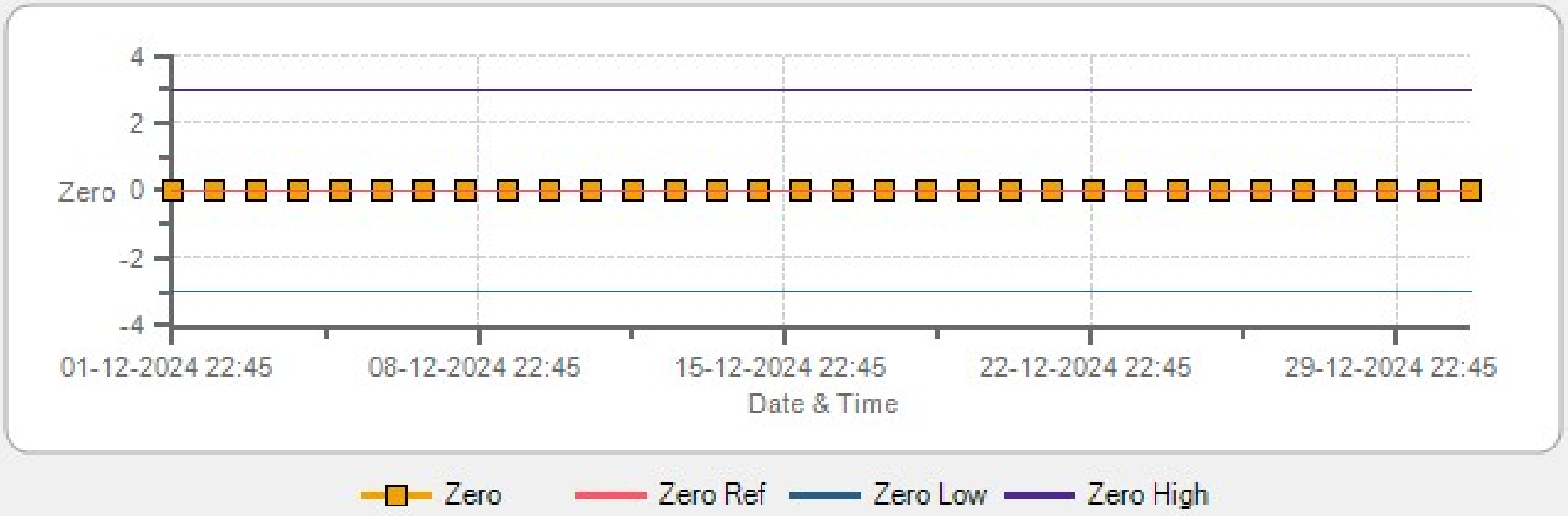
TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Zero



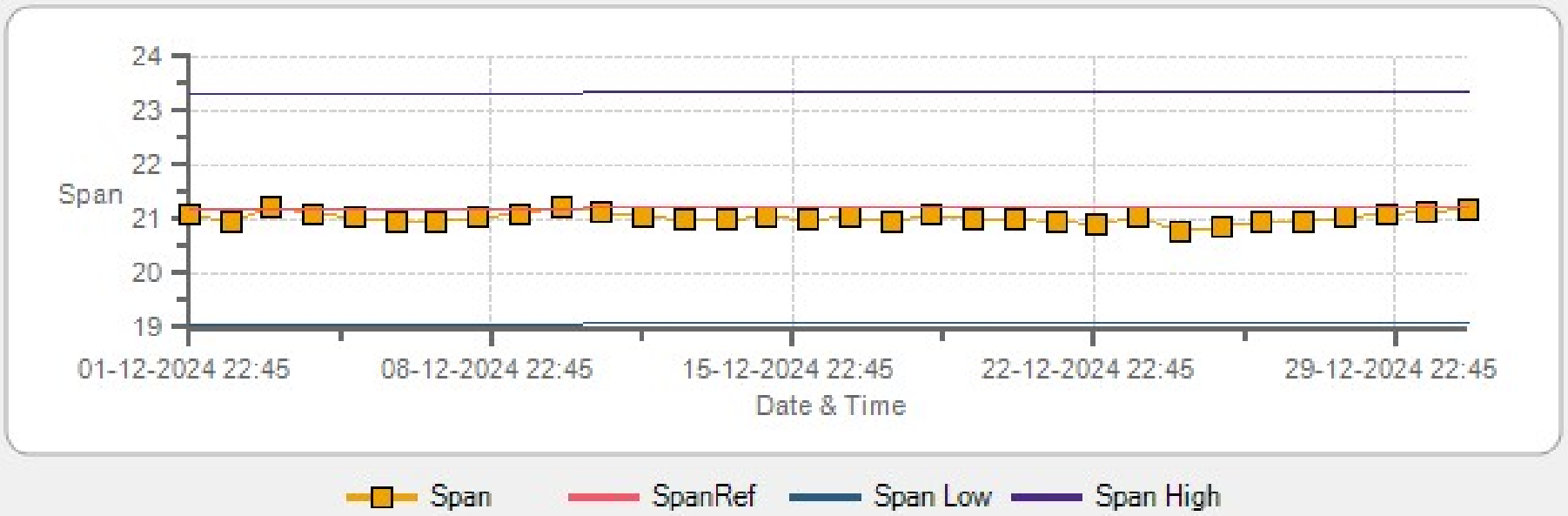
TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Span



