Peace River Area Monitoring Program

NOVEMBER 2024

Monthly Ambient Air Quality Monitoring Report

PRAMP-202411

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

November 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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November 17,

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

Enclosed is the November 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 November 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 November 2024

986-CStation

- No operational issues were identified this month.

842-B Station

- No operational issues were identified this month.

Reno-B Station

- No operational issues were identified this month.

PRC Station

- No operational issues were identified this month.

AQHI – Grimshaw Station

- No operational issues were identified this month.

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

- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.

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.
- One NMHC canister event was recorded this month.

Station	Date	Time of Concentration Reached Trigger Point	NMHC 5-minute Concentration (ppm)	Time of Canister Triggered
Reno-B	22-Nov	05:00	0.33	05:05

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).

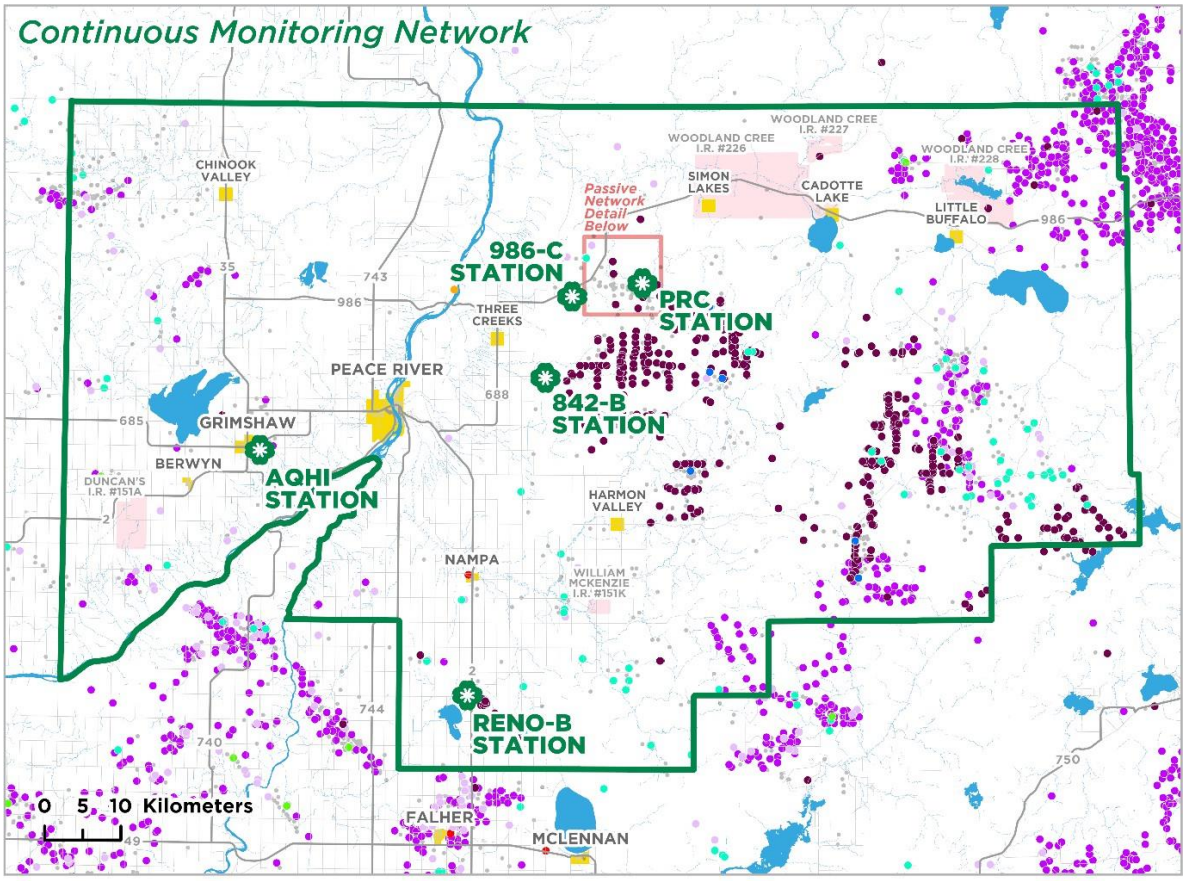
Lily Lin, Technical Program Manager, PRAMP Airshed

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



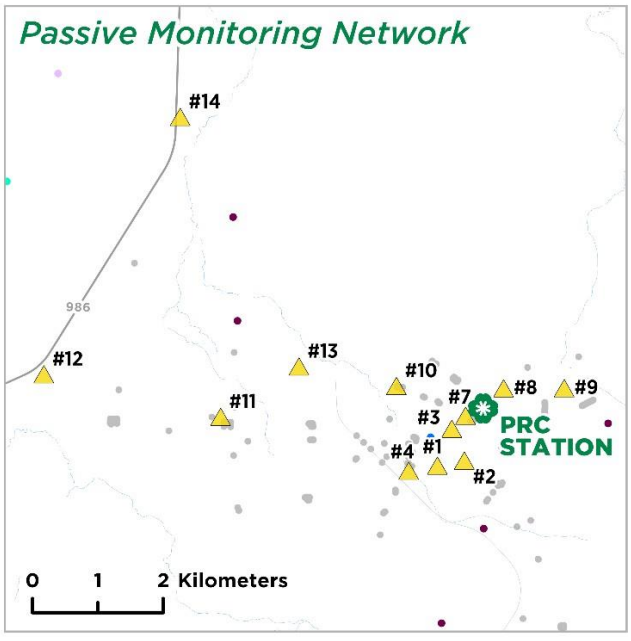
Legend

- 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	November 19, 2024	• Data collected between November 7 at hour 19 and November 8 at hour 6 were lost due to unspecified COMMS error. The datalogger was reset to correct the issue. A successful repeat zero-span check was initiated to confirm the analyzer's functionality. Thirteen hours of downtime were recorded due to this event.
TRS Thermo 43iQTL #1191833341 TRS convertor CD Nova CDN-101 #530	November 19, 2024	• No operational issues were recorded this month.
THC/CH4/NMHC Thermo 55i #1022143392 H2 Generator HG300 #191267063 Zero Air Supply Teledyne T701 #468	November 19, 2024	• No operational issues were recorded this month.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2-S3 #20626912	November 19, 2024	• No operational issues were recorded this month.
BP MetOne 092 #Y23358	November 19, 2024	• No operational issues were recorded this month.

Parameter	Verification Date	Equipment Operational Summary
AT Rotronic HC2-S3 #20626912	November 19, 2024	• No operational issues were recorded this month.
ST COMET #189619	November 19, 2024	• No operational issues were recorded this month.
Precipitation RM Young 52202 #TB 16325	November 19, 2024	• No operational issues were recorded this month.
WS/ WD RM Young 05305AQ #180340	November 19, 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	Nov 4 at hr 5	9.7	S	0.3	Nov 26	98.2	93.3
TRS (ppb)	-	-	-	-	-	-	0.29	0.06	0.73	Nov 16 at hr 10	25.8	S	0.50	Nov 16	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.05	1.98	2.17	Nov 4 at hr 21	5.7	NNW	2.11	Nov 25	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	2.05	1.98	2.17	Nov 4 at hr 21	5.7	NNW	2.11	Nov 25	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Nov 1 at hr 0	6.5	SE	0.00	Nov 1	100.0	95.1
RH (%)	-	-	-	-	-	-	88.9	62	100	Nov 1 at hr 12	8.7	N	99.3	Nov 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	910	958	Nov 20 at hr 2	9.3	N	957	Nov 20	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-7.9	-31.9	10.8	Nov 6 at hr 21	28.3	SW	7.1	Nov 8	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.9	21.2	24.0	Nov 19 at hr 0	12	NNE	23.4	Nov 18	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	2.6	0.0	0.7	Nov 17 at hr 4	14.6	SSW	1.6	Nov 17	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.1	0.3	28.9	Nov 6 at hr 19	28.9	SSW	22.3	Nov 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	147 (SE)	-	-	-	-	-	-	-	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

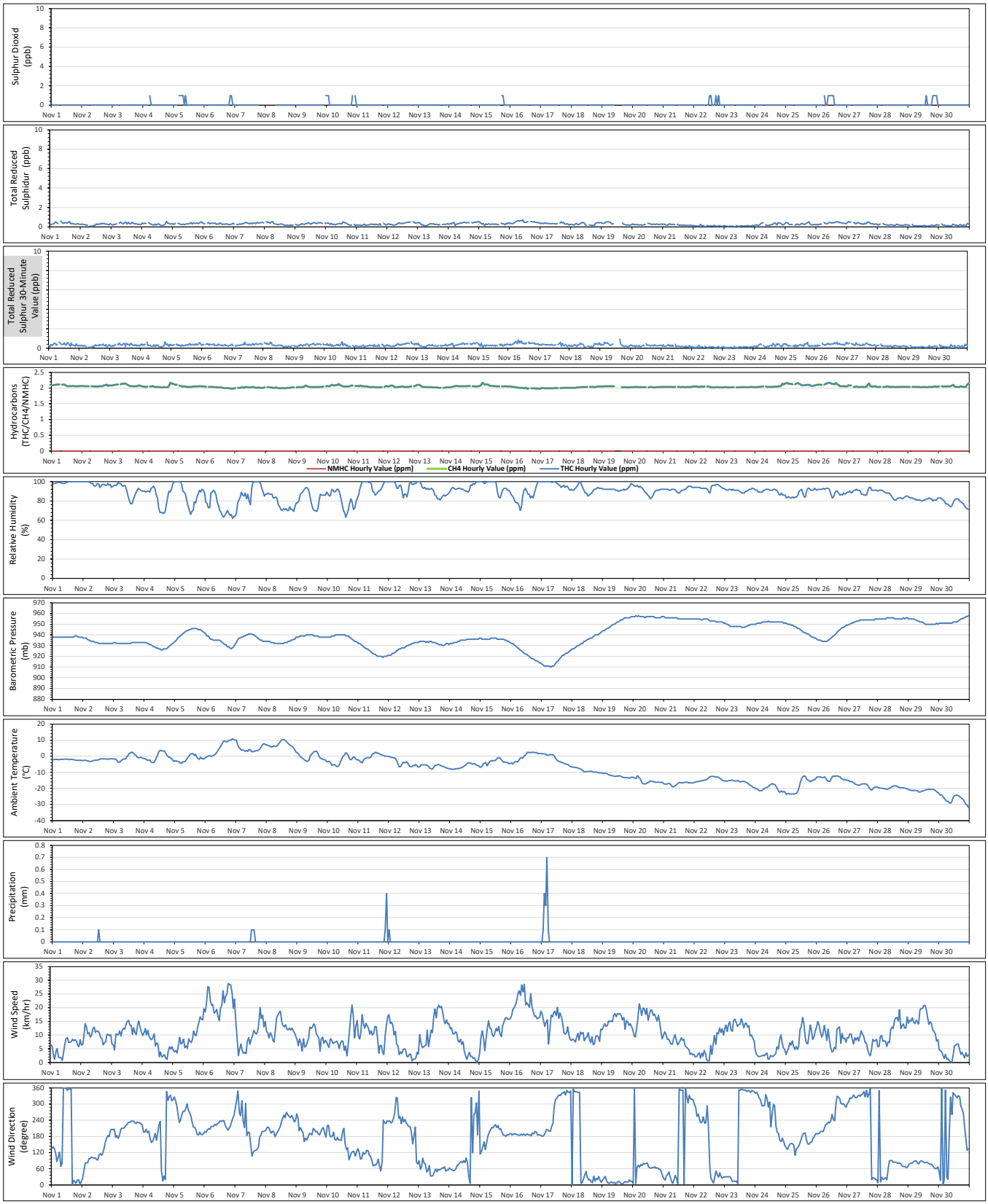
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	1-hr	24-hr	30-min	1-hr	24-hr										
TRS (ppb)	5	-	-	0	-	-	0.29	0.03	0.93	Nov 19 at 15:30	17.3	N	0.51	Nov 16	100.0	95.1

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 November 2024 - 986-C Station



842-B Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #1200736629	November 5, 2024	• No operational issues were recorded this month.
TRS Thermo 43iQTL #1200736630 TRS Convertor CD Nova CDN-101 #583 #552	November 5, 2024	• No operational issues were recorded this month.
THC/CH4/NMHC Thermo 55i #12208316589 H2 Generator HG300 #190567058 Zero Air Supply Teledyne T701 #1087	November 5, 2024	• No operational issues were recorded this month.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2-S3 #24010202	November 5, 2024	• No operational issues were recorded this month.
AT Rotronic HC2-S3 #24010202	November 5, 2024	• No operational issues were recorded this month.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #Y23362	November 5, 2024	• No operational issues were recorded this month.
ST COMET #20790297	November 5, 2024	• No operational issues were recorded this month.
Precipitation RM Young 52202 #TB 15878	November 5, 2024	• No operational issues were recorded this month.
WS/ WD RM Young 05305AQ #174802	November 5, 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	Nov 6 at hr 20	25.6	SW	0.3	Nov 26	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.65	0.41	1.03	Nov 7 at hr 9	2.4	SSE	0.83	Nov 24	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.04	1.95	2.39	Nov 25 at hr 9	4.3	SE	2.15	Nov 25	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.04	1.95	2.39	Nov 25 at hr 9	4.3	SE	2.15	Nov 25	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Nov 1 at hr 0	2.8	ESE	0.00	Nov 1	100.0	95.0
RH (%)	-	-	-	-	-	-	80.7	54	97	Nov 11 at hr 23	13.7	SW	91.2	Nov 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	939	910	957	Nov 30 at hr 23	1.3	ESE	955	Nov 20	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-8.1	-32.1	10.7	Nov 6 at hr 21	24.9	WSW	6.4	Nov 8	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.5	21.5	23.5	Nov 30 at hr 8	0.8	NNE	23.1	Nov 30	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	4.2	0.0	0.6	Nov 17 at hr 5	10.2	S	2.2	Nov 17	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	0.9	0.2	26.4	Nov 6 at hr 22	26.4	WSW	20.0	Nov 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	178 (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

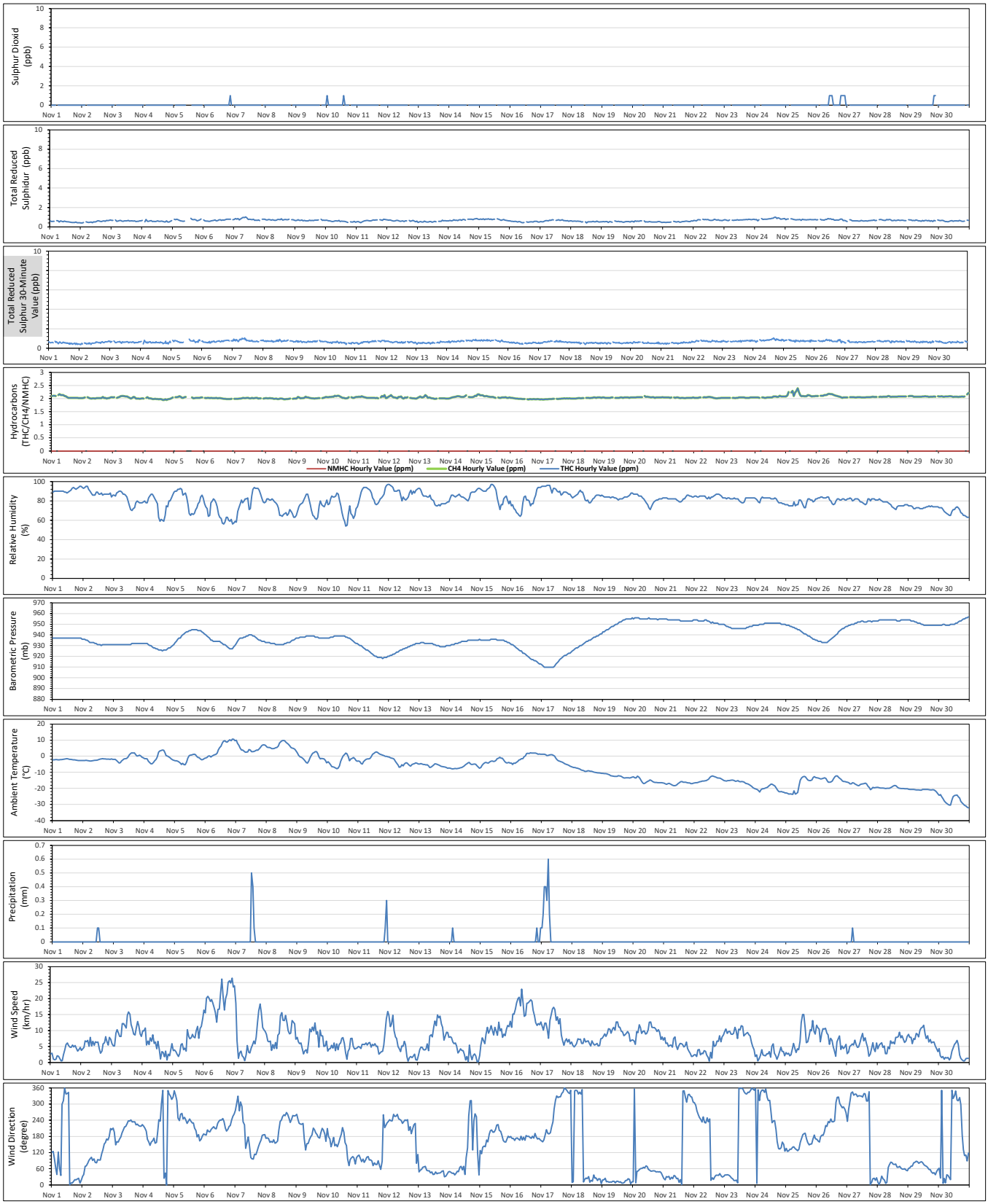
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	1-hr	24-hr	30-min	1-hr	24-hr										
TRS (ppb)	5	-	-	0	-	-	0.65	0.36	1.07	Nov 7 at 09:30	2.4	SSE	0.83	Nov 24	100.0	95.0

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 November 2024 - 842-B Station



Reno-B Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43iQTL #12101910505	November 7, 2024	• No operational issues were identified this month.
TRS Thermo 43iQTL #12101910504 **TRS Convertor** CD Nova CDN-101 #590	November 7, 2024	• No operational issues were identified this month.
THC/CH4/NMHC Thermo 55i #1193585652 H2 Generator HG300 #210467069	November 7, 2024	• No operational issues were identified this month.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2-S3 #20467597	November 7, 2024	• No operational issues were identified this month.
BP MetOne 092 #A17940	November 7, 2024	• No operational issues were identified this month.
AT Rotronic HC2-S3 #20467597	November 7, 2024	• No operational issues were identified this month.
ST COMET #NA	November 7, 2024	• No operational issues were identified this month.

Parameter	Verification Date	Equipment Operational Summary
Precipitation RM Young 52202 #TB 15877	November 7, 2024	• No operational issues were identified this month.
WS/ WD RM Young 05305AQ #174795	November 7, 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	Nov 10 at hr 2	9.1	SSW	0.2	Nov 10	100.0	94.8
TRS (ppb)	-	-	-	-	-	-	0.33	0.19	0.74	Nov 5 at hr 19	11.6	S	0.43	Nov 8	100.0	94.8
THC (ppm)	-	-	-	-	-	-	2.04	1.93	4.11	Nov 22 at hr 5	2	ESE	2.30	Nov 22	100.0	94.8
CH4 (ppm)	-	-	-	-	-	-	2.04	1.93	3.83	Nov 22 at hr 5	2	ESE	2.28	Nov 22	100.0	94.8
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.27	Nov 22 at hr 5	2	ESE	0.02	Nov 22	100.0	94.8
RH (%)	-	-	-	-	-	-	87.1	59	100	Nov 1 at hr 0	4.3	W	98.8	Nov 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	939	910	957	Nov 30 at hr 22	2	S	953	Nov 20	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-7.6	-29.5	9.6	Nov 6 at hr 23	29.6	W	6.2	Nov 8	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.8	23.7	Nov 30 at hr 23	0.9	S	23.4	Nov 30	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	3.8	0.0	0.9	Nov 7 at hr 11	5.6	E	1.7	Nov 17	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.3	0.0	32.8	Nov 6 at hr 13	32.8	WSW	21.3	Nov 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	116 (ESE)	-	-	-	-	-	-	-	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

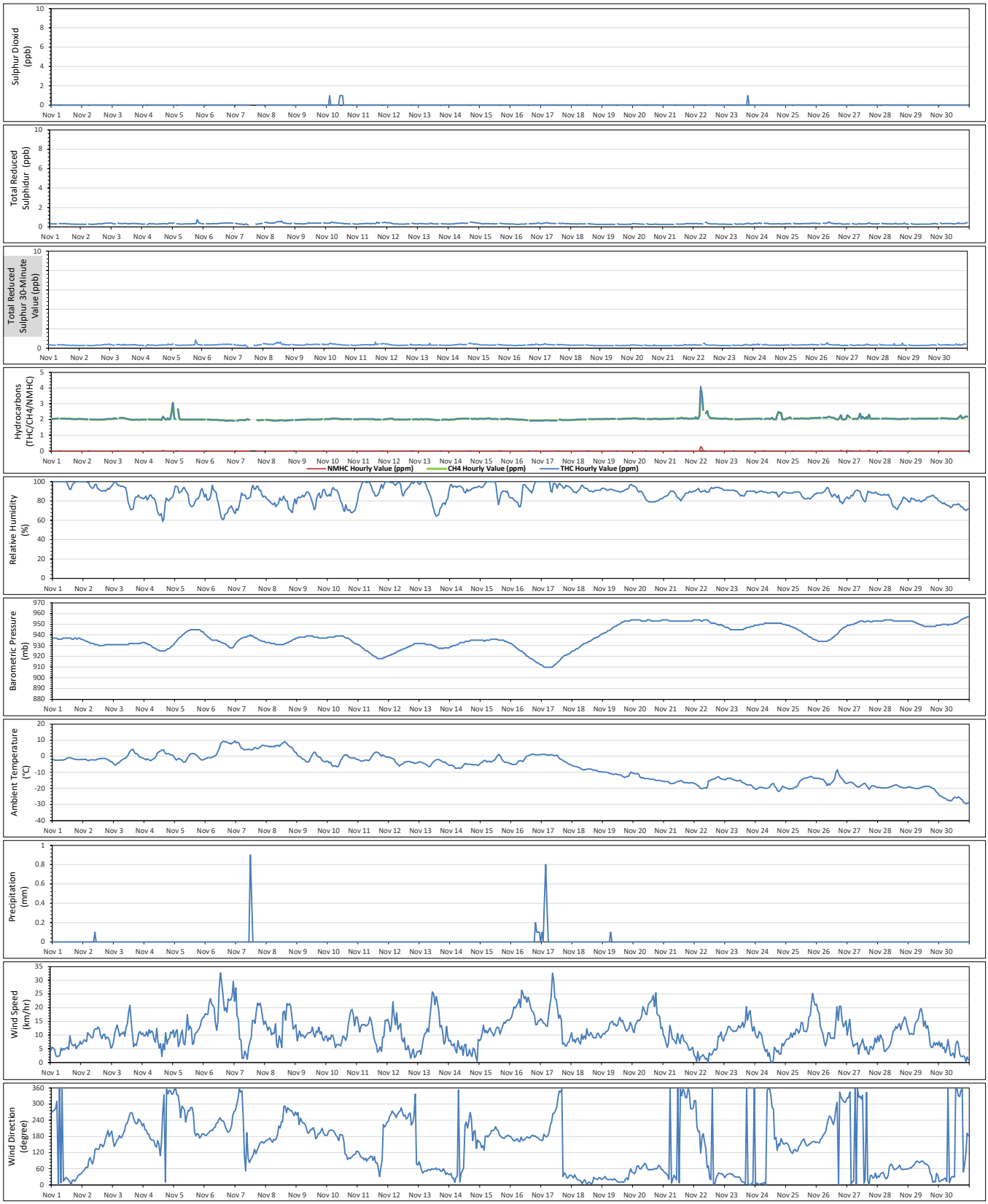
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	1-hr	24-hr	30-min	1-hr	24-hr										
TRS (ppb)	5	-	-	0	-	-	0.33	0.14	0.84	Nov 5 at 19:00	11.6	S	0.43	Nov 8	100.0	94.9

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 November 2024 - Reno-B Station



PRC Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Thermo 43i #1034746225	November 20, 2024	• No operational issues were identified this month.
H2S Thermo 450i #1308857354	November 20, 2024	• No operational issues were identified this month.
TRS Thermo 450i #1034746224 TRS Convertor CD Nova CDN-101 #516	November 20, 2024	• The analyzer failed the daily span check on November 19. A successful shut-down calibration was completed on November 19 before the scrubber material was replaced. The analyzer was allowed to stabilize overnight. A post-repair calibration was completed on November 20. Data were invalidated back to the last valid zero-span check, which was November 18 at hour 13. Forty-four hours of downtime were recorded due to this event.
THC/CH4/NMHC Thermo 55i #1034745845 H2 Generator HG300 #211067076	November 20, 2024	• No operational issues were identified this month.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Rotronic HC2-S3 #20558318	November 20, 2024	• No operational issues were identified this month.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #B19577	November 20, 2024	• No operational issues were identified this month.
AT Rotronic HC2-S3 #20558318	November 20, 2024	• No operational issues were identified this month.
ST Canadian Natural #NA	November 20, 2024	• No operational issues were identified this month.
WS/ WD RM Young 05305VK #129612	November 20, 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	Nov 3 at hr 0	9.4	SW	0.4	Nov 10	100.0	95.0
H2S (ppb)	10	3	-	0	0	-	0.0	0	0	Nov 1 at hr 0	6.2	SE	0.0	Nov 1	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.1	0	1	Nov 5 at hr 3	4.7	W	1	Nov 26	93.9	88.9
THC (ppm)	-	-	-	-	-	-	2.04	1.96	2.15	Nov 12 at hr 22	1.9	S	2.08	Nov 15	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.04	1.96	2.15	Nov 12 at hr 22	1.9	S	2.08	Nov 15	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Nov 1 at hr 0	6.2	SE	0.00	Nov 1	100.0	95.0
RH (%)	-	-	-	-	-	-	90.9	61	100	Nov 1 at hr 0	6.2	SE	100.0	Nov 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	911	958	Nov 30 at hr 23	3.7	S	957	Nov 20	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-8.4	-32.4	11.6	Nov 8 at hr 12	21.4	WSW	6.7	Nov 8	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	20.7	19.4	23.9	Nov 7 at hr 0	24.5	W	22.9	Nov 22	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.5	0.9	30.5	Nov 6 at hr 22	30.5	WSW	22.0	Nov 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	198 (SSW)	-	-	-	-	-	-	-	100.0	100.0

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

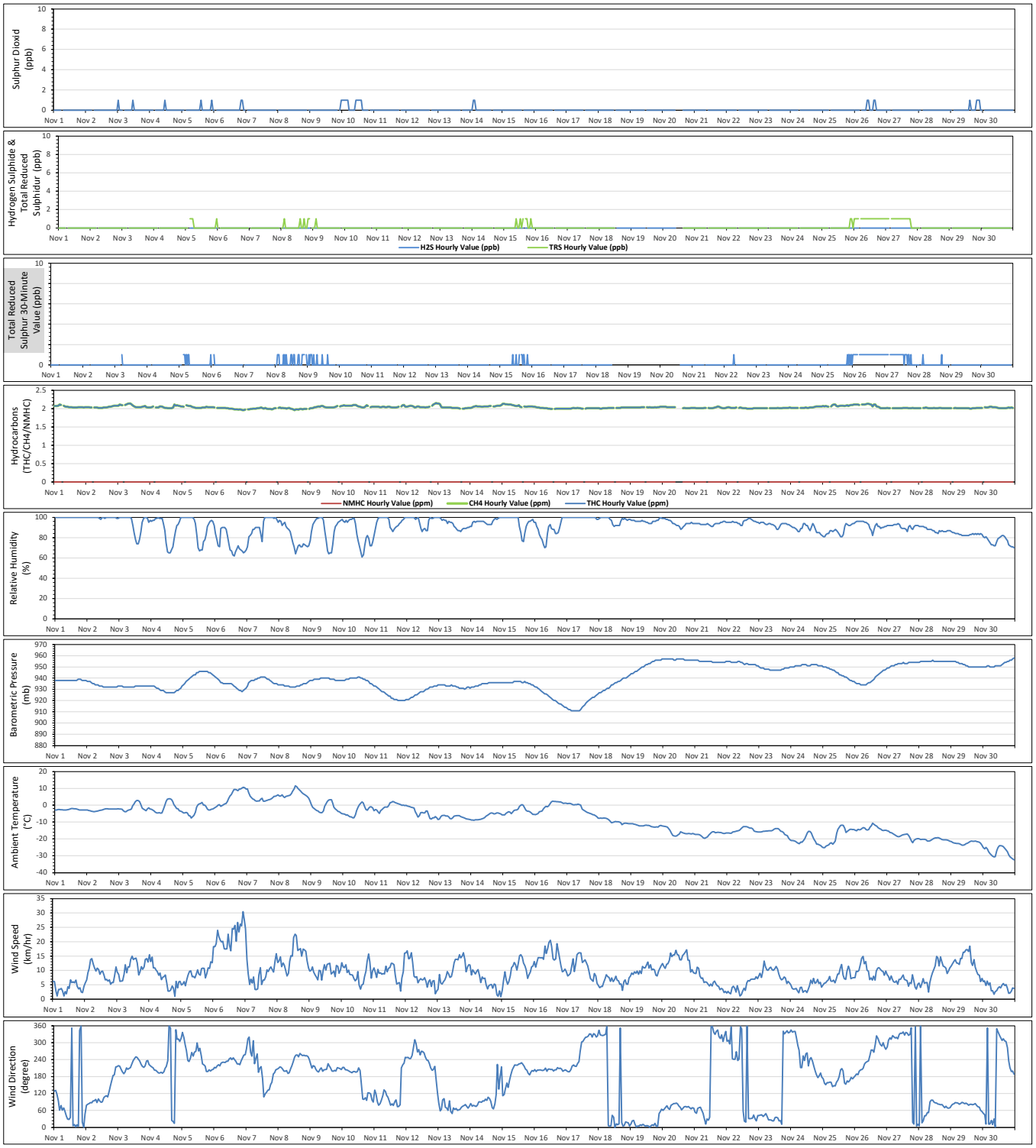
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	1-hr	24-hr	30-min	1-hr	24-hr										
TRS (ppb)	5	-	-	0	-	-	0.1	0	1	Nov 3 at 05:00	7.4	188(S)	1	Nov 26	94.0	88.9

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 November 2024 - Peace River Complex (PRC) Station



AQHI – Grimshaw Station

Equipment Operation Summary

Parameter	Calibration Date	Equipment Operational Summary
SO2 Teledyne T100 #722	November 6, 2024	• No major operational issues were identified this month.
TRS Thermo 43iQ-TL #12409233394 TRS Convertor CD Nova CDN-101 #576	November 6, 2024	• No major operational issues were identified this month.
NOx/NO/NO2 Thermo 42iQ #12409233392	November 6, 2024	• No major operational issues were identified this month.
O3 Thermo 49iQ #12326230141	November 6, 2024	• No major operational issues were identified this month.
THC/CH4/NMHC Thermo 55i #12101910497 H2 Generator HG300 #190567059	November 6, 2024	• No major operational issues were identified this month. • The desiccant for the hydrogen generator was replaced following the as-found points check on November 2.
PM2.5 Teledyne T640 #318	November 6, 2024	• No major operational issues were identified this month.
Parameter	**Verification Date**	**Equipment Operational Summary**
RH Vaisala HMP155 #N2910506	November 6, 2024	• No major operational issues were identified this month.

Parameter	Verification Date	Equipment Operational Summary
BP MetOne 092 #A2397	November 6, 2024	• No major operational issues were identified this month.
AT Vaisala HMP155 #N2910506	November 6, 2024	• No major operational issues were identified this month.
ST COMET #NA	November 6, 2024	• No major operational issues were identified this month.
WS/ WD RM Young 05305AQ #174801	November 6, 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	Nov 4 at hr 9	0.2	W	0.3	Nov 26	100.0	94.8
TRS (ppb)	-	-	-	-	-	-	0.21	0.11	1.30	Nov 7 at hr 17	3.4	ESE	0.30	Nov 15	100.0	94.8
NOx (ppb)	-	-	-	-	-	-	7.6	1	86	Nov 25 at hr 6	0.9	WNW	25.2	Nov 25	100.0	94.6
NO (ppb)	-	-	-	-	-	-	2.5	0	65	Nov 15 at hr 7	1.7	NNW	12.4	Nov 15	100.0	94.6
NO2 (ppb)	159	-	-	0	-	-	5.1	1	33	Nov 25 at hr 6	0.9	WNW	14.2	Nov 25	100.0	94.6
O3 (ppb)	76	-	-	0	-	-	21.8	1.5	39.0	Nov 16 at hr 19	13.3	SW	31.8	Nov 16	100.0	94.8
THC (ppm)	-	-	-	-	-	-	2.06	1.93	2.35	Nov 10 at hr 2	4.7	SW	2.16	Nov 25	100.0	94.7
CH4 (ppm)	-	-	-	-	-	-	2.06	1.93	2.35	Nov 10 at hr 2	4.7	SW	2.15	Nov 25	100.0	94.7
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.10	Nov 25 at hr 6	0.9	WNW	0.01	Nov 25	100.0	94.7
PM2.5 (µg/m3)	80	29	-	0	0	-	6.3	1	44	Nov 30 at hr 13	7.4	N	14.6	Nov 22	100.0	99.9
RH (%)	-	-	-	-	-	-	83.0	59	100	Nov 7 at hr 17	3.4	ESE	96.5	Nov 2	100.0	100.0
BP (millibar)	-	-	-	-	-	-	941	911	960	Nov 30 at hr 23	3.8	NNW	957	Nov 20	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-8.2	-29.4	10.8	Nov 8 at hr 12	13.5	WSW	4.9	Nov 8	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	20.7	19.2	22.8	Nov 6 at hr 12	23.4	WSW	22.2	Nov 7	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	7.5	0.1	25.0	Nov 6 at hr 23	25	W	16.9	Nov 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	334 (NNW)	-	-	-	-	-	-	-	100.0	100.0

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

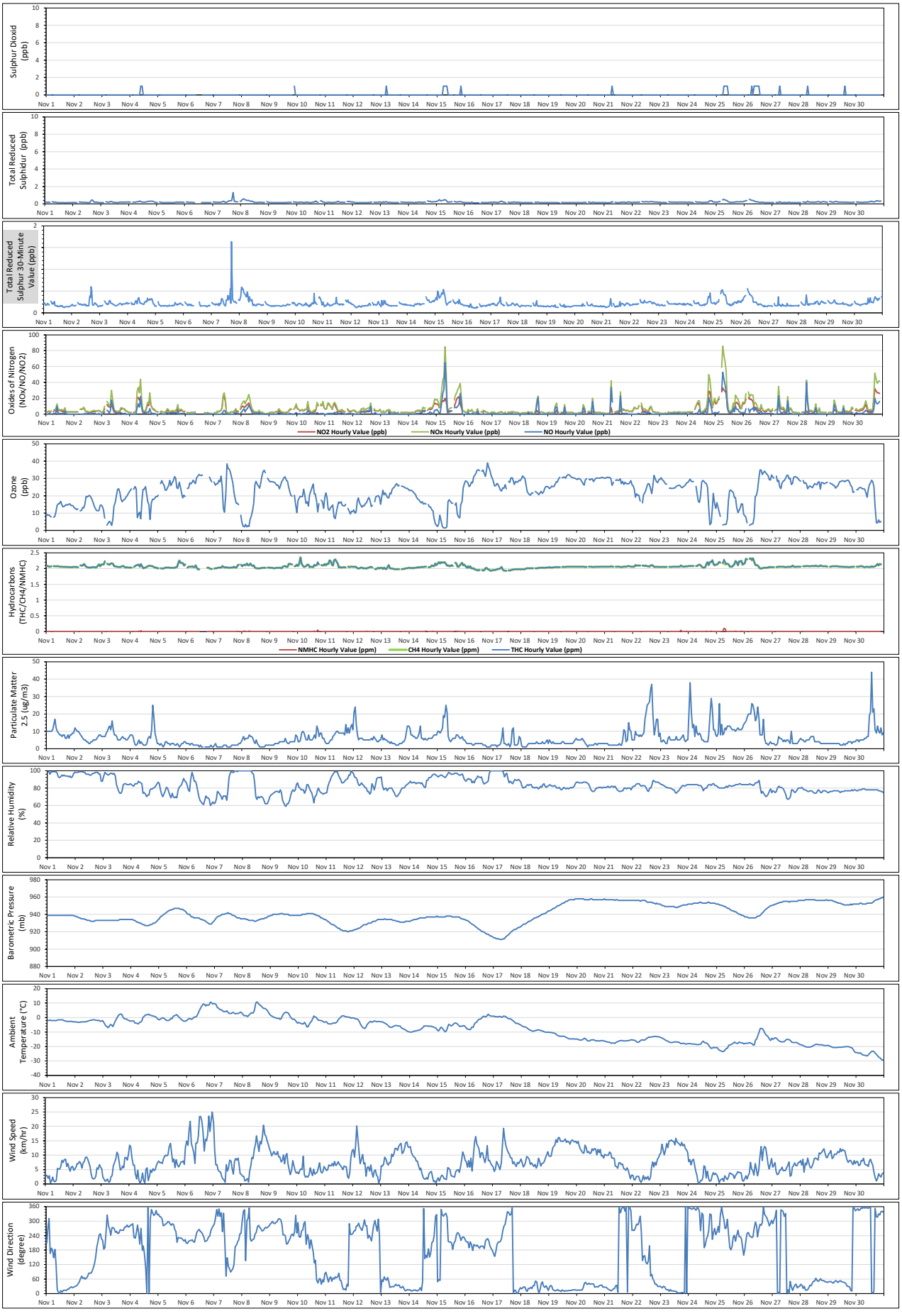
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 30-min	Max. 30-min	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	30-min	1-hr	24-hr	30-min	1-hr	24-hr										
TRS (ppb)	5	-	-	0	-	-	0.21	0.11	1.64	Nov 7 at 17:00	5.3	101(E)	0.30	Nov 7	100.0	94.9

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 November 2024 - AQHI - Grimshaw Station



TABLES, CHARTS AND WIND ROSES

986-C STATION

Peace River Area Monitoring Program

986-C Station - November 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

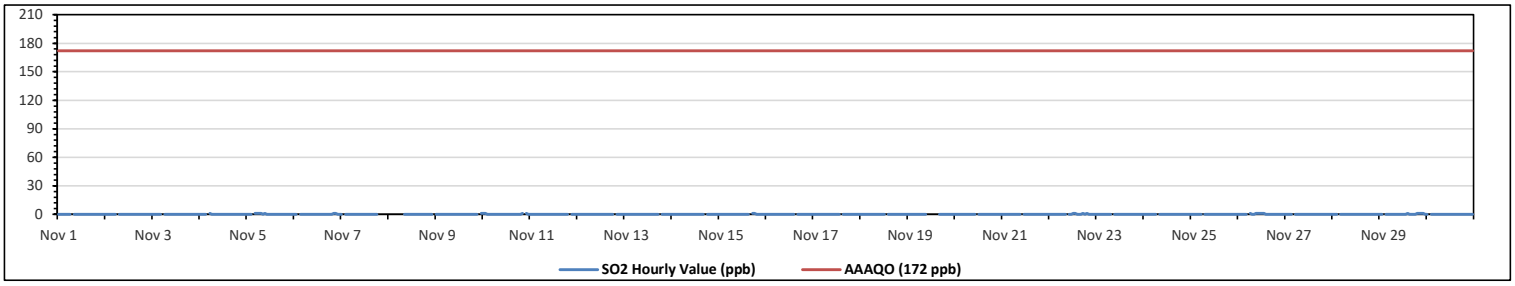
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Nov 4 at hr 5	Hours in Service:	720	
Maximum Daily Value:	0.3	ppb	on Nov 26	Hours of Data:	672	
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	13	
Minimum Daily Value:	0.0	ppb	on Nov 1	Hours of Calibration:	35	
Monthly Average:	0.0	ppb		Operational Uptime:	98.2	

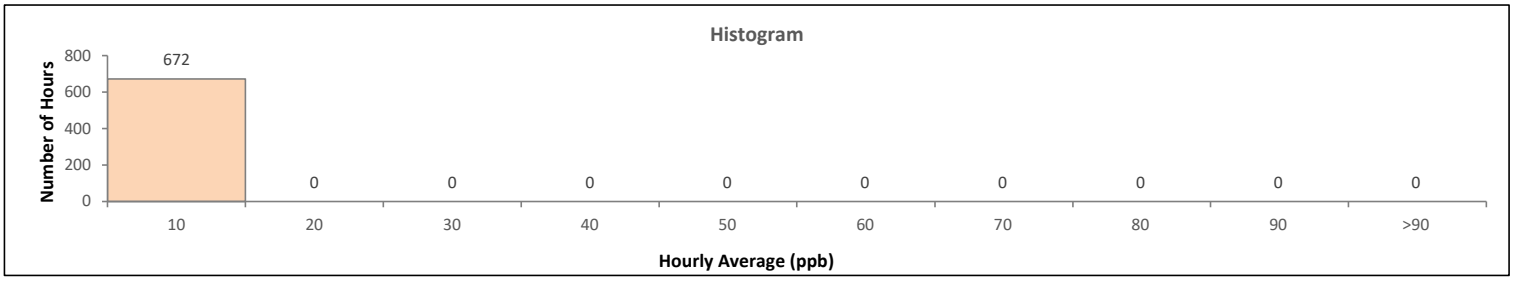
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nov 2	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nov 3	0	0	0	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
Nov 4	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
Nov 5	0	0	0	S	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Nov 6	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.1
Nov 7	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	K	K	K	K	K	0	0	0.0
Nov 8	K	K	K	K	K	K	K	NRM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	NA
Nov 9	0	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	0.0
Nov 10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	1	0	0	1	0.2
Nov 11	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
Nov 12	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
Nov 13	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
Nov 14	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
Nov 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	0	0	0	0	0	0	1	0.1
Nov 16	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
Nov 17	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
Nov 18	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
Nov 19	0	0	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
Nov 20	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
Nov 21	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
Nov 22	0	0	0	0	0	0	0	0	0	S	0	0	1	1	0	0	0	1	0	1	0	0	0	0	0	1	0.2
Nov 23	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
Nov 24	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
Nov 25	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
Nov 26	0	0	0	0	0	S	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3
Nov 27	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
Nov 28	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
Nov 29	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	0.2
Nov 30	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
Diurnal Maximum	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	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.