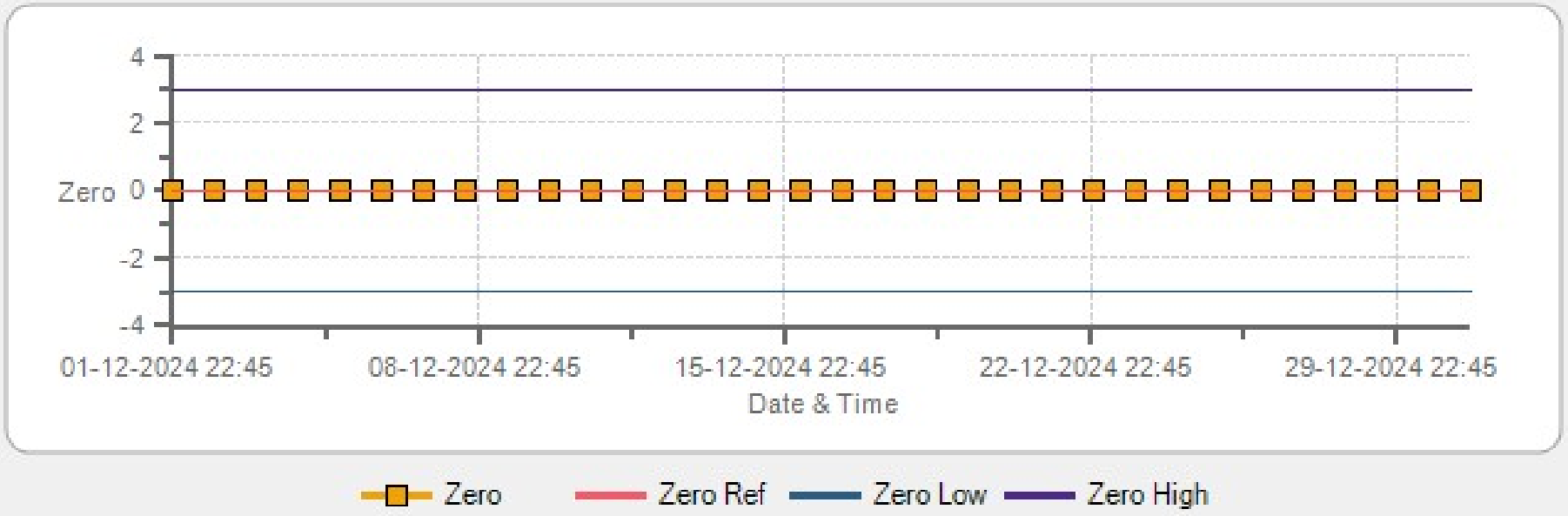
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Zero



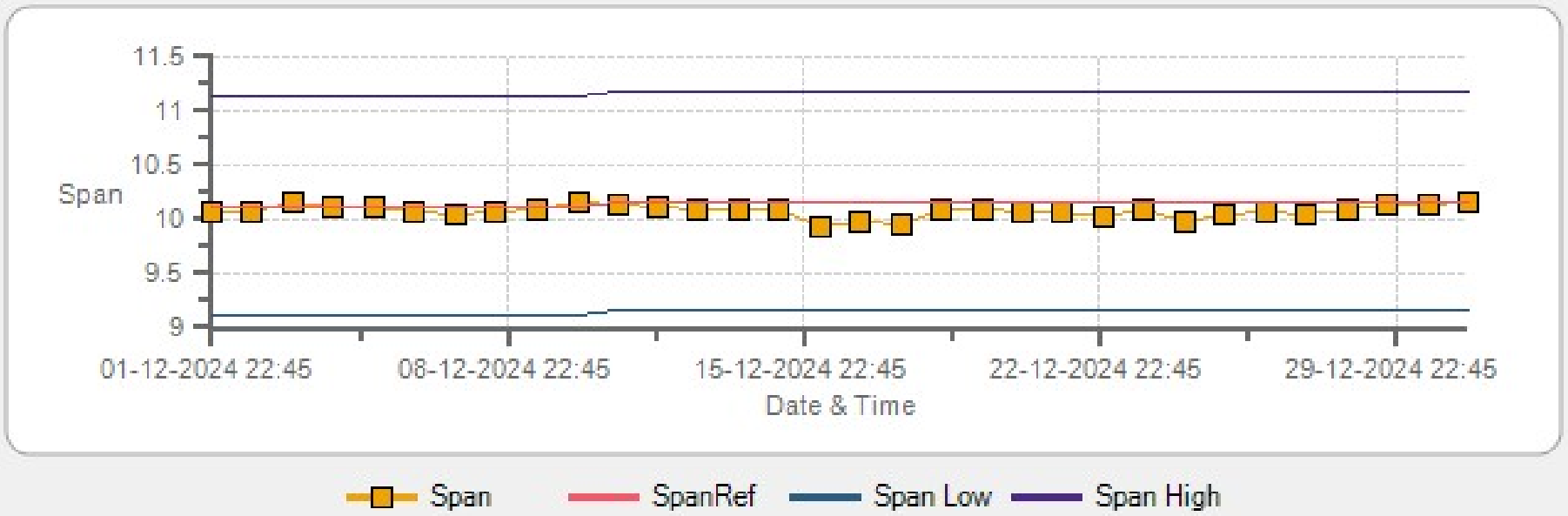
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Span