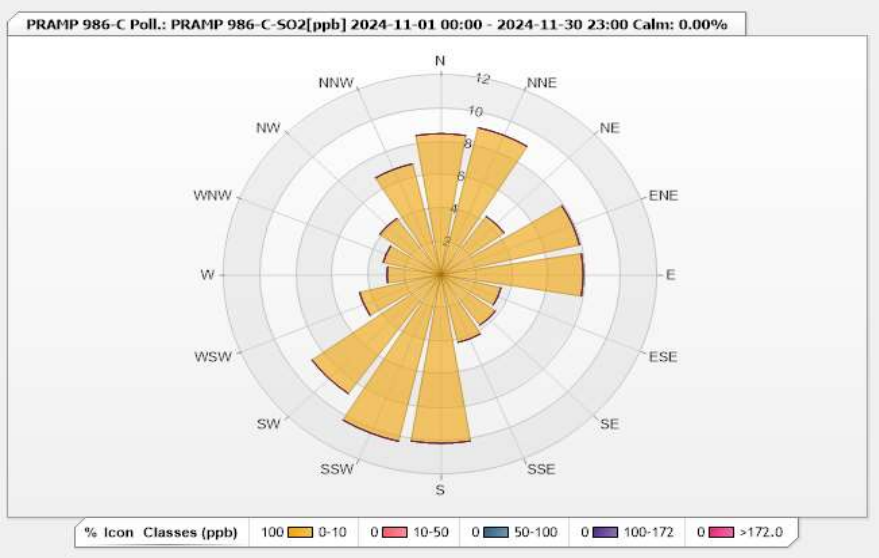


Station: PRAMP 986-C Poll.: PRAMP 986-C-SO2[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 93.33% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	8.48	0	0	0	0	8.48
NNE	9.08	0	0	0	0	9.08
NE	4.32	0	0	0	0	4.32
ENE	7.89	0	0	0	0	7.89
E	7.89	0	0	0	0	7.89
ESE	3.42	0	0	0	0	3.42
SE	3.72	0	0	0	0	3.72
SSE	4.17	0	0	0	0	4.17
S	10.12	0	0	0	0	10.12
SSW	10.27	0	0	0	0	10.27
SW	8.78	0	0	0	0	8.78
WSW	4.61	0	0	0	0	4.61
W	2.98	0	0	0	0	2.98
WNW	3.27	0	0	0	0	3.27
NW	4.17	0	0	0	0	4.17
NNW	6.85	0	0	0	0	6.85
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

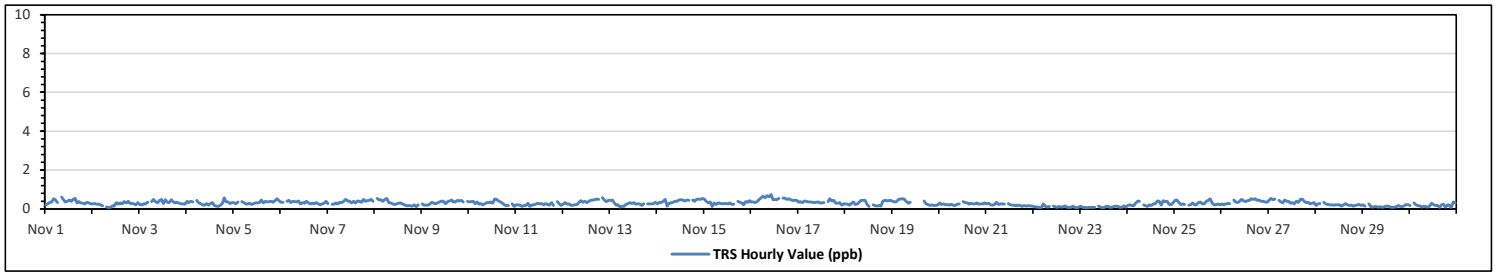
TOTAL REDUCED SULPHUR (TRS) in ppb

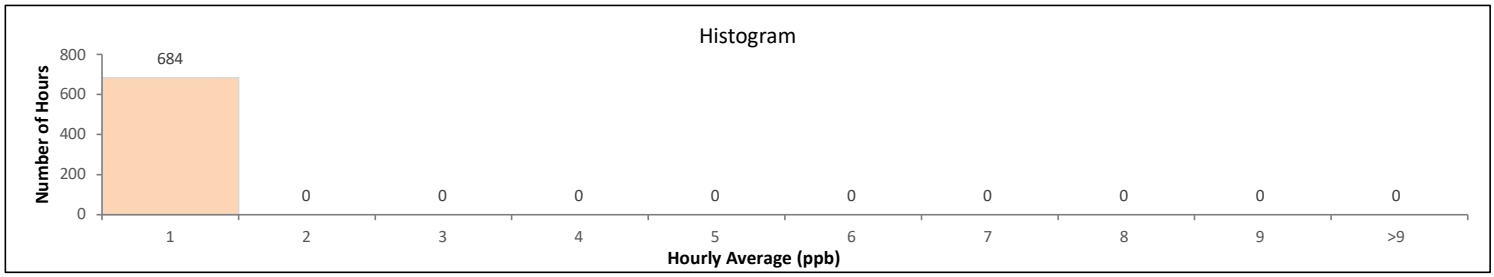
Maximum Hourly Value:	0.73	ppb	on Nov 16 at hr 10	Hours in Service:	720	
Maximum Daily Value:	0.50	ppb	on Nov 16	Hours of Data:	684	
Minimum Hourly Value:	0.06	ppb	on Nov 22 at hr 22	Hours of Missing Data:	0	
Minimum Daily Value:	0.10	ppb	on Nov 23	Hours of Calibration:	36	
Monthly Average:	0.29	ppb		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			
Nov 1	0.21	0.26	0.32	0.35	0.52	0.46	0.33	S	0.6	0.48	0.36	0.4	0.46	0.38	0.48	0.54	0.31	0.37	0.31	0.29	0.26	0.34	0.31	0.25	0.21	0.60	0.37
Nov 2	0.25	0.28	0.24	0.24	0.22	0.16	S	0.1	0.08	0.08	0.16	0.15	0.32	0.24	0.3	0.27	0.37	0.31	0.39	0.29	0.28	0.25	0.21	0.33	0.08	0.39	0.24
Nov 3	0.23	0.2	0.26	0.25	0.34	S	0.37	0.49	0.37	0.3	0.42	0.49	0.28	0.47	0.34	0.32	0.47	0.37	0.3	0.34	0.29	0.25	0.27	0.24	0.20	0.49	0.33
Nov 4	0.4	0.33	0.38	0.35	S	0.45	0.3	0.28	0.21	0.19	0.28	0.19	0.28	0.32	0.18	0.14	0.13	0.18	0.28	0.57	0.37	0.36	0.28	0.32	0.13	0.57	0.29
Nov 5	0.32	0.26	0.36	S	0.37	0.33	0.27	0.24	0.29	0.23	0.28	0.31	0.3	0.33	0.46	0.31	0.4	0.35	0.37	0.4	0.34	0.42	0.53	0.42	0.23	0.53	0.34
Nov 6	0.34	0.34	S	0.4	0.44	0.32	0.39	0.37	0.36	0.41	0.27	0.32	0.29	0.4	0.31	0.27	0.29	0.26	0.33	0.27	0.21	0.25	0.29	0.38	0.21	0.44	0.33
Nov 7	0.28	S	0.24	0.24	0.31	0.26	0.34	0.32	0.4	0.48	0.41	0.38	0.3	0.4	0.3	0.41	0.39	0.34	0.48	0.39	0.42	0.44	0.48	0.4	0.24	0.48	0.37
Nov 8	S	0.54	0.46	0.47	0.39	0.49	0.54	0.33	0.3	0.26	0.23	0.27	0.29	0.31	0.27	0.2	0.16	0.18	0.16	0.15	0.21	0.11	0.22	S	0.11	0.54	0.30
Nov 9	0.25	0.19	0.19	0.19	0.27	0.34	0.29	0.27	0.33	0.36	0.41	0.37	0.27	0.37	0.41	0.46	0.36	0.35	0.45	0.41	0.44	0.35	S	0.4	0.19	0.46	0.34
Nov 10	0.35	0.37	0.39	0.27	0.36	0.24	0.28	0.21	0.25	0.32	0.33	0.35	0.29	0.51	0.48	0.41	0.35	0.29	0.19	0.18	0.18	S	0.26	0.13	0.13	0.51	0.30
Nov 11	0.22	0.2	0.19	0.13	0.18	0.18	0.29	0.13	0.2	0.21	0.24	0.29	0.25	0.28	0.21	0.28	0.23	0.19	0.33	0.17	S	0.37	0.25	0.18	0.13	0.37	0.23
Nov 12	0.25	0.33	0.24	0.25	0.18	0.19	0.21	0.23	0.33	0.42	0.34	0.39	0.33	0.39	0.43	0.46	0.47	0.51	0.49	S	0.56	0.46	0.37	0.44	0.18	0.56	0.36
Nov 13	0.43	0.46	0.31	0.19	0.22	0.1	0.15	0.12	0.23	0.28	0.33	0.28	0.33	0.24	0.25	0.25	0.18	0.25	S	0.25	0.26	0.26	0.26	0.34	0.10	0.46	0.26
Nov 14	0.25	0.34	0.32	0.4	0.48	0.14	0.29	0.3	0.34	0.4	0.38	0.46	0.47	0.46	0.41	0.46	0.44	S	0.46	0.4	0.48	0.51	0.48	0.54	0.14	0.54	0.40
Nov 15	0.5	0.38	0.3	0.36	0.13	0.3	0.23	0.3	0.29	0.25	0.28	0.28	0.25	0.3	0.23	0.24	S	0.38	0.34	0.31	0.22	0.37	0.34	0.42	0.13	0.50	0.30
Nov 16	0.36	0.36	0.33	0.39	0.48	0.57	0.65	0.58	0.68	0.62	**0.73**	0.47	0.48	0.47	0.54	S	0.55	0.55	0.49	0.52	0.47	0.45	0.43	0.44	0.33	**0.73**	**0.50**
Nov 17	0.34	0.37	0.33	0.41	0.39	0.36	0.35	0.34	0.33	0.34	0.36	0.3	0.31	0.33	S	0.37	0.52	0.41	0.45	0.29	0.29	0.33	0.19	0.25	0.19	0.52	0.35
Nov 18	0.26	0.24	0.19	0.28	0.35	0.23	0.25	0.34	0.45	0.43	0.43	0.23	0.13	S	0.2	0.18	0.14	0.17	0.14	0.39	0.44	0.42	0.42	0.45	0.13	0.45	0.29
Nov 19	0.38	0.35	0.37	0.49	0.5	0.53	0.51	0.38	0.29	0.34	C	C	C	C	C	C	0.41	0.26	0.23	0.18	0.22	0.18	0.18	0.22	0.18	0.53	0.33
Nov 20	0.31	0.23	0.25	0.21	0.23	0.19	0.24	0.18	0.18	0.24	0.27	S	0.37	0.33	0.3	0.24	0.29	0.26	0.27	0.3	0.24	0.25	0.27	0.3	0.18	0.37	0.26
Nov 21	0.26	0.29	0.2	0.19	0.23	0.34	0.23	0.26	0.25	0.24	S	0.28	0.2	0.19	0.19	0.16	0.19	0.17	0.13	0.17	0.14	0.16	0.16	0.15	0.13	0.34	0.21
Nov 22	0.13	0.1	0.09	0.07	0.08	0.27	0.13	0.1	0.13	S	0.15	0.11	0.07	0.12	0.09	0.11	0.16	0.08	0.07	0.07	0.15	0.08	0.06	0.09	0.06	0.27	0.11
Nov 23	0.15	0.07	0.07	0.06	0.07	0.08	0.08	0.08	S	0.14	0.09	0.06	0.08	0.12	0.12	0.08	0.1	0.12	0.14	0.12	0.08	0.1	0.16	0.1	0.06	0.16	0.10
Nov 24	0.18	0.21	0.17	0.16	0.29	0.41	0.4	S	0.22	0.16	0.13	0.2	0.18	0.25	0.26	0.41	0.38	0.19	0.42	0.37	0.39	0.24	0.21	0.3	0.13	0.42	0.27
Nov 25	0.44	0.46	0.34	0.23	0.25	0.23	S	0.19	0.22	0.3	0.21	0.22	0.33	0.36	0.25	0.25	0.38	0.43	0.53	0.31	0.21	0.21	0.25	0.22	0.19	0.53	0.30
Nov 26	0.26	0.2	0.25	0.28	0.28	S	0.46	0.36	0.32	0.38	0.48	0.42	0.37	0.42	0.44	0.52	0.49	0.53	0.44	0.46	0.39	0.39	0.36	0.34	0.20	0.53	0.38
Nov 27	0.43	0.54	0.47	0.5	S	0.45	0.37	0.3	0.46	0.4	0.39	0.29	0.33	0.27	0.38	0.34	0.49	0.5	0.38	0.32	0.34	0.26	0.29	0.32	0.26	0.54	0.38
Nov 28	0.18	0.27	0.28	S	0.34	0.25	0.23	0.21	0.2	0.19	0.22	0.22	0.2	0.14	0.2	0.28	0.21	0.18	0.19	0.15	0.17	0.22	0.23	0.18	0.14	0.34	0.21
Nov 29	0.2	0.15	S	0.25	0.11	0.09	0.12	0.11	0.1	0.11	0.08	0.11	0.14	0.14	0.1	0.08	0.09	0.11	0.18	0.13	0.13	0.16	0.23	0.2	0.08	0.25	0.14
Nov 30	0.18	S	0.3	0.2	0.16	0.16	0.1	0.15	0.11	0.1	0.15	0.29	0.21	0.18	0.17	0.08	0.22	0.24	0.1	0.22	0.19	0.08	0.35	0.3	0.08	0.35	0.18
Diurnal Maximum	0.50	0.54	0.47	0.50	0.52	0.57	0.65	0.58	0.68	0.62	0.73	0.49	0.48	0.51	0.54	0.54	0.55	0.55	0.53	0.57	0.56	0.51	0.53	0.54			
Diurnal Average	0.29	0.30	0.28	0.28	0.29	0.29	0.30	0.26	0.29	0.30	0.30	0.29	0.28	0.31	0.30	0.29	0.32	0.29	0.31	0.29	0.29	0.29	0.29	0.30			

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 - November 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

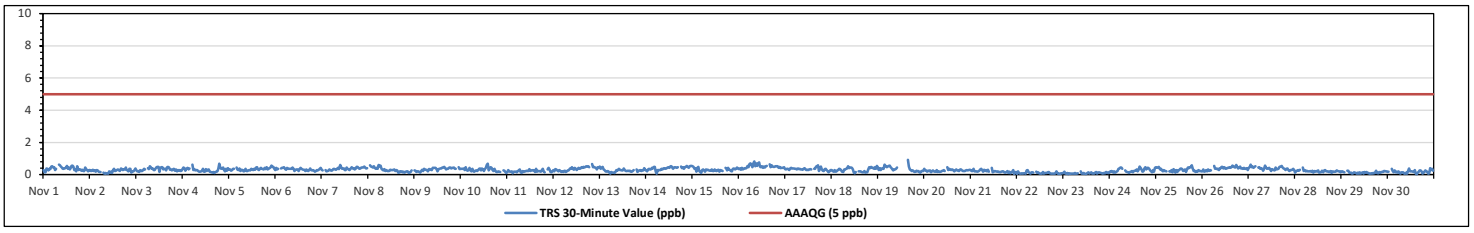
Maximum 30-Minute Value:	0.93	ppb	on Nov 19 at 15:30	# of Instrument in Service	1440
Maximum Daily Value:	0.51	ppb	on Nov 16	# of Valid Measurements	1370
Minimum 30-Minute Value:	0.03	ppb	Nov 23 at 02:30	# of Missing Measurements:	0
Minimum Daily Value:	0.10	ppb	on Nov 23	# of Calibration:	70
Monthly Average:	0.29	ppb		Operational Uptime:	100.0

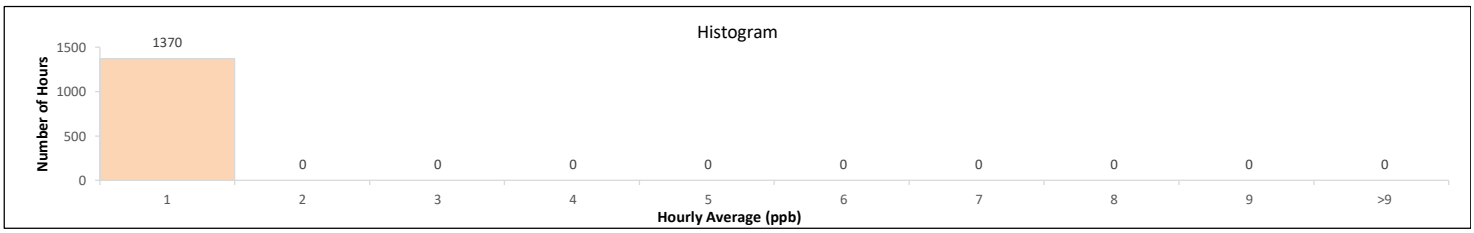
30-Minute Period Starting at (MST)	Nov 1	Nov 2	Nov 3	Nov 4	Nov 5	Nov 6	Nov 7	Nov 8	Nov 9	Nov 10	Nov 11	Nov 12	Nov 13	Nov 14	Nov 15	Nov 16	Nov 17	Nov 18	Nov 19	Nov 20	Nov 21	Nov 22	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Diurnal Maximum	Diurnal Average
00:00	0.28	0.28	0.26	0.34	0.31	0.28	0.31	S	0.26	0.35	0.16	0.29	0.5	0.29	0.52	0.34	0.34	0.3	0.46	0.35	0.3	0.05	0.11	0.19	0.47	0.2	0.41	0.12	0.2	0.17	0.52	0.29
00:30	0.14	0.22	0.2	0.45	0.33	0.41	0.26	S	0.25	0.35	0.28	0.21	0.36	0.21	0.48	0.38	0.33	0.22	0.3	0.26	0.22	0.2	0.19	0.16	0.42	0.32	0.46	0.23	0.2	0.19	0.48	0.28
01:00	0.14	0.25	0.23	0.4	0.25	0.33	S	0.59	0.16	0.36	0.22	0.34	0.42	0.33	0.36	0.31	0.37	0.19	0.4	0.27	0.22	0.11	0.07	0.22	0.44	0.19	0.62	0.25	0.16	S	0.62	0.29
01:30	0.39	0.31	0.17	0.25	0.28	0.35	S	0.5	0.21	0.39	0.18	0.33	0.49	0.35	0.4	0.42	0.37	0.28	0.3	0.18	0.36	0.08	0.07	0.2	0.48	0.21	0.46	0.29	0.15	S	0.50	0.30
02:00	0.37	0.23	0.28	0.35	0.36	S	0.29	0.49	0.21	0.3	0.19	0.27	0.32	0.32	0.18	0.32	0.29	0.18	0.38	0.25	0.2	0.08	0.1	0.13	0.33	0.3	0.51	0.25	S	0.37	0.51	0.28
02:30	0.27	0.26	0.24	0.41	0.36	S	0.2	0.44	0.17	0.47	0.2	0.21	0.3	0.32	0.42	0.35	0.38	0.2	0.36	0.24	0.2	0.09	0.03	0.21	0.36	0.2	0.42	0.31	S	0.23	0.47	0.28
03:00	0.36	0.19	0.22	0.32	S	0.38	0.24	0.53	0.13	0.29	0.09	0.28	0.2	0.42	0.49	0.4	0.43	0.26	0.37	0.27	0.2	0.06	0.09	0.12	0.26	0.32	0.48	S	0.25	0.15	0.53	0.28
03:30	0.34	0.29	0.28	0.39	S	0.43	0.25	0.42	0.24	0.25	0.18	0.22	0.19	0.39	0.24	0.39	0.39	0.29	0.62	0.15	0.19	0.09	0.04	0.19	0.2	0.24	0.53	S	0.25	0.26	0.62	0.28
04:00	0.51	0.26	0.37	S	0.44	0.41	0.32	0.37	0.31	0.28	0.19	0.16	0.24	0.48	0.16	0.41	0.38	0.37	0.54	0.21	0.21	0.09	0.06	0.23	0.28	0.29	S	0.44	0.13	0.14	0.54	0.30
04:30	0.53	0.18	0.32	S	0.31	0.47	0.3	0.42	0.22	0.43	0.18	0.2	0.2	0.49	0.11	0.55	0.39	0.34	0.47	0.26	0.25	0.07	0.08	0.36	0.23	0.27	S	0.23	0.1	0.18	0.55	0.29
05:00	0.45	0.16	S	0.62	0.29	0.34	0.25	0.37	0.37	0.27	0.14	0.16	0.13	0.19	0.28	0.47	0.36	0.28	0.51	0.2	0.32	0.26	0.08	0.39	0.24	S	0.45	0.29	0.12	0.12	0.62	0.29
05:30	0.46	0.16	S	0.29	0.38	0.31	0.27	0.61	0.31	0.21	0.22	0.22	0.07	0.08	0.32	0.67	0.35	0.19	0.54	0.18	0.37	0.28	0.08	0.44	0.21	S	0.46	0.2	0.06	0.2	0.67	0.29
06:00	0.28	S	0.4	0.34	0.24	0.42	0.34	0.52	0.31	0.36	0.26	0.25	0.17	0.28	0.27	0.69	0.32	0.17	0.56	0.18	0.28	0.16	0.1	0.44	S	0.55	0.35	0.25	0.09	0.12	0.69	0.31
06:30	0.37	S	0.34	0.27	0.31	0.35	0.35	0.57	0.28	0.21	0.33	0.17	0.13	0.29	0.18	0.62	0.38	0.33	0.46	0.29	0.19	0.1	0.06	0.36	S	0.37	0.4	0.21	0.15	0.08	0.62	0.29
07:00	S	0.12	0.53	0.28	0.28	0.37	0.33	0.36	0.2	0.18	0.15	0.2	0.12	0.3	0.32	0.46	0.34	0.32	0.41	0.17	0.31	0.06	0.06	S	0.21	0.38	0.35	0.21	0.12	0.14	0.53	0.26
07:30	S	0.08	0.46	0.28	0.2	0.37	0.31	0.31	0.34	0.25	0.11	0.26	0.11	0.3	0.29	0.7	0.35	0.35	0.34	0.2	0.22	0.14	0.09	S	0.18	0.34	0.25	0.21	0.1	0.15	0.70	0.26
08:00	0.62	0.1	0.35	0.23	0.22	0.35	0.37	0.26	0.34	0.26	0.23	0.26	0.17	0.35	0.31	0.83	0.33	0.39	0.26	0.17	0.3	0.15	S	0.27	0.29	0.36	0.35	0.22	0.08	0.15	0.83	0.30
08:30	0.58	0.07	0.38	0.19	0.36	0.37	0.43	0.34	0.31	0.24	0.16	0.39	0.29	0.32	0.27	0.53	0.33	0.52	0.33	0.18	0.2	0.12	S	0.18	0.15	0.28	0.57	0.18	0.12	0.08	0.58	0.29
09:00	0.5	0.09	0.3	0.18	0.24	0.45	0.34	0.24	0.29	0.28	0.21	0.36	0.25	0.39	0.25	0.69	0.31	0.4	0.33	0.23	0.31	S	0.2	0.17	0.34	0.39	0.45	0.25	0.08	0.08	0.69	0.30
09:30	0.45	0.06	0.3	0.21	0.22	0.37	0.61	0.29	0.43	0.37	0.21	0.47	0.31	0.4	0.25	0.54	0.36	0.45	0.35	0.25	0.18	S	0.08	0.15	0.26	0.38	0.35	0.13	0.14	0.13	0.61	0.30
10:00	0.37	0.2	0.38	0.22	0.26	0.23	0.47	0.24	0.42	0.39	0.25	0.37	0.36	0.37	0.32	0.71	0.4	0.44	0.45	0.3	S	0.19	0.07	0.1	0.13	0.48	0.38	0.24	0.07	0.08	0.71	0.31
10:30	0.35	0.12	0.46	0.35	0.29	0.31	0.35	0.23	0.41	0.27	0.23	0.31	0.29	0.38	0.24	0.75	0.32	0.41	C	0.23	S	0.11	0.1	0.16	0.29	0.48	0.41	0.19	0.1	0.23	0.75	0.30
11:00	0.4	0.18	0.49	0.19	0.27	0.32	0.38	0.23	0.41	0.38	0.24	0.41	0.3	0.45	0.24	0.48	0.3	0.33	C	S	0.41	0.14	0.06	0.19	0.17	0.38	0.33	0.23	0.14	0.38	0.49	0.30
11:30	0.4	0.11	0.48	0.19	0.36	0.32	0.39	0.31	0.34	0.32	0.34	0.37	0.26	0.47	0.32	0.47	0.31	0.13	C	S	0.14	0.09	0.05	0.22	0.26	0.47	0.24	0.2	0.08	0.2	0.48	0.28
12:00	0.55	0.29	0.16	0.34	0.32	0.24	0.3	0.3	0.2	0.23	0.24	0.29	0.27	0.41	0.25	0.53	0.3	0.09	C	0.47	0.18	0.06	0.05	0.14	0.3	0.36	0.34	0.27	0.16	0.2	0.55	0.27
12:30	0.37	0.35	0.41	0.22	0.28	0.34	0.3	0.28	0.34	0.34	0.26	0.37	0.38	0.52	0.24	0.43	0.32	0.17	C	0.28	0.23	0.08	0.1	0.22	0.35	0.38	0.31	0.12	0.12	0.21	0.52	0.29
13:00	0.44	0.23	0.47	0.31	0.35	0.43	0.44	0.3	0.36	0.41	0.27	0.42	0.26	0.52	0.29	0.5	0.34	S	C	0.35	0.2	0.08	0.15	0.25	0.38	0.42	0.29	0.14	0.16	0.19	0.52	0.32
13:30	0.32	0.25	0.47	0.33	0.31	0.36	0.36	0.33	0.38	0.6	0.29	0.35	0.23	0.41	0.31	0.44	0.33	S	C	0.32	0.18	0.17	0.08	0.25	0.34	0.42	0.26	0.14	0.11	0.17	0.60	0.30
14:00	0.41	0.29	0.33	0.18	0.45	0.32	0.32	0.24	0.38	0.68	0.25	0.39	0.24	0.37	0.18	0.53	S	0.2	C	0.28	0.21	0.08	0.11	0.32	0.23	0.46	0.44	0.25	0.11	0.28	0.68	0.30
14:30	0.54	0.32	0.36	0.17	0.47	0.31	0.29	0.29	0.45	0.27	0.16	0.46	0.25	0.45	0.28	0.54	S	0.2	C	0.32	0.17	0.11	0.14	0.2	0.28	0.41	0.32	0.15	0.08	0.07	0.54	0.29
15:00	0.57	0.3	0.37	0.15	0.32	0.31	0.35	0.26	0.44	0.36	0.37	0.43	0.24	0.47	0.26	S	0.37	0.21	C	0.26	0.17	0.11	0.07	0.31	0.33	0.46	0.34	0.26	0.07	0.03	0.57	0.29
15:30	0.51	0.24	0.27	0.12	0.3	0.23	0.47	0.13	0.49	0.46	0.19	0.49	0.25	0.45	0.23	S	0.37	0.16	0.93	0.21	0.15	0.11	0.09	0.5	0.17	0.57	0.35	0.29	0.09	0.13	0.93	0.31
16:00	0.3	0.39	0.47	0.16	0.37	0.33	0.39	0.12	0.4	0.42	0.23	0.44	0.18	0.42	S	0.65	0.5	0.15	0.5	0.27	0.19	0.15	0.08	0.43	0.32	0.52	0.48	0.21	0.06	0.17	0.65	0.32
16:30	0.31	0.34	0.48	0.11	0.42	0.26	0.4	0.2	0.32	0.28	0.23	0.49	0.18	0.46	S	0.46	0.53	0.14	0.33	0.32	0.2	0.17	0.12	0.32	0.45	0.46	0.5	0.2	0.11	0.27	0.53	0.31
17:00	0.2	0.3	0.44	0.17	0.36	0.24	0.32	0.17	0.35	0.22	0.2	0.52	0.23	S	0.41	0.58	0.59	0.22	0.3	0.27	0.2	0.09	0.16	0.19	0.4	0.45	0.55	0.21	0.09	0.27	0.59	0.30
17:30	0.53	0.32	0.31	0.19	0.34	0.29	0.36	0.2	0.35	0.37	0.18	0.5	0.28	S	0.35	0.51	0.22	0.13	0.22	0.25	0.14	0.08	0.08	0.2	0.47	0.61	0.44	0.16	0.13	0.21	0.61	0.29
18:00	0.28	0.33	0.33	0.2	0.33	0.39	0.48	0.15	0.45	0.23	0.28	0.53	S	0.51	0.27	0.49	0.39	0.15	0.26	0.22	0.13	0.07	0.13	0.39	0.46	0.49	0.39	0.16	0.25	0.08	0.53	0.30
18:30	0.33	0.44	0.27	0.35	0.41	0.28	0.48	0.18	0.45	0.16	0.37	0.46	S	0.4	0.42	0.49	0.51	0.14	0.2	0.33	0.14	0.08	0.14	0.46	0.59	0.39	0.37	0.22	0.1	0.11	0.59	0.32
19:00	0.33	0.31	0.32	0.68	0.34	0.26	0.42	0.12	0.38	0.16	0.18	S	0.32	0.46	0.32	0.53	0.32	0.32	0.16	0.33	0.22	0.07	0.12	0.33	0.39	0.42	0.28	0.11	0.09	0.18	0.68	0.29
19:30	0.25	0.27	0.36	0.47	0.46	0.29	0.36	0.18	0.43	0.21	0.15	S	0.17	0.35	0.3	0.52	0.25	0.47	0.19	0.27	0.11	0.07	0.11	0.42	0.22	0.5	0.37	0.2	0.17	0.27	0.52	0.29
20:00	0.31	0.21	0.25	0.35	0.32	0.25	0.39	0.21	0.43	0.19	S	0.66	0.25	0.47	0.22	0.52	0.24	0.4	0.25	0.23	0.19	0.09	0.09	0.43	0.25	0.39	0.39	0.16	0.1	0.2	0.66	0.29
20:30	0.22	0.35	0.33	0.39	0.35	0.18	0.44	0.21	0.45	0.16	S	0.47	0.26	0.49	0.21	0.42	0.34	0.48	0.2	0.24	0.09	0.2	0.07	0.35	0.16	0.39	0.3	0.18	0.16	0.18	0.49	0.29
21:00	0.22	0.37	0.21	0.44	0.4	0.23	0.44	0.1	0.35	S	0.33	0.48	0.28	0.54	0.37	0.49	0.37	0.42	0.22	0.22	0.12	0.11	0.1	0.26	0.24	0.36	0.24	0.18	0.16	0.07	0.54	0.29
21:30	0.45	0.13	0.28	0.28	0.44	0.28	0.44	0.12	0.35	S	0.41	0.44	0.24	0.48	0.38	0.4	0.3	0.43	0.14	0.27	0.19	0.05	0.09	0.21	0.18	0.41	0.29	0.26	0.16	0.09	0.48	0.28
22:00	0.34	0.2	0.27	0.2	0.57	0.26	0.51	0.17	S	0.27	0.33	0.41	0.26	0.43	0.32	0.43	0.24	0.37	0.13	0.29	0.28	0.07	0.17	0.14	0.28	0.36	0.28	0.24	0.22	0.4	0.57	0.29
22:30	0.29	0.21	0.28	0.35	0.48	0.31	0.44	0.27	S	0.25	0.17	0.33	0.26	0.52	0.35	0.42	0.15	0.46	0.23	0.26	0.05	0.05	0.15	0.29	0.22	0.37	0.31	0.21	0.24	0.29	0.52	0.28
23:00	0.21	0.28	0.22	0.25	0.48	0.36	0.39	S	0.47	0.16	0.15	0.47	0.4	0.54	0.45	0.43	0.21	0.36	0.22	0.3	0.14	0.09	0.1	0.19	0.23	0.4	0.35	0.21	0.2	0.35	0.54	0.30
23:30	0.29	0.38	0.25	0.4	0.36	0.41	0.4	S	0.34	0.11	0.21	0.42	0.28	0.55	0.39	0.46	0.3	0.54	0.22	0.31	0.16	0.09	0.11	0.42	0.21	0.28	0.3	0.15	0.2	0.25	0.55	0.30
Minimum	0.14	0.06	0.16	0.11	0.2	0.18	0.2	0.1	0.13	0.11	0.09	0.16	0.07	0.08	0.11	0.31	0.15	0.09	0.13	0.15	0.05	0.05	0.03	0.1	0.13	0.19	0.24	0.11	0.06	0.03		
Maximum	0.62	0.44	0.53	0.68	0.57	0.47	0.61	0.61	0.49	0.68	0.41	0.66	0.5	0.55	0.52	0.83	0.59	0.54	0.93	0.47	0.41	0.28	0.2	0.5	0.59	0.61	0.62	0.44	0.25	0.4		
Average	0.4	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.4	0.3	0.4	0.3	0.5	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.3	0.3	0.4	0.4	0.2	0.1	0.2		

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.



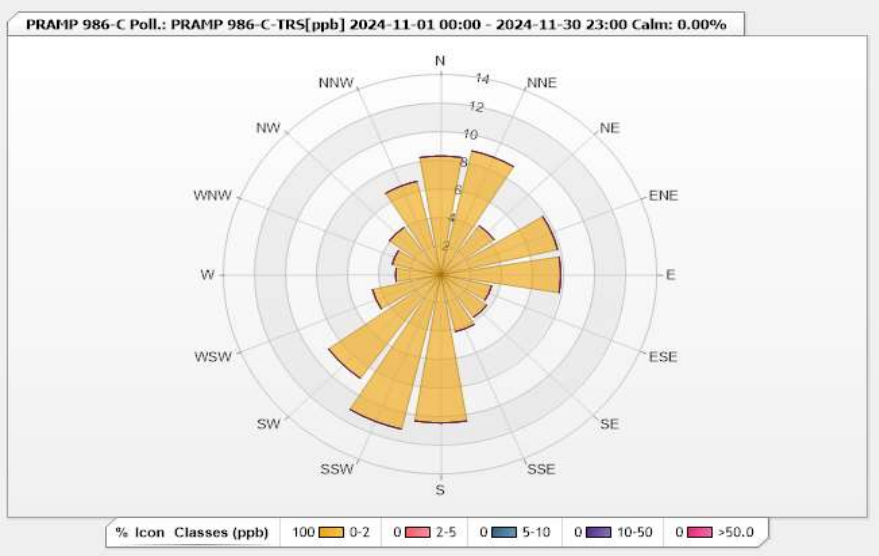


Station: PRAMP 986-C Poll.: PRAMP 986-C-TRS[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	8.33	0	0	0	0	8.33
NNE	8.92	0	0	0	0	8.92
NE	4.24	0	0	0	0	4.24
ENE	7.75	0	0	0	0	7.75
E	7.75	0	0	0	0	7.75
ESE	3.36	0	0	0	0	3.36
SE	3.65	0	0	0	0	3.65
SSE	4.09	0	0	0	0	4.09
S	10.38	0	0	0	0	10.38
SSW	11.11	0	0	0	0	11.11
SW	8.92	0	0	0	0	8.92
WSW	4.53	0	0	0	0	4.53
W	2.92	0	0	0	0	2.92
WNW	3.22	0	0	0	0	3.22
NW	4.09	0	0	0	0	4.09
NNW	6.73	0	0	0	0	6.73
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

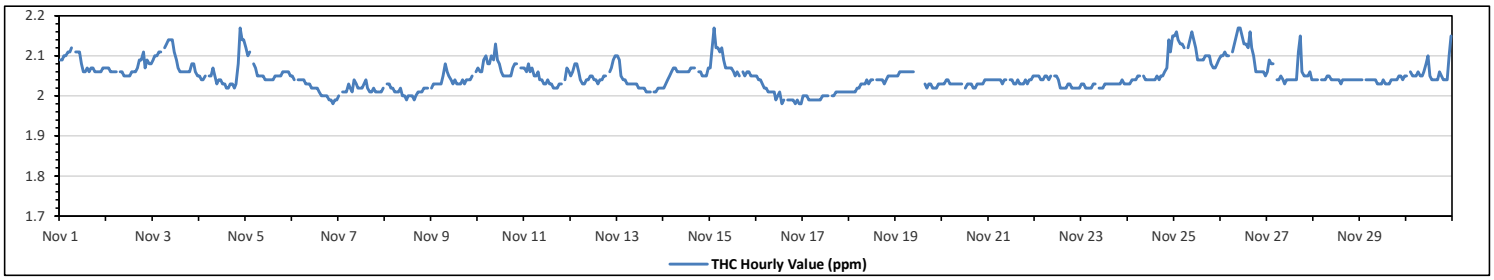
TOTAL HYDROCARBONS (THC) in ppm

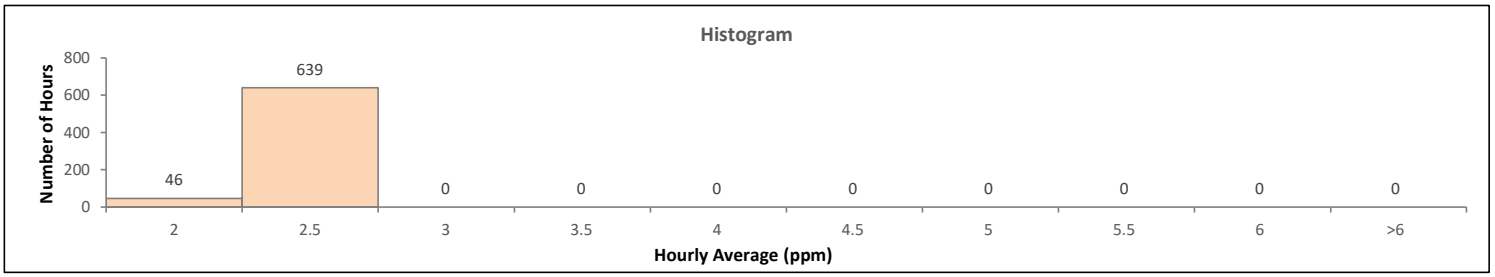
Maximum Hourly Value:	2.17	ppm	on Nov 4 at hr 21	Hours in Service:	720
Maximum Daily Value:	2.11	ppm	on Nov 25	Hours of Data:	685
Minimum Hourly Value:	1.98	ppm	on Nov 6 at hr 21	Hours of Missing Data:	0
Minimum Daily Value:	2.00	ppm	on Nov 17	Hours of Calibration:	35
Monthly Average:	2.05	ppm		Operational 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			
Nov 1	2.09	2.09	2.10	2.10	2.11	2.11	2.12	S	2.11	2.11	2.11	2.08	2.06	2.06	2.07	2.06	2.07	2.07	2.06	2.06	2.06	2.06	2.07	2.07	2.06	2.12	2.08
Nov 2	2.07	2.07	2.06	2.06	2.06	2.06	S	2.06	2.06	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.07	2.09	2.09	2.11	2.07	2.09	2.08	2.08	2.05	2.11	2.07
Nov 3	2.09	2.10	2.10	2.11	2.11	S	2.12	2.13	2.14	2.14	2.14	2.11	2.09	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.08	2.08	2.06	2.05	2.05	2.14	2.09
Nov 4	2.05	2.04	2.04	2.05	S	2.05	2.05	2.07	2.05	2.03	2.04	2.04	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.03	2.08	**2.17**	2.14	2.14	2.02	**2.17**	2.05
Nov 5	2.12	2.10	2.11	S	2.08	2.07	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.05	2.04	2.12	2.06
Nov 6	2.05	2.04	S	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.99	1.99	1.98	2.05	2.02
Nov 7	2.00	S	2.01	2.01	2.01	2.03	2.02	2.01	2.04	2.03	2.02	2.02	2.02	2.03	2.04	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.00	2.04	2.02
Nov 8	S	2.03	2.03	2.02	2.02	2.01	2.01	2.01	2.02	2.00	2.00	1.99	2.00	2.00	2.00	1.99	2.00	2.01	2.01	2.01	2.02	2.02	2.02	S	1.99	2.03	2.01
Nov 9	2.02	2.03	2.03	2.03	2.03	2.03	2.05	2.08	2.06	2.05	2.04	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.04	2.05	S	2.06	2.02	2.08	2.04
Nov 10	2.07	2.06	2.06	2.09	2.10	2.08	2.08	2.10	2.09	2.13	2.09	2.08	2.06	2.05	2.05	2.05	2.05	2.05	2.07	2.08	2.08	S	2.07	2.07	2.05	2.13	2.07
Nov 11	2.07	2.06	2.08	2.06	2.07	2.05	2.05	2.06	2.04	2.04	2.03	2.03	2.04	2.03	2.03	2.02	2.02	2.02	2.03	2.03	S	2.04	2.07	2.06	2.02	2.08	2.04
Nov 12	2.05	2.06	2.08	2.08	2.06	2.04	2.03	2.03	2.04	2.04	2.05	2.05	2.04	2.04	2.03	2.04	2.04	2.05	2.05	S	2.06	2.07	2.09	2.10	2.03	2.10	2.05
Nov 13	2.10	2.09	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	S	2.01	2.01	2.02	2.02	2.02	2.01	2.10	2.03
Nov 14	2.02	2.03	2.04	2.05	2.06	2.07	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.07	S	2.06	2.06	2.05	2.05	2.05	2.07	2.02	2.07	2.06
Nov 15	2.07	2.12	**2.17**	2.12	2.12	2.11	2.12	2.09	2.07	2.07	2.07	2.07	2.06	2.05	2.06	2.05	S	2.06	2.05	2.06	2.06	2.05	2.05	2.05	2.05	**2.17**	2.08
Nov 16	2.05	2.04	2.04	2.03	2.02	2.02	2.01	2.01	2.01	2.01	1.99	2.00	2.01	1.98	1.99	S	1.99	1.99	1.99	1.99	1.98	1.99	1.98	1.98	1.98	2.05	2.00
Nov 17	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	S	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	2.01	2.00
Nov 18	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.04	2.03	2.04	2.04	S	2.04	2.04	2.04	2.04	2.03	2.04	2.05	2.05	2.05	2.05	2.01	2.05	2.03
Nov 19	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	C	C	C	C	C	2.03	2.02	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.02	2.06	2.04
Nov 20	2.03	2.03	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	S	2.02	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.03	2.04	2.04	2.02	2.04	2.03
Nov 21	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.04	S	2.04	2.04	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.05	2.03	2.05	2.04
Nov 22	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.04	2.05	S	2.05	2.05	2.04	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.05	2.03
Nov 23	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	S	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.02	2.04	2.03
Nov 24	2.03	2.03	2.04	2.04	2.04	2.05	2.05	S	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.05	2.05	2.06	2.07	2.14	2.11	2.15	2.03	2.15	2.06
Nov 25	2.15	2.16	2.14	2.13	2.13	2.12	S	2.12	2.14	2.16	2.14	2.12	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.08	2.07	2.07	2.08	2.09	2.07	2.16	**2.11**
Nov 26	2.10	2.10	2.11	2.10	2.10	S	2.11	2.13	2.15	**2.17**	**2.17**	2.15	2.13	2.13	2.12	2.16	2.12	2.10	2.06	2.06	2.06	2.06	2.06	2.05	2.05	**2.17**	2.11
Nov 27	2.06	2.09	2.08	2.08	S	2.04	2.04	2.05	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.11	2.15	2.06	2.05	2.05	2.05	2.06	2.04	2.03	2.15	2.06
Nov 28	2.04	2.04	2.04	S	2.04	2.04	2.04	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.05	2.04
Nov 29	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.05	2.03	2.05	2.04
Nov 30	2.05	S	2.06	2.05	2.05	2.05	2.06	2.05	2.05	2.06	2.08	2.10	2.05	2.04	2.04	2.04	2.04	2.06	2.05	2.04	2.04	2.04	2.10	2.15	2.04	2.15	2.06
Diurnal Maximum	2.15	2.16	2.17	2.13	2.13	2.12	2.12	2.13	2.15	2.17	2.17	2.15	2.13	2.13	2.12	2.16	2.12	2.15	2.10	2.11	2.08	2.17	2.14	2.15			
Diurnal Average	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.05	2.06	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	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.