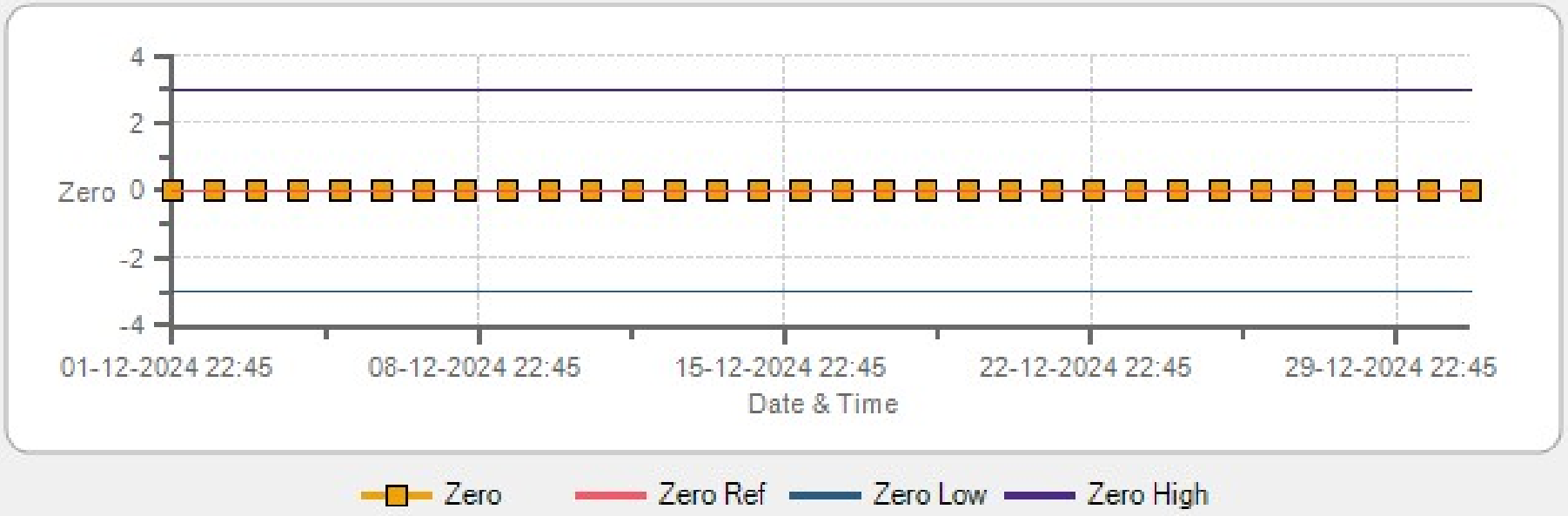
CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Zero



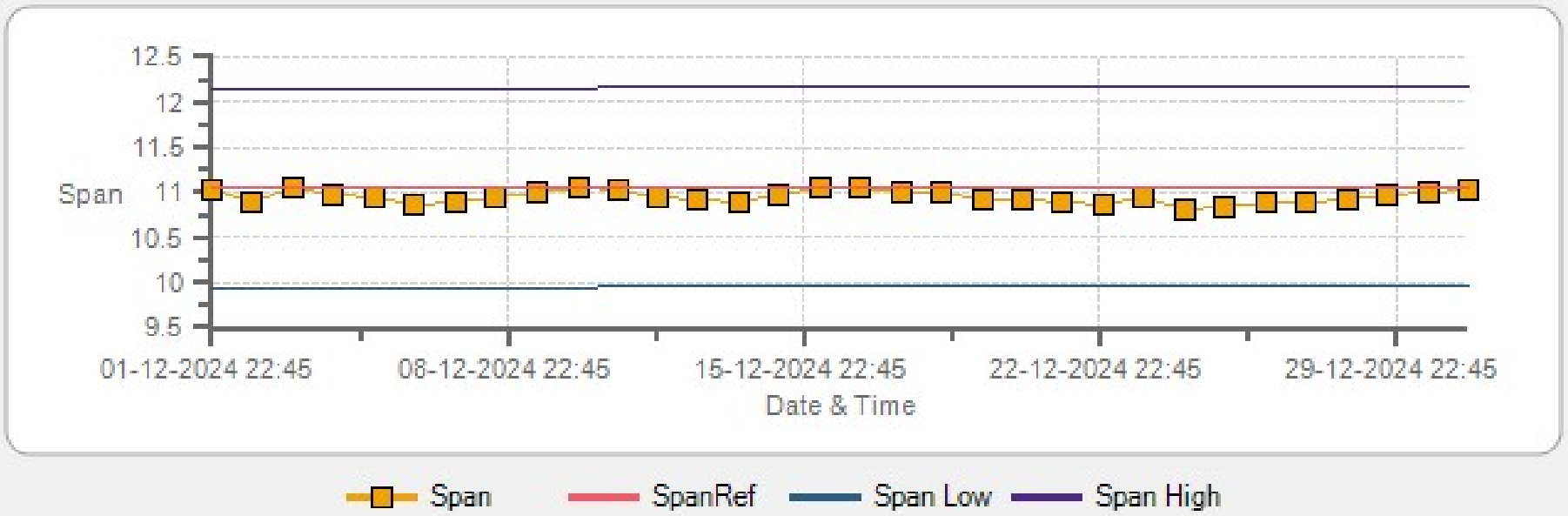
CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 12-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	10-Dec-2024	PREVIOUS CALIBRATION DATE:	20-Nov-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	10:31
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:46

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	446
INITIAL		FINAL	
BKG/OFFSET	19.8	BKG/OFFSET	20
COEF/SLOPE	1.12	COEF/SLOPE	1.131
Expected (reference) Value	371.9	Expected (reference) Value	376.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002518	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	14-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:

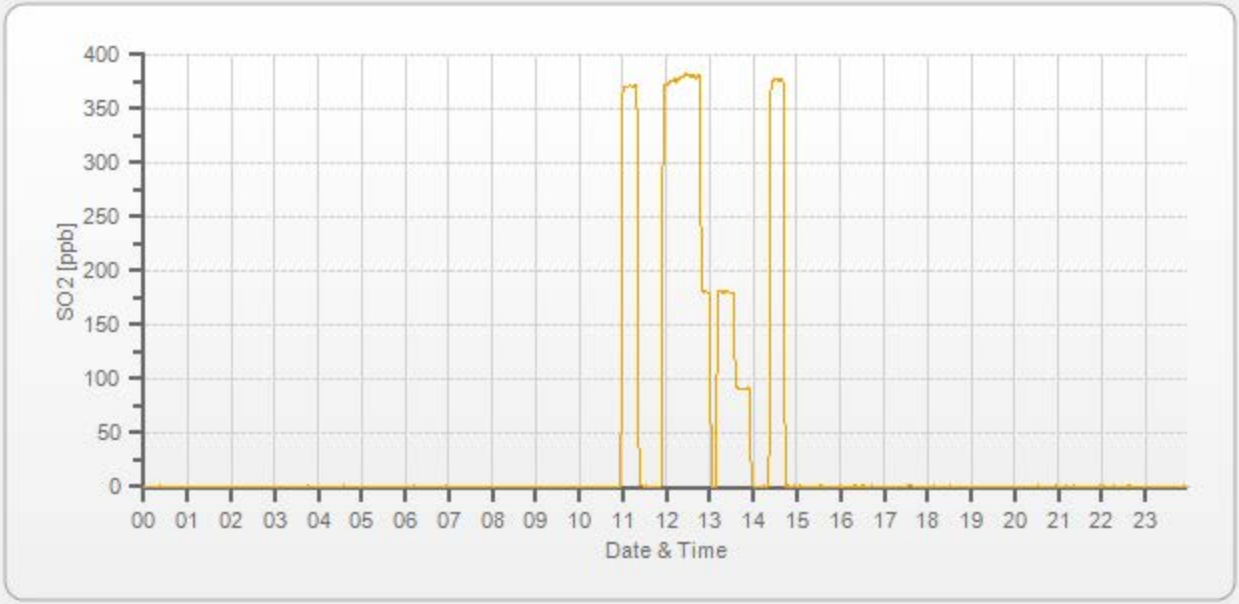
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	0.2	0		
3939	60.60	4000	380.27	371.3	379.5	1.025	1.002
3970	28.70	3999	180.14	n/a	180	n/a	1.001
3984	14.40	3998	90.41	n/a	90.6	n/a	0.998

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.998	0.0%

COMMENTS:

Sample filter changed
13:00 = Daily ZS. Mid-point restarted


SO2[ppb] Station: Peace River Complex [PRC] Daily: 2024-12-10 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
400
350
300
250
200
150
100
50
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
SO2 [ppb]

H2S Analyzer Calibration by Dilution

DATE:	10-Dec-2024	PREVIOUS CALIBRATION DATE:	20-Nov-2024
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	0.995
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	952
PURPOSE	Removal/Shut-down	START TIME (MST):	11:28
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:02

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	930
INITIAL		FINAL	
BKG/OFFSET	16.2	BKG/OFFSET	n/a
COEF/SLOPE	1.086	COEF/SLOPE	n/a
Expected (reference) Value	36.1	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	2.7	n/a		
3969	30.90	4000	77.95	79.4	n/a	1.016	n/a
3984	15.10	3999	38.10	40.2	n/a	1.016	n/a
3991	7.50	3998	18.93	21.6	n/a	1.001	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.983	2.8%

COMMENTS:

Removed due to unstable lamp voltage
13:00 = Daily ZS. Mid-point restarted

H2S[ppb] Station: Peace River Complex [PRC] Daily: 2024-12-10 Type: AVG 1 Min. [1 Min.]

H2S Analyzer Calibration by Dilution

DATE:	11-Dec-2024	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	944
PURPOSE	Install/Post-Repair	START TIME (MST):	10:14
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:05

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	100 ppb
SERIAL #	1014	FLOW (mL/min)	501
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	8.425
COEF/SLOPE	n/a	COEF/SLOPE	1.804
Expected (reference) Value	n/a	Expected (reference) Value	67.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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:	11:01	SO2 Conc (ppb)	380
END TIME:	11:16	Analyzer Response (ppb)	0.1

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	n/a	0		
3969	30.90	4000	77.95	n/a	78	n/a	0.999
3984	15.10	3999	38.10	n/a	38.2	n/a	0.997
3991	7.50	3998	18.93	n/a	18.9	n/a	1.001

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.0%

COMMENTS:

Actual Model = Teledyne T101 (BV analyzer)
11:24 = Regulator flushed to check response.
12:00 = Daily ZS. High point restarted.

H2S[ppb] Station: Peace River Complex [PRC] Daily: 2024-12-11 Type: AVG 1 Min. [1 Min.]
H2S [ppb]
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
H2S [ppb]

TRS Analyzer Calibration by Dilution

DATE:	10-Dec-2024	PREVIOUS CALIBRATION DATE:	20-Nov-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.004
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	10:30
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:46

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	692
INITIAL		FINAL	
BKG/OFFSET	30.2	BKG/OFFSET	31
COEF/SLOPE	1.074	COEF/SLOPE	1.098
Expected (reference) Value	45.45	Expected (reference) Value	44.62

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	T701
ID:	58100720	ID:	80
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL131374	HIGH ID	n/a
CONC (ppm):	10.09	EXPIRY DATE	n/a
CYLINDER (psi):	700	LOW ID	n/a
EXPIRY DATE	03-Jan-2026	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	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	-0.22	0		
3969	30.90	4000	77.95	76.22	78.51	1.020	0.993
3984	15.10	3999	38.10	n/a	37.54	n/a	1.015
3991	7.50	3998	18.93	n/a	19.47	n/a	0.972

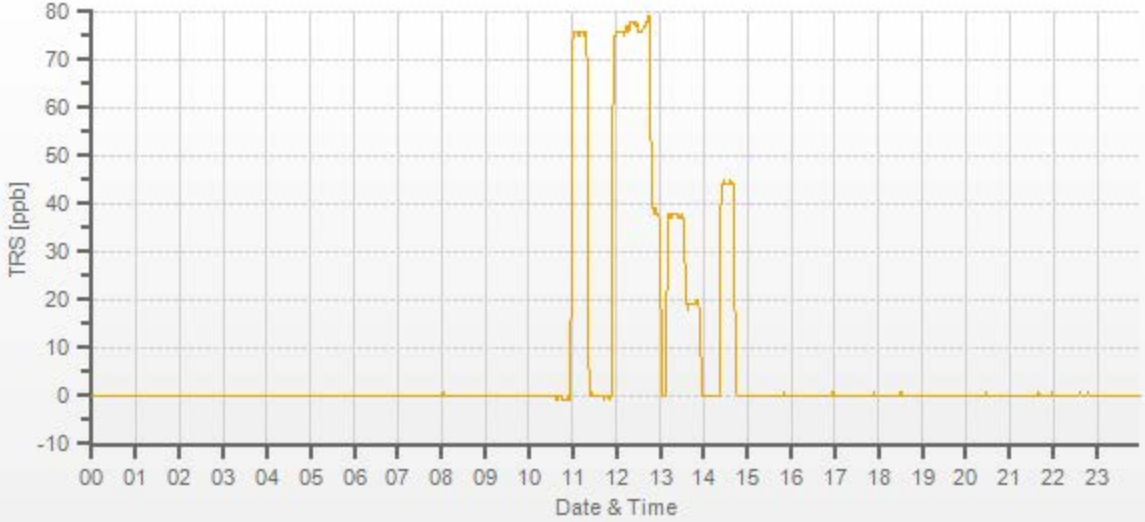
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.004	0.0%

COMMENTS:

Sample filter changed
13:00 = Daily ZS. Mid-point restarted

TRS[ppb] Station: Peace River Complex [PRC] Daily: 2024-12-10 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	10-Dec-2024	PREVIOUS CALIBRATION DATE:	20-Nov-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	10:31
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:22

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1034745845	1108
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	0.998	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	Teledyne	CYLINDER ID:	LL68768		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	CH_4/C_3H_8 (ppm):	897.0	301.0	HIGH EXPIRY:	n/a
ID:	58100720	ID:	80	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	16-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	08-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE		Zero Chrom	
TARGET	14	7	3.5	C_3H_8 as CH_4	827.75	Use Zero Chrom?	No
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1724.75	New Zero Chrom?	No

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.12	11.05	21.18		10.17	11.06	21.23

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3499		3499	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3443	56.80	3500	14.56	13.43	27.99	14.45	13.39	27.84	14.59	13.46	28.04	1.007	1.003	1.005	0.998	0.998	0.998
3471	28.40	3499	7.28	6.72	14.00	n/a	n/a	n/a	7.25	6.69	13.95	n/a	n/a	n/a	1.004	1.004	1.004
3486	14.20	3500	3.64	3.36	7.00	n/a	n/a	n/a	3.66	3.36	7.02	n/a	n/a	n/a	0.994	0.999	0.997

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.002	0.0%
NMHC	1.000	1.002	-0.1%
THC	1.000	1.001	0.0%

Comments:

Sample Filter Changed

Station: Peace River Complex [PRC] Daily: 2024-12-10 Type: AVG 1 Min. [1 Min.]

Meteorological System Checklist

Date:	December 11, 2024		
Technician:	Kevin Sebastian		
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:	November 20, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 181341226 expires July 17, 2024		
Reference Temperature (^{o}C):	-10.1		
Station - Ambient Temperature (^{o}C):	-10.5		
Temperature Difference (^{o}C):	0.4		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	November 20, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 17, 2024		
Reference Pressure - Units/Reading:	millibar	941	
Station Pressure - Units/Reading:	millibar	943	
Pressure Tolerance +/- 15% of error:	800 - 1082	-0.21%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	November 20, 2024		
Reference Hygrometer ID:	F.S. 181341226 expires July 17, 2024		
Reference Hygrometer % RH- Reading:	93.80		
Station Hygrometer % RH- Reading:	95.10		
RH Tolerance +/- 15% of difference:	79.73 - 107.87	-1.4%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	November 20, 2024	Previous check date:	November 20, 2024
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	1.2	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass
Comments			
No issues.			