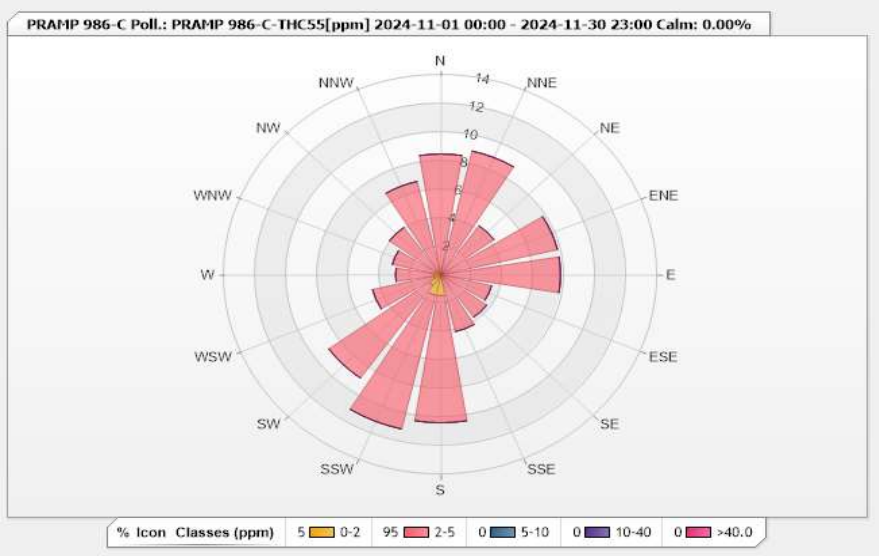


Station: PRAMP 986-C Poll.: PRAMP 986-C-THC55[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	8.47	0	0	0	8.47
NNE	0	8.91	0	0	0	8.91
NE	0	4.23	0	0	0	4.23
ENE	0	7.74	0	0	0	7.74
E	0	7.74	0	0	0	7.74
ESE	0	3.36	0	0	0	3.36
SE	0	3.65	0	0	0	3.65
SSE	0	4.09	0	0	0	4.09
S	1.46	8.91	0	0	0	10.37
SSW	1.46	9.64	0	0	0	11.1
SW	0.88	8.03	0	0	0	8.91
WSW	0.44	4.09	0	0	0	4.53
W	0.44	2.48	0	0	0	2.92
WNW	0.29	2.92	0	0	0	3.21
NW	0.29	3.8	0	0	0	4.09
NNW	0.15	6.57	0	0	0	6.72
Summary	5.41	94.63	0	0	0	100



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

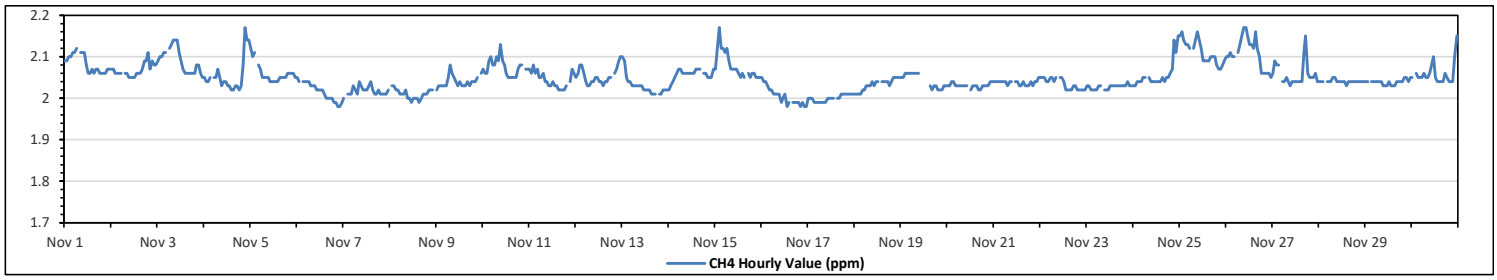
METHANE (CH4) in ppm

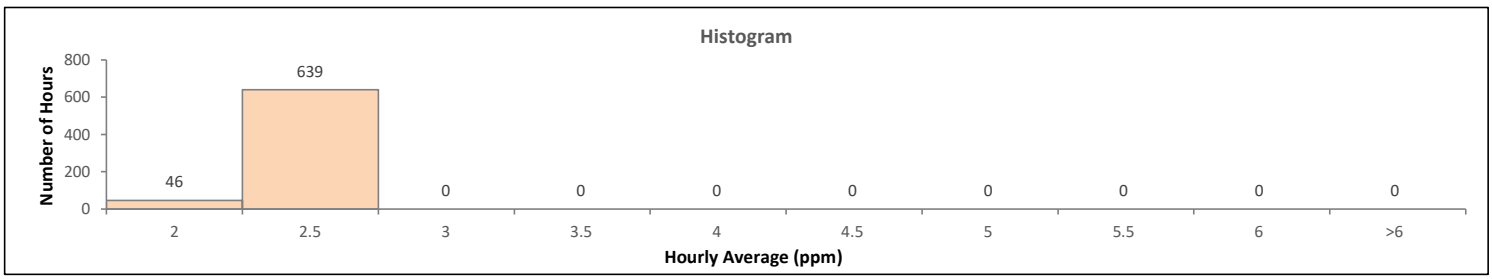
Maximum Hourly Value:	2.17	ppm	on Nov 4 at hr 21	Hours in Service:	720
Maximum Daily Value:	2.11	ppm	on Nov 25	Hours of Data:	685
Minimum Hourly Value:	1.98	ppm	on Nov 6 at hr 21	Hours of Missing Data:	0
Minimum Daily Value:	2.00	ppm	on Nov 17	Hours of Calibration:	35
Monthly Average:	2.05	ppm		Operational 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			
Nov 1	2.09	2.09	2.10	2.10	2.11	2.11	2.12	S	2.11	2.11	2.11	2.08	2.06	2.06	2.07	2.06	2.07	2.07	2.06	2.06	2.06	2.07	2.07	2.06	2.06	2.12	2.08
Nov 2	2.07	2.07	2.06	2.06	2.06	2.06	S	2.06	2.06	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.07	2.09	2.09	2.11	2.07	2.09	2.08	2.08	2.05	2.11	2.07
Nov 3	2.09	2.10	2.10	2.11	2.11	S	2.12	2.13	2.14	2.14	2.14	2.11	2.09	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.08	2.08	2.06	2.05	2.05	2.14	2.09
Nov 4	2.05	2.04	2.04	2.05	S	2.05	2.05	2.07	2.05	2.03	2.04	2.04	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.03	2.08	**2.17**	2.14	2.14	2.02	**2.17**	2.05
Nov 5	2.12	2.10	2.11	S	2.08	2.07	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.05	2.04	2.12	2.06
Nov 6	2.05	2.04	S	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.99	1.98	2.05	2.02
Nov 7	2.00	S	2.01	2.01	2.01	2.03	2.02	2.01	2.04	2.03	2.02	2.02	2.02	2.03	2.04	2.02	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.00	2.04	2.02
Nov 8	S	2.03	2.03	2.02	2.02	2.01	2.01	2.01	2.02	2.00	2.00	1.99	2.00	2.00	2.00	1.99	2.00	2.01	2.01	2.01	2.02	2.02	2.02	S	1.99	2.03	2.01
Nov 9	2.02	2.03	2.03	2.03	2.03	2.03	2.05	2.08	2.06	2.05	2.04	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.04	2.05	S	2.06	2.02	2.08	2.04
Nov 10	2.07	2.06	2.06	2.09	2.10	2.08	2.08	2.10	2.09	2.13	2.09	2.08	2.06	2.05	2.05	2.05	2.05	2.05	2.07	2.08	2.08	S	2.07	2.07	2.05	2.13	2.07
Nov 11	2.07	2.06	2.08	2.06	2.07	2.05	2.05	2.06	2.04	2.04	2.03	2.03	2.04	2.03	2.03	2.02	2.02	2.02	2.02	2.03	S	2.04	2.07	2.06	2.02	2.08	2.04
Nov 12	2.05	2.06	2.08	2.08	2.06	2.04	2.03	2.03	2.04	2.04	2.05	2.05	2.04	2.04	2.03	2.04	2.04	2.05	2.05	S	2.06	2.07	2.09	2.10	2.03	2.10	2.05
Nov 13	2.10	2.09	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	S	2.01	2.01	2.02	2.02	2.02	2.01	2.10	2.03
Nov 14	2.02	2.03	2.04	2.05	2.06	2.07	2.07	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.07	S	2.06	2.06	2.05	2.05	2.05	2.07	2.02	2.07	2.06
Nov 15	2.07	2.12	**2.17**	2.12	2.12	2.11	2.12	2.09	2.07	2.07	2.07	2.07	2.06	2.05	2.06	2.05	S	2.06	2.05	2.06	2.06	2.05	2.05	2.05	2.05	**2.17**	2.08
Nov 16	2.05	2.04	2.04	2.03	2.02	2.02	2.01	2.01	2.01	2.01	1.99	2.00	2.01	1.98	1.99	S	1.99	1.99	1.99	1.99	1.98	1.99	1.98	1.98	1.98	2.05	2.00
Nov 17	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	S	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	2.01	2.00
Nov 18	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.04	2.03	2.04	2.04	S	2.04	2.04	2.04	2.04	2.03	2.04	2.05	2.05	2.05	2.05	2.01	2.05	2.03
Nov 19	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	C	C	C	C	C	2.03	2.02	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.02	2.06	2.04
Nov 20	2.03	2.03	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	S	2.02	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.03	2.04	2.04	2.02	2.04	2.03
Nov 21	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.04	S	2.04	2.04	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.05	2.03	2.05	2.04
Nov 22	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.04	2.05	S	2.05	2.05	2.04	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.05	2.03
Nov 23	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	S	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.02	2.04	2.03
Nov 24	2.03	2.03	2.04	2.04	2.04	2.05	2.05	S	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.05	2.05	2.06	2.07	2.14	2.11	2.15	2.03	2.15	2.06
Nov 25	2.15	2.16	2.14	2.13	2.13	2.12	S	2.12	2.14	2.16	2.14	2.12	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.08	2.07	2.07	2.08	2.09	2.07	2.16	**2.11**
Nov 26	2.10	2.10	2.11	2.10	2.10	S	2.11	2.13	2.15	**2.17**	**2.17**	2.15	2.13	2.13	2.12	2.16	2.12	2.10	2.06	2.06	2.06	2.06	2.06	2.05	2.05	**2.17**	2.11
Nov 27	2.06	2.09	2.08	2.08	S	2.04	2.04	2.05	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.11	2.15	2.06	2.05	2.05	2.05	2.06	2.04	2.03	2.15	2.06
Nov 28	2.04	2.04	2.04	S	2.04	2.04	2.04	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.05	2.04
Nov 29	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.05	2.03	2.05	2.04
Nov 30	2.05	S	2.06	2.05	2.05	2.05	2.06	2.05	2.05	2.06	2.08	2.10	2.05	2.04	2.04	2.04	2.04	2.06	2.05	2.04	2.04	2.04	2.10	2.15	2.04	2.15	2.06
Diurnal Maximum	2.15	2.16	2.17	2.13	2.13	2.12	2.12	2.13	2.15	2.17	2.17	2.15	2.13	2.13	2.12	2.16	2.12	2.15	2.10	2.11	2.08	2.17	2.14	2.15			
Diurnal Average	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.05	2.06	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	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.



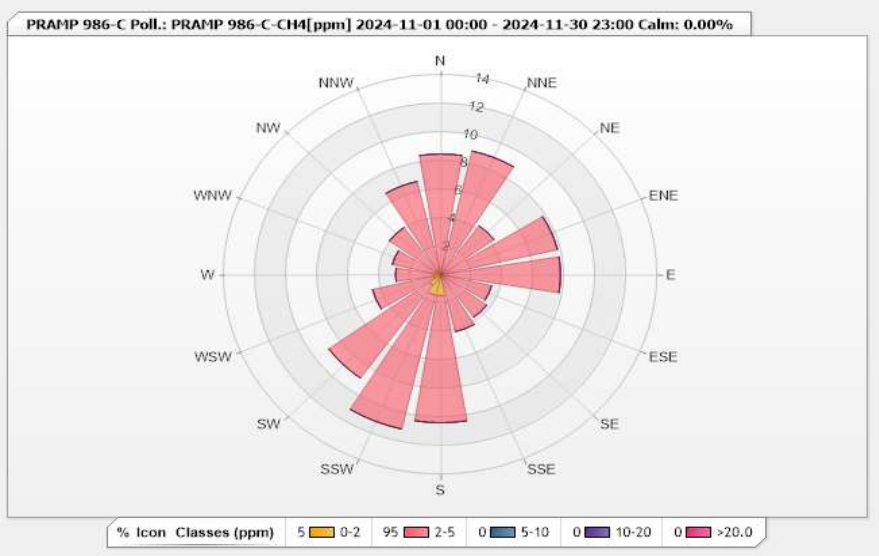


Station: PRAMP 986-C Poll.: PRAMP 986-C-CH4[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	8.47	0	0	0	8.47
NNE	0	8.91	0	0	0	8.91
NE	0	4.23	0	0	0	4.23
ENE	0	7.74	0	0	0	7.74
E	0	7.74	0	0	0	7.74
ESE	0	3.36	0	0	0	3.36
SE	0	3.65	0	0	0	3.65
SSE	0	4.09	0	0	0	4.09
S	1.46	8.91	0	0	0	10.37
SSW	1.46	9.64	0	0	0	11.1
SW	0.88	8.03	0	0	0	8.91
WSW	0.44	4.09	0	0	0	4.53
W	0.44	2.48	0	0	0	2.92
WNW	0.29	2.92	0	0	0	3.21
NW	0.29	3.8	0	0	0	4.09
NNW	0.15	6.57	0	0	0	6.72
Summary	5.41	94.63	0	0	0	100



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

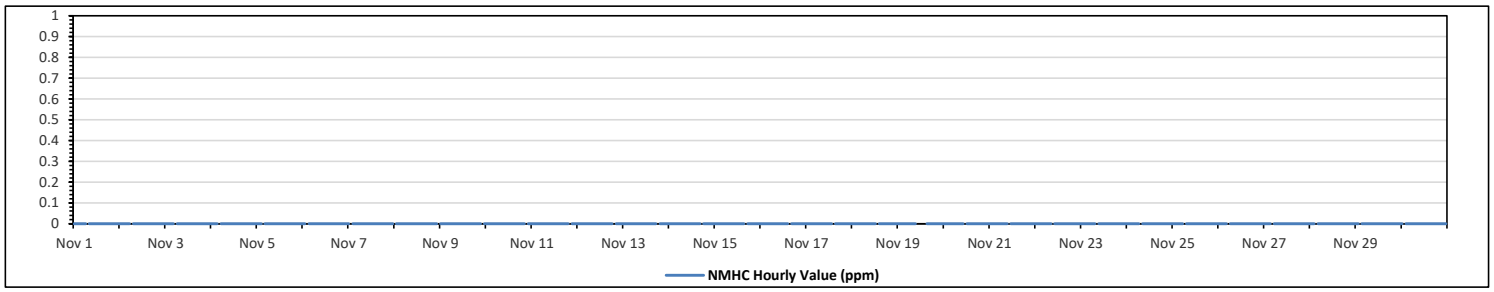
NON-METHANE HYDROCARBONS (NMHC) in ppm

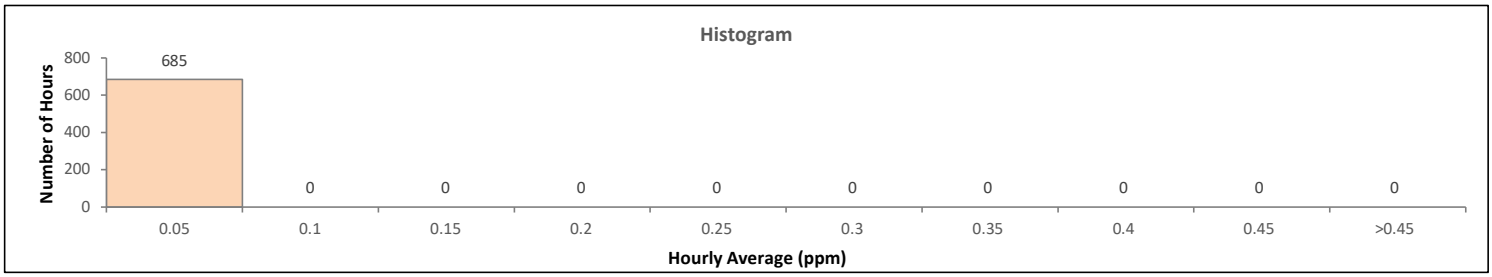
Maximum Hourly Value:	0.00 ppm	on Nov 1 at hr 0	Hours in Service:	720	
Maximum Daily Value:	0.00 ppm	on Nov 1	Hours of Data:	685	
Minimum Hourly Value:	0.00 ppm	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.00 ppm	on Nov 1	Hours of Calibration:	35	
Monthly Average:	0.00 ppm		Operational Uptime:	100.0	

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



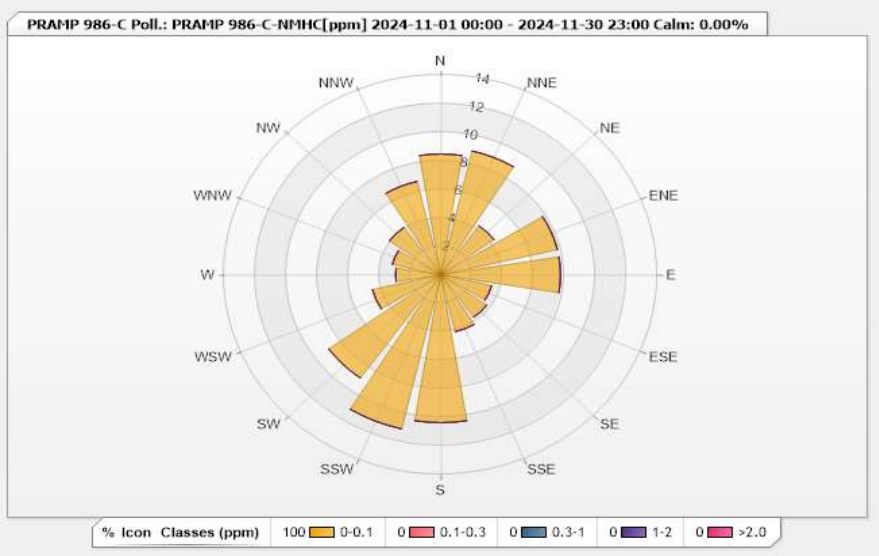


Station: PRAMP 986-C Poll.: PRAMP 986-C-NMHC[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	8.47	0	0	0	0	8.47
NNE	8.91	0	0	0	0	8.91
NE	4.23	0	0	0	0	4.23
ENE	7.74	0	0	0	0	7.74
E	7.74	0	0	0	0	7.74
ESE	3.36	0	0	0	0	3.36
SE	3.65	0	0	0	0	3.65
SSE	4.09	0	0	0	0	4.09
S	10.36	0	0	0	0	10.36
SSW	11.09	0	0	0	0	11.09
SW	8.91	0	0	0	0	8.91
WSW	4.53	0	0	0	0	4.53
W	2.92	0	0	0	0	2.92
WNW	3.21	0	0	0	0	3.21
NW	4.09	0	0	0	0	4.09
NNW	6.72	0	0	0	0	6.72
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

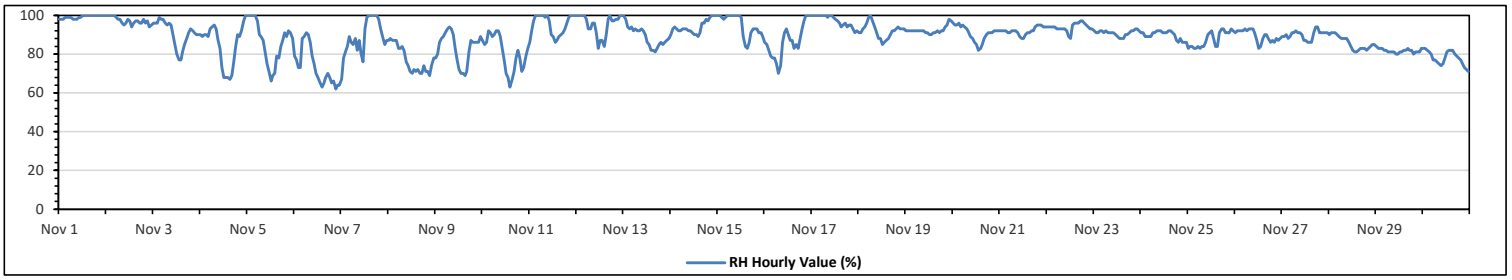
Maximum Hourly Value:	100	%	on Nov 1 at hr 12	Hours in Service:	720
Maximum Daily Value:	99.3	%	on Nov 1	Hours of Data:	720
Minimum Hourly Value:	62	%	on Nov 6 at hr 21	Hours of Missing Data:	0
Minimum Daily Value:	73.3	%	on Nov 6	Hours of Calibration:	0
Monthly Average:	88.9	%		Operational Uptime:	100.0

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
Nov 1	98	98	98	99	99	99	99	98	98	98	99	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	**100**	**99.3**
Nov 2	**100**	**100**	**100**	**100**	**100**	99	98	98	96	95	96	98	97	94	96	97	97	96	96	98	96	97	94	95	94	**100**	97.2
Nov 3	96	96	96	99	98	98	96	95	96	95	90	85	80	77	77	81	85	88	91	93	92	91	90	90	77	99	90.6
Nov 4	90	89	90	90	89	93	94	95	93	87	83	73	68	68	68	67	69	76	84	90	89	92	97	**100**	67	**100**	84.8
Nov 5	**100**	**100**	**100**	**100**	**100**	97	90	89	87	81	75	71	66	69	70	79	78	84	87	91	89	92	91	88	66	**100**	86.4
Nov 6	79	77	73	73	88	89	91	90	86	79	75	70	68	65	63	65	68	70	68	65	66	**62**	64	64	**62**	91	**73.3**
Nov 7	67	78	81	84	89	86	85	88	82	87	80	76	93	99	**100**	**100**	**100**	**100**	**100**	98	93	89	85	87	67	**100**	88.6
Nov 8	87	88	87	87	87	83	83	84	82	76	74	71	70	72	71	72	70	70	74	71	71	69	74	78	69	88	77.1
Nov 9	78	80	86	88	89	91	93	94	93	90	83	77	72	70	70	69	71	81	87	86	86	86	86	89	69	94	83.1
Nov 10	87	85	86	92	91	89	90	92	92	89	83	77	70	68	63	67	71	78	82	78	71	73	79	83	63	92	80.7
Nov 11	86	92	97	**100**	**100**	**100**	**100**	**100**	99	**100**	97	90	89	86	87	89	90	91	93	96	99	**100**	**100**	**100**	86	**100**	95.0
Nov 12	**100**	**100**	**100**	**100**	**100**	98	93	93	96	96	91	83	87	87	84	90	98	**100**	97	97	98	98	**100**	**100**	83	**100**	95.3
Nov 13	**100**	98	94	93	94	92	93	92	92	93	92	90	86	85	82	82	81	83	85	86	85	86	87	88	81	**100**	89.1
Nov 14	90	93	94	93	92	92	93	93	93	92	92	91	90	90	89	91	96	96	98	97	99	**100**	**100**	**100**	89	**100**	93.9
Nov 15	**100**	**100**	99	98	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	89	84	83	86	91	93	93	93	91	91	89	83	**100**	94.9
Nov 16	86	85	82	79	78	78	75	70	74	86	91	93	90	87	87	83	85	83	88	93	97	**100**	**100**	**100**	70	**100**	86.3
Nov 17	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	**100**	**100**	99	98	97	96	94	95	96	94	95	95	93	91	92	91	**100**	97.3
Nov 18	91	91	93	94	96	99	**100**	97	94	91	88	88	85	86	87	88	90	92	92	93	94	93	93	93	85	**100**	92.0
Nov 19	92	92	92	92	92	92	92	92	92	92	91	91	90	90	91	91	92	91	92	92	94	95	98	97	90	98	92.3
Nov 20	96	95	95	96	94	95	94	93	91	89	88	86	85	82	83	85	88	90	91	91	91	92	92	92	82	96	90.6
Nov 21	92	92	92	92	91	91	92	92	92	91	89	88	88	90	91	91	92	92	94	95	95	95	94	94	88	95	91.9
Nov 22	94	94	94	94	94	93	93	93	93	93	92	89	88	95	96	96	96	97	97	96	95	94	93	93	88	97	93.8
Nov 23	92	91	91	92	92	91	92	91	91	91	91	90	89	88	88	88	90	90	91	92	92	93	93	92	88	93	90.9
Nov 24	91	91	89	89	89	89	91	91	92	92	92	91	91	91	92	92	91	90	87	86	88	86	86	86	86	92	89.7
Nov 25	83	84	84	83	83	84	83	84	84	86	90	91	92	88	84	84	91	93	93	91	91	91	93	92	83	93	87.6
Nov 26	91	92	92	92	92	93	92	93	93	93	91	87	83	84	88	90	90	88	86	87	86	88	87	88	83	93	89.4
Nov 27	89	89	90	88	89	91	91	92	91	91	90	87	87	86	86	86	91	94	94	91	91	91	91	91	86	94	89.9
Nov 28	90	91	91	91	90	89	88	88	88	88	86	84	82	81	81	82	83	83	83	82	83	84	85	85	81	91	85.8
Nov 29	84	83	83	83	82	82	81	81	81	81	80	80	81	81	82	82	83	82	82	80	81	81	81	83	80	84	81.7
Nov 30	83	83	82	81	80	77	77	76	75	74	75	78	81	82	82	82	80	79	78	77	75	73	72	71	71	83	78.0
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	90.4	90.9	91.0	91.4	91.9	91.7	91.3	91.1	90.5	89.9	88.1	85.8	84.8	84.2	83.9	84.9	86.6	88.1	89.2	89.3	89.2	89.2	89.6	90.0			

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 - November 2024

Summary of Hourly Averages

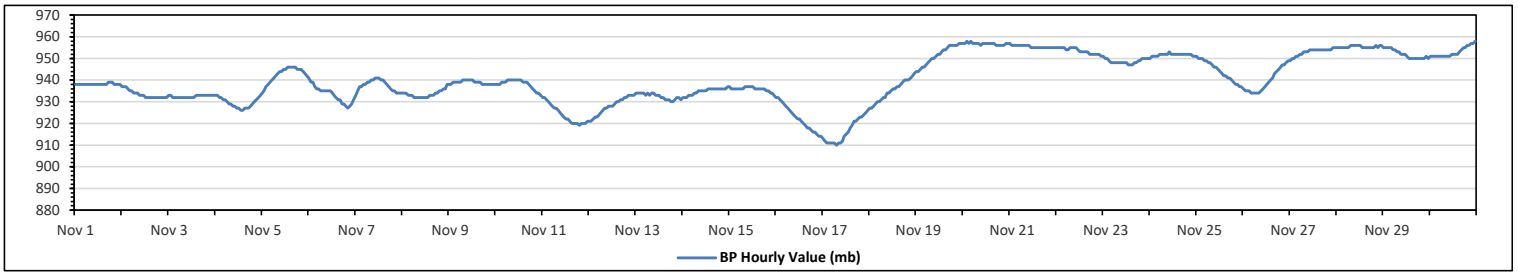
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	958	mb	on Nov 20 at hr 2	Hours in Service:	720
Maximum Daily Value:	957	mb	on Nov 20	Hours of Data:	720
Minimum Hourly Value:	910	mb	on Nov 17 at hr 7	Hours of Missing Data:	0
Minimum Daily Value:	916	mb	on Nov 17	Hours of Calibration:	0
Monthly Average:	940	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Nov 1	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	939	939	939	938	938	938	938	938	939	938
Nov 2	937	937	937	936	935	935	934	934	934	933	933	933	932	932	932	932	932	932	932	932	932	932	932	932	932	937	933
Nov 3	933	933	932	932	932	932	932	932	932	932	932	932	932	932	933	933	933	933	933	933	933	933	933	933	932	933	933
Nov 4	933	933	932	932	931	931	930	929	929	928	928	927	927	926	926	927	927	927	928	929	930	931	932	933	926	933	929
Nov 5	934	935	937	938	939	940	941	942	943	944	944	945	945	946	946	946	946	946	945	945	945	944	943	942	934	946	943
Nov 6	941	939	939	937	936	936	935	935	935	935	935	935	934	933	932	931	931	929	929	928	927	928	929	931	927	941	933
Nov 7	933	935	937	937	938	938	939	939	940	940	941	941	941	940	940	939	938	937	936	935	935	934	934	934	933	941	938
Nov 8	934	934	934	933	933	933	932	932	932	932	932	932	932	932	933	933	933	934	934	935	935	936	936	938	932	938	934
Nov 9	938	938	939	939	939	939	939	940	940	940	940	940	940	939	939	939	939	938	938	938	938	938	938	938	938	940	939
Nov 10	938	938	938	939	939	939	940	940	940	940	940	940	940	940	939	939	939	938	937	936	935	934	934	933	933	940	938
Nov 11	932	932	931	930	929	928	927	927	926	925	924	923	922	922	921	920	920	920	920	919	920	920	920	921	919	932	924
Nov 12	921	921	922	923	923	924	925	926	927	927	928	928	928	929	930	930	931	931	932	932	933	933	933	933	921	933	928
Nov 13	934	934	934	934	934	933	934	933	934	934	933	933	933	932	932	931	931	931	930	930	931	932	932	931	930	934	933
Nov 14	932	932	932	933	933	933	934	934	935	935	935	935	935	936	936	936	936	936	936	936	936	936	936	937	932	937	935
Nov 15	937	936	936	936	936	936	936	936	937	937	937	937	937	936	936	936	936	936	936	935	935	934	934	933	933	937	936
Nov 16	932	932	931	930	929	928	927	926	925	924	923	922	922	921	920	919	918	918	917	916	916	915	914	914	914	932	922
Nov 17	913	912	911	911	911	911	911	**910**	911	911	912	914	915	916	918	919	921	921	922	923	923	924	925	926	**910**	926	**916**
Nov 18	927	927	928	929	930	930	931	932	932	934	934	935	936	936	937	937	938	939	940	940	940	941	942	943	927	943	935
Nov 19	944	944	945	946	946	947	948	949	950	950	951	952	952	953	954	954	955	956	956	956	956	956	957	957	944	957	951
Nov 20	957	957	**958**	957	**958**	957	957	957	957	956	957	957	957	957	957	957	957	956	956	956	956	956	957	957	956	**958**	**957**
Nov 21	957	956	956	956	956	956	956	956	956	956	956	955	955	955	955	955	955	955	955	955	955	955	955	955	955	957	956
Nov 22	955	955	955	955	955	954	954	955	955	955	955	954	953	953	953	953	953	952	952	952	952	952	952	951	951	955	954
Nov 23	951	950	950	949	948	948	948	948	948	948	948	948	948	947	947	947	948	948	949	949	950	950	950	950	947	951	949
Nov 24	950	951	951	951	951	952	952	952	952	952	953	952	952	952	952	952	952	952	952	952	952	952	951	951	950	953	952
Nov 25	951	950	950	950	949	949	948	948	947	946	946	945	944	943	942	942	941	941	940	939	938	938	937	937	937	951	944
Nov 26	936	935	935	935	934	934	934	934	934	935	936	937	938	939	940	941	943	944	945	946	947	947	948	949	934	949	939
Nov 27	949	950	950	951	951	952	952	953	953	953	954	954	954	954	954	954	954	954	954	954	954	954	955	955	949	955	953
Nov 28	955	955	955	955	955	955	955	956	956	956	956	956	956	955	955	955	955	955	955	955	956	955	956	956	955	956	955
Nov 29	955	955	955	955	955	954	954	953	953	952	952	952	951	950	950	950	950	950	950	950	950	950	951	950	950	955	952
Nov 30	951	951	951	951	951	951	951	951	951	951	951	952	952	952	952	953	954	955	955	956	956	957	957	**958**	951	**958**	953
Diurnal Maximum	957	957	958	957	958	957	957	957	957	956	957	957	957	957	957	957	957	956	956	956	956	957	957	958			
Diurnal Average	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	941			

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 - November 2024

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

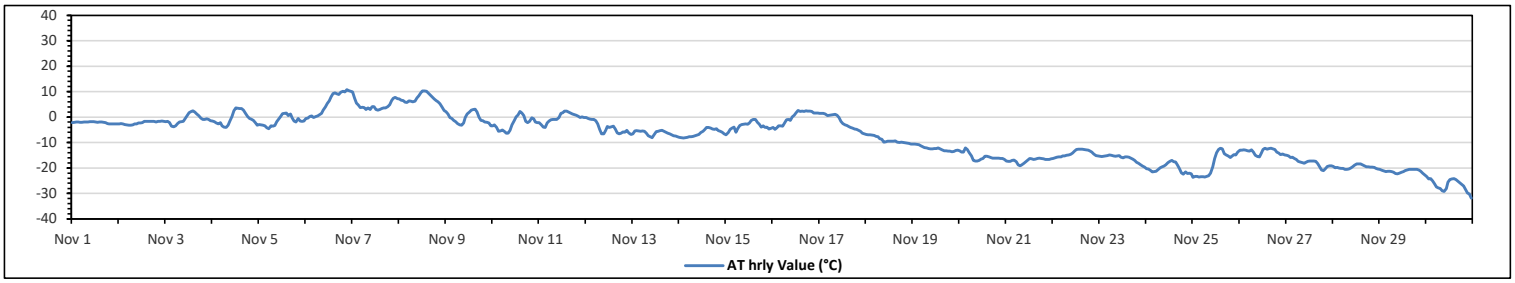
Maximum Hourly Value:	10.8	°C	on Nov 6 at hr 21	Hours in Service:	720	
Maximum Daily Value:	7.1	°C	on Nov 8	Hours of Data:	720	
Minimum Hourly Value:	-31.9	°C	on Nov 30 at hr 23	Hours of Missing Data:	0	
Minimum Daily Value:	-26.7	°C	on Nov 30	Hours of Calibration:	0	
Monthly Average:	-7.9	°C		Operational 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
Nov 1	-2.2	-2.1	-2	-2	-2.1	-2.1	-1.9	-1.9	-1.9	-1.8	-1.8	-1.8	-2	-2.1	-2	-2	-2.1	-2.2	-2.5	-2.6	-2.6	-2.6	-2.6	-2.7	-2.7	-1.8	-2.2
Nov 2	-2.7	-2.5	-2.6	-2.9	-3.1	-3.2	-3.2	-3	-2.7	-2.6	-2.4	-2.4	-2.2	-1.6	-1.6	-1.6	-1.6	-1.6	-1.7	-1.9	-1.6	-1.7	-1.5	-1.6	-3.2	-1.5	-2.2
Nov 3	-1.8	-1.7	-2.2	-3.6	-3.8	-3.4	-2.5	-1.9	-1.8	-1.6	-0.5	0.5	1.7	2.2	2.5	2	1.3	0.6	-0.4	-0.9	-0.9	-0.7	-1	-1.4	-3.8	2.5	-0.8
Nov 4	-1.5	-1.8	-2.4	-2.6	-2.2	-3.5	-3.9	-4	-3.2	-1.4	0.2	2.5	3.6	3.5	3.3	3.3	2.8	1.4	0.2	-0.6	-0.8	-1.2	-2.2	-3.2	-4.0	3.6	-0.6
Nov 5	-2.9	-3	-3.2	-3.4	-4.2	-4.6	-3.4	-3.6	-3.3	-1.8	-0.8	0.2	1.4	1.5	1.6	0.5	1.2	-0.3	-1.5	-2	-0.6	-1.5	-1.7	-1.5	-4.6	1.6	-1.5
Nov 6	-0.6	-0.4	0.2	0.4	-0.2	0.2	0.4	1	1.5	2.7	4	5.4	6.4	8.1	9.3	9.5	9.1	8.9	9.7	10.1	9.9	**10.8**	10.4	10.1	-0.6	**10.8**	5.3
Nov 7	9.9	7.5	5.5	4.7	3.7	3.9	3.7	3	3.6	3	4.1	4.2	2.9	2.8	3	3.3	3.6	3.6	4.1	4.9	6.5	7.4	7.8	7.2	2.8	9.9	4.7
Nov 8	7.1	6.6	6.5	5.9	5.7	6.4	6.3	6	6.3	7.5	8.3	9.5	10.3	10.3	10.1	9.4	8.6	7.8	7.1	6.5	6	5.3	3.9	2.6	2.6	10.3	**7.1**
Nov 9	2.1	1.3	-0.1	-0.6	-1.2	-1.8	-2.5	-3	-3.2	-2.4	-0.1	1.2	2	2.8	3	3.1	2	0	-1.2	-1.4	-1.9	-2.1	-2.4	-3.4	-3.4	3.1	-0.4
Nov 10	-3.4	-3.1	-4.1	-5.6	-5.4	-5.1	-5.7	-6.4	-6.3	-5.2	-3.1	-1.4	0.1	0.9	2.2	1.6	0.5	-1.6	-2.2	-1.6	-0.3	-0.7	-1.9	-2.2	-6.4	2.2	-2.5
Nov 11	-2.2	-3.1	-3.9	-4.1	-2.4	-1.5	-1.1	-0.9	-1	-1	-0.1	1.5	1.7	2.4	2.3	1.9	1.6	1.3	1	0.7	0.3	-0.1	0.1	-0.1	-4.1	2.4	-0.3
Nov 12	-0.2	-0.5	-0.8	-1	-1	-1.4	-2.7	-4.9	-6.6	-6.5	-5.2	-3.7	-4.1	-3.8	-3.6	-4.7	-6.2	-6.5	-6.4	-5.8	-5.9	-5.2	-6.2	-6.8	-6.8	-0.2	-4.2
Nov 13	-6.6	-5.4	-5.3	-5.4	-5.5	-5.4	-5.6	-6.4	-7.3	-7.8	-8	-7	-5.7	-5.6	-5.3	-5.2	-5.6	-6	-6.3	-6.5	-6.9	-7.3	-7.5	-7.7	-8.0	-5.2	-6.3
Nov 14	-7.9	-8.1	-8.2	-8.1	-7.9	-7.8	-7.7	-7.6	-7.3	-7.1	-6.8	-6.1	-5.5	-4.9	-4.1	-4.1	-4.3	-4.7	-4.9	-4.6	-5.3	-5.6	-5.9	-6.6	-8.2	-4.1	-6.3
Nov 15	-6.9	-6.1	-4.8	-4.3	-3.9	-6	-4.5	-3.3	-2.9	-2.8	-2.7	-2.8	-2.3	-1.2	-0.9	-1	-2.1	-2.8	-3.9	-3.5	-4	-3.9	-4.7	-4.5	-6.9	-0.9	-3.6
Nov 16	-4.1	-4.8	-4.2	-3.4	-3.4	-3.6	-2.4	-1.1	-0.9	-1.2	0.1	0.7	1.7	2.6	2.2	2.4	2.2	2.5	2.3	2.3	2.2	1.6	1.6	1.6	-4.8	2.6	-0.1
Nov 17	1.5	1.5	1.5	1.3	0.6	0.7	0.9	1	1.1	0.7	-0.1	-1.7	-2.5	-3.1	-3.3	-3.7	-4	-4.3	-4.7	-4.9	-5.2	-5.5	-6.3	-6.6	-6.6	1.5	-1.9
Nov 18	-6.8	-6.9	-7	-7.1	-7.2	-7.6	-7.8	-8.4	-8.8	-9.8	-9.7	-9.5	-9.5	-9.5	-9.4	-9.3	-9.8	-10	-9.8	-10	-10.1	-10.3	-10.4	-10.5	-10.5	-6.8	-9.0
Nov 19	-10.5	-10.6	-10.7	-10.8	-11.2	-11.7	-11.9	-12.1	-12.3	-12.5	-12.5	-12.4	-12.3	-12.1	-12.5	-12.9	-13.2	-13.2	-13.3	-13.3	-13.6	-13.5	-13.1	-13	-13.6	-10.5	-12.3
Nov 20	-13.2	-13.7	-13.8	-12.1	-12.8	-14	-15.3	-17	-17.2	-17.2	-17.1	-16.5	-16.3	-15.4	-15.4	-15.7	-15.9	-16.1	-16.1	-16.1	-16.1	-16.3	-16.2	-16.6	-17.2	-12.1	-15.5
Nov 21	-17.2	-17.4	-17.4	-17	-16.9	-17.5	-18.7	-19.1	-18.7	-18.2	-17.5	-16.9	-16.3	-16.4	-16.6	-16.5	-16.3	-16.1	-16.2	-16.4	-16.6	-16.6	-16.6	-16.4	-19.1	-16.1	-17.1
Nov 22	-16.2	-16	-15.8	-15.7	-15.6	-15.3	-15.2	-15	-14.8	-14.6	-14.1	-13.4	-12.8	-12.6	-12.6	-12.6	-12.8	-12.9	-13	-13.3	-13.8	-14.5	-15.1	-15.3	-16.2	-12.6	-14.3
Nov 23	-15.4	-15.5	-15.4	-15.2	-15.1	-14.9	-15	-15.3	-15.4	-15.3	-15.1	-15.8	-16	-15.7	-15.6	-15.8	-16.1	-16.5	-17.1	-17.7	-18.2	-18.8	-19.3	-19.7	-19.7	-14.9	-16.2
Nov 24	-20.2	-20.4	-20.9	-21.5	-21.4	-21.3	-20.5	-19.9	-19.5	-19.3	-18.7	-17.9	-17.4	-17.1	-17.5	-17.6	-18.9	-20.3	-21.9	-22.4	-21.5	-22.2	-22	-22.3	-22.4	-17.1	-20.1
Nov 25	-23.7	-23.3	-23.3	-23.6	-23.5	-23.4	-23.6	-23.3	-23	-22	-19.5	-16.3	-14	-12.7	-12.2	-12.5	-14.4	-14.9	-15.3	-15.9	-15.3	-14.7	-14.9	-13.8	-23.7	-12.2	-18.3
Nov 26	-13	-13	-12.9	-13	-13.2	-13.3	-12.9	-13.8	-15	-15.5	-15.7	-14.1	-12.8	-12.2	-12.6	-12.3	-12.2	-12.5	-12.7	-13.8	-14.2	-14.7	-14.5	-14.8	-15.7	-12.2	-13.5
Nov 27	-15	-15.2	-15.9	-15.8	-16.2	-16.6	-17.3	-17.6	-17.9	-18.2	-17.8	-17.4	-17.2	-17.2	-17.2	-17.3	-18.3	-19.5	-20.8	-21.1	-20.2	-19.4	-19.2	-19.1	-21.1	-15.0	-17.8
Nov 28	-19.4	-19.9	-19.8	-20	-20.1	-20.1	-20.5	-20.5	-20.4	-20	-19.5	-18.9	-18.5	-18.5	-18.5	-18.8	-19.2	-19.5	-19.6	-19.7	-19.7	-19.8	-20.1	-20.4	-20.5	-18.5	-19.6
Nov 29	-20.6	-21	-21.2	-21.4	-21.3	-21.3	-21.4	-21.6	-22.2	-22.3	-22	-21.6	-21.4	-21.1	-20.8	-20.6	-20.5	-20.6	-20.6	-20.6	-20.8	-21.3	-22.1	-22.6	-22.6	-20.5	-21.3
Nov 30	-23.3	-24.3	-24.1	-25.1	-26.2	-27.5	-27.9	-28	-29	-29.2	-28.1	-25.6	-24.6	-24.3	-24.2	-24.5	-25.2	-25.8	-26.5	-27.1	-28.5	-29.9	-30.3	**-31.9**	**-31.9**	-23.3	**-26.7**
Diurnal Maximum	9.9	7.5	6.5	5.9	5.7	6.4	6.3	6.0	6.3	7.5	8.3	9.5	10.3	10.3	10.1	9.5	9.1	8.9	9.7	10.1	9.9	10.8	10.4	10.1			
Diurnal Average	-7.9	-8.1	-8.3	-8.4	-8.6	-8.8	-8.8	-9.0	-9.0	-8.8	-8.1	-7.3	-6.7	-6.3	-6.2	-6.4	-6.9	-7.4	-7.8	-8.0	-8.0	-8.2	-8.5	-8.8			