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	PRC Compliance	**Reviewed By:**	Limin Li
Audit Date:	September 10, 2024	**Start/End Time (mst):**	08:15 - 10:37
Calibration Purpose:	routine annual	**Weather Conditions:**	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 #:	129612	**Direction Voltage Output Range:**	0-1
Previous Cal/Audit Date:	August 3, 2024	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# R9133 expires Oct 18, 2024

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	18.4	18.5	0.999
2000	36.9	36.9	37.0	0.998
3000	55.3	55.4	55.4	0.998
4000	73.7	73.9	73.8	0.998
5000	92.2	92.4	92.2	0.998
6000	110.6	110.9	110.9	0.997
7000	129.0	129.4	129.5	0.997
8000	147.4	148.1	147.9	0.996
9000	165.9	166.7	166.7	0.995
10000	184.3	185.4	185.4	0.994
		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	31	329	-1.0	1.0	1.0
60	300	62	300	-2.0	0.0	1.0
90	270	93	270	-3.0	0.0	1.5
120	240	122	242	-2.0	-2.0	2.0
150	210	152	213	-2.0	-3.0	2.5
180	180	183	182	-3.0	-2.0	2.5
210	150	212	152	-2.0	-2.0	2.0
240	120	241	122	-1.0	-2.0	1.5
270	90	270	91	0.0	-1.0	0.5
300	60	300	61	0.0	-1.0	0.5
330	30	329	30	1.0	0.0	0.5
355	0	353	2	2.0	2.0	2.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.4**

Comments:

Declination = 15 deg East
Physical inspection completed, bearings replaced

END OF REPORT

List of SOPs

MONITOR	SOP
SULPHUR DIOXIDE (SO_2)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
HYDROGEN SULPHIDE (H_2S)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL REDUCED SULPHUR (TRS)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
TOTAL HYDROCARBONS (THC), METHANE (CH4), NON-METHANE(NMHC)	Bureau Veritas EMS SOP-00001: Methane, Non-Methane Hydrocarbon Analyzer Monitoring
OXIDES OF NITROGEN (NOx), NITRIC OXIDE (NO) & NITROGEN DIOXIDE (NO_2)	Bureau Veritas EMS SOP-00213: Ambient NO/NO_2/NOx Monitoring
OZONE (O3)	Bureau Veritas EMS SOP-00212: Ambient O3 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

DECEMBER 2024

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202412-INTEGRATED

January 14, 2025

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

January 14, 2025

Alberta Environment and Protected Areas (EPA)
11th Floor, Oxbridge Place
9820 106 Street
Edmonton, AB, T5K 2J6

RE: PRAMP – December 2024 Monthly Ambient Air Quality Monitoring Integrated Sampling Report

Enclosed is the December 2024 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: pramptech@prampairshed.ca

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

NETWORK STATION SUMMARY

Listing of Integrated Sampling Stations

- 986-C Station
- 842-B Station
- Reno-B Station
- Peace River Complex (PRC) Station

Station Name	986-C	842-B	Reno-B	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_2S, 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	EPA	EPA
Passives: H_2S, SO_2	PRAMP	Bureau Veritas	PRAMP	PRAMP

Monitoring Notes during the Month of December 2024

- **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 valid NMHC canister events were recorded this month. The canister event that was triggered on December 4 at 18:00 at the Reno-B station was not valid as the system was triggered during the HC analyzer malfunction period.

- **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 November and December were installed on October 31. They were removed on December 31.
  - The sample media for sampling period of January and February 2025 were installed on December 31. They are scheduled to be removed by the end of February.

- **Passives H_2S and SO_2 Sampling Program**
  - There were no exceedances of the AAAQOs for all monitored parameters at any of the passive stations during this month.
  - The passive sample filters were installed at the stations on November 29 and were removed on December 31.

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).

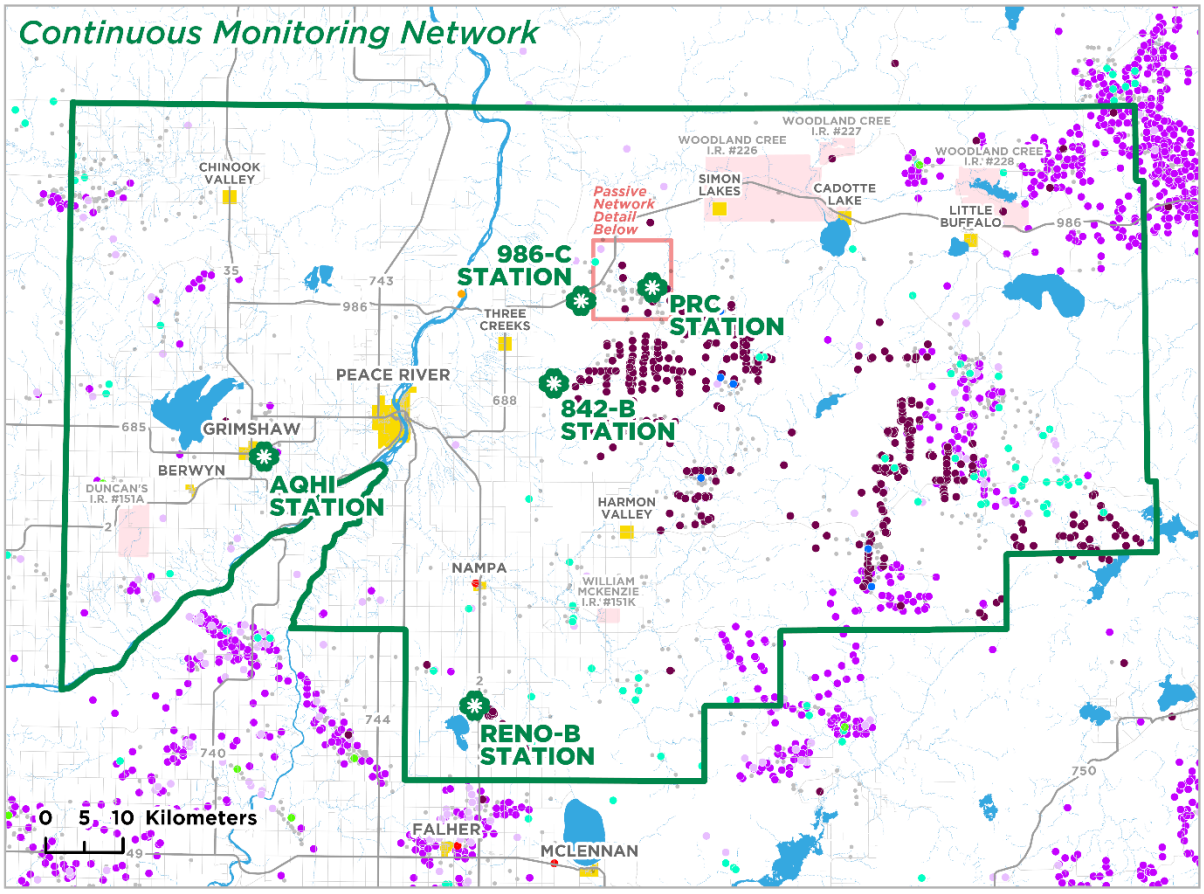
Lily Lin, Technical Program Manager, PRAMP Airshed

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.

Michael Bisaga, Technical Program Manager, PRAMP Airshed

Map of PRAMP Continuous Monitoring and Integrated Sampling Network

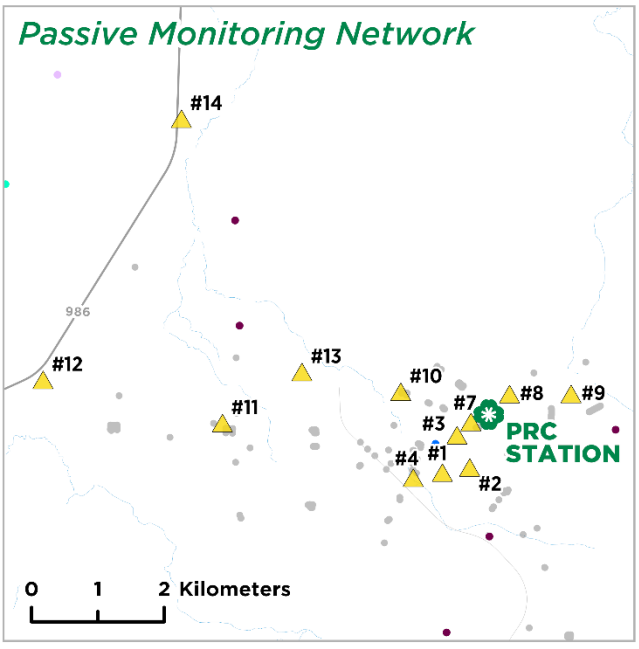


Legend

- PRAMP Boundary
- Populated Place
- First Nation
- Continuous Monitoring Station
- Passive Monitoring Station

Industrial Facilities

- In-Situ Oil Sands
- Heavy Oil/Bitumen Well or Battery
- Conventional Oil Well or Battery
- Natural Gas Well or Battery
- Gas Plant or Gas Processing
- Compressor Station or Pipeline
- Agricultural Storage and Transfer
- Pulp and Paper
- Well (Not Associated with Batteries)



Service Layer Credits: Esri, CGIAR, USGS, Esri, USGS

INTEGRATED SAMPLING RESULTS SUMMARY

- **NMHC analytical results**

  No canister events were recorded this month.

- **Passive analytical results**

	H_2S		SO_2	
Minimum (ppb)	<0.02	#2	<0.1	#1
Maximum (ppb)	0.22	#10	0.5	#12
Average (ppb)	0.11	-	0.28	-