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 - November 2024

Summary of Hourly Averages

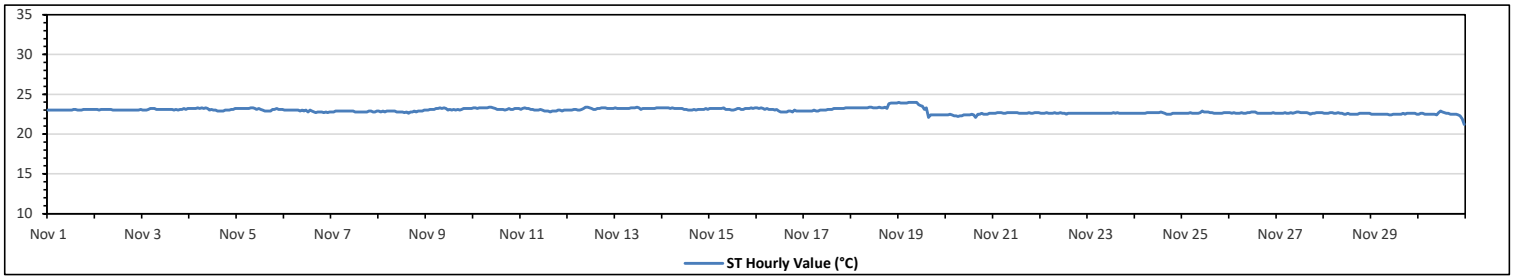
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	24.0	°C	on Nov 19 at hr 0	Hours in Service:	720
Maximum Daily Value:	23.4	°C	on Nov 18	Hours of Data:	720
Minimum Hourly Value:	21.2	°C	on Nov 30 at hr 23	Hours of Missing Data:	0
Minimum Daily Value:	22.4	°C	on Nov 20	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
Nov 1	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.1	23.0	23.0	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.1	23.0
Nov 2	23.1	23.1	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.0	23.1	23.0
Nov 3	23.0	23.0	23.0	23.1	23.2	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.1	23.0	23.1	23.1	23.2	23.1	23.2	23.0	23.2	23.1
Nov 4	23.2	23.2	23.2	23.2	23.3	23.2	23.3	23.2	23.3	23.2	23.0	23.1	23.0	23.0	22.9	22.9	22.9	22.9	23.0	23.0	23.0	23.1	23.1	23.2	22.9	23.3	23.1
Nov 5	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.2	23.1	23.2	23.1	23.0	22.9	22.9	22.9	22.9	23.1	23.1	23.2	23.1	23.1	23.1	22.9	23.3	23.1
Nov 6	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.9	23.0	22.9	23.0	22.8	23.0	22.9	22.8	22.7	22.8	22.8	22.8	22.7	22.8	22.7	22.8	22.7	23.0	22.9
Nov 7	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.9	22.9	22.8	22.8	22.9	22.8	22.9	22.9
Nov 8	22.9	22.8	22.9	22.8	22.9	22.9	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.7	22.8	22.6	22.8	22.8	22.9	22.8	22.9	22.9	22.9	23.0	22.6	23.0	22.8
Nov 9	23.0	23.0	23.1	23.1	23.1	23.2	23.2	23.3	23.2	23.3	23.2	23.0	23.1	23.0	23.1	23.0	23.1	23.0	23.1	23.2	23.2	23.2	23.2	23.2	23.0	23.3	23.1
Nov 10	23.3	23.3	23.2	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.3	23.2	23.1	23.1	23.1	23.1	23.0	23.1	23.2	23.1	23.1	23.2	23.2	23.2	23.0	23.4	23.2
Nov 11	23.1	23.2	23.3	23.2	23.2	23.1	23.1	23.0	23.0	23.0	23.1	23.0	22.9	22.9	22.9	22.8	22.9	22.9	22.9	23.0	23.0	22.9	23.0	23.0	22.8	23.3	23.0
Nov 12	23.0	23.0	23.0	23.1	23.1	23.0	23.0	23.1	23.2	23.4	23.4	23.3	23.2	23.1	23.1	23.2	23.2	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.0	23.4	23.2
Nov 13	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.3	23.4	23.3	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.3	23.1	23.4	23.2
Nov 14	23.3	23.3	23.3	23.3	23.2	23.3	23.2	23.2	23.2	23.2	23.2	23.1	23.1	23.0	23.0	23.0	23.1	23.0	23.1	23.1	23.1	23.1	23.2	23.1	23.0	23.3	23.2
Nov 15	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.1	23.1	23.1	23.0	23.0	23.1	23.2	23.2	23.1	23.1	23.2	23.2	23.2	23.3	23.2	23.3	23.0	23.3	23.2
Nov 16	23.3	23.2	23.3	23.2	23.1	23.2	23.1	23.1	23.1	23.0	23.1	22.9	22.8	22.8	22.8	22.8	22.9	22.9	22.8	23.0	22.9	22.9	22.9	22.9	22.8	23.3	23.0
Nov 17	22.9	22.9	22.9	22.9	22.9	23.0	22.9	22.9	23.0	23.0	23.0	23.0	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.3	22.9	23.3	23.1
Nov 18	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.3	23.3	23.3	23.4	23.3	23.3	23.4	23.2	23.8	23.9	23.9	23.9	23.9	23.2	23.9	**23.4**
Nov 19	**24.0**	23.9	23.9	23.9	23.9	**24.0**	**24.0**	**24.0**	**24.0**	**24.0**	23.7	23.6	23.5	23.1	23.3	22.1	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.1	**24.0**	23.3
Nov 20	22.4	22.4	22.5	22.4	22.3	22.3	22.2	22.3	22.3	22.4	22.4	22.4	22.4	22.5	22.4	22.1	22.5	22.5	22.6	22.5	22.5	22.5	22.6	22.6	22.1	22.6	**22.4**
Nov 21	22.6	22.6	22.7	22.7	22.7	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.7	22.6	22.6	22.7	22.7	22.7	22.6	22.7	22.7
Nov 22	22.6	22.6	22.6	22.7	22.6	22.6	22.6	22.7	22.6	22.6	22.7	22.6	22.6	22.5	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
Nov 23	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	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.6
Nov 24	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.7	22.6	22.5	22.5	22.5	22.6	22.6	22.6	22.6	22.6	22.5	22.8	22.6
Nov 25	22.6	22.6	22.6	22.6	22.7	22.6	22.6	22.6	22.6	22.7	22.9	22.8	22.8	22.8	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.6	22.9	22.7
Nov 26	22.7	22.6	22.7	22.6	22.6	22.6	22.7	22.6	22.6	22.7	22.7	22.8	22.8	22.8	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.6	22.6	22.8	22.7
Nov 27	22.6	22.6	22.6	22.6	22.7	22.6	22.6	22.7	22.6	22.7	22.8	22.8	22.7	22.7	22.7	22.7	22.6	22.5	22.6	22.6	22.7	22.7	22.7	22.7	22.5	22.8	22.7
Nov 28	22.6	22.6	22.6	22.7	22.7	22.6	22.6	22.7	22.6	22.6	22.5	22.5	22.6	22.5	22.5	22.5	22.5	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.5	22.7	22.6
Nov 29	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.4	22.4	22.5	22.5	22.5	22.5	22.5	22.6	22.5	22.6	22.6	22.6	22.6	22.6	22.5	22.4	22.6	22.5
Nov 30	22.5	22.6	22.6	22.5	22.5	22.5	22.5	22.5	22.5	22.4	22.7	22.9	22.8	22.7	22.6	22.6	22.5	22.5	22.5	22.5	22.4	22.3	21.9	**21.2**	**21.2**	22.9	22.5
Diurnal Maximum	24.0	23.9	23.9	23.9	23.9	24.0	24.0	24.0	24.0	24.0	23.7	23.6	23.5	23.3	23.4	23.3	23.3	23.4	23.3	23.8	23.9	23.9	23.9	23.9			
Diurnal Average	22.9	22.9	23.0	23.0	23.0	22.9	22.9	23.0	23.0	23.0	23.0	22.9	22.9	22.9	22.9	22.8	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9			

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.



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

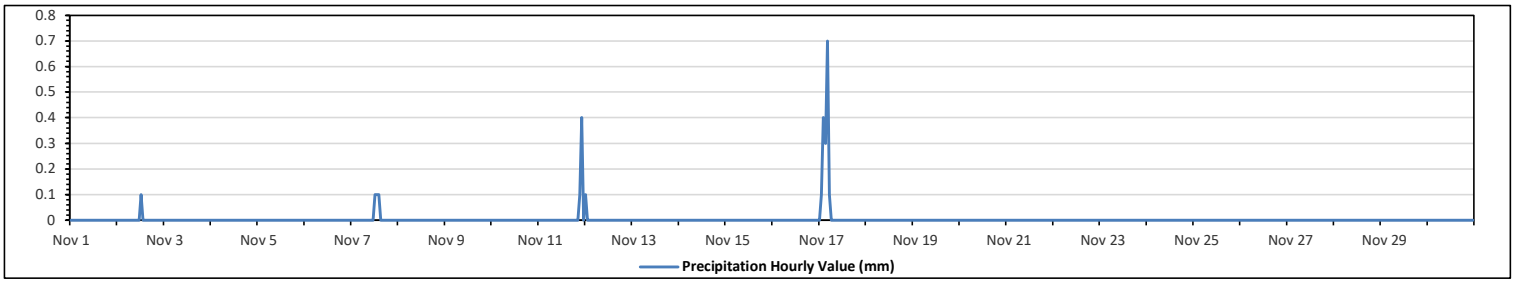
PRECIPITATION in mm

Maximum Hourly Value:	0.7	mm	on Nov 17 at hr 4	Hours in Service:	720	
Maximum Daily Value:	1.6	mm	on Nov 17	Hours of Data:	720	
Minimum Hourly Value:	0.0	mm	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	mm	on Nov 1	Hours of Calibration:	0	
Monthly Total:	2.6	mm		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	Total
Nov 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
Nov 2	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	0.1	0.1
Nov 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
Nov 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Nov 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
Nov 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
Nov 7	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	0.0	0.1	0.3
Nov 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
Nov 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
Nov 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
Nov 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0	0.0	0.4	0.5
Nov 12	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Nov 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
Nov 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Nov 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
Nov 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
Nov 17	0	0.1	0.4	0.3	**0.7**	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**0.7**	**1.6**
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.1	0.1	0.4	0.3	0.7	0.1	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	0.0	0.1	0.4	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 - November 2024

Summary of Hourly Averages

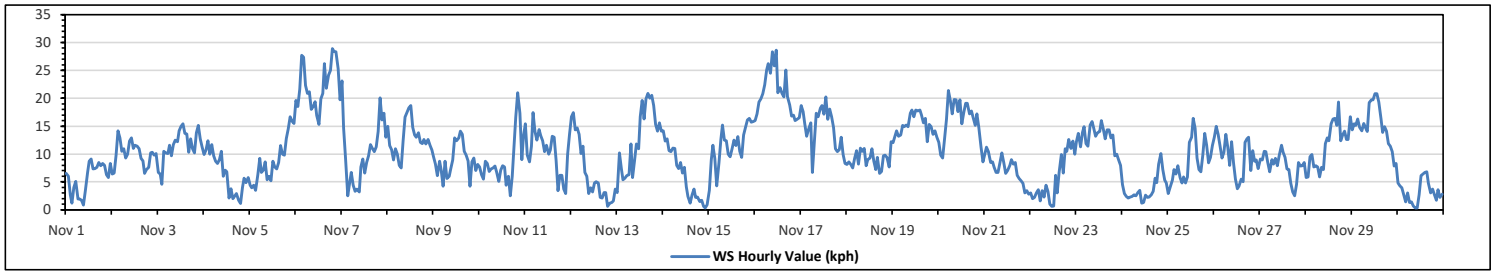
VECTOR WIND SPEED (VWS) in km/hr

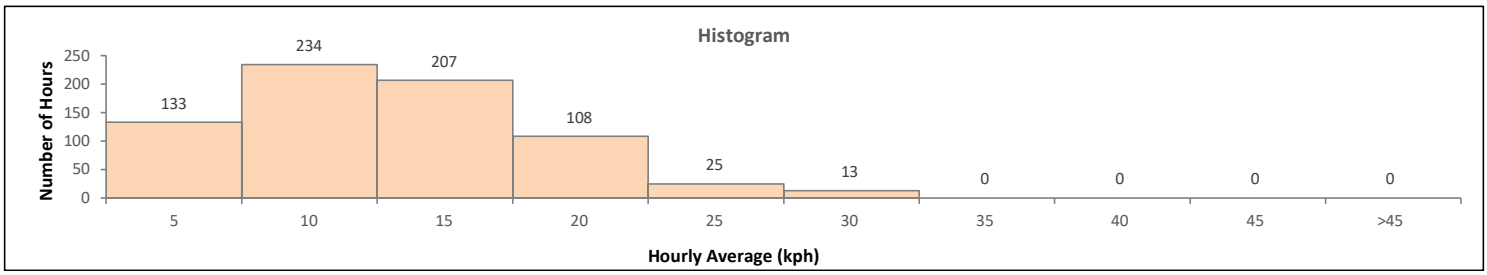
Maximum Hourly Value:	28.9	kph	on Nov 6 at hr 19	Hours in Service:	720	
Maximum Daily Value:	22.3	kph	on Nov 6	Hours of Data:	720	
Minimum Hourly Value:	0.3	kph	on Nov 14 at hr 22	Hours of Missing Data:	0	
Minimum Daily Value:	3.2	kph	on Nov 30	Hours of Calibration:	0	
Monthly Average:	1.1	kph		Operational 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
Nov 1	6.5	6.0	2.7	1.2	4.0	5.1	1.9	1.9	1.7	0.8	3.4	6.7	8.7	9.1	7.3	7.4	7.6	8.5	7.9	8.3	8.0	6.3	5.8	8.3	0.8	9.1	5.6
Nov 2	6.4	6.6	9.8	14.2	12.9	10.5	10.9	9.3	10.0	12.3	12.9	11.0	11.6	11.4	10.9	9.2	8.8	6.5	7.2	7.6	10.2	10.3	9.8	10.1	6.4	14.2	10.0
Nov 3	6.7	6.4	4.6	10.5	10.2	10.1	11.6	9.7	11.7	12.5	12.2	14.2	15.0	15.4	13.7	13.6	10.3	12.7	10.9	10.2	13.8	15.1	12.7	11.2	4.6	15.4	11.5
Nov 4	9.9	10.7	12.4	10.0	11.7	9.7	8.7	8.3	9.0	10.5	6.0	7.1	6.8	2.1	3.8	2.0	2.4	2.9	1.7	1.1	4.0	5.7	4.9	5.8	1.1	12.4	6.6
Nov 5	4.4	3.9	4.4	3.5	6.3	9.2	6.7	7.1	8.6	5.4	6.0	5.2	8.7	7.7	7.3	8.5	11.5	10.0	9.8	12.8	14.5	16.7	15.9	15.5	3.5	16.7	8.7
Nov 6	19.6	18.5	21.6	27.7	27.4	22.3	20.9	21.2	18.0	18.5	19.4	16.9	15.3	19.9	20.9	26.2	21.8	24.1	25.0	**28.9**	28.4	28.3	25.3	19.7	15.3	**28.9**	**22.3**
Nov 7	23.1	14.7	9.3	2.5	4.9	6.7	4.4	3.3	3.7	3.2	7.7	9.1	6.6	8.5	9.7	11.7	11.0	10.4	11.3	14.0	20.1	16.1	17.3	13.0	2.5	23.1	10.1
Nov 8	15.0	11.5	10.8	8.9	10.9	10.0	8.0	7.5	12.4	16.6	17.3	18.3	18.7	14.8	13.4	13.0	13.8	12.1	11.9	12.6	11.8	12.6	11.6	10.7	7.5	18.7	12.7
Nov 9	9.5	8.2	6.1	8.7	7.1	4.2	8.7	5.6	6.0	7.4	8.9	12.9	12.4	12.9	14.1	13.5	10.5	9.8	8.8	4.2	8.6	9.3	7.0	8.1	4.2	14.1	8.9
Nov 10	7.7	6.3	5.5	8.7	8.3	6.9	7.3	7.5	7.8	6.8	5.1	7.1	7.9	7.7	4.4	6.0	2.5	6.0	11.8	16.6	21.0	17.3	9.0	13.1	2.5	21.0	8.7
Nov 11	15.4	9.8	8.6	11.4	17.4	14.0	12.5	14.4	13.3	12.4	10.4	11.6	10.0	10.7	13.2	13.0	8.9	3.4	6.2	6.2	3.7	2.9	9.9	13.5	2.9	17.4	10.5
Nov 12	16.7	17.4	14.3	14.7	13.5	10.1	11.4	6.7	6.0	2.9	3.9	3.2	4.8	5.0	4.8	2.2	2.1	3.1	3.1	0.6	1.2	1.3	1.6	3.7	0.6	17.4	6.4
Nov 13	3.1	10.2	7.4	5.4	5.7	6.1	6.3	11.8	5.8	8.7	11.8	10.9	16.7	19.6	16.3	19.9	20.9	20.0	20.5	18.7	15.3	14.1	15.6	14.1	3.1	20.9	12.7
Nov 14	14.2	12.3	12.7	10.6	10.4	11.1	11.0	8.0	7.4	8.5	6.6	7.6	4.1	2.4	1.2	2.7	3.7	2.2	2.3	1.5	1.7	0.6	**0.3**	0.9	**0.3**	14.2	6.0
Nov 15	3.5	8.9	11.6	9.2	4.3	8.4	12.6	15.2	12.5	12.4	10.0	9.5	10.9	12.5	11.5	13.1	10.5	9.4	13.4	14.8	16.1	16.4	15.7	15.8	3.5	16.4	11.6
Nov 16	16.0	17.2	19.3	19.9	20.8	22.4	25.1	26.2	24.5	28.3	25.8	28.6	21.0	21.9	20.9	20.2	25.1	20.3	18.8	16.8	17.0	16.0	16.2	16.5	16.0	28.6	21.0
Nov 17	18.7	17.6	15.5	13.2	14.6	15.6	6.7	12.1	17.3	16.7	18.2	18.7	17.1	20.2	16.2	18.1	16.7	14.8	10.9	10.4	10.8	13.0	9.9	8.3	6.7	20.2	14.6
Nov 18	8.1	8.6	8.1	7.5	9.2	10.6	8.2	11.1	10.5	11.0	7.9	9.0	9.3	10.9	8.7	7.2	9.4	6.5	6.9	9.7	9.8	9.4	7.7	12.2	6.5	12.2	9.1
Nov 19	12.0	13.0	14.2	13.2	13.4	15.1	14.9	15.2	14.9	17.3	17.9	16.7	17.9	17.7	17.9	17.0	15.6	16.4	12.2	15.3	14.9	13.5	14.2	13.0	12.0	17.9	15.1
Nov 20	12.1	9.8	9.3	12.7	16.2	21.4	19.6	17.2	19.8	19.7	17.6	19.7	15.4	17.4	19.1	19.1	17.2	17.7	16.4	15.1	17.2	14.8	11.2	8.6	8.6	21.4	16.0
Nov 21	9.8	11.2	10.4	8.5	8.6	7.6	6.7	6.7	8.7	10.2	8.5	6.5	7.0	8.0	9.0	8.2	8.5	6.2	5.6	5.2	4.7	3.0	3.4	2.8	2.8	11.2	7.3
Nov 22	3.0	2.0	2.2	3.0	3.6	1.6	3.4	2.3	4.4	3.3	1.0	0.6	0.7	6.2	3.0	6.7	9.9	6.6	10.9	10.5	12.6	11.0	12.3	10.0	0.6	12.6	5.5
Nov 23	12.2	13.7	11.3	13.9	14.9	11.9	11.4	15.2	15.8	14.7	13.2	13.8	14.0	16.0	14.5	12.7	14.3	14.3	12.9	13.4	9.7	10.0	8.9	8.0	8.0	16.0	12.9
Nov 24	4.5	2.9	2.4	2.1	2.3	2.4	2.7	2.5	3.1	3.5	1.2	1.3	2.6	2.2	2.3	2.7	3.3	5.7	4.9	8.2	10.1	7.2	5.3	4.8	1.2	10.1	3.8
Nov 25	2.9	4.2	5.3	7.2	6.4	7.9	5.8	4.8	5.9	4.8	5.9	12.1	13.0	16.4	14.6	9.3	7.2	6.8	9.8	13.7	11.6	8.4	9.4	11.5	2.9	16.4	8.5
Nov 26	13.0	15.0	13.5	11.4	9.3	10.3	13.5	11.2	8.0	12.2	8.4	5.5	3.8	4.2	5.5	5.0	12.1	12.7	13.0	7.0	10.6	8.7	8.9	7.4	3.8	15.0	9.6
Nov 27	9.1	8.9	10.5	10.4	8.5	6.8	9.0	8.2	9.2	7.9	9.8	11.6	10.3	9.4	7.3	7.2	4.7	3.2	2.5	4.6	8.5	7.8	7.9	8.5	2.5	11.6	8.0
Nov 28	5.8	5.9	9.5	9.9	7.7	7.9	7.7	5.9	7.6	7.2	11.9	12.9	12.4	15.4	16.3	16.4	15.1	19.3	12.4	13.4	14.1	12.6	12.6	16.7	5.8	19.3	11.5
Nov 29	14.3	15.4	15.1	16.3	14.8	14.2	15.5	14.8	14.0	19.2	19.7	19.7	20.8	20.8	19.3	16.3	13.9	14.9	14.1	11.9	11.4	10.4	7.8	8.3	7.8	20.8	15.1
Nov 30	4.8	4.3	3.9	2.7	1.4	3.0	1.3	1.4	0.7	**0.3**	**0.3**	2.7	6.1	6.4	6.7	6.8	4.7	3.0	3.7	2.7	1.7	3.6	2.2	2.8	**0.3**	6.8	**3.2**
Diurnal Maximum	23.1	18.5	21.6	27.7	27.4	22.4	25.1	26.2	24.5	28.3	25.8	28.6	21.0	21.9	20.9	26.2	25.1	24.1	25.0	28.9	28.4	28.3	25.3	19.7			
Diurnal Average	10.3	10.0	9.7	10.0	10.2	10.1	9.8	9.7	9.9	10.5	10.3	11.0	11.0	11.8	11.1	11.2	10.8	10.3	10.2	10.5	11.4	10.7	10.0	10.1			

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.



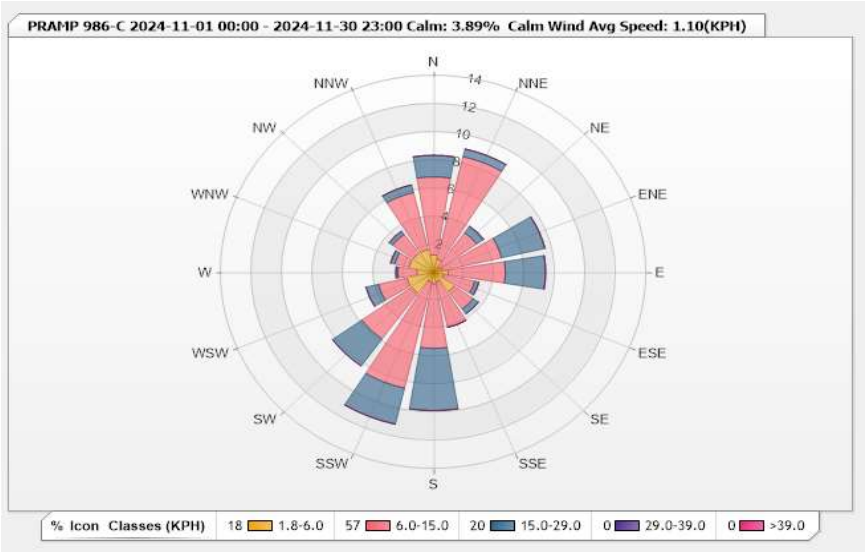


Station: PRAMP 986-C Monitor: WDS [KPH] Monthly: 11-2024

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

Calm (WS<1.8kph): 3.89% 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	1.25	5.56	1.53	0	0	8.34
NNE	0.97	7.5	0.56	0	0	9.03
NE	0.42	3.06	0.56	0	0	4.04
ENE	0.56	4.03	2.92	0	0	7.51
E	0.97	3.75	2.64	0	0	7.36
ESE	0.69	2.08	0.28	0	0	3.05
SE	1.67	1.53	0.42	0	0	3.62
SSE	0.69	3.33	0	0	0	4.02
S	0.83	4.58	4.44	0	0	9.85
SSW	0.69	7.78	2.64	0	0	11.11
SW	1.81	4.03	2.36	0	0	8.2
WSW	1.81	1.94	0.83	0	0	4.58
W	1.11	1.25	0.14	0	0	2.5
WNW	1.67	0.97	0.28	0	0	2.92
NW	1.67	1.67	0.28	0	0	3.62
NNW	1.67	4.17	0.56	0	0	6.4
Summary	18.48	57.23	20.44	0	0	96.15



Peace River Area Monitoring Program

986-C Station - November 2024

Summary of Hourly Averages

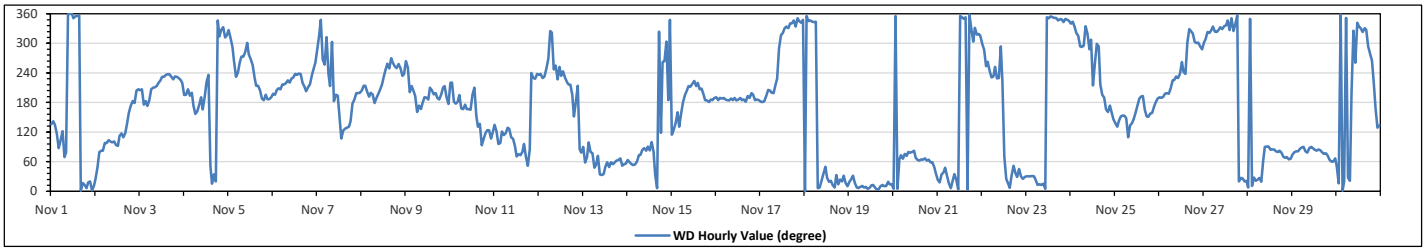
WIND DIRECTION (VWD) in sector

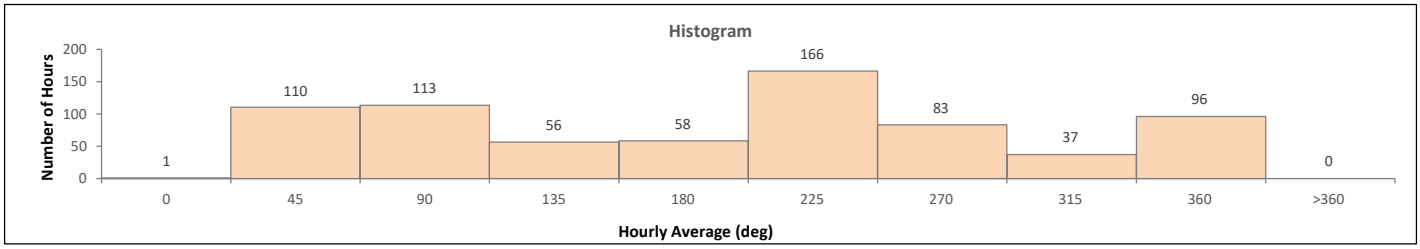
Monthly Average:	147 (SE)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																							Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Nov 1	SE	SE	SE	ESE	E	ESE	ESE	ENE	ENE	N	N	N	N	N	N	N	N	NNE	NNE	N	NNE	NNE	N	NNE	21	NNE
Nov 2	NNE	NE	E	E	E	E	E	ESE	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SSE	S	S	S	SSW	SSW	113	ESE
Nov 3	SSW	SSW	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	219	SW
Nov 4	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	S	S	SSE	S	SW	SW	NE	NNE	NE	NNE	NNW	NW	NNW	NNW	NW	NW	196	SSW
Nov 5	NW	NW	WNW	W	SW	WSW	W	W	W	W	WNW	W	W	WSW	SW	SSW	SSW	SSW	S	S	SSW	S	S	S	225	SW
Nov 6	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	W	221	SW
Nov 7	WNW	NW	NNW	W	WSW	NW	SW	SSW	WNW	S	SSW	SSW	SE	ESE	ESE	SE	SE	SE	SE	S	S	SSW	SSW	SSW	192	S
Nov 8	SSW	SSW	SSW	SSW	S	SSW	SSW	S	S	SSW	SSW	SW	SW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	SW	SW	227	SW
Nov 9	W	WSW	SSW	SSW	SSW	S	SSE	S	SSE	S	S	S	S	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	S	S	198	SSW
Nov 10	SW	SW	S	S	S	SSW	SSE	SSE	S	SSE	SSE	SSE	SSW	SSW	SSE	SE	SE	E	ESE	ESE	ESE	ESE	ESE	ESE	150	SSE
Nov 11	SE	ESE	E	E	ESE	ESE	ESE	SE	SE	ESE	ESE	E	ENE	ENE	ENE	E	E	ENE	NE	E	WSW	SW	SW	SW	110	ESE
Nov 12	SW	SW	SW	SW	WSW	W	NW	NW	WSW	WSW	SW	WSW	SW	WSW	SW	SW	SW	SW	SSW	SSE	S	SSW	E	ENE	245	WSW
Nov 13	E	ENE	ENE	E	E	ENE	NE	NE	ENE	NE	NNE	NE	NE	ENE	NE	ENE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	57	ENE
Nov 14	ENE	ENE	NE	NE	NE	ENE	ENE	ENE	E	E	E	E	E	E	E	NNE	N	NW	ESE	W	W	WNW	S	NNW	65	ENE
Nov 15	ESE	SE	SE	SSE	SE	SSE	S	SSW	SSW	SSW	SSW	SW	SW	SSW	SW	SSW	SSW	SSW	S	S	S	S	S	S	190	S
Nov 16	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	S	S	S	187	S
Nov 17	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	285	WNW
Nov 18	N	N	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NE	NE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	N	11	NNE
Nov 19	NNE	NNE	NNE	NNE	N	N	N	NNE	N	N	N	N	NNE	NNE	N	N	N	N	NNE	N	NNE	NNE	NNE	NNE	12	NNE
Nov 20	N	N	N	ENE	ENE	ENE	ENE	ENE	E	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	63	ENE
Nov 21	NNE	NNE	NE	NE	NE	NNE	NNE	N	NNE	NE	NNE	N	N	N	N	N	N	N	NNW	WNW	NNW	NW	NW	NW	9	N
Nov 22	WNW	WNW	WSW	W	WSW	SW	SW	WSW	SW	SW	WNW	SW	ENE	NNE	NNE	N	NNE	NE	NE	NNE	NE	NNE	NNE	NNE	19	NNE
Nov 23	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	N	NNW	NNW	5	N
Nov 24	NNW	NNW	NNW	NW	NW	WNW	WNW	WNW	NNW	NW	WNW	NW	SSW	WSW	WNW	WNW	SW	SSW	S	SSE	SSE	S	SSE	SE	221	SW
Nov 25	SE	SE	SE	SSE	SSE	SSE	SE	ESE	SE	SE	SE	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SSE	S	S	S	164	SSE
Nov 26	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	W	WSW	SW	WNW	NNW	NW	NW	WNW	WNW	WNW	WNW	WNW	245	WSW
Nov 27	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	N	NW	NNW	N	NNE	NNE	NNE	NNE	NNE	338	NNW
Nov 28	N	N	NNE	NNE	NNE	NNE	NNE	NNE	ENE	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	66	ENE
Nov 29	ENE	ENE	E	E	E	E	E	E	ENE	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	80	E
Nov 30	NE	NNE	N	N	NNE	N	NNE	NNE	SSW	NW	W	NNW	NNW	NNW	NW	NNW	NNW	WNW	W	W	SW	SSE	SE	SE	338	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

986-C Station - November 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	28.9	kph	on Nov 6 at hr 19	Hours in Service:	720
Maximum Daily Value:	22.3	kph	on Nov 6	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on Nov 14 at hr 22	Hours of Missing Data:	0
Minimum Daily Value:	3.2	kph	on Nov 30	Hours of Calibration:	0
Monthly Average:	1.1	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 147 degree (SE)