ANALYTICAL SAMPLING RESULTS

Passives

peace river area monitoring program pramp

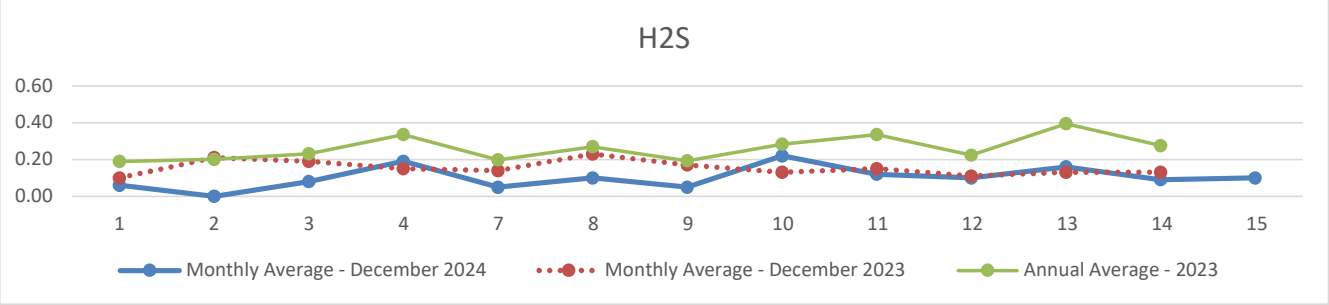
PEACE RIVER AREA MONITORING PROGRAM

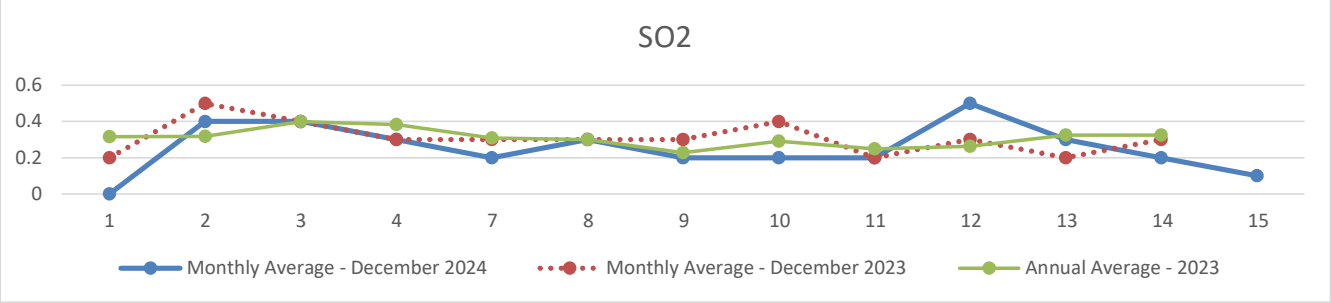
PRC Site - December 2024

Passive Results

	H_2S		SO_2	
Minimum (ppb)	<0.02	#2	<0.1	#1
Maximum (ppb)	0.22	#10	0.5	#12
Average (ppb)	0.11	-	0.28	-

No.	Calculated Value	Calculated Value
1	0.06	<0.1
2	<0.02	0.4
3	0.08	0.4
4	0.19	0.3
7	0.05	0.2
8	0.10	0.3
9	0.05	0.2
10	0.22	0.2
11	0.12	0.2
12	0.10	0.5
13	0.16	0.3
14	0.09	0.2
15	0.10	0.1
Reportable Detection Limit (RDL)	**0.02**	**0.1**





End of Report

Peace River Area Monitoring Program

DECEMBER 2024

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202412

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

January 2, 2025

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Passive Sampling Analytical Results

6744 - 50 St. Edmonton AB Canada T6B 3M9

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

Bureau Veritas Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Invoice To	
Company Name	Peace River Area Monitoring
Contact Name	Brenda Barber / Karla Reesor
Address	Suite 91, 305-4625 Varsity Drive NW
City/Postal Code	Calgary, T3A 0Z9
Phone/Fax#	##

Report To
Name & Email Address
Michael and Lily
pramptech@prampairshed.ca

Service Requested
☐ RUSH
(Please contact for TAT)
☐ REGULAR

Company Name
Peace River
Project Name/LSD
Passive monitoring Program

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	NH3	PM2.5	PM10	TSP	Dustfall				
1	29/11/24	8:00	31/12/24	07:00		X	X											
2						X	X											
3						X	X											
4						X	X											
7						X	X											
8						X	X											
9						X	X											
10						X	X											
11						X	X											
12						X	X											
13						X	X											
14						X	X											
15		11:00		11:00		X	X											
Blank						X	X											
Blank						X	X											

Notes/Comments: Client 12521 / Scenario 18009

Sampled By Bo Guerin Phone/Email 6181880 Received By Bo Guerin Date/Time Dec 31-24 Project # CNRL PRC

Date Shipped December 31 - 24 Signature _____ PO# 15501 15425 IB250103 C08100

PTC FCD-00457/4

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions.

Your Project #: 2024/11/29-2024/12/31
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: 2025/01/14
Report #: R3610934
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C500427
Received: 2025/01/03, 08:00

Sample Matrix: Air
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	13	2025/01/07	2025/01/13	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	13	2025/01/06	2025/01/13	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

Rowena Geron
Customer Service Associate
14 Jan 2025 09:35:35

Please direct all questions regarding this Certificate of Analysis to:
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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.

Bureau Veritas Edmonton: 6744 - 50th Street, T6B 3N7 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C500427
Report Date: 2025/01/14

Peace River Area Monitoring Program Committee
Client Project #: 2024/11/29-2024/12/31
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		DCS275	DCS276	DCS277	DCS278	DCS279	DCS280	DCS281		
Sampling Date		2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.06	<0.02 (1)	0.08	0.19	0.05	0.10	0.05	0.02	B653495
Calculated SO2	ppb	<0.1 (1)	0.4	0.4	0.3	0.2	0.3	0.2	0.1	B653107
RDL = Reportable Detection Limit (1) v7										

Bureau Veritas ID		DCS282	DCS283	DCS284	DCS285	DCS286	DCS287		
Sampling Date		2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 08:00	2024/11/29 11:00		
	UNITS	10	11	12	13	14	15	RDL	QC Batch
Passive Monitoring									
Calculated H2S	ppb	0.22	0.12	0.10	0.16	0.09	0.10	0.02	B653495
Calculated SO2	ppb	0.2	0.2	0.5	0.3	0.2	0.1	0.1	B653107
RDL = Reportable Detection Limit									

Bureau Veritas Edmonton: 6744 - 50th Street T6B 3V9 Telephone (780) 378-8500 Fax (780) 378-8699

GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C500427
Report Date: 2025/01/14

Peace River Area Monitoring Program Committee
Client Project #: 2024/11/29-2024/12/31
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
B653107	OZ	Spiked Blank	Calculated SO2			100	%	90 - 110
B653107	OZ	Method Blank	Calculated SO2		<0.1		ppb	
B653495	YYA	Spiked Blank	Calculated H2S			100	%	90 - 110

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

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

Bureau Veritas Job #: C500427
Report Date: 2025/01/14

Peace River Area Monitoring Program Committee
Client Project #: 2024/11/29-2024/12/31
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:

Steven Gloux, Senior Analyst

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Bureau Veritas Edmonton: 6744 - 50th Street T6B 3V8 Telephone (780) 378-8500 Fax (780) 378-8699

End of Report