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			
Nov 1	6.5	6.0	2.7	1.2	4.0	5.1	1.9	1.9	1.7	0.8	3.4	6.7	8.7	9.1	7.3	7.4	7.6	8.5	7.9	8.3	8.0	6.3	5.8	8.3	0.8	9.1	5.6
	SE	SE	SE	ESE	E	ESE	ESE	ENE	ENE	N	N	N	N	N	N	N	N	NNE	NNE	N	NNE	NNE	N	NNE			21(NNE)
Nov 2	6.4	6.6	9.8	14.2	12.9	10.5	10.9	9.3	10.0	12.3	12.9	11.0	11.6	11.4	10.9	9.2	8.8	6.5	7.2	7.6	10.2	10.3	9.8	10.1	6.4	14.2	10.0
	NNE	NE	E	E	E	E	E	ESE	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SSE	S	S	S	SSW	SSW			113(ESE)
Nov 3	6.7	6.4	4.6	10.5	10.2	10.1	11.6	9.7	11.7	12.5	12.2	14.2	15.0	15.4	13.7	13.6	10.3	12.7	10.9	10.2	13.8	15.1	12.7	11.2	4.6	15.4	11.5
	SSW	SSW	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW			219(SW)
Nov 4	9.9	10.7	12.4	10.0	11.7	9.7	8.7	8.3	9.0	10.5	6.0	7.1	6.8	2.1	3.8	2.0	2.4	2.9	1.7	1.1	4.0	5.7	4.9	5.8	1.1	12.4	6.6
	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	S	S	SSE	S	SW	SW	NE	NNE	NE	NNE	NNW	NW	NNW	NNW	NW	NW			196(SSW)
Nov 5	4.4	3.9	4.4	3.5	6.3	9.2	6.7	7.1	8.6	5.4	6.0	5.2	8.7	7.7	7.3	8.5	11.5	10.0	9.8	12.8	14.5	16.7	15.9	15.5	3.5	16.7	8.7
	NW	NW	WNW	W	SW	WSW	W	W	W	W	WNW	W	W	WSW	SW	SSW	SSW	SSW	S	S	SSW	S	S	S			225(SW)
Nov 6	19.6	18.5	21.6	27.7	27.4	22.3	20.9	21.2	18.0	18.5	19.4	16.9	15.3	19.9	20.9	26.2	21.8	24.1	25.0	**28.9**	28.4	28.3	25.3	19.7	15.3	**28.9**	**22.3**
	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	W			221(SW)
Nov 7	23.1	14.7	9.3	2.5	4.9	6.7	4.4	3.3	3.7	3.2	7.7	9.1	6.6	8.5	9.7	11.7	11.0	10.4	11.3	14.0	20.1	16.1	17.3	13.0	2.5	23.1	10.1
	WNW	NW	NNW	W	WSW	NW	SW	SSW	WNW	S	SSW	SSW	SE	ESE	ESE	SE	SE	SE	SE	S	S	SSW	SSW	SSW			192(S)
Nov 8	15.0	11.5	10.8	8.9	10.9	10.0	8.0	7.5	12.4	16.6	17.3	18.3	18.7	14.8	13.4	13.0	13.8	12.1	11.9	12.6	11.8	12.6	11.6	10.7	7.5	18.7	12.7
	SSW	SSW	SSW	SSW	S	SSW	SSW	S	S	SSW	SSW	SW	SW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	SW	SW			227(SW)
Nov 9	9.5	8.2	6.1	8.7	7.1	4.2	8.7	5.6	6.0	7.4	8.9	12.9	12.4	12.9	14.1	13.5	10.5	9.8	8.8	4.2	8.6	9.3	7.0	8.1	4.2	14.1	8.9
	W	WSW	SSW	SSW	SSW	S	SSE	S	SSE	S	S	S	S	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	S	S			198(SSW)
Nov 10	7.7	6.3	5.5	8.7	8.3	6.9	7.3	7.5	7.8	6.8	5.1	7.1	7.9	7.7	4.4	6.0	2.5	6.0	11.8	16.6	21.0	17.3	9.0	13.1	2.5	21.0	8.7
	SW	SW	S	S	S	SSW	SSE	SSE	S	SSE	SSE	SSE	SSW	SSW	SSE	SE	SE	E	ESE	ESE	ESE	ESE	ESE	ESE			150(SSE)
Nov 11	15.4	9.8	8.6	11.4	17.4	14.0	12.5	14.4	13.3	12.4	10.4	11.6	10.0	10.7	13.2	13.0	8.9	3.4	6.2	6.2	3.7	2.9	9.9	13.5	2.9	17.4	10.5
	SE	ESE	E	E	ESE	ESE	ESE	SE	SE	ESE	ESE	E	ENE	ENE	ENE	E	E	ENE	NE	E	WSW	SW	SW	SW			110(ESE)
Nov 12	16.7	17.4	14.3	14.7	13.5	10.1	11.4	6.7	6.0	2.9	3.9	3.2	4.8	5.0	4.8	2.2	2.1	3.1	3.1	0.6	1.2	1.3	1.6	3.7	0.6	17.4	6.4
	SW	SW	SW	SW	WSW	W	NW	NW	WSW	WSW	SW	WSW	SW	WSW	SW	SW	SW	SW	SSW	SSE	S	SSW	E	ENE			245(WSW)
Nov 13	3.1	10.2	7.4	5.4	5.7	6.1	6.3	11.8	5.8	8.7	11.8	10.9	16.7	19.6	16.3	19.9	20.9	20.0	20.5	18.7	15.3	14.1	15.6	14.1	3.1	20.9	12.7
	E	ENE	ENE	E	E	ENE	NE	NE	ENE	NE	NNE	NE	NE	ENE	NE	ENE	NE	ENE	ENE	ENE	ENE	NE	NE	NE			57(ENE)
Nov 14	14.2	12.3	12.7	10.6	10.4	11.1	11.0	8.0	7.4	8.5	6.6	7.6	4.1	2.4	1.2	2.7	3.7	2.2	2.3	1.5	1.7	0.6	**0.3**	0.9	**0.3**	14.2	6.0
	ENE	ENE	NE	NE	NE	ENE	ENE	ENE	E	E	E	E	E	E	E	NNE	N	NW	ESE	W	W	WNW	S	NNW			65(ENE)
Nov 15	3.5	8.9	11.6	9.2	4.3	8.4	12.6	15.2	12.5	12.4	10.0	9.5	10.9	12.5	11.5	13.1	10.5	9.4	13.4	14.8	16.1	16.4	15.7	15.8	3.5	16.4	11.6
	ESE	SE	SE	SSE	SE	SSE	S	SSW	SSW	SSW	SSW	SW	SW	SSW	SW	SSW	SSW	SSW	S	S	S	S	S	S			190(S)
Nov 16	16.0	17.2	19.3	19.9	20.8	22.4	25.1	26.2	24.5	28.3	25.8	28.6	21.0	21.9	20.9	20.2	25.1	20.3	18.8	16.8	17.0	16.0	16.2	16.5	16.0	28.6	21.0
	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	S	S	S			187(S)
Nov 17	18.7	17.6	15.5	13.2	14.6	15.6	6.7	12.1	17.3	16.7	18.2	18.7	17.1	20.2	16.2	18.1	16.7	14.8	10.9	10.4	10.8	13.0	9.9	8.3	6.7	20.2	14.6
	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW			285(WNW)
Nov 18	8.1	8.6	8.1	7.5	9.2	10.6	8.2	11.1	10.5	11.0	7.9	9.0	9.3	10.9	8.7	7.2	9.4	6.5	6.9	9.7	9.8	9.4	7.7	12.2	6.5	12.2	9.1
	N	N	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NE	NE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	N			11(NNE)
Nov 19	12.0	13.0	14.2	13.2	13.4	15.1	14.9	15.2	14.9	17.3	17.9	16.7	17.9	17.7	17.9	17.0	15.6	16.4	12.2	15.3	14.9	13.5	14.2	13.0	12.0	17.9	15.1
	NNE	NNE	NNE	NNE	N	N	N	NNE	N	N	N	N	NNE	NNE	N	N	N	N	NNE	N	NNE	NNE	NNE	NNE			12(NNE)
Nov 20	12.1	9.8	9.3	12.7	16.2	21.4	19.6	17.2	19.8	19.7	17.6	19.7	15.4	17.4	19.1	19.1	17.2	17.7	16.4	15.1	17.2	14.8	11.2	8.6	8.6	21.4	16.0
	N	N	N	ENE	ENE	ENE	ENE	ENE	E	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE			63(ENE)
Nov 21	9.8	11.2	10.4	8.5	8.6	7.6	6.7	6.7	8.7	10.2	8.5	6.5	7.0	8.0	9.0	8.2	8.5	6.2	5.6	5.2	4.7	3.0	3.4	2.8	2.8	11.2	7.3
	NNE	NNE	NE	NE	NE	NNE	NNE	N	NNE	NE	NNE	N	N	N	N	N	N	N	NNW	WNW	NNW	NW	NW	NW			9(N)
Nov 22	3.0	2.0	2.2	3.0	3.6	1.6	3.4	2.3	4.4	3.3	1.0	0.6	0.7	6.2	3.0	6.7	9.9	6.6	10.9	10.5	12.6	11.0	12.3	10.0	0.6	12.6	5.5
	WNW	WNW	WSW	W	WSW	SW	SW	WSW	SW	SW	WNW	SW	ENE	NNE	NNE	N	NNE	NE	NE	NNE	NE	NNE	NNE	NNE			19(NNE)
Nov 23	12.2	13.7	11.3	13.9	14.9	11.9	11.4	15.2	15.8	14.7	13.2	13.8	14.0	16.0	14.5	12.7	14.3	14.3	12.9	13.4	9.7	10.0	8.9	8.0	8.0	16.0	12.9
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	N	NNW	NNW			5(N)
Nov 24	4.5	2.9	2.4	2.1	2.3	2.4	2.7	2.5	3.1	3.5	1.2	1.3	2.6	2.2	2.3	2.7	3.3	5.7	4.9	8.2	10.1	7.2	5.3	4.8	1.2	10.1	3.8
	NNW	NNW	NNW	NW	NW	WNW	WNW	WNW	NNW	NW	WNW	NW	SSW	WSW	WNW	WNW	SW	SSW	S	SSE	SSE	S	SSE	SE			221(SW)
Nov 25	2.9	4.2	5.3	7.2	6.4	7.9	5.8	4.8	5.9	4.8	5.9	12.1	13.0	16.4	14.6	9.3	7.2	6.8	9.8	13.7	11.6	8.4	9.4	11.5	2.9	16.4	8.5
	SE	SE	SE	SSE	SSE	SSE	SE	ESE	SE	SE	SE	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SSE	S	S	S			164(SSE)
Nov 26	13.0	15.0	13.5	11.4	9.3	10.3	13.5	11.2	8.0	12.2	8.4	5.5	3.8	4.2	5.5	5.0	12.1	12.7	13.0	7.0	10.6	8.7	8.9	7.4	3.8	15.0	9.6
	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	W	WSW	SW	WNW	NNW	NW	NW	WNW	WNW	WNW	WNW	WNW			245(WSW)
Nov 27	9.1	8.9	10.5	10.4	8.5	6.8	9.0	8.2	9.2	7.9	9.8	11.6	10.3	9.4	7.3	7.2	4.7	3.2	2.5	4.6	8.5	7.8	7.9	8.5	2.5	11.6	8.0
	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	N	NW	NNW	N	NNE	NNE	NNE	NNE	NNE			338(NNW)
Nov 28	5.8	5.9	9.5	9.9	7.7	7.9	7.7	5.9	7.6	7.2	11.9	12.9	12.4	15.4	16.3	16.4	15.1	19.3	12.4	13.4	14.1	12.6	12.6	16.7	5.8	19.3	11.5
	N	N	NNE	NNE	NNE	NNE	NNE	NNE	ENE	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE			66(ENE)
Nov 29	14.3	15.4	15.1	16.3	14.8	14.2	15.5	14.8	14.0	19.2	19.7	19.7	20.8	20.8	19.3	16.3	13.9	14.9	14.1	11.9	11.4	10.4	7.8	8.3	7.8	20.8	15.1
	ENE	ENE	E	E	E	E	E	E	ENE	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE			80(E)
Nov 30	4.8	4.3	3.9	2.7	1.4	3.0	1.3	1.4	0.7	**0.3**	**0.3**	2.7	6.1	6.4	6.7	6.8	4.7	3.0	3.7	2.7	1.7	3.6	2.2	2.8	**0.3**	6.8	**3.2**
	NE	NNE	N	N	NNE	N	NNE	NNE	SSW	NW	W	NNW	NNW	NNW	NW	NNW	NNW	WNW	W	W	SW	SSE	SE	SE			338(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.

842-B STATION

Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

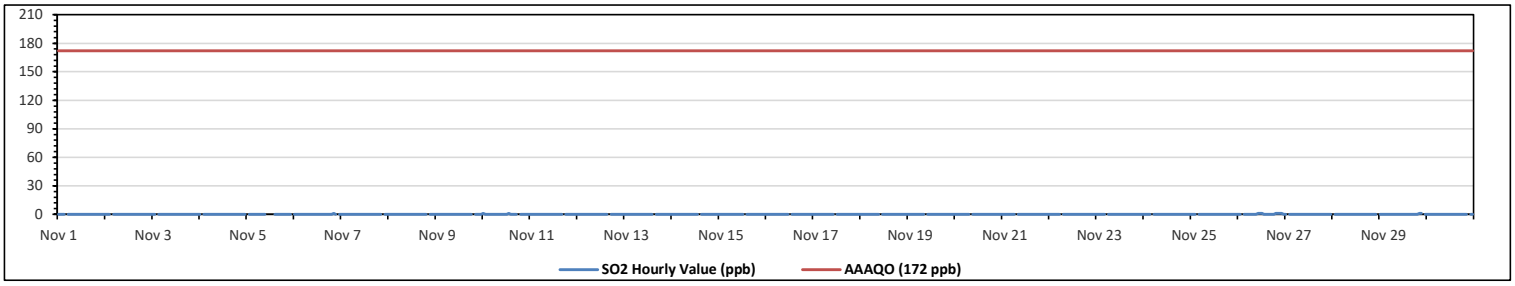
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

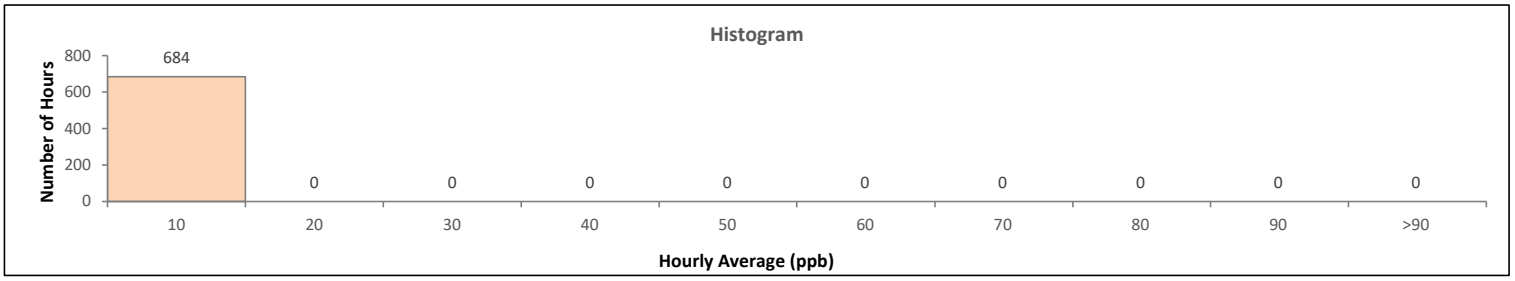
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0		
Maximum Hourly Value:	1	ppb	on Nov 6 at hr 20	Hours in Service:	720		
Maximum Daily Value:	0.3	ppb	on Nov 26	Hours of Data:	684		
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	0		
Minimum Daily Value:	0.0	ppb	on Nov 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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	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
Nov 5	S	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	S	0	0	0.0
Nov 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	S	0	0	1	0.0
Nov 7	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
Nov 8	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
Nov 9	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
Nov 10	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	1	0.1
Nov 11	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
Nov 12	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
Nov 13	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
Nov 14	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
Nov 15	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
Nov 16	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
Nov 17	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
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	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
Nov 23	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
Nov 24	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
Nov 25	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
Nov 26	0	0	S	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	0.3
Nov 27	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
Nov 28	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
Nov 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	S	0	0	1	0.1
Nov 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0.0
Diurnal Maximum	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	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	0.1	0.1	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.



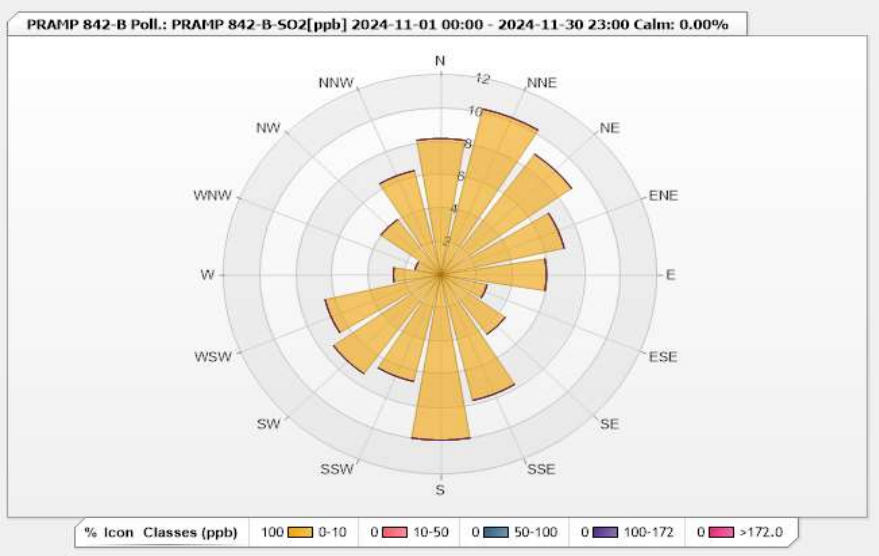


Station: PRAMP 842-B Poll.: PRAMP 842-B-SO2[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	8.19	0	0	0	0	8.19
NNE	10.23	0	0	0	0	10.23
NE	8.92	0	0	0	0	8.92
ENE	7.02	0	0	0	0	7.02
E	5.85	0	0	0	0	5.85
ESE	2.63	0	0	0	0	2.63
SE	4.39	0	0	0	0	4.39
SSE	7.75	0	0	0	0	7.75
S	9.94	0	0	0	0	9.94
SSW	6.58	0	0	0	0	6.58
SW	7.31	0	0	0	0	7.31
WSW	6.58	0	0	0	0	6.58
W	2.63	0	0	0	0	2.63
WNW	1.46	0	0	0	0	1.46
NW	4.09	0	0	0	0	4.09
NNW	6.43	0	0	0	0	6.43
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

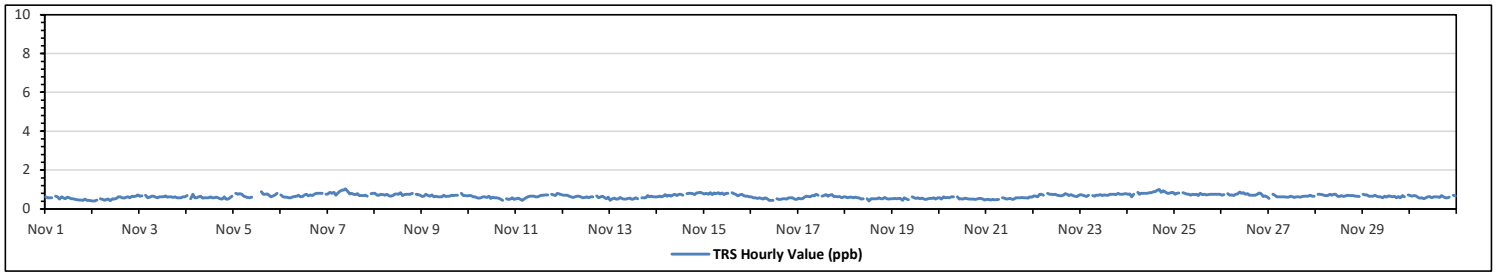
TOTAL REDUCED SULPHUR (TRS) in ppb

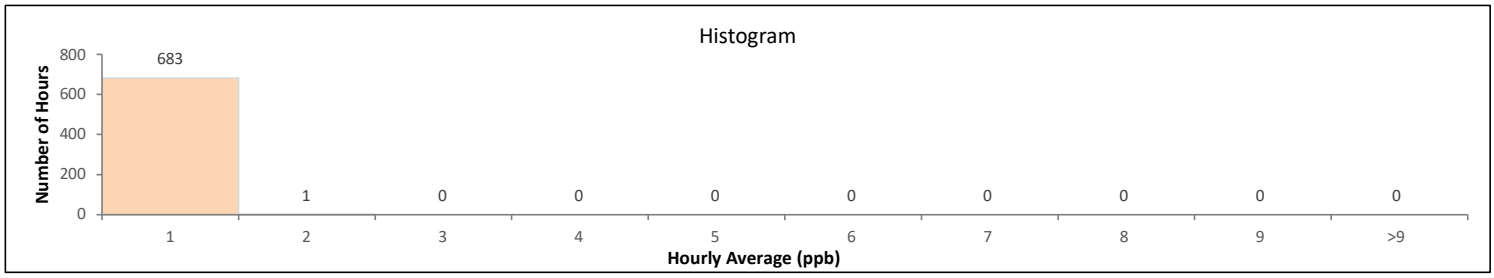
Maximum Hourly Value:	1.03	ppb	on Nov 7 at hr 9	Hours in Service:	720	
Maximum Daily Value:	0.83	ppb	on Nov 24	Hours of Data:	684	
Minimum Hourly Value:	0.41	ppb	on Nov 2 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.53	ppb	on Nov 16	Hours of Calibration:	36	
Monthly Average:	0.65	ppb		Operational 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			
Nov 1	0.63	0.56	0.58	0.57	S	0.65	0.61	0.51	0.61	0.58	0.52	0.6	0.56	0.53	0.53	0.49	0.47	0.46	0.46	0.45	0.5	0.43	0.43	0.42	0.42	0.65	0.53
Nov 2	0.41	0.41	0.46	S	0.52	0.48	0.45	0.48	0.51	0.42	0.52	0.51	0.54	0.61	0.61	0.57	0.55	0.6	0.62	0.58	0.66	0.64	0.66	0.72	0.41	0.72	0.54
Nov 3	0.66	0.67	S	0.71	0.57	0.6	0.65	0.66	0.6	0.57	0.63	0.62	0.63	0.67	0.6	0.61	0.62	0.59	0.63	0.56	0.58	0.57	0.62	0.63	0.56	0.71	0.62
Nov 4	0.68	S	0.53	0.76	0.57	0.58	0.61	0.65	0.55	0.58	0.56	0.58	0.63	0.58	0.58	0.6	0.58	0.52	0.51	0.62	0.5	0.51	0.57	0.65	0.50	0.76	0.59
Nov 5	S	0.79	0.74	0.78	0.75	0.66	0.62	0.59	0.57	0.6	C	C	C	C	0.88	0.76	0.74	0.77	0.71	0.61	0.67	0.72	0.81	S	0.57	0.88	0.71
Nov 6	0.72	0.62	0.6	0.6	0.57	0.58	0.61	0.64	0.66	0.71	0.62	0.64	0.72	0.74	0.67	0.72	0.69	0.75	0.79	0.8	0.8	0.79	S	0.75	0.57	0.80	0.69
Nov 7	0.77	0.86	0.8	0.86	0.71	0.82	0.9	0.98	0.96	**1.03**	0.9	0.77	0.79	0.76	0.73	0.78	0.68	0.69	0.68	0.71	0.65	S	0.78	0.79	0.65	**1.03**	0.80
Nov 8	0.79	0.71	0.71	0.76	0.73	0.7	0.75	0.69	0.66	0.69	0.76	0.77	0.74	0.84	0.69	0.73	0.76	0.74	0.75	0.79	S	0.75	0.73	0.7	0.66	0.84	0.74
Nov 9	0.64	0.66	0.74	0.68	0.66	0.72	0.63	0.66	0.63	0.62	0.62	0.7	0.64	0.66	0.65	0.7	0.69	0.7	0.71	S	0.79	0.68	0.69	0.67	0.62	0.79	0.68
Nov 10	0.69	0.68	0.63	0.61	0.57	0.55	0.58	0.61	0.62	0.59	0.66	0.54	0.6	0.57	0.57	0.55	0.51	0.45	S	0.52	0.49	0.5	0.58	0.48	0.45	0.69	0.57
Nov 11	0.53	0.55	0.5	0.44	0.51	0.57	0.62	0.65	0.66	0.65	0.63	0.61	0.67	0.71	0.7	0.72	0.72	S	0.75	0.72	0.68	0.8	0.77	0.73	0.44	0.80	0.65
Nov 12	0.71	0.7	0.71	0.66	0.62	0.59	0.61	0.66	0.66	0.61	0.58	0.59	0.61	0.56	0.61	0.61	S	0.67	0.58	0.63	0.66	0.59	0.52	0.6	0.52	0.71	0.62
Nov 13	0.45	0.52	0.55	0.51	0.51	0.59	0.53	0.5	0.5	0.54	0.55	0.48	0.52	0.57	0.53	S	0.57	0.58	0.57	0.69	0.62	0.65	0.62	0.61	0.45	0.69	0.55
Nov 14	0.63	0.66	0.61	0.65	0.73	0.66	0.7	0.65	0.72	0.74	0.68	0.76	0.76	0.7	S	0.78	0.79	0.79	0.78	0.73	0.82	0.84	0.85	0.79	0.61	0.85	0.73
Nov 15	0.77	0.81	0.76	0.83	0.73	0.82	0.78	0.83	0.77	0.82	0.73	0.8	0.79	S	0.83	0.78	0.75	0.67	0.72	0.76	0.69	0.66	0.65	0.61	0.61	0.83	0.75
Nov 16	0.63	0.57	0.58	0.54	0.58	0.54	0.51	0.56	0.52	0.45	0.44	0.45	S	0.52	0.48	0.49	0.52	0.53	0.5	0.57	0.57	0.58	0.51	0.49	0.44	0.63	0.53
Nov 17	0.55	0.53	0.53	0.6	0.65	0.64	0.62	0.69	0.67	0.74	0.71	S	0.66	0.69	0.73	0.66	0.7	0.73	0.64	0.64	0.62	0.64	0.58	0.61	0.53	0.74	0.64
Nov 18	0.63	0.58	0.6	0.6	0.57	0.6	0.58	0.57	0.5	0.53	S	0.53	0.41	0.53	0.53	0.53	0.53	0.58	0.53	0.52	0.59	0.52	0.5	0.53	0.41	0.63	0.55
Nov 19	0.52	0.54	0.52	0.54	0.54	0.45	0.56	0.53	0.47	S	0.61	0.58	0.54	0.57	0.53	0.55	0.51	0.48	0.52	0.54	0.54	0.56	0.5	0.57	0.45	0.61	0.53
Nov 20	0.57	0.5	0.63	0.58	0.59	0.57	0.62	0.62	S	0.61	0.51	0.52	0.51	0.55	0.52	0.5	0.5	0.5	0.49	0.5	0.54	0.54	0.5	0.46	0.46	0.63	0.54
Nov 21	0.48	0.48	0.46	0.48	0.47	0.47	0.49	S	0.58	0.55	0.5	0.52	0.54	0.48	0.51	0.56	0.56	0.58	0.59	0.58	0.56	0.55	0.61	0.6	0.46	0.61	0.53
Nov 22	0.67	0.65	0.63	0.75	0.75	0.71	S	0.79	0.74	0.76	0.73	0.76	0.7	0.68	0.67	0.7	0.78	0.74	0.69	0.73	0.68	0.66	0.64	0.7	0.63	0.79	0.71
Nov 23	0.73	0.71	0.67	0.64	0.71	S	0.69	0.66	0.7	0.7	0.73	0.69	0.72	0.71	0.71	0.74	0.74	0.76	0.73	0.8	0.76	0.74	0.77	0.78	0.64	0.80	0.72
Nov 24	0.75	0.77	0.62	0.75	S	0.86	0.76	0.79	0.79	0.8	0.81	0.83	0.83	0.88	0.89	0.97	1	0.86	0.93	0.89	0.8	0.81	0.84	0.85	0.62	1.00	**0.83**
Nov 25	0.74	0.81	0.82	S	0.84	0.81	0.77	0.74	0.71	0.74	0.73	0.76	0.68	0.8	0.73	0.75	0.72	0.73	0.74	0.76	0.74	0.74	0.75	0.76	0.68	0.84	0.76
Nov 26	0.71	0.73	S	0.78	0.71	0.72	0.69	0.76	0.77	0.87	0.81	0.84	0.76	0.78	0.7	0.7	0.71	0.7	0.75	0.82	0.78	0.64	0.67	0.63	0.63	0.87	0.74
Nov 27	0.54	S	0.75	0.71	0.61	0.62	0.62	0.62	0.61	0.6	0.6	0.66	0.63	0.59	0.61	0.62	0.6	0.64	0.65	0.66	0.66	0.71	0.65	0.66	0.54	0.75	0.64
Nov 28	S	0.75	0.76	0.73	0.7	0.68	0.68	0.76	0.71	0.76	0.75	0.65	0.64	0.69	0.64	0.67	0.71	0.68	0.68	0.69	0.66	0.65	0.64	S	0.64	0.76	0.69
Nov 29	0.74	0.72	0.72	0.65	0.66	0.65	0.71	0.66	0.61	0.62	0.58	0.66	0.6	0.67	0.66	0.63	0.66	0.58	0.64	0.56	0.68	0.63	S	0.72	0.56	0.74	0.65
Nov 30	0.68	0.65	0.68	0.67	0.59	0.55	0.56	0.52	0.58	0.63	0.64	0.57	0.63	0.62	0.62	0.59	0.68	0.61	0.57	0.58	0.6	S	0.7	0.67	0.52	0.70	0.62
Diurnal Maximum	0.79	0.86	0.82	0.86	0.84	0.86	0.90	0.98	0.96	1.03	0.90	0.84	0.83	0.88	0.89	0.97	1.00	0.86	0.93	0.89	0.82	0.84	0.85	0.85			
Diurnal Average	0.64	0.65	0.64	0.66	0.63	0.64	0.64	0.66	0.64	0.66	0.65	0.64	0.64	0.65	0.65	0.66	0.66	0.64	0.65	0.66	0.65	0.65	0.65	0.65			

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 - November 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

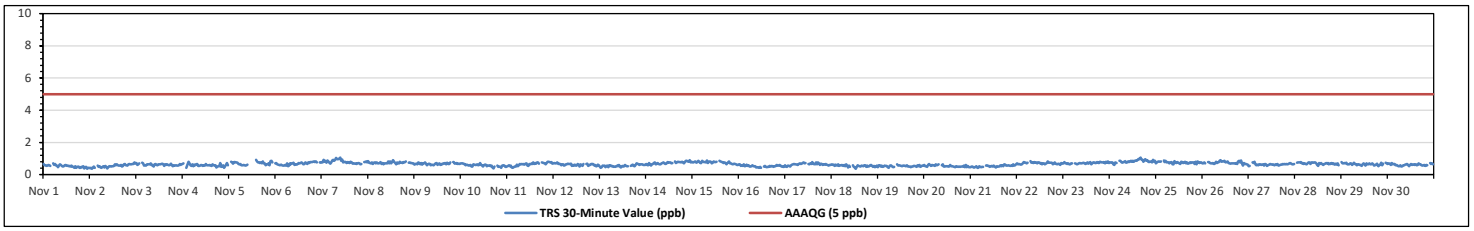
Maximum 30-Minute Value:	1.07	ppb	on Nov 7 at 09:30	# of Instrument in Service	1440
Maximum Daily Value:	0.83	ppb	on Nov 24	# of Valid Measurements	1368
Minimum 30-Minute Value:	0.36	ppb	Nov 2 at 01:00	# of Missing Measurements:	0
Minimum Daily Value:	0.53	ppb	on Nov 16	# of Calibration:	72
Monthly Average:	0.65	ppb		Operational Uptime:	100.0

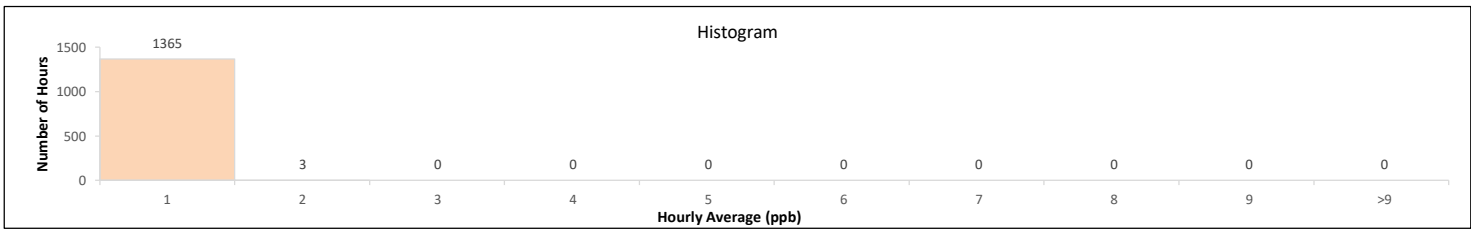
30-Minute Period Starting at (MST)	Nov 1	Nov 2	Nov 3	Nov 4	Nov 5	Nov 6	Nov 7	Nov 8	Nov 9	Nov 10	Nov 11	Nov 12	Nov 13	Nov 14	Nov 15	Nov 16	Nov 17	Nov 18	Nov 19	Nov 20	Nov 21	Nov 22	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Diurnal Maximum	Diurnal Average
00:00	0.67	0.4	0.72	0.66	S	0.71	0.78	0.84	0.62	0.69	0.53	0.69	0.5	0.66	0.77	0.64	0.59	0.65	0.46	0.6	0.46	0.71	0.69	0.74	0.71	0.71	0.53	S	0.79	0.66	0.84	0.65
00:30	0.59	0.41	0.6	0.69	S	0.73	0.75	0.74	0.66	0.69	0.54	0.73	0.41	0.61	0.77	0.63	0.5	0.6	0.58	0.53	0.5	0.63	0.78	0.76	0.77	0.71	0.55	S	0.69	0.69	0.78	0.64
01:00	0.58	0.36	0.64	S	0.81	0.63	0.93	0.72	0.68	0.69	0.58	0.69	0.47	0.59	0.81	0.54	0.48	0.62	0.58	0.53	0.51	0.66	0.71	0.77	0.8	0.75	S	0.74	0.7	0.68	0.93	0.65
01:30	0.54	0.45	0.7	S	0.76	0.62	0.8	0.7	0.64	0.67	0.52	0.71	0.57	0.73	0.82	0.59	0.57	0.55	0.51	0.48	0.45	0.63	0.71	0.77	0.83	0.71	S	0.76	0.73	0.61	0.83	0.65
02:00	0.57	0.5	S	0.43	0.68	0.61	0.86	0.76	0.76	0.67	0.56	0.75	0.55	0.65	0.74	0.54	0.55	0.62	0.56	0.6	0.44	0.62	0.66	0.63	0.81	S	0.77	0.75	0.7	0.73	0.86	0.65
02:30	0.6	0.43	S	0.65	0.79	0.59	0.74	0.66	0.73	0.58	0.44	0.67	0.56	0.56	0.79	0.63	0.51	0.58	0.48	0.67	0.48	0.64	0.69	0.61	0.83	S	0.73	0.77	0.74	0.64	0.83	0.64
03:00	0.59	S	0.74	0.81	0.79	0.62	0.88	0.74	0.63	0.62	0.41	0.68	0.47	0.65	0.86	0.52	0.58	0.57	0.5	0.61	0.53	0.71	0.63	0.77	S	0.78	0.8	0.78	0.64	0.67	0.88	0.66
03:30	0.55	S	0.69	0.7	0.77	0.58	0.83	0.77	0.73	0.6	0.47	0.64	0.55	0.66	0.81	0.55	0.62	0.63	0.57	0.55	0.43	0.79	0.65	0.72	S	0.79	0.63	0.69	0.65	0.67	0.83	0.65
04:00	S	0.56	0.57	0.59	0.75	0.57	0.74	0.7	0.62	0.56	0.51	0.59	0.56	0.72	0.73	0.62	0.65	0.55	0.54	0.6	0.41	0.76	0.7	S	0.89	0.72	0.59	0.72	0.63	0.58	0.89	0.63
04:30	S	0.48	0.58	0.55	0.74	0.56	0.68	0.75	0.7	0.58	0.5	0.65	0.47	0.75	0.73	0.55	0.66	0.59	0.54	0.58	0.52	0.74	0.71	S	0.78	0.7	0.62	0.67	0.69	0.6	0.78	0.63
05:00	0.71	0.52	0.57	0.65	0.67	0.61	0.76	0.71	0.7	0.61	0.62	0.63	0.59	0.65	0.85	0.59	0.63	0.59	0.46	0.59	0.48	0.69	S	0.87	0.86	0.71	0.59	0.7	0.7	0.56	0.87	0.65
05:30	0.6	0.44	0.63	0.52	0.64	0.56	0.89	0.69	0.75	0.5	0.53	0.56	0.59	0.67	0.8	0.5	0.64	0.61	0.43	0.55	0.46	0.74	S	0.85	0.75	0.73	0.65	0.66	0.61	0.53	0.89	0.62
06:00	0.66	0.43	0.65	0.62	0.67	0.7	0.93	0.72	0.68	0.51	0.58	0.59	0.52	0.72	0.78	0.51	0.62	0.55	0.54	0.65	0.48	S	0.69	0.78	0.78	0.67	0.63	0.65	0.67	0.53	0.93	0.64
06:30	0.57	0.48	0.64	0.59	0.58	0.52	0.86	0.78	0.58	0.64	0.66	0.63	0.54	0.67	0.79	0.52	0.61	0.6	0.58	0.59	0.49	S	0.68	0.74	0.77	0.71	0.61	0.71	0.74	0.58	0.86	0.64
07:00	0.57	0.53	0.64	0.64	0.58	0.57	0.92	0.66	0.65	0.62	0.63	0.63	0.49	0.64	0.77	0.59	0.67	0.52	0.56	0.61	S	0.84	0.65	0.79	0.71	0.8	0.62	0.75	0.66	0.51	0.92	0.65
07:30	0.46	0.44	0.69	0.67	0.61	0.7	1.04	0.73	0.68	0.61	0.67	0.68	0.51	0.65	0.88	0.53	0.71	0.63	0.51	0.63	S	0.74	0.67	0.79	0.76	0.72	0.63	0.76	0.65	0.52	1.04	0.66
08:00	0.56	0.55	0.59	0.55	0.58	0.63	0.96	0.63	0.67	0.6	0.65	0.66	0.48	0.71	0.73	0.52	0.66	0.56	0.46	S	0.56	0.77	0.69	0.84	0.78	0.75	0.57	0.67	0.58	0.58	0.96	0.64
08:30	0.65	0.48	0.61	0.55	0.57	0.69	0.96	0.69	0.59	0.64	0.66	0.66	0.52	0.73	0.81	0.52	0.68	0.44	0.49	S	0.59	0.72	0.72	0.74	0.65	0.78	0.66	0.75	0.64	0.58	0.96	0.65
09:00	0.61	0.39	0.51	0.56	0.58	0.69	0.99	0.69	0.62	0.58	0.62	0.68	0.57	0.77	0.83	0.44	0.72	0.56	S	0.59	0.55	0.78	0.69	0.77	0.65	0.85	0.65	0.77	0.63	0.62	0.99	0.65
09:30	0.55	0.46	0.63	0.61	0.62	0.74	1.07	0.7	0.61	0.61	0.68	0.55	0.52	0.7	0.8	0.46	0.76	0.49	S	0.63	0.54	0.74	0.7	0.82	0.84	0.9	0.55	0.74	0.61	0.64	1.07	0.66
10:00	0.51	0.52	0.66	0.58	C	0.61	0.85	0.7	0.58	0.72	0.7	0.6	0.6	0.67	0.71	0.45	0.71	S	0.64	0.5	0.48	0.77	0.72	0.78	0.74	0.8	0.59	0.76	0.61	0.67	0.85	0.65
10:30	0.52	0.52	0.6	0.54	C	0.63	0.94	0.82	0.65	0.61	0.57	0.56	0.5	0.68	0.74	0.43	0.72	S	0.57	0.51	0.52	0.69	0.74	0.83	0.73	0.82	0.62	0.75	0.55	0.61	0.94	0.64
11:00	0.59	0.5	0.59	0.59	C	0.62	0.76	0.71	0.69	0.58	0.55	0.62	0.44	0.78	0.82	0.49	S	0.58	0.59	0.53	0.54	0.76	0.7	0.85	0.79	0.83	0.66	0.69	0.63	0.53	0.85	0.64
11:30	0.61	0.53	0.64	0.56	C	0.67	0.78	0.83	0.72	0.51	0.66	0.56	0.53	0.74	0.78	0.41	S	0.49	0.57	0.52	0.5	0.76	0.67	0.81	0.74	0.85	0.65	0.6	0.69	0.6	0.85	0.64
12:00	0.55	0.53	0.63	0.67	C	0.72	0.8	0.7	0.61	0.59	0.65	0.56	0.54	0.76	0.78	S	0.67	0.45	0.55	0.52	0.56	0.69	0.69	0.86	0.7	0.75	0.62	0.55	0.63	0.66	0.86	0.64
12:30	0.57	0.55	0.63	0.59	C	0.71	0.79	0.79	0.67	0.62	0.68	0.67	0.5	0.76	0.81	S	0.65	0.37	0.53	0.5	0.51	0.72	0.75	0.81	0.67	0.78	0.64	0.73	0.57	0.6	0.81	0.65
13:00	0.52	0.64	0.66	0.58	C	0.72	0.72	0.9	0.7	0.62	0.66	0.62	0.61	0.69	S	0.5	0.71	0.48	0.57	0.5	0.44	0.65	0.68	0.87	0.8	0.83	0.61	0.66	0.71	0.62	0.90	0.65
13:30	0.55	0.59	0.68	0.58	C	0.77	0.79	0.79	0.61	0.52	0.76	0.5	0.54	0.72	S	0.54	0.67	0.58	0.56	0.61	0.53	0.7	0.74	0.89	0.79	0.72	0.58	0.72	0.63	0.63	0.89	0.65
14:00	0.51	0.63	0.64	0.6	0.93	0.7	0.75	0.72	0.66	0.56	0.67	0.63	0.53	S	0.85	0.49	0.79	0.54	0.54	0.52	0.5	0.7	0.78	0.85	0.72	0.71	0.63	0.67	0.63	0.6	0.93	0.66
14:30	0.56	0.59	0.55	0.56	0.83	0.64	0.72	0.65	0.63	0.57	0.73	0.6	0.52	S	0.82	0.46	0.66	0.52	0.52	0.52	0.51	0.63	0.63	0.93	0.74	0.68	0.6	0.6	0.69	0.63	0.93	0.63
15:00	0.5	0.57	0.63	0.55	0.77	0.67	0.81	0.75	0.71	0.58	0.68	0.55	S	0.83	0.8	0.48	0.67	0.5	0.59	0.51	0.53	0.68	0.71	0.97	0.81	0.69	0.67	0.66	0.63	0.58	0.97	0.66
15:30	0.49	0.56	0.6	0.65	0.75	0.77	0.75	0.71	0.69	0.53	0.76	0.66	S	0.73	0.75	0.49	0.65	0.57	0.51	0.49	0.59	0.72	0.77	0.96	0.7	0.7	0.57	0.68	0.64	0.6	0.96	0.66
16:00	0.41	0.6	0.63	0.58	0.73	0.72	0.68	0.71	0.73	0.57	0.77	S	0.55	0.77	0.72	0.54	0.77	0.54	0.5	0.47	0.53	0.82	0.76	1.06	0.76	0.71	0.59	0.73	0.69	0.71	1.06	0.67
16:30	0.52	0.51	0.61	0.58	0.75	0.67	0.69	0.81	0.65	0.45	0.68	S	0.59	0.81	0.77	0.5	0.64	0.53	0.51	0.53	0.58	0.74	0.72	0.94	0.68	0.7	0.62	0.69	0.63	0.64	0.94	0.65
17:00	0.43	0.55	0.58	0.58	0.71	0.77	0.68	0.74	0.74	0.39	S	0.66	0.62	0.79	0.72	0.54	0.76	0.59	0.46	0.51	0.52	0.74	0.73	0.93	0.71	0.68	0.62	0.72	0.56	0.65	0.93	0.64
17:30	0.49	0.64	0.61	0.45	0.83	0.73	0.7	0.74	0.67	0.51	S	0.68	0.54	0.79	0.63	0.52	0.7	0.58	0.5	0.49	0.64	0.74	0.78	0.8	0.75	0.72	0.67	0.64	0.6	0.58	0.83	0.65
18:00	0.51	0.66	0.68	0.5	0.71	0.79	0.67	0.72	0.66	S	0.77	0.55	0.53	0.75	0.69	0.48	0.61	0.49	0.5	0.5	0.62	0.74	0.74	0.91	0.73	0.67	0.64	0.68	0.6	0.56	0.91	0.64
18:30	0.41	0.58	0.59	0.53	0.7	0.79	0.69	0.78	0.77	S	0.74	0.61	0.61	0.8	0.76	0.52	0.68	0.57	0.54	0.48	0.56	0.64	0.73	0.96	0.75	0.83	0.66	0.67	0.68	0.58	0.96	0.66
19:00	0.43	0.58	0.53	0.53	0.58	0.79	0.73	0.76	S	0.56	0.73	0.6	0.71	0.77	0.83	0.53	0.67	0.5	0.55	0.5	0.56	0.7	0.81	0.87	0.77	0.87	0.65	0.72	0.53	0.61	0.87	0.65
19:30	0.48	0.57	0.59	0.72	0.64	0.81	0.69	0.83	S	0.48	0.71	0.66	0.68	0.7	0.69	0.61	0.61	0.53	0.53	0.5	0.59	0.76	0.79	0.9	0.75	0.77	0.66	0.66	0.59	0.54	0.90	0.66
20:00	0.47	0.65	0.56	0.48	0.65	0.82	0.64	S	0.79	0.5	0.65	0.67	0.64	0.79	0.7	0.57	0.63	0.58	0.49	0.5	0.57	0.68	0.76	0.81	0.67	0.88	0.65	0.71	0.62	0.61	0.88	0.65
20:30	0.52	0.66	0.59	0.51	0.69	0.79	0.66	S	0.78	0.49	0.72	0.66	0.61	0.85	0.67	0.57	0.62	0.6	0.58	0.57	0.55	0.67	0.77	0.79	0.81	0.69	0.67	0.62	0.74	0.59	0.85	0.66
21:00	0.39	0.64	0.57	0.58	0.59	0.82	S	0.74	0.68	0.43	0.8	0.59	0.65	0.85	0.64	0.6	0.66	0.55	0.52	0.47	0.56	0.65	0.78	0.83	0.65	0.56	0.69	0.68	0.59	S	0.85	0.63
21:30	0.47	0.64	0.57	0.43	0.84	0.75	S	0.77	0.69	0.57	0.8	0.6	0.65	0.82	0.68	0.57	0.62	0.49	0.6	0.61	0.54	0.68	0.69	0.8	0.83	0.72	0.72	0.62	0.68	S	0.84	0.66
22:00	0.49	0.66	0.58	0.53	0.85	S	0.78	0.73	0.72	0.58	0.78	0.53	0.63	0.8	0.66	0.51	0.61	0.55	0.49	0.46	0.65	0.67	0.81	0.77	0.79	0.66	0.68	0.7	S	0.73	0.85	0.66
22:30	0.37	0.66	0.66	0.61	0.77	S	0.78	0.73	0.66	0.57	0.77	0.52	0.61	0.9	0.64	0.52	0.56	0.46	0.52	0.55	0.56	0.61	0.74	0.91	0.72	0.67	0.63	0.59	S	0.66	0.91	0.64
23:00	0.42	0.75	0.61	0.72	S	0.77	0.82	0.71	0.68	0.49	0.78	0.62	0.61	0.77	0.61	0.49	0.61	0.51	0.57	0.46	0.58	0.73	0.83	0.83	0.76	0.63	0.65	S	0.74	0.7	0.83	0.66
23:30	0.42	0.7	0.65	0.58	S	0.74	0.76	0.7	0.67	0.48	0.68	0.58	0.61	0.81	0.61	0.49	0.61	0.56	0.56	0.46	0.63	0.68	0.73	0.87	0.75	0.62	0.67	S	0.69	0.63	0.87	0.64
Minimum	0.37	0.36	0.51	0.43	0.57	0.52	0.64	0.63	0.58	0.39	0.41	0.5	0.41	0.56	0.61	0.41	0.48	0.37	0.43	0.46	0.41	0.61	0.63	0.61	0.65	0.56	0.53	0.55	0.53	0.51		
Maximum	0.71	0.75	0.74	0.81	0.93	0.82	1.07	0.9	0.79	0.72	0.8	0.75	0.71	0.9	0.88	0.64	0.79	0.65	0.64	0.67	0.65	0.84	0.83	1.06	0.89	0.9	0.8	0.78	0.79	0.73		
Average	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.5	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.8	0.8	0.7	0.6	0.7	0.7	0.6		

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.



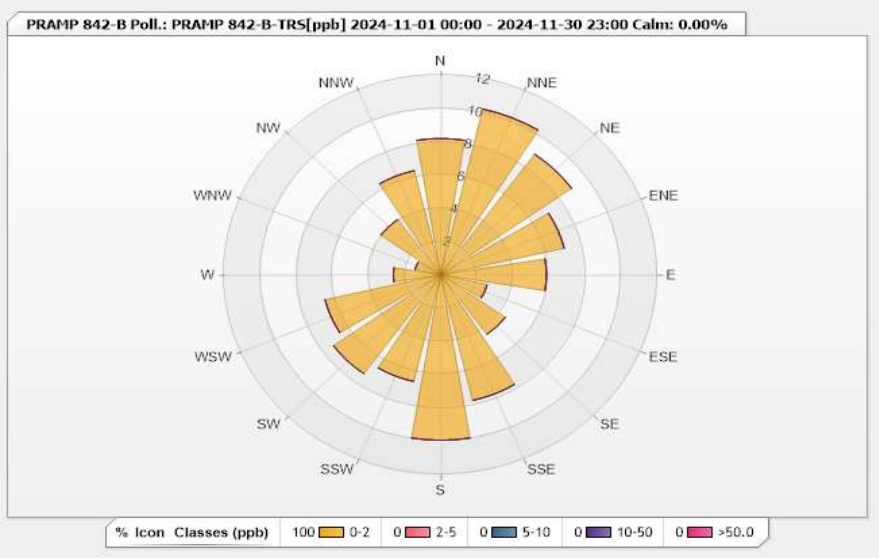


Station: PRAMP 842-B Poll.: PRAMP 842-B-TRS[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	8.19	0	0	0	0	8.19
NNE	10.23	0	0	0	0	10.23
NE	8.92	0	0	0	0	8.92
ENE	7.02	0	0	0	0	7.02
E	5.85	0	0	0	0	5.85
ESE	2.63	0	0	0	0	2.63
SE	4.39	0	0	0	0	4.39
SSE	7.75	0	0	0	0	7.75
S	9.94	0	0	0	0	9.94
SSW	6.58	0	0	0	0	6.58
SW	7.31	0	0	0	0	7.31
WSW	6.58	0	0	0	0	6.58
W	2.63	0	0	0	0	2.63
WNW	1.46	0	0	0	0	1.46
NW	4.09	0	0	0	0	4.09
NNW	6.43	0	0	0	0	6.43
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

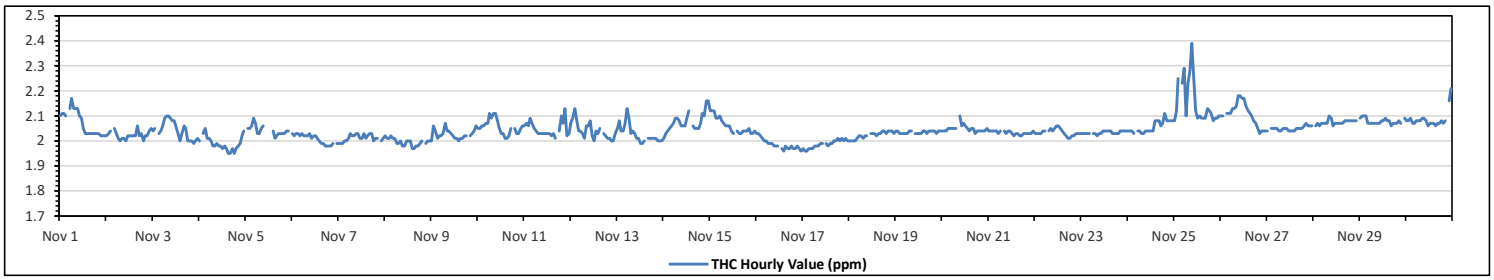
TOTAL HYDROCARBONS (THC) in ppm

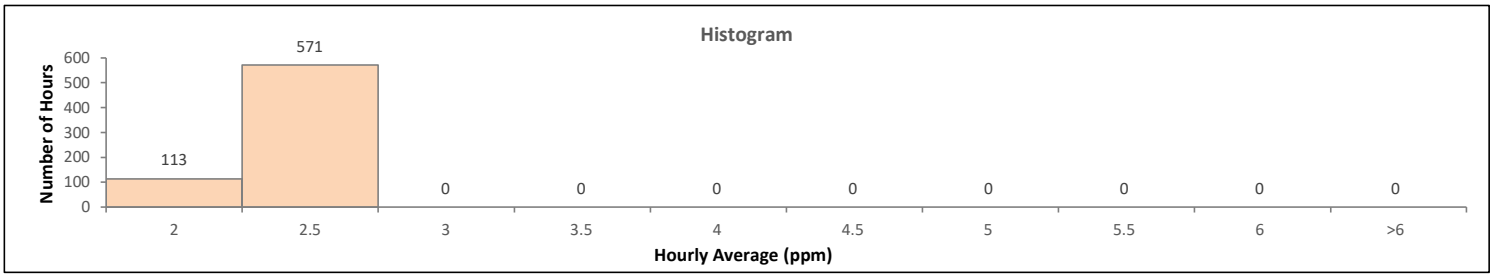
Maximum Hourly Value:	2.39	ppm	on Nov 25 at hr 9	Hours in Service:	720
Maximum Daily Value:	2.15	ppm	on Nov 25	Hours of Data:	684
Minimum Hourly Value:	1.95	ppm	on Nov 4 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1.99	ppm	on Nov 16	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational 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			
Nov 1	2.10	2.11	2.11	2.10	S	2.13	2.17	2.13	2.13	2.13	2.10	2.09	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.17	2.07
Nov 2	2.02	2.03	2.04	S	2.05	2.03	2.01	2.00	2.01	2.01	2.00	2.02	2.02	2.02	2.02	2.02	2.06	2.02	2.03	2.00	2.02	2.02	2.04	2.05	2.00	2.06	2.02
Nov 3	2.04	2.05	S	2.03	2.04	2.06	2.09	2.10	2.10	2.09	2.08	2.08	2.05	2.03	2.00	2.03	2.06	2.05	2.00	2.00	2.00	1.99	2.00	2.01	1.99	2.10	2.04
Nov 4	2.00	S	2.03	2.05	2.01	2.01	2.00	1.98	1.98	1.99	1.98	1.98	1.97	1.98	1.97	1.95	1.95	1.97	1.95	1.97	1.98	1.99	2.02	2.04	1.95	2.05	1.99
Nov 5	S	2.05	2.05	2.06	2.09	2.07	2.03	2.03	2.05	2.06	C	C	C	C	2.04	2.01	2.02	2.03	2.03	2.03	2.03	2.04	2.04	S	2.01	2.09	2.04
Nov 6	2.03	2.02	2.03	2.03	2.02	2.03	2.02	2.02	2.02	2.03	2.01	2.02	2.02	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.99	S	1.99	1.98	2.03	2.01
Nov 7	1.99	1.99	1.99	2.00	2.00	2.01	2.03	2.02	2.02	2.03	2.03	2.01	2.01	2.03	2.01	2.02	2.03	2.03	2.00	2.01	2.01	S	2.00	2.01	1.99	2.03	2.01
Nov 8	2.02	2.01	2.01	2.02	2.01	2.01	1.99	1.99	2.00	1.98	1.98	2.00	2.00	2.00	1.97	1.97	1.98	1.98	1.99	2.00	S	1.99	2.00	2.00	1.97	2.02	2.00
Nov 9	2.00	2.06	2.04	2.01	2.02	2.02	2.03	2.07	2.04	2.04	2.03	2.02	2.01	2.01	2.00	2.01	2.01	2.02	2.02	S	2.02	2.03	2.04	2.06	2.00	2.07	2.03
Nov 10	2.05	2.05	2.06	2.06	2.07	2.07	2.11	2.09	2.11	2.11	2.08	2.05	2.03	2.03	2.01	2.01	2.02	2.05	S	2.05	2.03	2.03	2.05	2.06	2.01	2.11	2.06
Nov 11	2.06	2.07	2.06	2.09	2.07	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.01	S	2.04	2.10	2.07	2.13	2.02	2.03	2.01	2.13	2.05
Nov 12	2.07	2.09	2.13	2.08	2.04	2.04	2.03	2.01	2.06	2.06	2.08	2.02	2.00	2.04	2.03	2.05	S	2.03	2.02	2.01	2.01	2.00	2.00	2.03	2.00	2.13	2.04
Nov 13	2.05	2.08	2.04	2.04	2.07	2.13	2.09	2.03	2.04	2.03	2.01	2.01	1.99	1.99	2.00	S	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	1.99	2.13	2.03
Nov 14	2.01	2.03	2.04	2.05	2.06	2.07	2.09	2.09	2.08	2.06	2.06	2.06	2.09	2.12	S	2.06	2.05	2.05	2.05	2.07	2.11	2.10	2.16	2.16	2.01	2.16	2.07
Nov 15	2.12	2.12	2.12	2.09	2.09	2.10	2.08	2.07	2.06	2.06	2.06	2.04	2.03	S	2.04	2.03	2.03	2.04	2.04	2.04	2.05	2.03	2.03	2.04	2.03	2.12	2.06
Nov 16	2.03	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.98	1.98	1.98	S	1.97	1.96	1.98	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.96	1.96	2.03	1.99
Nov 17	1.97	1.96	1.96	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.99	S	1.99	1.98	1.99	1.99	2.00	2.00	2.01	2.00	2.01	2.00	2.01	2.00	1.96	2.01	1.99
Nov 18	2.00	2.00	2.00	2.00	2.01	2.02	2.02	2.01	2.02	2.02	S	2.03	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.03	2.04	2.04	2.04	2.03	2.00	2.04	2.02
Nov 19	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.04	2.04	S	2.03	2.03	2.03	2.03	2.04	2.04	2.03	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.03	2.04	2.04
Nov 20	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	S	2.10	2.06	2.07	2.06	2.05	2.04	2.05	2.05	2.03	2.04	2.04	2.04	2.04	2.04	2.05	2.03	2.10	2.05
Nov 21	2.04	2.04	2.04	2.04	2.04	2.03	2.04	S	2.04	2.03	2.04	2.04	2.03	2.02	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.04	2.02	2.04	2.03
Nov 22	2.03	2.03	2.03	2.03	2.04	2.04	S	2.04	2.05	2.04	2.05	2.06	2.06	2.05	2.04	2.03	2.02	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.01	2.06	2.03
Nov 23	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.02	2.04	2.03
Nov 24	2.04	2.04	2.04	2.03	S	2.04	2.04	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.08	2.08	2.08	2.06	2.07	2.11	2.08	2.08	2.08	2.08	2.03	2.11	2.06
Nov 25	2.08	2.12	2.25	S	2.23	2.29	2.10	2.23	2.28	**2.39**	2.25	2.12	2.09	2.10	2.09	2.09	2.09	2.13	2.12	2.11	2.08	2.09	2.09	2.10	2.08	**2.39**	**2.15**
Nov 26	2.10	2.10	S	2.11	2.11	2.11	2.13	2.13	2.14	2.18	2.18	2.17	2.17	2.14	2.12	2.11	2.10	2.08	2.07	2.05	2.03	2.04	2.04	2.04	2.03	2.18	2.11
Nov 27	2.04	S	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.06	2.07	2.06	2.06	2.06	2.04	2.07	2.05
Nov 28	S	2.06	2.07	2.06	2.07	2.07	2.07	2.07	2.10	2.09	2.06	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.08	S	2.06	2.10	2.07
Nov 29	2.09	2.10	2.10	2.10	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.09	2.08	2.08	2.06	2.07	2.07	2.07	2.08	2.07	S	2.09	2.06	2.10	2.08
Nov 30	2.08	2.08	2.09	2.07	2.07	2.08	2.08	2.08	2.09	2.09	2.08	2.06	2.07	2.07	2.07	2.06	2.07	2.07	2.08	2.07	2.08	S	2.16	2.21	2.06	2.21	2.09
Diurnal Maximum	2.12	2.12	2.25	2.11	2.23	2.29	2.17	2.23	2.28	2.39	2.25	2.17	2.17	2.14	2.12	2.11	2.10	2.13	2.12	2.11	2.11	2.13	2.16	2.21			
Diurnal Average	2.04	2.05	2.05	2.05	2.05	2.06	2.05	2.05	2.06	2.06	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.04	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.



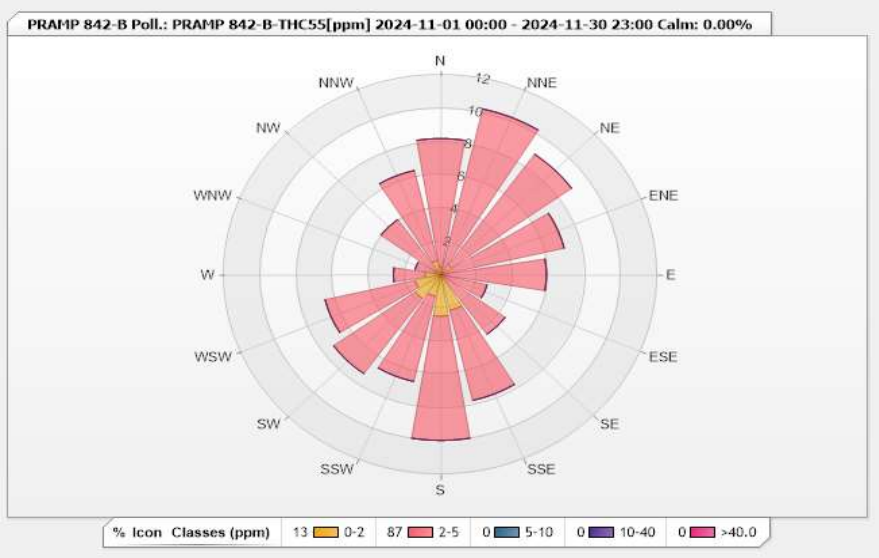


Station: PRAMP 842-B Poll.: PRAMP 842-B-THC55[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.44	7.75	0	0	0	8.19
NNE	0.15	10.09	0	0	0	10.24
NE	0.73	8.19	0	0	0	8.92
ENE	0	7.02	0	0	0	7.02
E	0	5.85	0	0	0	5.85
ESE	0	2.63	0	0	0	2.63
SE	0	4.39	0	0	0	4.39
SSE	2.19	5.56	0	0	0	7.75
S	2.49	7.46	0	0	0	9.95
SSW	1.32	5.26	0	0	0	6.58
SW	1.75	5.56	0	0	0	7.31
WSW	1.46	5.12	0	0	0	6.58
W	0.88	1.75	0	0	0	2.63
WNW	0.29	1.17	0	0	0	1.46
NW	0.29	3.8	0	0	0	4.09
NNW	0.88	5.56	0	0	0	6.44
Summary	12.87	87.16	0	0	0	100



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

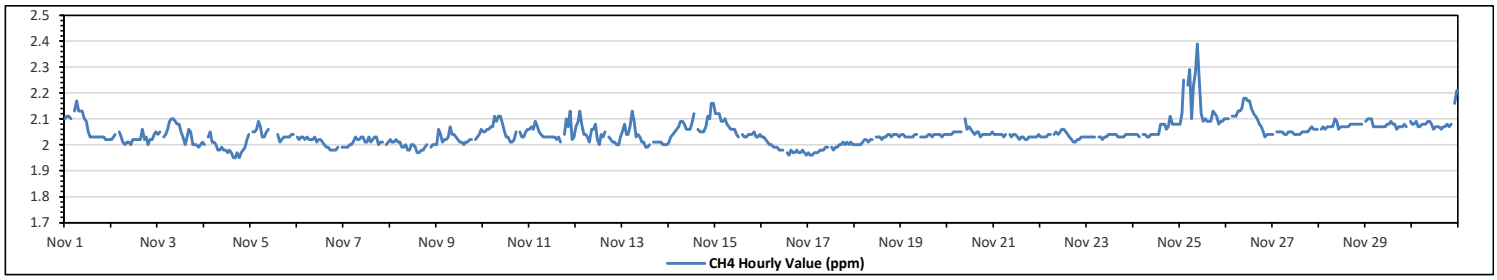
METHANE (CH4) in ppm

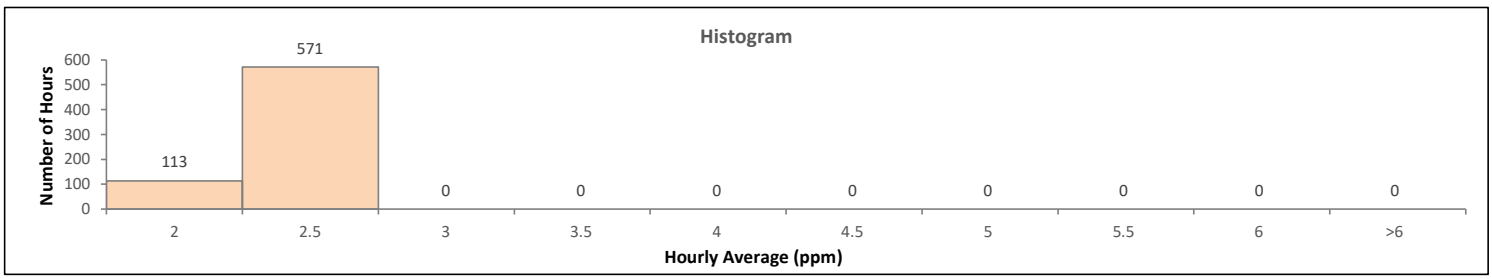
Maximum Hourly Value:	2.39	ppm	on Nov 25 at hr 9	Hours in Service:	720
Maximum Daily Value:	2.15	ppm	on Nov 25	Hours of Data:	684
Minimum Hourly Value:	1.95	ppm	on Nov 4 at hr 15	Hours of Missing Data:	0
Minimum Daily Value:	1.99	ppm	on Nov 16	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational 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			
Nov 1	2.10	2.11	2.11	2.10	S	2.13	2.17	2.13	2.13	2.13	2.10	2.09	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.17	2.07
Nov 2	2.02	2.03	2.04	S	2.05	2.03	2.01	2.00	2.01	2.01	2.00	2.02	2.02	2.02	2.02	2.02	2.06	2.02	2.03	2.00	2.02	2.02	2.04	2.05	2.00	2.06	2.02
Nov 3	2.04	2.05	S	2.03	2.04	2.06	2.09	2.10	2.10	2.09	2.08	2.08	2.05	2.03	2.00	2.03	2.06	2.05	2.00	2.00	2.00	1.99	2.00	2.01	1.99	2.10	2.04
Nov 4	2.00	S	2.03	2.05	2.01	2.01	2.00	1.98	1.98	1.99	1.98	1.98	1.97	1.98	1.97	1.95	1.95	1.97	1.95	1.97	1.98	1.99	2.02	2.04	1.95	2.05	1.99
Nov 5	S	2.05	2.05	2.06	2.09	2.07	2.03	2.03	2.05	2.06	C	C	C	C	2.04	2.01	2.02	2.03	2.03	2.03	2.03	2.04	2.04	S	2.01	2.09	2.04
Nov 6	2.03	2.02	2.03	2.03	2.02	2.03	2.02	2.02	2.02	2.03	2.01	2.02	2.02	2.01	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.99	S	1.99	1.98	2.03	2.01
Nov 7	1.99	1.99	1.99	2.00	2.00	2.01	2.03	2.02	2.02	2.03	2.03	2.01	2.01	2.03	2.01	2.02	2.03	2.03	2.00	2.01	2.01	S	2.00	2.01	1.99	2.03	2.01
Nov 8	2.02	2.01	2.01	2.02	2.01	2.01	1.99	1.99	2.00	1.98	1.98	2.00	2.00	1.99	1.97	1.97	1.98	1.98	1.99	2.00	S	1.99	2.00	2.00	1.97	2.02	2.00
Nov 9	2.00	2.06	2.04	2.01	2.02	2.02	2.03	2.07	2.04	2.04	2.03	2.02	2.01	2.01	2.00	2.01	2.01	2.02	2.02	S	2.02	2.03	2.04	2.06	2.00	2.07	2.03
Nov 10	2.05	2.05	2.06	2.06	2.07	2.07	2.11	2.09	2.11	2.11	2.08	2.05	2.03	2.03	2.01	2.01	2.02	2.05	S	2.05	2.03	2.03	2.05	2.06	2.01	2.11	2.06
Nov 11	2.06	2.07	2.06	2.09	2.07	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.01	S	2.04	2.10	2.07	2.13	2.02	2.03	2.01	2.13	2.05
Nov 12	2.07	2.09	2.13	2.08	2.04	2.04	2.03	2.01	2.06	2.06	2.08	2.02	2.00	2.04	2.03	2.05	S	2.03	2.02	2.01	2.01	2.00	2.00	2.03	2.00	2.13	2.04
Nov 13	2.05	2.08	2.04	2.04	2.07	2.13	2.09	2.03	2.04	2.03	2.01	2.01	1.99	1.99	2.00	S	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	1.99	2.13	2.03
Nov 14	2.01	2.03	2.04	2.05	2.06	2.07	2.09	2.09	2.08	2.06	2.06	2.06	2.09	2.12	S	2.06	2.05	2.05	2.05	2.07	2.11	2.10	2.16	2.16	2.01	2.16	2.07
Nov 15	2.12	2.12	2.12	2.09	2.09	2.10	2.08	2.07	2.06	2.06	2.06	2.04	2.03	S	2.04	2.03	2.03	2.04	2.04	2.04	2.05	2.03	2.03	2.04	2.03	2.12	2.06
Nov 16	2.03	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.98	1.98	1.98	S	1.97	1.96	1.98	1.97	1.97	1.98	1.97	1.97	1.98	1.97	1.96	1.96	2.03	1.99
Nov 17	1.97	1.96	1.96	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.99	S	1.99	1.98	1.99	1.99	2.00	2.00	2.01	2.00	2.01	2.00	2.01	2.00	1.96	2.01	1.99
Nov 18	2.00	2.00	2.00	2.00	2.01	2.02	2.02	2.01	2.02	2.02	S	2.03	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.03	2.04	2.04	2.04	2.03	2.00	2.04	2.02
Nov 19	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.04	2.04	S	2.03	2.03	2.03	2.03	2.04	2.04	2.03	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.03	2.04	2.04
Nov 20	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	S	2.10	2.06	2.07	2.06	2.05	2.04	2.05	2.05	2.03	2.04	2.04	2.04	2.04	2.04	2.05	2.03	2.10	2.05
Nov 21	2.04	2.04	2.04	2.04	2.04	2.03	2.04	S	2.04	2.03	2.04	2.04	2.03	2.02	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.04	2.02	2.04	2.03
Nov 22	2.03	2.03	2.03	2.03	2.04	2.04	S	2.04	2.05	2.04	2.05	2.06	2.06	2.05	2.04	2.03	2.02	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.01	2.06	2.03
Nov 23	2.03	2.03	2.03	2.03	2.03	S	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.02	2.04	2.03
Nov 24	2.04	2.04	2.04	2.03	S	2.04	2.04	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.08	2.08	2.08	2.06	2.07	2.11	2.08	2.08	2.08	2.08	2.03	2.11	2.06
Nov 25	2.08	2.12	2.25	S	2.23	2.29	2.10	2.23	2.28	**2.39**	2.25	2.12	2.09	2.10	2.09	2.09	2.09	2.13	2.12	2.11	2.08	2.09	2.09	2.10	2.08	**2.39**	**2.15**
Nov 26	2.10	2.10	S	2.11	2.11	2.11	2.13	2.13	2.14	2.18	2.18	2.17	2.17	2.14	2.12	2.11	2.10	2.08	2.07	2.05	2.03	2.04	2.04	2.04	2.03	2.18	2.11
Nov 27	2.04	S	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.06	2.07	2.06	2.06	2.06	2.04	2.07	2.05
Nov 28	S	2.06	2.07	2.06	2.07	2.07	2.07	2.07	2.10	2.09	2.06	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.08	S	2.06	2.10	2.07
Nov 29	2.09	2.10	2.10	2.10	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.09	2.08	2.08	2.06	2.07	2.07	2.07	2.08	2.07	S	2.09	2.06	2.10	2.08
Nov 30	2.08	2.08	2.09	2.07	2.07	2.08	2.08	2.08	2.09	2.09	2.08	2.06	2.07	2.07	2.07	2.06	2.07	2.07	2.08	2.07	2.08	S	2.16	2.21	2.06	2.21	2.09
Diurnal Maximum	2.12	2.12	2.25	2.11	2.23	2.29	2.17	2.23	2.28	2.39	2.25	2.17	2.17	2.14	2.12	2.11	2.10	2.13	2.12	2.11	2.11	2.13	2.16	2.21			
Diurnal Average	2.04	2.05	2.05	2.05	2.05	2.06	2.05	2.05	2.06	2.06	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.04	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.



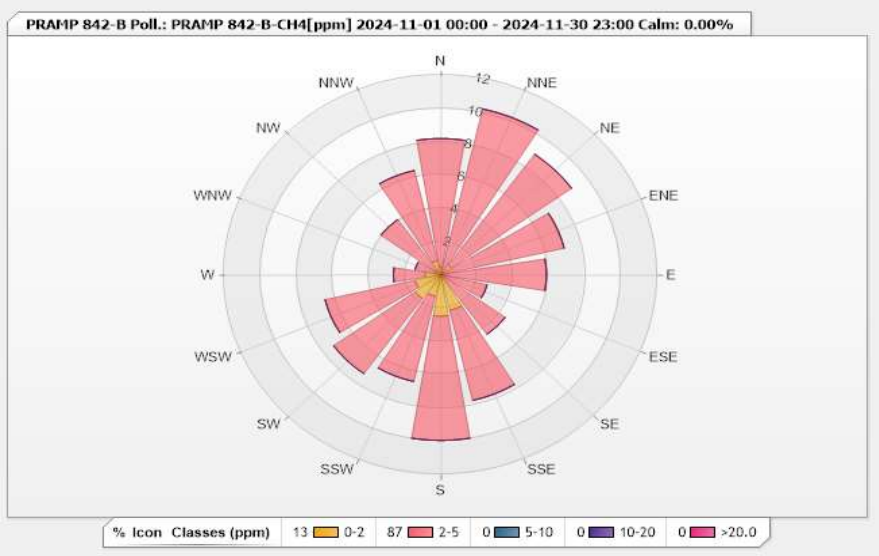


Station: PRAMP 842-B Poll.: PRAMP 842-B-CH4[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.44	7.75	0	0	0	8.19
NNE	0.15	10.09	0	0	0	10.24
NE	0.73	8.19	0	0	0	8.92
ENE	0	7.02	0	0	0	7.02
E	0	5.85	0	0	0	5.85
ESE	0	2.63	0	0	0	2.63
SE	0	4.39	0	0	0	4.39
SSE	2.19	5.56	0	0	0	7.75
S	2.49	7.46	0	0	0	9.95
SSW	1.32	5.26	0	0	0	6.58
SW	1.75	5.56	0	0	0	7.31
WSW	1.46	5.12	0	0	0	6.58
W	0.88	1.75	0	0	0	2.63
WNW	0.29	1.17	0	0	0	1.46
NW	0.29	3.8	0	0	0	4.09
NNW	0.88	5.56	0	0	0	6.44
Summary	12.87	87.16	0	0	0	100



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

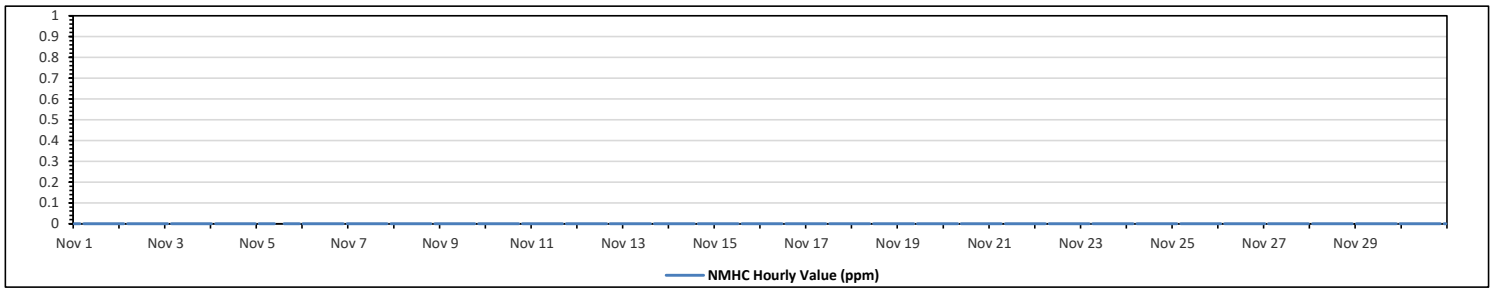
NON-METHANE HYDROCARBONS (NMHC) in ppm

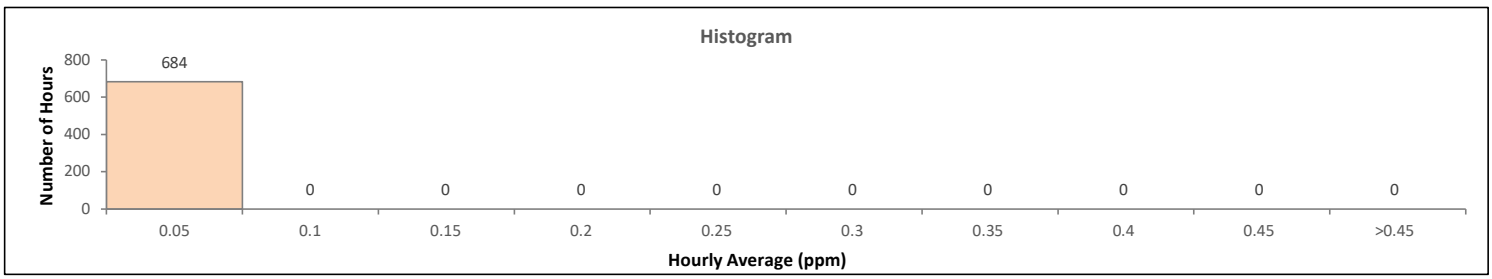
Maximum Hourly Value:	0.00	ppm	on Nov 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on Nov 1	Hours of Data:	684
Minimum Hourly Value:	0.00	ppm	on Nov 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on Nov 1	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational 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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	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
Nov 5	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Nov 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Nov 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Nov 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Nov 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 15	0.00	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
Nov 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 17	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
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	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
Nov 23	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
Nov 24	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
Nov 25	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
Nov 26	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
Nov 27	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
Nov 28	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
Nov 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Nov 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	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.



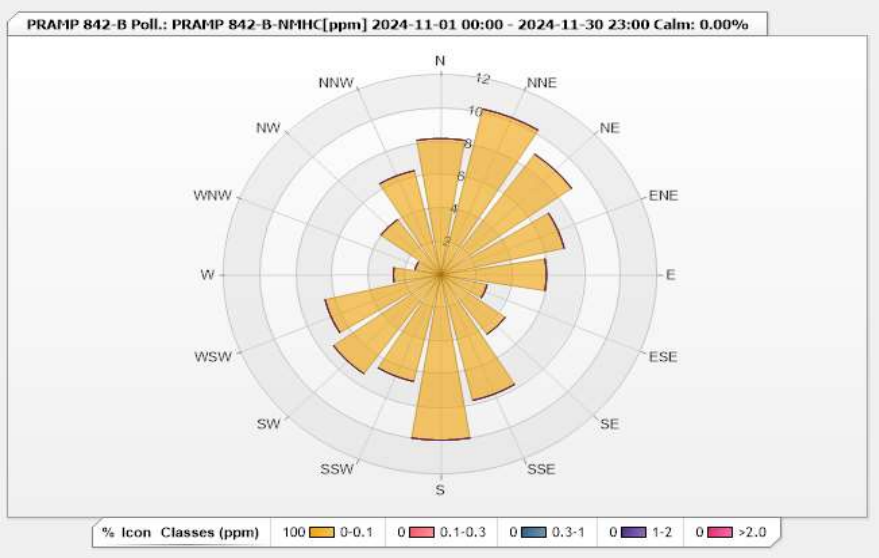


Station: PRAMP 842-B Poll.: PRAMP 842-B-NMHC[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	8.19	0	0	0	0	8.19
NNE	10.23	0	0	0	0	10.23
NE	8.92	0	0	0	0	8.92
ENE	7.02	0	0	0	0	7.02
E	5.85	0	0	0	0	5.85
ESE	2.63	0	0	0	0	2.63
SE	4.39	0	0	0	0	4.39
SSE	7.75	0	0	0	0	7.75
S	9.94	0	0	0	0	9.94
SSW	6.58	0	0	0	0	6.58
SW	7.31	0	0	0	0	7.31
WSW	6.58	0	0	0	0	6.58
W	2.63	0	0	0	0	2.63
WNW	1.46	0	0	0	0	1.46
NW	4.09	0	0	0	0	4.09
NNW	6.43	0	0	0	0	6.43
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

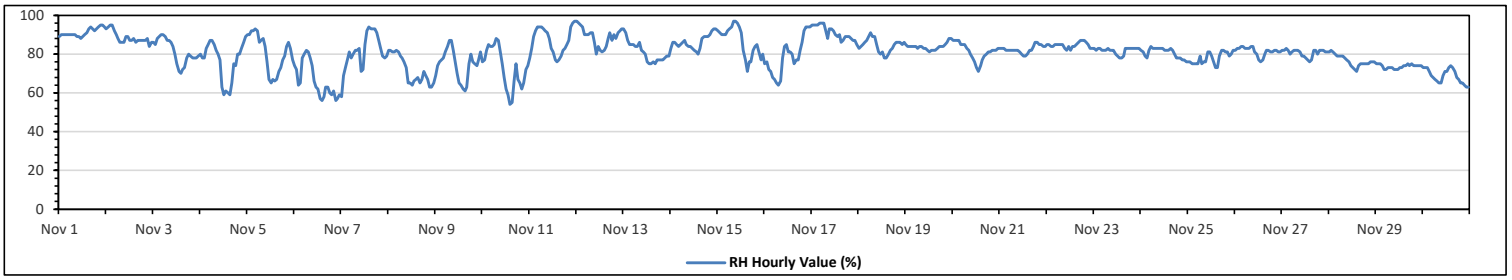
Maximum Hourly Value:	97	%	on Nov 11 at hr 23	Hours in Service:	720	
Maximum Daily Value:	91.2	%	on Nov 1	Hours of Data:	720	
Minimum Hourly Value:	54	%	on Nov 10 at hr 14	Hours of Missing Data:	0	
Minimum Daily Value:	66.2	%	on Nov 6	Hours of Calibration:	0	
Monthly Average:	80.7	%		Operational Uptime:	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			
Nov 1	89	90	90	90	90	90	90	90	90	89	89	88	89	90	91	93	94	93	92	93	94	95	95	94	88	95	**91.2**
Nov 2	93	94	95	95	92	90	88	86	86	86	89	89	87	87	88	86	87	87	87	87	87	88	84	86	84	95	88.5
Nov 3	86	85	88	89	90	90	89	87	87	86	84	80	75	71	70	72	73	78	80	79	78	78	78	79	70	90	81.3
Nov 4	80	78	78	83	85	87	87	85	82	80	77	63	59	61	60	59	65	75	74	80	80	83	86	89	59	89	76.5
Nov 5	90	90	92	92	93	92	86	87	88	84	76	67	65	67	66	67	71	73	77	79	84	86	83	77	65	93	80.5
Nov 6	74	72	64	65	78	80	82	81	78	74	66	63	62	57	56	58	63	63	60	59	61	56	57	59	56	82	**66.2**
Nov 7	58	69	73	77	81	78	80	82	82	83	71	72	85	92	94	93	93	93	91	87	83	79	78	79	58	94	81.4
Nov 8	82	82	81	81	82	81	79	78	76	73	65	65	64	66	67	68	65	67	71	69	67	63	63	65	63	82	71.7
Nov 9	69	74	76	77	78	81	84	87	87	82	76	70	65	64	62	61	63	75	80	76	75	74	77	81	61	87	74.8
Nov 10	76	77	82	85	84	84	85	88	87	81	75	68	62	59	**54**	55	66	75	67	65	62	65	72	74	**54**	88	72.8
Nov 11	78	83	89	92	94	94	94	93	92	91	88	83	81	77	76	77	79	82	83	85	87	94	96	**97**	76	**97**	86.9
Nov 12	**97**	96	95	94	90	90	90	91	91	86	80	84	82	81	82	84	88	91	87	90	88	91	92	93	80	**97**	88.9
Nov 13	93	91	87	85	85	85	84	84	86	82	81	80	76	75	75	76	75	77	77	77	77	78	79	79	75	93	81.0
Nov 14	83	86	86	85	84	85	86	87	85	84	84	83	82	81	80	83	88	89	89	89	90	92	93	93	80	93	86.1
Nov 15	92	91	90	90	90	92	93	94	**97**	**97**	96	94	91	82	77	71	76	76	82	84	85	81	77	80	71	**97**	86.6
Nov 16	75	76	72	71	68	67	65	64	66	78	84	85	81	81	80	75	77	77	82	86	92	94	94	94	64	94	78.5
Nov 17	95	95	95	95	96	96	96	92	88	93	93	92	90	89	90	86	87	89	89	89	88	87	87	85	85	96	90.9
Nov 18	83	84	85	86	87	89	91	89	89	85	81	80	81	78	78	80	82	83	85	86	86	86	85	86	78	91	84.4
Nov 19	85	84	84	84	84	84	83	84	84	83	83	82	81	82	82	82	83	84	84	84	85	86	88	88	81	88	83.9
Nov 20	87	87	87	87	85	85	85	83	82	80	78	76	73	71	74	77	79	80	81	81	82	82	82	83	71	87	81.1
Nov 21	83	83	83	82	82	82	82	82	82	82	81	80	79	79	80	82	82	84	86	86	85	85	84	84	79	86	82.5
Nov 22	85	85	84	84	85	85	85	85	85	83	82	84	82	84	84	85	86	87	87	87	86	85	83	83	82	87	84.6
Nov 23	83	82	83	83	82	82	82	83	82	82	82	80	79	78	78	79	83	83	83	83	83	83	83	83	78	83	81.8
Nov 24	82	81	79	78	82	84	83	83	83	83	83	83	82	82	82	83	82	80	78	78	78	77	77	76	76	84	80.8
Nov 25	76	76	75	75	75	75	79	75	76	76	81	81	79	76	73	73	79	82	82	81	81	79	80	82	73	82	77.8
Nov 26	82	83	83	84	84	83	83	83	84	84	81	80	77	76	77	80	82	82	81	81	82	82	81	81	76	84	81.5
Nov 27	82	82	83	82	80	81	82	82	82	81	79	79	78	77	76	77	82	82	80	82	82	82	81	81	76	83	80.6
Nov 28	81	82	81	80	79	79	79	79	78	77	76	74	73	72	71	74	75	75	75	75	75	76	76	76	71	82	76.6
Nov 29	75	75	75	74	72	72	73	73	73	72	72	72	73	73	74	74	75	74	75	74	74	74	74	74	72	75	73.6
Nov 30	73	73	73	71	69	68	67	66	65	65	69	71	71	73	74	73	71	68	67	65	65	64	63	63	63	74	68.6
Diurnal Maximum	97	96	95	95	96	96	96	94	97	97	96	94	91	92	94	93	94	93	92	93	94	95	96	97			
Diurnal Average	82.2	82.9	82.9	83.2	83.5	83.7	83.7	83.4	83.1	82.1	80.1	78.3	76.8	76.0	75.7	76.1	78.4	80.1	80.4	80.6	80.7	80.8	80.9	81.5			

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 - November 2024

Summary of Hourly Averages

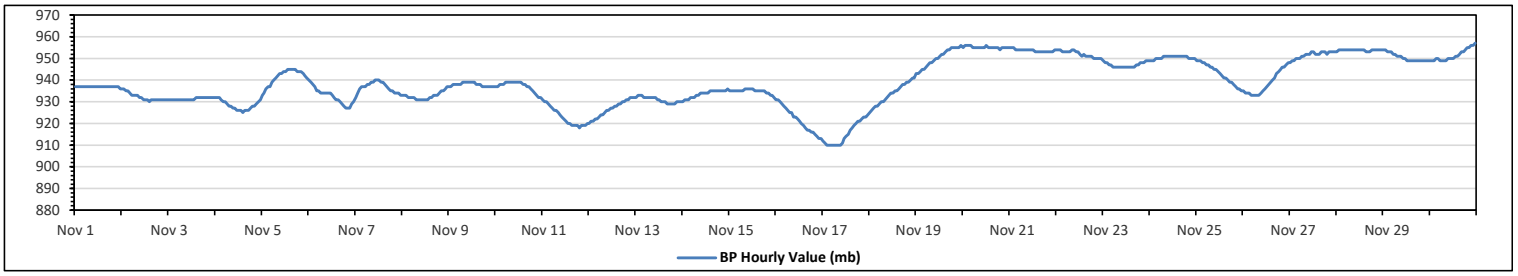
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	957	mb	on Nov 30 at hr 23	Hours in Service:	720
Maximum Daily Value:	955	mb	on Nov 20	Hours of Data:	720
Minimum Hourly Value:	910	mb	on Nov 17 at hr 2	Hours of Missing Data:	0
Minimum Daily Value:	915	mb	on Nov 17	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
Nov 1	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	937	936	936	937	937
Nov 2	936	936	935	935	934	933	933	933	933	932	932	931	931	931	930	931	931	931	931	931	931	931	931	931	930	936	932
Nov 3	931	931	931	931	931	931	931	931	931	931	931	931	931	931	932	932	932	932	932	932	932	932	932	932	931	932	931
Nov 4	932	932	932	931	930	930	929	928	928	927	927	926	926	926	925	926	926	926	927	928	928	929	930	931	925	932	928
Nov 5	933	934	936	937	937	939	940	941	942	943	943	944	944	945	945	945	945	945	944	944	944	943	942	941	933	945	942
Nov 6	940	939	938	937	935	935	934	934	934	934	934	934	933	932	931	931	930	929	928	927	927	927	929	930	927	940	933
Nov 7	932	934	936	937	937	937	938	938	939	939	940	940	940	939	939	938	937	936	935	935	934	934	934	933	932	940	937
Nov 8	933	933	933	932	932	932	932	931	931	931	931	931	931	931	932	932	933	933	933	934	935	935	936	937	931	937	933
Nov 9	937	937	938	938	938	938	938	939	939	939	939	939	939	939	938	938	938	937	937	937	937	937	937	937	937	939	938
Nov 10	937	937	938	938	938	939	939	939	939	939	939	939	939	939	938	938	937	937	936	935	934	933	932	932	932	939	937
Nov 11	931	930	930	929	928	927	926	926	925	924	923	922	921	920	920	919	919	919	919	918	919	919	919	920	918	931	923
Nov 12	920	921	921	922	922	923	924	924	925	926	926	927	927	928	928	929	929	930	930	931	931	932	932	932	920	932	927
Nov 13	932	933	933	933	932	932	932	932	932	932	932	931	931	930	930	930	929	929	929	929	929	930	930	930	929	933	931
Nov 14	930	931	931	931	932	932	932	933	933	934	934	934	934	934	935	935	935	935	935	935	935	935	935	936	930	936	934
Nov 15	935	935	935	935	935	935	935	935	936	936	936	936	936	935	935	935	935	935	935	934	934	933	933	932	932	936	935
Nov 16	931	931	930	929	928	927	926	925	925	923	923	922	921	920	919	918	917	917	916	916	915	914	913	913	913	931	922
Nov 17	912	911	**910**	**910**	**910**	**910**	**910**	**910**	**910**	**910**	911	913	914	915	917	918	919	920	921	921	922	923	923	924	**910**	924	**915**
Nov 18	925	926	927	928	928	929	930	930	931	932	933	934	934	935	935	936	937	938	938	939	939	940	941	941	925	941	934
Nov 19	943	943	944	945	945	946	947	948	948	949	950	950	951	952	952	953	954	954	955	955	955	955	955	956	943	956	950
Nov 20	955	956	956	956	956	955	955	955	955	955	955	955	956	955	955	955	955	955	955	954	955	955	955	955	954	956	**955**
Nov 21	955	955	955	954	954	954	954	954	954	954	954	954	954	953	953	953	953	953	953	953	953	953	953	954	953	955	954
Nov 22	954	954	954	953	953	953	953	953	954	954	953	953	952	951	952	951	951	951	951	950	950	950	950	950	950	954	952
Nov 23	949	948	948	947	947	946	946	946	946	946	946	946	946	946	946	946	946	947	947	948	948	948	949	949	946	949	947
Nov 24	949	949	949	950	950	950	950	951	951	951	951	951	951	951	951	951	951	951	951	951	950	950	950	950	949	951	950
Nov 25	949	949	949	948	948	947	947	946	946	945	945	944	943	942	941	941	940	939	939	938	937	936	936	935	935	949	943
Nov 26	935	934	934	934	933	933	933	933	933	934	935	936	937	938	939	940	941	943	944	945	946	946	947	948	933	948	938
Nov 27	948	949	949	950	950	950	951	951	952	952	952	953	953	952	952	952	953	953	953	952	953	953	953	953	948	953	952
Nov 28	953	954	954	954	954	954	954	954	954	954	954	954	954	954	954	953	953	953	954	954	954	954	954	954	953	954	954
Nov 29	954	954	953	953	953	952	952	951	951	951	950	950	949	949	949	949	949	949	949	949	949	949	949	949	949	954	951
Nov 30	949	949	949	950	950	949	949	949	949	950	950	950	950	951	951	952	953	953	954	955	955	956	956	**957**	949	**957**	952
Diurnal Maximum	955	956	956	956	956	955	955	955	955	955	955	955	956	955	955	955	955	955	955	955	955	956	956	957			
Diurnal Average	939	939	939	939	939	939	939	939	939	939	939	939	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.
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 - November 2024

Summary of Hourly Averages

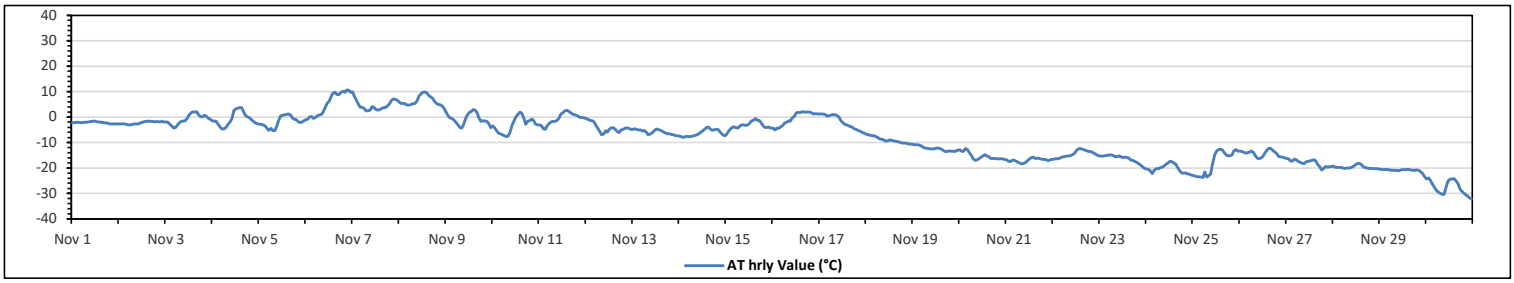
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	10.7	°C	on Nov 6 at hr 21	Hours in Service:	720	
Maximum Daily Value:	6.4	°C	on Nov 8	Hours of Data:	720	
Minimum Hourly Value:	-32.1	°C	on Nov 30 at hr 23	Hours of Missing Data:	0	
Minimum Daily Value:	-27.7	°C	on Nov 30	Hours of Calibration:	0	
Monthly Average:	-8.1	°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
Nov 1	-2.2	-2.2	-2.1	-2.1	-2.2	-2.2	-2.1	-2.1	-2	-1.8	-1.7	-1.5	-1.6	-1.9	-2	-2.1	-2.2	-2.3	-2.4	-2.6	-2.7	-2.7	-2.7	-2.7	-2.7	-1.5	-2.2
Nov 2	-2.7	-2.7	-2.6	-2.7	-2.9	-3	-3	-2.8	-2.7	-2.6	-2.6	-2.4	-2.1	-1.8	-1.7	-1.5	-1.6	-1.7	-1.8	-1.8	-1.8	-1.9	-1.7	-2	-3.0	-1.5	-2.3
Nov 3	-2	-1.9	-2.7	-3.4	-4.3	-4	-3	-2.2	-1.6	-1.5	-1.4	-0.5	0.8	1.7	2.1	2	2.1	0.9	0.1	0.2	0.7	0.2	-0.6	-1	-4.3	2.1	-0.8
Nov 4	-1.5	-1.5	-1.6	-3.1	-4	-4.7	-4.7	-3.9	-2.8	-2	-0.5	2.6	3.2	3.5	3.8	3.7	2.2	0.4	0.1	-0.3	-1	-1.6	-2.3	-2.5	-4.7	3.8	-0.8
Nov 5	-2.8	-2.8	-3.1	-3.5	-4.3	-5.2	-4.4	-5.3	-5.3	-3.6	-1.2	0.4	0.7	0.8	1.1	1.3	0.9	-0.1	-0.8	-0.9	-1.8	-2.2	-1.9	-1.4	-5.3	1.3	-1.9
Nov 6	-1.1	-0.8	0.1	0.2	-0.5	0	0.5	0.9	1.1	2	4	5.5	6.2	8.2	9.4	9.7	8.9	8.8	9.6	10.2	9.7	**10.7**	10.5	9.7	-1.1	**10.7**	5.1
Nov 7	9.9	8	6.7	5.1	3.9	3.9	3.3	2.5	2.5	2.7	4.1	3.8	2.9	2.8	3	3.4	3.8	3.7	4.5	5.4	6.6	7.1	7	6.7	2.5	9.9	4.7
Nov 8	5.8	5.4	5.4	5.2	4.7	4.7	4.9	5.3	5.4	6.3	8.2	9	9.6	9.8	9.6	8.6	8.1	7.4	6.4	5.5	5	4.9	4.3	3.3	3.3	9.8	**6.4**
Nov 9	1.9	0.5	-0.3	-0.6	-1.1	-1.9	-2.8	-4	-4.3	-2.9	-0.9	0.7	1.8	2.2	2.9	2.8	1.7	-0.4	-1.7	-1.4	-1.5	-1.7	-2.7	-4.2	-4.3	2.9	-0.7
Nov 10	-3.4	-4.1	-5.3	-6.4	-6.6	-6.9	-7.3	-7.8	-7.5	-6	-3.3	-1.2	0.2	1.1	1.9	1.5	-0.4	-2.8	-1.6	-1.4	-0.8	-1.4	-2.7	-3.1	-7.8	1.9	-3.1
Nov 11	-3	-3.3	-4.6	-4.9	-3.4	-2.5	-1.9	-1.7	-1.7	-1.4	-0.4	1.2	1.6	2.4	2.7	2.4	1.7	1.2	1	0.7	0.3	-0.1	-0.1	-0.3	-4.9	2.7	-0.6
Nov 12	-0.5	-0.9	-1.2	-1.4	-1.8	-3.2	-4.3	-5.5	-6.9	-6.6	-5.3	-6	-4.9	-4.2	-4.2	-4.9	-5.7	-6.1	-5.1	-4.9	-4.5	-4.2	-4.4	-4.8	-6.9	-0.5	-4.2
Nov 13	-4.8	-4.6	-4.9	-5.1	-5.1	-5.4	-5.3	-6	-7	-6.7	-6.2	-5.4	-4.7	-4.8	-5.2	-5.4	-5.9	-6.3	-6.5	-6.6	-6.8	-7	-7.4	-7.3	-7.4	-4.6	-5.9
Nov 14	-7.5	-7.7	-7.9	-7.8	-7.6	-7.7	-7.6	-7.5	-7.2	-7	-6.6	-6	-5.3	-4.7	-4.1	-3.9	-4.8	-5.2	-5	-4.8	-5	-5.9	-6.7	-7.4	-7.9	-3.9	-6.3
Nov 15	-7.1	-5.7	-4.8	-4.1	-3.8	-4.2	-4.3	-3.6	-3.1	-3	-3.3	-3.1	-2.5	-1.5	-1.2	-0.6	-1.2	-1.3	-2.4	-3.4	-4.1	-4.1	-3.9	-4.3	-7.1	-0.6	-3.4
Nov 16	-4.3	-5.1	-4.3	-4.4	-3.9	-3.3	-2.4	-2.1	-1.5	-1.5	-0.3	0.2	1.6	1.8	1.7	2.1	1.9	2	1.9	2	1.6	1.3	1.4	1.3	-5.1	2.1	-0.5
Nov 17	1.2	1.2	1.3	1	0.3	0.5	0.8	1	1	0.5	0	-1.4	-2.2	-2.9	-3.1	-3.4	-3.7	-4.1	-4.7	-5	-5.3	-5.6	-6.1	-6.4	-6.4	1.3	-1.9
Nov 18	-6.7	-7	-7.1	-7.3	-7.4	-7.8	-8.1	-8.6	-8.8	-9	-9.5	-9.3	-9	-9.1	-9.3	-9.4	-9.6	-9.9	-10.1	-10.2	-10.3	-10.4	-10.5	-10.6	-10.6	-6.7	-9.0
Nov 19	-10.7	-10.8	-10.8	-10.9	-11.2	-11.6	-12.1	-12.2	-12.4	-12.5	-12.5	-12.5	-12.1	-12.2	-12.4	-12.8	-13.4	-13.6	-13.4	-13.4	-13.4	-13.5	-13.3	-13	-13.6	-10.7	-12.4
Nov 20	-12.9	-13.4	-13.5	-12.4	-12.8	-13.9	-15.1	-16.5	-17	-16.8	-16.2	-15.8	-15.3	-14.7	-15.2	-15.7	-16.2	-16.3	-16.3	-16.4	-16.4	-16.4	-16.4	-16.6	-17.0	-12.4	-15.3
Nov 21	-16.8	-17.2	-17.5	-17.1	-16.9	-17.3	-17.8	-18.2	-18.4	-18.2	-17.7	-17	-16.4	-15.9	-15.8	-16.2	-16.1	-16.2	-16.5	-16.6	-16.6	-17	-17	-16.7	-18.4	-15.8	-17.0
Nov 22	-16.6	-16.4	-16.4	-16.2	-15.9	-15.7	-15.5	-15.4	-15.3	-15.1	-14.7	-14.3	-13.1	-12.5	-12.3	-12.6	-12.9	-13.1	-13.5	-13.5	-13.7	-14.2	-14.6	-15.1	-16.6	-12.3	-14.5
Nov 23	-15.3	-15.4	-15.2	-15.1	-15	-14.9	-14.9	-15.1	-15.6	-15.5	-15.2	-15.7	-15.9	-15.8	-15.9	-16.1	-16.9	-17.1	-17.3	-17.8	-18.3	-18.9	-19.6	-20.1	-20.1	-14.9	-16.4
Nov 24	-20.4	-20.6	-21.2	-22.2	-20.9	-20.3	-20.2	-19.9	-19.7	-19.3	-18.6	-18.1	-17.3	-17.5	-18	-18.5	-19.8	-20.9	-21.9	-22.1	-21.9	-22.3	-22.4	-22.8	-22.8	-17.3	-20.3
Nov 25	-22.9	-23.2	-23.5	-23.4	-23.6	-23.7	-21.5	-23.6	-23.1	-22.5	-18	-14.9	-13.4	-12.8	-12.6	-12.9	-14	-14.8	-15.2	-15.1	-14.7	-13.2	-12.7	-13.3	-23.7	-12.6	-17.9
Nov 26	-13.4	-13.5	-13.9	-14.2	-14	-13.7	-13.4	-13.9	-15.1	-16.2	-16.2	-16	-15.4	-14.1	-12.9	-12.2	-12.3	-13.1	-13.8	-14.4	-15.5	-15.7	-15.8	-16	-16.2	-12.2	-14.4
Nov 27	-16.2	-16.4	-17.2	-17.2	-16.5	-16.8	-17.3	-17.7	-18.2	-18.3	-17.6	-17.3	-17.2	-17	-16.8	-17.2	-18.6	-19.4	-20.8	-20.3	-19.4	-19.7	-19.5	-19.4	-20.8	-16.2	-18.0
Nov 28	-19.3	-19.7	-19.8	-19.8	-19.8	-20	-20.1	-20	-20	-19.9	-19.5	-19	-18.5	-18.2	-18.4	-19.1	-19.8	-19.9	-20.1	-20.1	-20.1	-20.2	-20.3	-20.3	-20.3	-18.2	-19.7
Nov 29	-20.5	-20.6	-20.7	-20.6	-20.7	-20.8	-20.9	-21	-21	-21.1	-21.1	-20.7	-20.7	-20.7	-20.6	-20.7	-20.8	-20.9	-20.9	-20.8	-21	-21.5	-22.2	-23.4	-23.4	-20.5	-21.0
Nov 30	-24.3	-23.9	-25.1	-26.5	-27.8	-28.8	-29.4	-30	-30.4	-30.4	-27.2	-25.2	-24.4	-24.3	-24.2	-25.1	-26.1	-28	-29.1	-29.8	-30.5	-30.9	-31.7	**-32.1**	**-32.1**	-23.9	**-27.7**
Diurnal Maximum	9.9	8.0	6.7	5.2	4.7	4.7	4.9	5.3	5.4	6.3	8.2	9.0	9.6	9.8	9.6	9.7	8.9	8.8	9.6	10.2	9.7	10.7	10.5	9.7			
Diurnal Average	-8.0	-8.2	-8.5	-8.7	-8.8	-9.0	-9.0	-9.2	-9.3	-9.0	-8.0	-7.3	-6.8	-6.4	-6.3	-6.4	-7.0	-7.6	-7.9	-8.0	-8.1	-8.3	-8.5	-8.9			

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.



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

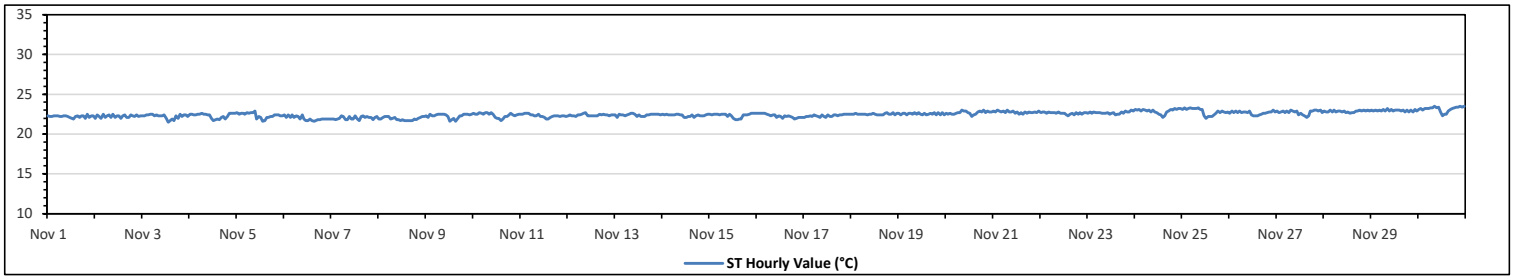
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	23.5	°C	on Nov 30 at hr 8	Hours in Service:	720
Maximum Daily Value:	23.1	°C	on Nov 30	Hours of Data:	720
Minimum Hourly Value:	21.5	°C	on Nov 3 at hr 13	Hours of Missing Data:	0
Minimum Daily Value:	21.9	°C	on Nov 8	Hours of Calibration:	0
Monthly Average:	22.5	°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
Nov 1	22.3	22.2	22.2	22.3	22.3	22.3	22.2	22.2	22.3	22.3	22.2	22.1	22.0	21.9	22.2	22.3	22.1	22.3	22.3	22.0	22.5	22.1	22.3	22.3	21.9	22.5	22.2
Nov 2	22.0	22.4	22.2	22.0	22.5	22.1	22.3	22.4	22.1	22.5	22.1	22.3	22.3	22.0	22.3	22.4	22.1	22.1	22.4	22.3	22.2	22.4	22.2	22.3	22.0	22.5	22.2
Nov 3	22.3	22.3	22.4	22.4	22.5	22.5	22.3	22.4	22.3	22.3	22.3	22.4	22.0	**21.5**	21.7	21.9	21.7	22.3	22.0	22.5	22.2	22.4	22.4	22.2	**21.5**	22.5	22.2
Nov 4	22.5	22.5	22.4	22.4	22.5	22.5	22.6	22.5	22.5	22.4	22.4	22.0	21.7	21.8	21.9	21.8	22.1	22.2	21.9	22.2	22.6	22.6	22.6	22.6	21.7	22.6	22.3
Nov 5	22.7	22.5	22.6	22.6	22.5	22.7	22.6	22.7	22.7	22.9	21.9	22.2	22.1	21.6	21.7	22.1	22.1	22.2	22.2	22.4	22.4	22.4	22.3	22.3	21.6	22.9	22.4
Nov 6	22.4	22.1	22.4	22.1	22.4	22.1	22.3	22.2	21.9	22.4	21.9	21.7	21.7	21.9	21.7	21.6	21.7	21.8	21.8	21.9	21.9	21.9	21.9	21.9	21.6	22.4	22.0
Nov 7	21.9	21.9	21.8	21.9	22.0	22.3	22.2	21.8	21.8	22.2	21.9	21.9	22.3	21.9	21.7	22.2	22.3	22.1	22.2	22.1	22.1	21.8	22.1	22.2	21.7	22.3	22.0
Nov 8	21.9	21.9	22.1	22.2	22.2	22.2	21.9	22.0	22.1	21.8	21.8	21.7	21.8	21.7	21.7	21.7	21.7	21.7	21.9	21.8	22.0	22.1	22.2	22.2	21.7	22.2	**21.9**
Nov 9	22.3	22.1	22.5	22.3	22.3	22.4	22.5	22.5	22.5	22.5	22.4	22.2	21.6	21.8	22.0	21.6	22.0	22.3	22.3	22.5	22.5	22.5	22.4	22.5	21.6	22.5	22.3
Nov 10	22.6	22.5	22.5	22.7	22.6	22.5	22.7	22.7	22.5	22.7	22.5	22.1	22.0	22.0	21.7	21.9	22.2	22.2	22.4	22.6	22.4	22.3	22.4	22.5	21.7	22.7	22.4
Nov 11	22.5	22.5	22.6	22.6	22.6	22.4	22.4	22.3	22.3	22.5	22.2	22.2	22.1	21.9	21.9	22.1	22.2	22.3	22.3	22.3	22.2	22.3	22.3	22.2	21.9	22.6	22.3
Nov 12	22.3	22.4	22.3	22.3	22.2	22.4	22.4	22.5	22.6	22.7	22.3	22.3	22.3	22.3	22.3	22.3	22.5	22.4	22.5	22.4	22.4	22.3	22.4	22.4	22.2	22.7	22.4
Nov 13	22.4	22.1	22.5	22.4	22.4	22.3	22.4	22.5	22.6	22.6	22.5	22.2	22.4	22.2	22.2	22.2	22.4	22.4	22.5	22.5	22.5	22.5	22.5	22.4	22.1	22.6	22.4
Nov 14	22.5	22.4	22.5	22.4	22.4	22.4	22.4	22.5	22.5	22.4	22.4	22.1	22.1	22.2	22.2	22.4	22.1	22.3	22.4	22.3	22.3	22.3	22.4	22.5	22.1	22.5	22.4
Nov 15	22.5	22.4	22.5	22.5	22.5	22.4	22.5	22.5	22.5	22.2	22.5	22.3	22.0	21.8	21.8	21.9	21.9	22.4	22.4	22.4	22.5	22.6	22.6	22.6	21.8	22.6	22.3
Nov 16	22.6	22.6	22.6	22.6	22.6	22.5	22.4	22.3	22.4	22.4	22.1	22.3	22.2	22.0	22.3	22.2	22.3	22.2	22.1	21.9	22.0	22.1	22.1	22.1	21.9	22.6	22.3
Nov 17	22.1	22.2	22.2	22.3	22.2	22.4	22.3	22.2	22.1	22.4	22.2	22.1	22.4	22.2	22.2	22.4	22.4	22.3	22.4	22.4	22.5	22.5	22.5	22.5	22.1	22.5	22.3
Nov 18	22.5	22.5	22.6	22.5	22.5	22.5	22.5	22.5	22.4	22.5	22.5	22.6	22.5	22.4	22.4	22.4	22.4	22.6	22.7	22.5	22.5	22.7	22.4	22.6	22.4	22.7	22.5
Nov 19	22.6	22.4	22.6	22.6	22.4	22.6	22.6	22.5	22.7	22.5	22.7	22.5	22.4	22.6	22.4	22.5	22.6	22.5	22.7	22.4	22.7	22.4	22.7	22.4	22.4	22.7	22.5
Nov 20	22.6	22.5	22.6	22.5	22.5	22.6	22.7	22.7	23.0	22.9	22.9	22.7	22.6	22.2	22.4	22.5	22.8	22.9	22.8	23.0	22.7	22.9	22.8	22.8	22.2	23.0	22.7
Nov 21	22.9	22.8	23.0	22.9	22.8	22.9	22.7	23.0	22.8	22.8	22.9	22.6	22.8	22.5	22.7	22.5	22.8	22.6	22.8	22.7	22.7	22.8	22.7	22.9	22.5	23.0	22.8
Nov 22	22.7	22.8	22.8	22.6	22.8	22.7	22.7	22.7	22.6	22.8	22.6	22.6	22.6	22.4	22.3	22.5	22.6	22.4	22.7	22.5	22.7	22.5	22.7	22.7	22.3	22.8	22.6
Nov 23	22.6	22.8	22.6	22.8	22.7	22.7	22.7	22.6	22.6	22.6	22.7	22.5	22.6	22.7	22.4	22.5	22.5	22.8	22.6	22.9	22.8	22.8	23.0	22.9	22.4	23.0	22.7
Nov 24	23.1	23.0	23.1	22.9	23.1	23.0	22.9	23.0	22.8	23.0	22.8	22.7	22.5	22.4	22.1	22.3	22.8	22.9	23.1	23.0	23.2	23.1	23.2	23.2	22.1	23.2	22.9
Nov 25	23.1	23.3	23.1	23.2	23.3	23.2	23.2	23.2	23.3	23.1	23.1	22.3	22.0	22.2	22.2	22.2	22.4	22.6	22.9	22.7	22.9	22.8	22.7	22.8	22.0	23.3	22.8
Nov 26	22.6	22.9	22.7	22.9	22.7	22.9	22.7	22.8	22.8	22.7	22.9	22.4	22.3	22.3	22.3	22.4	22.5	22.6	22.6	22.7	22.8	22.8	23.0	22.8	22.3	23.0	22.7
Nov 27	22.9	22.7	22.8	22.9	22.7	22.9	22.7	23.0	22.9	22.8	22.9	22.4	22.6	22.4	22.3	22.1	22.3	22.9	22.9	23.0	23.0	22.9	23.0	22.7	22.1	23.0	22.7
Nov 28	22.9	22.8	22.8	23.0	22.8	23.0	22.8	22.9	22.9	22.8	22.9	22.7	22.8	22.6	22.7	22.7	22.9	22.9	23.0	22.9	23.0	22.9	23.0	22.9	22.6	23.0	22.9
Nov 29	23.0	22.9	23.0	22.9	23.0	22.9	23.1	22.9	23.2	22.9	23.1	22.9	23.0	23.0	23.0	22.9	23.0	22.8	23.0	22.8	23.0	22.8	23.1	22.9	22.8	23.2	23.0
Nov 30	23.1	23.2	23.0	23.2	23.2	23.2	23.3	23.3	**23.5**	23.3	23.4	22.8	22.3	22.5	22.5	22.9	23.1	23.2	23.3	23.4	23.4	**23.5**	23.4	**23.5**	22.3	**23.5**	**23.1**
Diurnal Maximum	23.1	23.3	23.1	23.2	23.3	23.2	23.3	23.3	23.5	23.3	23.4	22.9	23.0	23.0	23.0	22.9	23.1	23.2	23.3	23.4	23.4	23.5	23.4	23.5			
Diurnal Average	22.5	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.5	22.3	22.3	22.2	22.2	22.2	22.4	22.4	22.5	22.5	22.6	22.5	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

842-B Station - November 2024

Summary of Hourly Averages

PRECIPITATION in mm

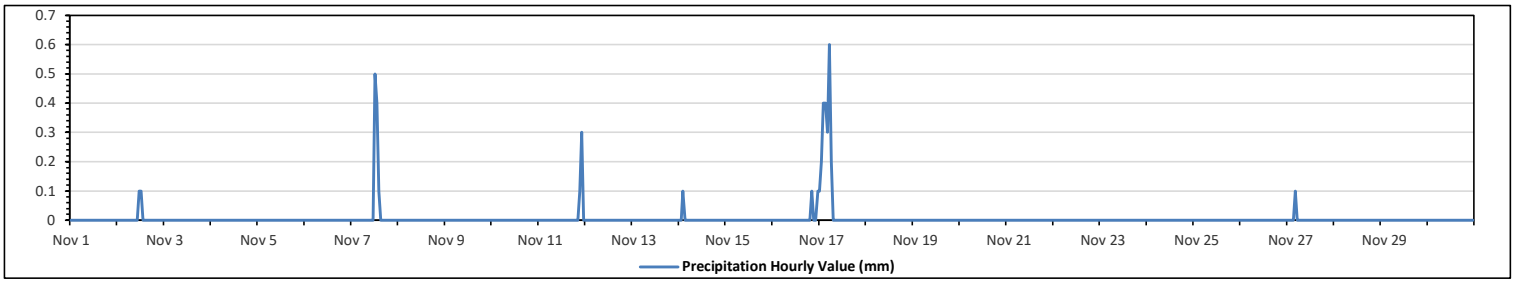
Maximum Hourly Value:	0.6	mm	on Nov 17 at hr 5	Hours in Service:	720	
Maximum Daily Value:	2.2	mm	on Nov 17	Hours of Data:	720	
Minimum Hourly Value:	0.0	mm	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	mm	on Nov 1	Hours of Calibration:	0	
Monthly Total:	4.2	mm		Operational Uptime:	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	Total
Nov 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
Nov 2	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	0.0	0.1	0.2
Nov 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
Nov 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Nov 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
Nov 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
Nov 7	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.4	0.1	0	0	0	0	0	0	0	0	0	0.0	0.5	1.0
Nov 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
Nov 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
Nov 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
Nov 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0	0.0	0.3	0.4
Nov 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
Nov 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
Nov 14	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	0.1	0.1
Nov 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
Nov 16	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	0.1	0.2
Nov 17	0.1	0.2	0.4	0.4	0.3	**0.6**	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**0.6**	**2.2**
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 27	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	0.1	0.1
Nov 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
Nov 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
Nov 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.1	0.2	0.4	0.4	0.3	0.6	0.2	0.0	0.0	0.0	0.0	0.1	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.1			
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 - November 2024

Summary of Hourly Averages

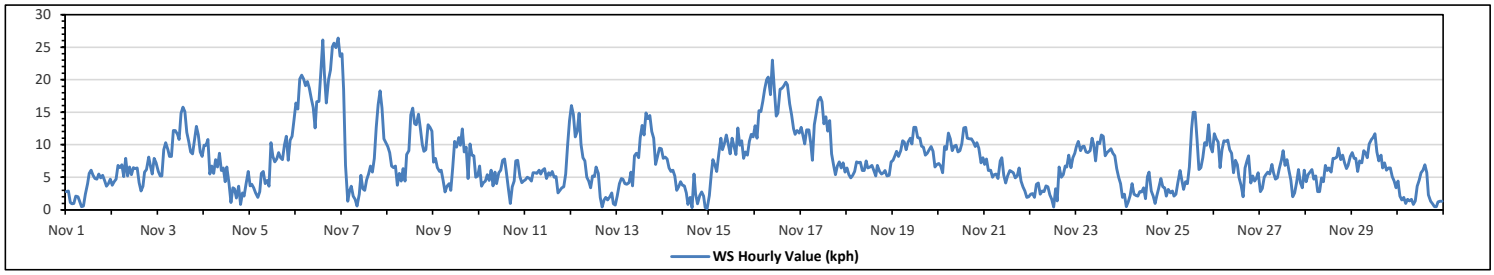
VECTOR WIND SPEED (VWS) in km/hr

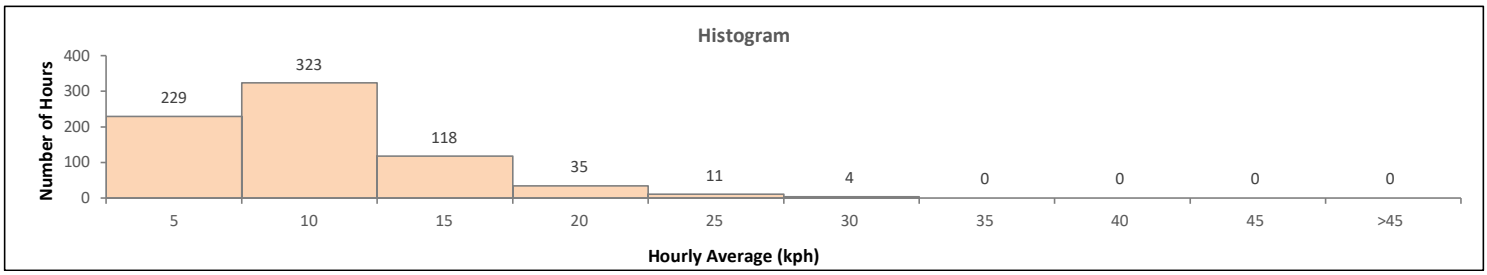
Maximum Hourly Value:	26.4	kph	on Nov 6 at hr 22	Hours in Service:	720	
Maximum Daily Value:	20.0	kph	on Nov 6	Hours of Data:	720	
Minimum Hourly Value:	0.2	kph	on Nov 14 at hr 23	Hours of Missing Data:	0	
Minimum Daily Value:	2.5	kph	on Nov 30	Hours of Calibration:	0	
Monthly Average:	0.9	kph		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	2.8	2.9	1.1	0.9	1.0	2.1	2.0	1.3	0.5	0.6	2.4	4.0	5.6	6.1	5.3	4.8	4.7	5.5	4.9	5.3	4.5	3.6	4.0	4.7	0.5	6.1	3.4
Nov 2	3.8	4.3	4.7	6.8	6.5	6.9	5.1	7.9	5.2	6.6	5.4	6.5	6.3	6.4	4.2	2.9	3.6	5.8	6.2	8.1	6.6	5.5	7.9	7.2	2.9	8.1	5.9
Nov 3	5.9	5.2	5.2	9.2	10.3	9.2	8.2	8.2	12.2	12.2	11.6	10.8	14.8	15.8	15.1	11.9	10.5	8.9	8.6	10.7	12.8	11.5	8.9	8.2	5.2	15.8	10.2
Nov 4	9.9	9.9	10.8	5.5	6.7	5.6	7.7	6.6	8.7	6.0	6.4	4.3	6.6	4.0	1.1	3.4	3.2	1.8	3.6	0.8	2.6	2.1	3.9	5.9	0.8	10.8	5.3
Nov 5	3.7	3.9	3.4	2.6	1.9	2.8	5.6	5.9	4.0	4.5	3.6	10.3	8.2	7.4	7.8	8.8	8.0	7.7	9.9	11.3	7.6	10.7	11.3	13.8	1.9	13.8	6.9
Nov 6	16.4	15.5	20.1	20.7	20.1	19.1	19.7	18.7	17.1	15.7	12.6	16.6	16.7	21.3	26.1	20.9	16.4	20.0	21.5	25.1	25.6	24.9	**26.4**	23.6	12.6	**26.4**	**20.0**
Nov 7	24.0	18.5	6.8	1.3	3.0	3.6	2.1	1.6	0.6	2.4	5.3	3.2	3.0	4.6	5.5	6.7	5.8	7.9	12.7	16.2	18.3	15.6	10.9	10.3	0.6	24.0	7.9
Nov 8	9.7	8.8	6.7	6.5	6.7	3.8	5.6	4.4	6.3	4.4	8.5	9.1	14.6	15.6	13.2	13.1	14.7	12.5	10.0	9.0	9.2	13.1	12.7	12.1	3.8	15.6	9.6
Nov 9	7.3	7.9	6.5	5.9	6.1	4.5	2.7	3.6	4.0	3.0	6.5	10.5	9.6	11.1	9.9	12.4	8.9	9.6	4.8	10.1	8.4	8.3	5.0	5.2	2.7	12.4	7.2
Nov 10	6.7	3.6	4.2	4.4	5.4	4.5	6.1	3.7	5.8	4.0	5.7	6.1	7.6	7.8	6.0	3.2	1.0	3.5	4.4	7.5	7.6	5.1	4.2	4.4	1.0	7.8	5.1
Nov 11	4.6	5.0	4.8	4.4	5.7	5.7	5.6	6.1	5.5	6.1	6.3	4.8	5.7	5.3	5.9	5.0	5.1	2.6	3.0	3.4	3.5	5.5	9.9	13.7	2.6	13.7	5.6
Nov 12	16.0	14.7	11.2	12.0	14.8	10.0	8.0	7.5	5.0	4.4	3.4	5.2	5.1	6.6	5.6	1.9	0.4	1.5	1.9	1.5	2.0	2.6	0.9	0.7	0.4	16.0	6.0
Nov 13	2.1	4.0	4.8	4.7	4.0	3.9	4.2	5.8	3.7	8.3	8.7	8.0	11.1	13.0	11.5	14.9	14.0	14.5	12.0	11.0	7.0	8.2	9.5	9.4	2.1	14.9	8.3
Nov 14	7.9	8.1	7.8	6.4	5.9	6.1	5.2	3.0	3.5	4.3	3.8	3.7	2.6	0.8	1.9	0.3	5.5	2.4	0.9	2.2	2.7	2.1	0.3	**0.2**	**0.2**	8.1	3.7
Nov 15	2.2	5.5	7.7	6.9	5.9	8.8	11.0	9.2	10.2	11.5	10.1	8.6	11.0	9.8	8.5	12.6	9.9	10.6	7.9	8.9	8.4	10.5	11.6	11.2	2.2	12.6	9.1
Nov 16	12.9	11.0	15.2	15.1	16.7	18.6	20.0	20.4	17.7	23.0	18.6	14.4	14.8	18.5	18.7	19.1	19.6	19.2	16.3	14.6	12.5	11.6	12.2	11.8	11.0	23.0	16.4
Nov 17	12.7	11.3	10.1	12.3	12.3	10.2	7.6	13.1	14.8	16.8	17.3	16.6	13.2	14.3	12.1	13.7	8.6	6.9	5.4	6.7	7.4	6.4	7.2	5.8	5.4	17.3	11.0
Nov 18	6.4	5.4	4.9	5.3	5.9	7.4	7.2	7.3	6.0	6.0	7.5	6.4	6.6	6.8	6.0	5.2	6.8	5.9	5.5	5.7	6.0	5.2	5.3	7.4	4.9	7.5	6.2
Nov 19	7.6	8.2	9.0	8.2	9.1	10.6	10.4	9.2	10.4	11.0	10.1	12.7	12.7	11.1	11.0	9.8	9.6	8.4	8.7	9.2	9.7	9.0	6.6	7.0	6.6	12.7	9.6
Nov 20	7.1	6.7	5.7	9.7	9.3	11.8	10.9	9.1	9.8	9.9	8.9	9.1	10.2	12.6	12.7	11.0	10.9	10.9	10.4	9.7	10.3	9.5	7.2	8.0	5.7	12.7	9.6
Nov 21	7.0	7.8	6.0	6.1	5.0	5.4	5.5	4.8	7.5	8.0	5.3	4.1	5.2	6.0	5.9	5.7	4.9	5.2	6.4	4.4	3.5	2.9	1.9	2.0	1.9	8.0	5.3
Nov 22	2.4	2.5	1.9	3.9	4.1	2.4	2.9	2.8	3.7	3.5	2.3	1.6	0.4	3.2	1.4	6.6	5.0	5.4	6.7	6.6	8.4	6.5	8.0	8.7	0.4	8.7	4.2
Nov 23	9.7	10.5	9.1	9.7	9.8	8.9	8.8	9.1	11.0	10.0	7.5	10.4	10.2	11.5	11.3	8.3	8.8	9.1	9.4	8.7	8.3	6.3	5.0	4.0	4.0	11.5	9.0
Nov 24	1.9	2.4	0.5	1.2	2.2	4.0	2.4	2.2	2.1	2.8	2.7	3.4	1.7	5.1	5.8	2.9	2.1	1.0	2.1	3.3	4.8	3.5	3.4	2.1	0.5	5.8	2.7
Nov 25	3.1	2.6	2.9	2.1	2.4	4.2	6.0	4.4	3.1	4.3	4.0	6.6	12.5	15.0	15.0	10.8	6.2	6.5	8.0	10.3	9.9	13.1	9.7	8.9	2.1	15.0	7.2
Nov 26	11.7	10.9	10.4	6.5	9.2	10.6	10.5	10.7	9.2	8.7	5.7	7.6	6.9	5.0	3.7	2.0	6.4	7.5	8.3	4.1	5.2	4.4	4.8	5.7	2.0	11.7	7.3
Nov 27	2.8	3.3	5.0	5.4	5.8	5.5	7.0	5.7	4.7	4.9	6.3	7.7	9.1	6.8	7.7	6.1	4.6	2.0	2.6	4.2	6.2	4.2	3.4	6.1	2.0	9.1	5.3
Nov 28	4.3	5.4	5.8	6.2	4.7	5.2	2.8	2.8	4.9	4.3	6.8	6.0	6.4	5.8	7.9	7.9	8.1	9.5	7.7	8.4	7.2	6.3	6.8	8.2	2.8	9.5	6.2
Nov 29	8.8	7.9	7.9	5.9	7.5	7.2	9.1	8.8	8.0	10.1	10.8	11.1	11.7	8.9	7.5	8.4	6.4	7.2	6.1	6.4	6.4	5.1	4.4	3.4	3.4	11.7	7.7
Nov 30	4.4	2.1	1.5	1.9	1.0	1.6	1.4	1.6	0.8	1.4	3.6	4.5	5.7	6.1	6.9	5.7	2.3	1.3	0.9	0.5	0.5	1.2	1.3	1.3	0.5	6.9	**2.5**
Diurnal Maximum	24.0	18.5	20.1	20.7	20.1	19.1	20.0	20.4	17.7	23.0	18.6	16.6	16.7	21.3	26.1	20.9	19.6	20.0	21.5	25.1	25.6	24.9	26.4	23.6			
Diurnal Average	7.5	7.2	6.7	6.6	7.0	7.0	7.0	6.9	6.9	7.3	7.3	7.8	8.5	9.1	8.7	8.2	7.4	7.4	7.2	7.8	7.8	7.5	7.2	7.4			

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.



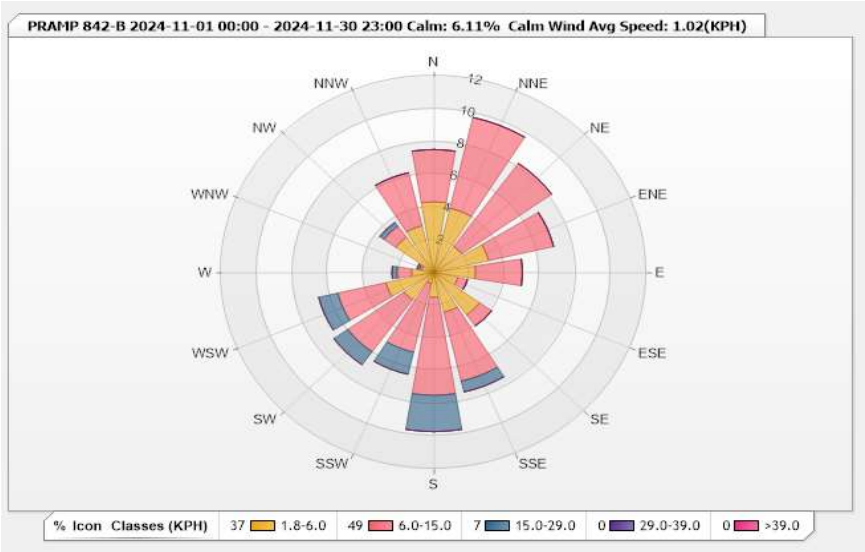


Station: PRAMP 842-B Monitor: WDS [KPH] Monthly: 11-2024

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

Calm (WS<1.8kph): 6.11% 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	4.31	3.19	0	0	0	7.5
NNE	4.03	5.69	0	0	0	9.72
NE	1.94	6.25	0	0	0	8.19
ENE	3.19	3.75	0	0	0	6.94
E	2.36	2.64	0	0	0	5
ESE	1.39	0.56	0	0	0	1.95
SE	3.19	0.83	0	0	0	4.02
SSE	2.5	4.31	0.69	0	0	7.5
S	1.53	5.97	2.22	0	0	9.72
SSW	0.69	4.31	1.39	0	0	6.39
SW	2.08	3.89	0.97	0	0	6.94
WSW	2.78	2.78	1.11	0	0	6.67
W	1.25	0.83	0.28	0	0	2.36
WNW	0.69	0.14	0.14	0	0	0.97
NW	2.64	0.83	0.28	0	0	3.75
NNW	2.92	3.33	0	0	0	6.25
Summary	37.49	49.3	7.08	0	0	93.87



Peace River Area Monitoring Program

842-B Station - November 2024

Summary of Hourly Averages

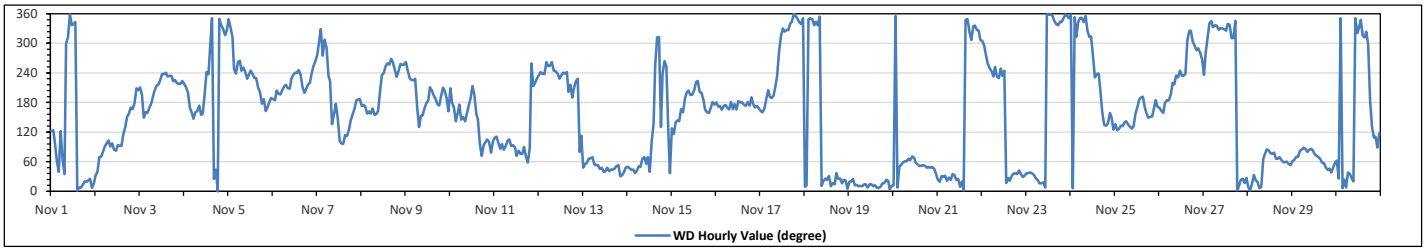
WIND DIRECTION (VWD) in sector

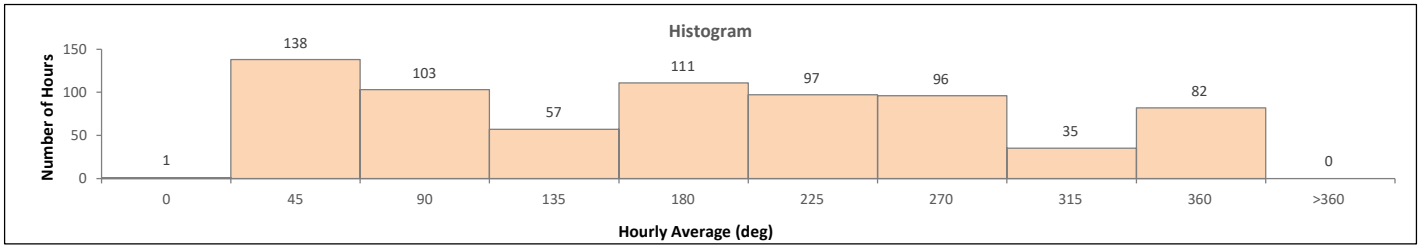
Monthly Average:	178 (S)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Nov 1	ESE	ESE	E	ENE	NE	ESE	ENE	NE	WNW	NW	N	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	NNE	NNE	N	NNE	15	NNE
Nov 2	NNE	NE	ENE	ENE	E	E	E	ESE	E	E	E	E	E	E	E	ESE	SE	SSE	SSE	SSE	SSE	S	SSW	SSW	114	ESE
Nov 3	SSW	SSW	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	215	SSW
Nov 4	SW	SSW	SSW	SSE	SSE	SE	SSE	SSE	S	SSE	SSE	SSW	WSW	SW	WNW	N	NNE	NE	N	N	NNW	NNW	NW	NW	194	SSW
Nov 5	NNW	NNW	NW	WSW	WSW	W	W	WSW	WSW	WSW	SW	SW	WSW	SW	SW	SW	SSW	SSW	S	S	SSE	SSE	S	S	215	SSW
Nov 6	S	S	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	W	221	SW
Nov 7	W	WNW	NNW	W	NW	WNW	SW	SW	SE	SSE	S	SE	E	E	E	ESE	ESE	SE	SE	SSE	SSE	S	S	S	182	S
Nov 8	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SW	WSW	WSW	WSW	WSW	W	W	WSW	SW	WSW	WSW	WSW	WSW	230	SW
Nov 9	W	WSW	SW	SW	SW	SW	S	SE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	S	S	S	S	SSW	SSW	S	SSE	198	SSW
Nov 10	SSW	S	SSE	SE	SSE	S	SE	SSE	SE	SSE	S	S	SSW	SSW	SSE	SE	E	ENE	E	E	ESE	E	ENE	E	149	SSE
Nov 11	ESE	ESE	E	E	E	E	E	ESE	ESE	E	E	E	ENE	E	ENE	ENE	E	ENE	ENE	E	WSW	SSW	SW	SW	106	ESE
Nov 12	SW	WSW	SW	SW	W	WSW	WSW	W	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	SSW	SW	S	SSW	SW	SW	E	ESE	242	WSW
Nov 13	NE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NE	NE	47	NE
Nov 14	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NE	ENE	NE	E	SE	WSW	NW	NW	SE	SW	W	WSW	ESE	NE	43	NE
Nov 15	SE	ESE	SE	SE	SE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	S	S	182	S
Nov 16	S	S	S	SSE	S	S	SSE	SSE	S	SSE	S	SSE	S	S	S	S	S	S	S	S	S	SSE	S	SSE	175	S
Nov 17	SSE	SSE	SSE	S	SSW	S	S	SSW	SSW	SW	W	NW	NNW	NW	NW	NW	NNW	NNW	N	N	N	NNW	NNW	N	273	W
Nov 18	N	NNE	NNW	N	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	9	N
Nov 19	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	NNE	N	NNE	NNE	N	NNE	N	N	N	NNE	NNE	NNE	NNE	N	NNE	13	NNE
Nov 20	NNE	N	N	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	51	NE
Nov 21	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	N	NNE	N	NNW	NNW	NW	NW	NNW	NNW	NW	NW	NW	9	N
Nov 22	WNW	WNW	W	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	SW	WSW	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE	6	N
Nov 23	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N	8	N
Nov 24	N	N	N	NW	NNW	N	N	NNW	N	NW	NW	NW	W	SW	SW	WSW	SSW	SSE	SE	SE	SE	SSE	SSE	SE	268	W
Nov 25	SE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S	163	SSE
Nov 26	SSE	SSE	SSE	S	S	S	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	NW	NW	NW	WNW	WNW	WNW	WNW	W	W	224	SW
Nov 27	SW	W	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	N	N	NNE	NNE	NNE	NNE	338	NNW
Nov 28	N	N	NNE	NNE	NNE	NNE	N	N	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	55	NE
Nov 29	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	ENE	70	ENE
Nov 30	ENE	NNE	N	N	NNE	N	NE	NE	NNE	NNE	N	NW	NNW	NNW	NW	NW	NW	WNW	S	SE	ESE	ESE	E	ESE	351	N

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 - November 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	26.4	kph	on Nov 6 at hr 22	Hours in Service:	720
Maximum Daily Value:	20.0	kph	on Nov 6	Hours of Data:	720
Minimum Hourly Value:	0.2	kph	on Nov 14 at hr 23	Hours of Missing Data:	0
Minimum Daily Value:	2.5	kph	on Nov 30	Hours of Calibration:	0
Monthly Average:	0.9	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 178 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			
Nov 1	2.8	2.9	1.1	0.9	1.0	2.1	2.0	1.3	0.5	0.6	2.4	4.0	5.6	6.1	5.3	4.8	4.7	5.5	4.9	5.3	4.5	3.6	4.0	4.7	0.5	6.1	3.4
	ESE	ESE	E	ENE	NE	ESE	ENE	NE	WNW	NW	N	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	NNE	NNE	N	NNE			15(NNE)
Nov 2	3.8	4.3	4.7	6.8	6.5	6.9	5.1	7.9	5.2	6.6	5.4	6.5	6.3	6.4	4.2	2.9	3.6	5.8	6.2	8.1	6.6	5.5	7.9	7.2	2.9	8.1	5.9
	NNE	NE	ENE	ENE	E	E	E	ESE	E	E	E	E	E	E	E	ESE	SE	SSE	SSE	SSE	SSE	S	SSW	SSW			114(ESE)
Nov 3	5.9	5.2	5.2	9.2	10.3	9.2	8.2	8.2	12.2	12.2	11.6	10.8	14.8	15.8	15.1	11.9	10.5	8.9	8.6	10.7	12.8	11.5	8.9	8.2	5.2	15.8	10.2
	SSW	SSW	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW			215(SSW)
Nov 4	9.9	9.9	10.8	5.5	6.7	5.6	7.7	6.6	8.7	6.0	6.4	4.3	6.6	4.0	1.1	3.4	3.2	1.8	3.6	0.8	2.6	2.1	3.9	5.9	0.8	10.8	5.3
	SW	SSW	SSW	SSE	SSE	SE	SSE	SSE	S	SSE	SSE	SSW	WSW	SW	WNW	N	NNE	NE	N	N	NNW	NNW	NW	NW			194(SSW)
Nov 5	3.7	3.9	3.4	2.6	1.9	2.8	5.6	5.9	4.0	4.5	3.6	10.3	8.2	7.4	7.8	8.8	8.0	7.7	9.9	11.3	7.6	10.7	11.3	13.8	1.9	13.8	6.9
	NNW	NNW	NW	WSW	WSW	W	W	WSW	WSW	WSW	SW	SW	WSW	SW	SW	SW	SSW	SSW	S	S	SSE	SSE	S	S			215(SSW)
Nov 6	16.4	15.5	20.1	20.7	20.1	19.1	19.7	18.7	17.1	15.7	12.6	16.6	16.7	21.3	26.1	20.9	16.4	20.0	21.5	25.1	25.6	24.9	**26.4**	23.6	12.6	**26.4**	**20.0**
	S	S	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	W			221(SW)
Nov 7	24.0	18.5	6.8	1.3	3.0	3.6	2.1	1.6	0.6	2.4	5.3	3.2	3.0	4.6	5.5	6.7	5.8	7.9	12.7	16.2	18.3	15.6	10.9	10.3	0.6	24.0	7.9
	W	WNW	NNW	W	NW	WNW	SW	SW	SE	SSE	S	SE	E	E	E	ESE	ESE	SE	SE	SSE	SSE	S	S	S			182(S)
Nov 8	9.7	8.8	6.7	6.5	6.7	3.8	5.6	4.4	6.3	4.4	8.5	9.1	14.6	15.6	13.2	13.1	14.7	12.5	10.0	9.0	9.2	13.1	12.7	12.1	3.8	15.6	9.6
	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SW	WSW	WSW	WSW	WSW	W	W	WSW	SW	WSW	WSW	WSW	WSW			230(SW)
Nov 9	7.3	7.9	6.5	5.9	6.1	4.5	2.7	3.6	4.0	3.0	6.5	10.5	9.6	11.1	9.9	12.4	8.9	9.6	4.8	10.1	8.4	8.3	5.0	5.2	2.7	12.4	7.2
	W	WSW	SW	SW	SW	SW	S	SE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	S	S	S	S	SSW	SSW	S	SSE			198(SSW)
Nov 10	6.7	3.6	4.2	4.4	5.4	4.5	6.1	3.7	5.8	4.0	5.7	6.1	7.6	7.8	6.0	3.2	1.0	3.5	4.4	7.5	7.6	5.1	4.2	4.4	1.0	7.8	5.1
	SSW	S	SSE	SE	SSE	S	SE	SSE	SE	SSE	S	S	SSW	SSW	SSE	SE	E	ENE	E	E	ESE	E	ENE	E			149(SSE)
Nov 11	4.6	5.0	4.8	4.4	5.7	5.7	5.6	6.1	5.5	6.1	6.3	4.8	5.7	5.3	5.9	5.0	5.1	2.6	3.0	3.4	3.5	5.5	9.9	13.7	2.6	13.7	5.6
	ESE	ESE	E	E	E	E	E	ESE	ESE	E	E	E	ENE	E	ENE	ENE	E	ENE	ENE	E	WSW	SSW	SW	SW			106(ESE)
Nov 12	16.0	14.7	11.2	12.0	14.8	10.0	8.0	7.5	5.0	4.4	3.4	5.2	5.1	6.6	5.6	1.9	0.4	1.5	1.9	1.5	2.0	2.6	0.9	0.7	0.4	16.0	6.0
	SW	WSW	SW	SW	W	WSW	WSW	W	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	SSW	SW	S	SSW	SW	SW	E	ESE			242(WSW)
Nov 13	2.1	4.0	4.8	4.7	4.0	3.9	4.2	5.8	3.7	8.3	8.7	8.0	11.1	13.0	11.5	14.9	14.0	14.5	12.0	11.0	7.0	8.2	9.5	9.4	2.1	14.9	8.3
	NE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NE	NE			47(NE)
Nov 14	7.9	8.1	7.8	6.4	5.9	6.1	5.2	3.0	3.5	4.3	3.8	3.7	2.6	0.8	1.9	0.3	5.5	2.4	0.9	2.2	2.7	2.1	0.3	**0.2**	**0.2**	8.1	3.7
	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NE	ENE	NE	E	SE	WSW	NW	NW	SE	SW	W	WSW	ESE	NE			43(NE)
Nov 15	2.2	5.5	7.7	6.9	5.9	8.8	11.0	9.2	10.2	11.5	10.1	8.6	11.0	9.8	8.5	12.6	9.9	10.6	7.9	8.9	8.4	10.5	11.6	11.2	2.2	12.6	9.1
	SE	ESE	SE	SE	SE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	S	S			182(S)
Nov 16	12.9	11.0	15.2	15.1	16.7	18.6	20.0	20.4	17.7	23.0	18.6	14.4	14.8	18.5	18.7	19.1	19.6	19.2	16.3	14.6	12.5	11.6	12.2	11.8	11.0	23.0	16.4
	S	S	S	SSE	S	S	SSE	SSE	S	SSE	S	SSE	S	S	S	S	S	S	S	S	S	SSE	S	SSE			175(S)
Nov 17	12.7	11.3	10.1	12.3	12.3	10.2	7.6	13.1	14.8	16.8	17.3	16.6	13.2	14.3	12.1	13.7	8.6	6.9	5.4	6.7	7.4	6.4	7.2	5.8	5.4	17.3	11.0
	SSE	SSE	SSE	S	SSW	S	S	SSW	SSW	SW	W	NW	NNW	NW	NW	NW	NNW	NNW	N	N	N	NNW	NNW	N			273(W)
Nov 18	6.4	5.4	4.9	5.3	5.9	7.4	7.2	7.3	6.0	6.0	7.5	6.4	6.6	6.8	6.0	5.2	6.8	5.9	5.5	5.7	6.0	5.2	5.3	7.4	4.9	7.5	6.2
	N	NNE	NNW	N	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N			9(N)
Nov 19	7.6	8.2	9.0	8.2	9.1	10.6	10.4	9.2	10.4	11.0	10.1	12.7	12.7	11.1	11.0	9.8	9.6	8.4	8.7	9.2	9.7	9.0	6.6	7.0	6.6	12.7	9.6
	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	NNE	N	NNE	NNE	N	NNE	N	N	N	NNE	NNE	NNE	NNE	N	NNE			13(NNE)
Nov 20	7.1	6.7	5.7	9.7	9.3	11.8	10.9	9.1	9.8	9.9	8.9	9.1	10.2	12.6	12.7	11.0	10.9	10.9	10.4	9.7	10.3	9.5	7.2	8.0	5.7	12.7	9.6
	NNE	N	N	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE			51(NE)
Nov 21	7.0	7.8	6.0	6.1	5.0	5.4	5.5	4.8	7.5	8.0	5.3	4.1	5.2	6.0	5.9	5.7	4.9	5.2	6.4	4.4	3.5	2.9	1.9	2.0	1.9	8.0	5.3
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	N	NNE	N	NNW	NNW	NW	NW	NNW	NNW	NNW	NW	NW			9(N)
Nov 22	2.4	2.5	1.9	3.9	4.1	2.4	2.9	2.8	3.7	3.5	2.3	1.6	0.4	3.2	1.4	6.6	5.0	5.4	6.7	6.6	8.4	6.5	8.0	8.7	0.4	8.7	4.2
	WNW	WNW	W	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	SW	WSW	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE			6(N)
Nov 23	9.7	10.5	9.1	9.7	9.8	8.9	8.8	9.1	11.0	10.0	7.5	10.4	10.2	11.5	11.3	8.3	8.8	9.1	9.4	8.7	8.3	6.3	5.0	4.0	4.0	11.5	9.0
	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N			8(N)
Nov 24	1.9	2.4	0.5	1.2	2.2	4.0	2.4	2.2	2.1	2.8	2.7	3.4	1.7	5.1	5.8	2.9	2.1	1.0	2.1	3.3	4.8	3.5	3.4	2.1	0.5	5.8	2.7
	N	N	N	NW	NNW	N	N	NNW	N	NW	NW	NW	W	SW	SW	WSW	SSW	SSE	SE	SE	SE	SSE	SSE	SE			268(W)
Nov 25	3.1	2.6	2.9	2.1	2.4	4.2	6.0	4.4	3.1	4.3	4.0	6.6	12.5	15.0	15.0	10.8	6.2	6.5	8.0	10.3	9.9	13.1	9.7	8.9	2.1	15.0	7.2
	SE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S			163(SSE)
Nov 26	11.7	10.9	10.4	6.5	9.2	10.6	10.5	10.7	9.2	8.7	5.7	7.6	6.9	5.0	3.7	2.0	6.4	7.5	8.3	4.1	5.2	4.4	4.8	5.7	2.0	11.7	7.3
	SSE	SSE	SSE	S	S	S	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	NW	NW	NW	WNW	WNW	WNW	WNW	W	W			224(SW)
Nov 27	2.8	3.3	5.0	5.4	5.8	5.5	7.0	5.7	4.7	4.9	6.3	7.7	9.1	6.8	7.7	6.1	4.6	2.0	2.6	4.2	6.2	4.2	3.4	6.1	2.0	9.1	5.3
	SW	W	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	N	N	NNE	NNE	NNE	NNE			338(NNW)
Nov 28	4.3	5.4	5.8	6.2	4.7	5.2	2.8	2.8	4.9	4.3	6.8	6.0	6.4	5.8	7.9	7.9	8.1	9.5	7.7	8.4	7.2	6.3	6.8	8.2	2.8	9.5	6.2
	N	N	NNE	NNE	NNE	NNE	N	N	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE			55(NE)
Nov 29	8.8	7.9	7.9	5.9	7.5	7.2	9.1	8.8	8.0	10.1	10.8	11.1	11.7	8.9	7.5	8.4	6.4	7.2	6.1	6.4	6.4	5.1	4.4	3.4	3.4	11.7	7.7
	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	ENE			70(ENE)
Nov 30	4.4	2.1	1.5	1.9	1.0	1.6	1.4	1.6	0.8	1.4	3.6	4.5	5.7	6.1	6.9	5.7	2.3	1.3	0.9	0.5	0.5	1.2	1.3	1.3	0.5	6.9	**2.5**
	ENE	NNE	N	N	NNE	N	NE	NE	NNE	NNE	N	NW	NNW	NNW	NW	NW	NW	WNW	S	SE	ESE	ESE	E	ESE			351(N)

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 - November 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

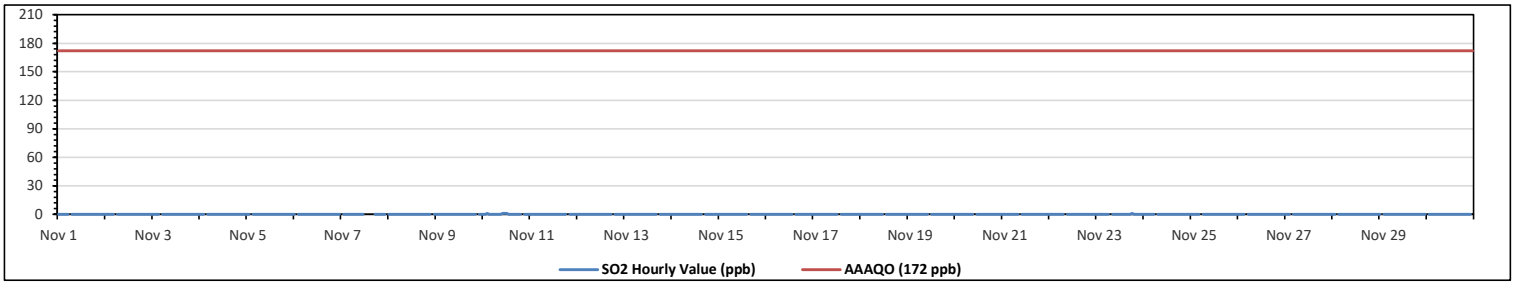
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

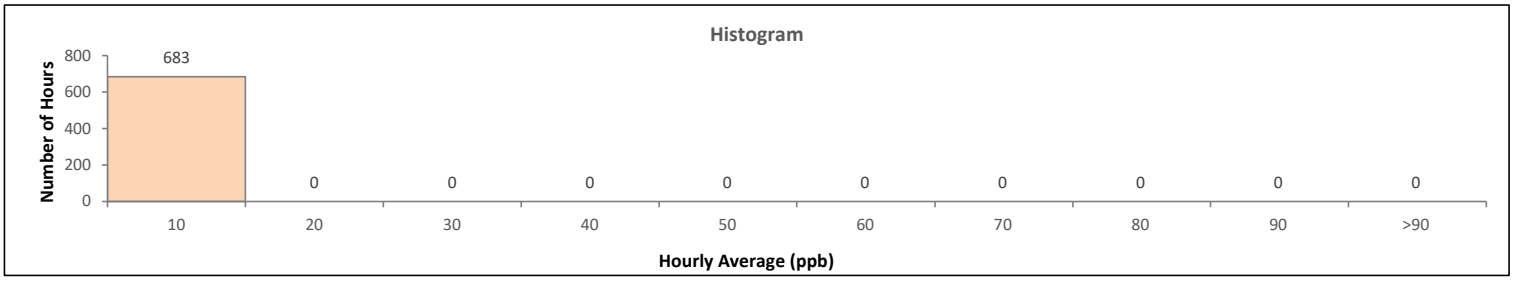
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Nov 10 at hr 2	Hours in Service:	720	
Maximum Daily Value:	0.2	ppb	on Nov 10	Hours of Data:	683	
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Nov 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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	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
Nov 5	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
Nov 6	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
Nov 7	S	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	S	0	0	NA
Nov 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Nov 9	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
Nov 10	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	S	0	0	0	0	1	0.2
Nov 11	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
Nov 12	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
Nov 13	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
Nov 14	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
Nov 15	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
Nov 16	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
Nov 17	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
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	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
Nov 23	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.0
Nov 24	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
Nov 25	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
Nov 26	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
Nov 27	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
Nov 28	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
Nov 29	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
Nov 30	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
Diurnal Maximum	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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.



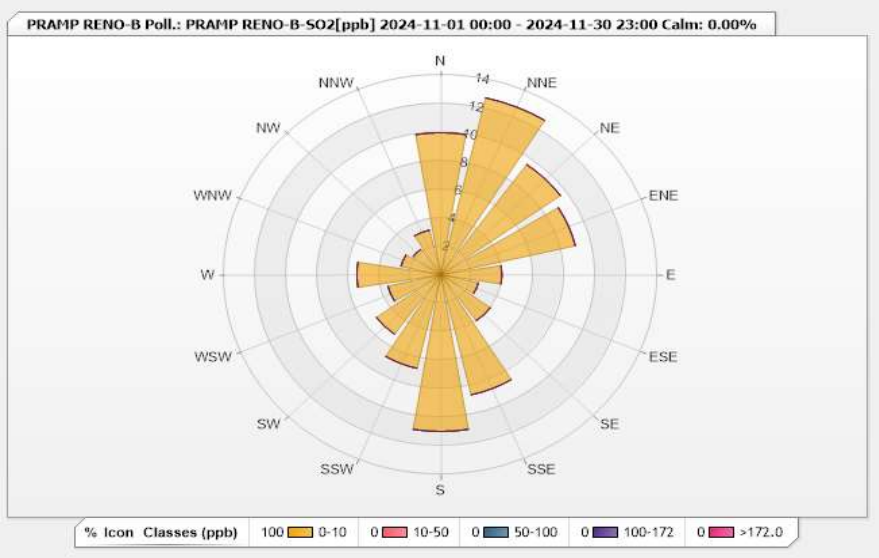


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-SO2[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	9.96	0	0	0	0	9.96
NNE	12.74	0	0	0	0	12.74
NE	9.52	0	0	0	0	9.52
ENE	8.93	0	0	0	0	8.93
E	3.95	0	0	0	0	3.95
ESE	2.49	0	0	0	0	2.49
SE	3.95	0	0	0	0	3.95
SSE	8.64	0	0	0	0	8.64
S	10.98	0	0	0	0	10.98
SSW	6.73	0	0	0	0	6.73
SW	5.12	0	0	0	0	5.12
WSW	3.51	0	0	0	0	3.51
W	5.42	0	0	0	0	5.42
WNW	2.64	0	0	0	0	2.64
NW	2.2	0	0	0	0	2.2
NNW	3.22	0	0	0	0	3.22
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

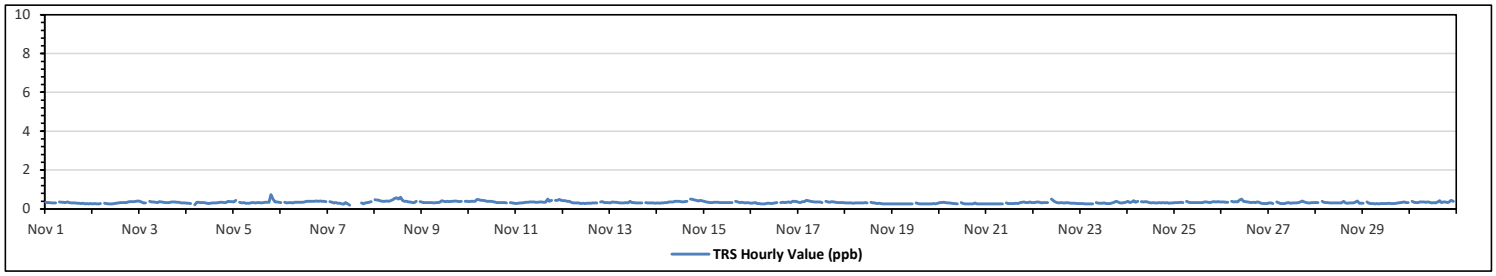
TOTAL REDUCED SULPHUR (TRS) in ppb

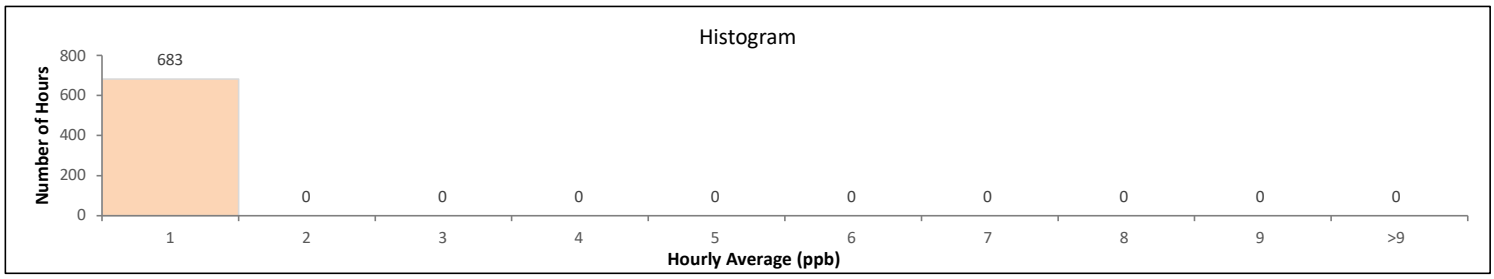
Maximum Hourly Value:	0.74	ppb	on Nov 5 at hr 19	Hours in Service:	720	
Maximum Daily Value:	0.43	ppb	on Nov 8	Hours of Data:	683	
Minimum Hourly Value:	0.19	ppb	on Nov 7 at hr 11	Hours of Missing Data:	0	
Minimum Daily Value:	0.27	ppb	on Nov 19	Hours of Calibration:	37	
Monthly Average:	0.33	ppb		Operational 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			
Nov 1	0.34	0.32	0.32	0.31	0.31	0.31	S	0.35	0.34	0.34	0.33	0.35	0.33	0.31	0.3	0.3	0.29	0.29	0.28	0.29	0.27	0.28	0.27	0.28	0.27	0.35	0.31
Nov 2	0.27	0.28	0.27	0.27	0.28	S	0.29	0.28	0.27	0.27	0.27	0.28	0.29	0.31	0.33	0.32	0.32	0.33	0.36	0.37	0.37	0.37	0.38	0.41	0.27	0.41	0.31
Nov 3	0.38	0.34	0.31	0.31	S	0.38	0.36	0.36	0.34	0.33	0.37	0.36	0.34	0.32	0.33	0.33	0.35	0.35	0.35	0.34	0.34	0.31	0.31	0.3	0.30	0.38	0.34
Nov 4	0.29	0.29	0.28	S	0.22	0.34	0.34	0.32	0.32	0.33	0.29	0.28	0.29	0.3	0.3	0.3	0.33	0.34	0.34	0.32	0.32	0.4	0.37	0.37	0.22	0.40	0.32
Nov 5	0.36	0.44	S	0.34	0.31	0.32	0.29	0.29	0.29	0.32	0.32	0.31	0.32	0.32	0.31	0.33	0.34	0.34	0.34	**0.74**	0.49	0.35	0.36	0.34	0.29	**0.74**	0.36
Nov 6	0.32	S	0.34	0.3	0.33	0.32	0.31	0.34	0.34	0.34	0.34	0.34	0.35	0.38	0.38	0.38	0.39	0.4	0.41	0.39	0.41	0.4	0.39	0.37	0.30	0.41	0.36
Nov 7	S	0.37	0.34	0.31	0.32	0.29	0.29	0.27	0.24	0.32	0.25	0.19	C	C	C	C	C	0.3	0.25	0.31	0.33	0.34	0.37	S	0.19	0.37	NA
Nov 8	0.47	0.46	0.45	0.41	0.39	0.39	0.41	0.38	0.42	0.47	0.54	0.56	0.51	0.6	0.45	0.39	0.4	0.36	0.36	0.33	0.33	0.38	S	0.37	0.33	0.60	**0.43**
Nov 9	0.34	0.32	0.33	0.33	0.32	0.32	0.31	0.32	0.33	0.34	0.42	0.38	0.37	0.38	0.37	0.38	0.4	0.41	0.39	0.37	0.39	S	0.4	0.4	0.31	0.42	0.36
Nov 10	0.37	0.38	0.38	0.38	0.48	0.47	0.44	0.44	0.42	0.39	0.38	0.38	0.37	0.35	0.33	0.32	0.33	0.32	0.32	0.31	S	0.33	0.3	0.29	0.29	0.48	0.37
Nov 11	0.28	0.29	0.3	0.31	0.33	0.34	0.34	0.35	0.35	0.35	0.34	0.34	0.35	0.35	0.34	0.34	0.5	0.38	0.43	S	0.44	0.45	0.48	0.43	0.28	0.50	0.37
Nov 12	0.42	0.42	0.4	0.38	0.34	0.3	0.3	0.3	0.3	0.28	0.29	0.28	0.29	0.29	0.29	0.3	0.3	0.3	S	0.36	0.37	0.32	0.33	0.32	0.28	0.42	0.33
Nov 13	0.31	0.35	0.34	0.34	0.33	0.31	0.31	0.3	0.32	0.31	0.4	0.33	0.32	0.31	0.3	0.31	0.31	S	0.33	0.31	0.31	0.3	0.3	0.29	0.29	0.40	0.32
Nov 14	0.31	0.29	0.3	0.3	0.32	0.33	0.35	0.36	0.35	0.38	0.4	0.38	0.37	0.36	0.37	0.38	S	0.5	0.48	0.46	0.45	0.41	0.43	0.41	0.29	0.50	0.38
Nov 15	0.39	0.36	0.34	0.32	0.33	0.34	0.34	0.34	0.33	0.32	0.32	0.33	0.32	0.32	0.33	S	0.38	0.35	0.33	0.34	0.32	0.3	0.32	0.3	0.30	0.39	0.33
Nov 16	0.29	0.3	0.32	0.28	0.28	0.27	0.26	0.27	0.29	0.29	0.28	0.29	0.31	0.32	S	0.33	0.34	0.33	0.34	0.36	0.33	0.39	0.4	0.37	0.26	0.40	0.31
Nov 17	0.34	0.33	0.37	0.37	0.44	0.42	0.38	0.37	0.36	0.36	0.35	0.35	0.33	S	0.38	0.36	0.34	0.37	0.35	0.34	0.33	0.33	0.33	0.32	0.32	0.44	0.36
Nov 18	0.31	0.3	0.31	0.3	0.29	0.31	0.31	0.3	0.3	0.31	0.32	0.3	S	0.34	0.31	0.3	0.28	0.29	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.34	0.30
Nov 19	0.26	0.27	0.26	0.26	0.26	0.27	0.27	0.26	0.27	0.27	0.27	S	0.31	0.28	0.27	0.27	0.26	0.27	0.27	0.27	0.27	0.28	0.27	0.29	0.26	0.31	0.27
Nov 20	0.33	0.33	0.34	0.32	0.31	0.3	0.29	0.28	0.28	0.27	S	0.33	0.28	0.27	0.26	0.27	0.26	0.26	0.31	0.26	0.27	0.27	0.26	0.27	0.26	0.34	0.29
Nov 21	0.27	0.26	0.26	0.26	0.26	0.25	0.26	0.26	0.26	S	0.31	0.28	0.28	0.28	0.28	0.29	0.28	0.32	0.34	0.36	0.33	0.33	0.35	0.33	0.25	0.36	0.29
Nov 22	0.33	0.34	0.35	0.34	0.3	0.33	0.32	0.32	S	0.5	0.42	0.36	0.33	0.31	0.32	0.31	0.31	0.32	0.31	0.29	0.29	0.29	0.28	0.28	0.28	0.50	0.33
Nov 23	0.28	0.28	0.27	0.27	0.27	0.27	0.27	S	0.33	0.29	0.29	0.29	0.3	0.28	0.28	0.28	0.3	0.34	0.38	0.35	0.31	0.31	0.32	0.34	0.27	0.38	0.30
Nov 24	0.4	0.33	0.36	0.42	0.34	0.39	S	0.37	0.35	0.37	0.36	0.32	0.31	0.32	0.3	0.3	0.32	0.31	0.33	0.3	0.32	0.29	0.3	0.31	0.29	0.42	0.34
Nov 25	0.33	0.33	0.33	0.34	0.32	S	0.39	0.34	0.32	0.33	0.33	0.32	0.33	0.33	0.33	0.35	0.35	0.34	0.33	0.35	0.37	0.36	0.37	0.35	0.32	0.39	0.34
Nov 26	0.35	0.35	0.34	0.34	S	0.39	0.35	0.37	0.36	0.46	0.51	0.39	0.37	0.35	0.34	0.33	0.34	0.33	0.35	0.34	0.29	0.28	0.28	0.28	0.28	0.51	0.35
Nov 27	0.31	0.3	0.28	S	0.35	0.3	0.28	0.28	0.28	0.31	0.33	0.29	0.31	0.31	0.3	0.32	0.35	0.41	0.35	0.33	0.31	0.31	0.32	0.32	0.28	0.41	0.32
Nov 28	0.32	0.33	S	0.39	0.34	0.33	0.33	0.31	0.31	0.3	0.31	0.31	0.31	0.31	0.39	0.3	0.29	0.3	0.3	0.3	0.34	0.41	0.29	0.29	0.29	0.41	0.32
Nov 29	0.29	S	0.35	0.29	0.28	0.28	0.27	0.28	0.27	0.28	0.28	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.31	0.33	0.34	0.35	0.32	0.32	0.27	0.35	0.30
Nov 30	S	0.4	0.34	0.33	0.33	0.35	0.36	0.35	0.34	0.35	0.34	0.3	0.32	0.31	0.36	0.42	0.33	0.35	0.35	0.33	0.36	0.43	0.4	S	0.30	0.43	0.35
Diurnal Maximum	0.47	0.46	0.45	0.42	0.48	0.47	0.44	0.44	0.42	0.50	0.54	0.56	0.51	0.60	0.45	0.42	0.50	0.50	0.48	0.74	0.49	0.45	0.48	0.43			
Diurnal Average	0.33	0.33	0.33	0.33	0.32	0.33	0.32	0.32	0.32	0.34	0.34	0.33	0.33	0.33	0.33	0.32	0.33	0.34	0.34	0.35	0.34	0.34	0.34	0.33			

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 - November 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:	0.84 ppb	on Nov 5 at 19:00	# of Instrument in Service	1440	
Maximum Daily Value:	0.43 ppb	on Nov 8	# of Valid Measurements	1367	
Minimum 30-Minute Value:	0.14 ppb	Nov 7 at 12:00	# of Missing Measurements:	0	
Minimum Daily Value:	0.27 ppb	on Nov 19	# of Calibration:	73	
Monthly Average:	0.33 ppb		Operational Uptime:	100.0	

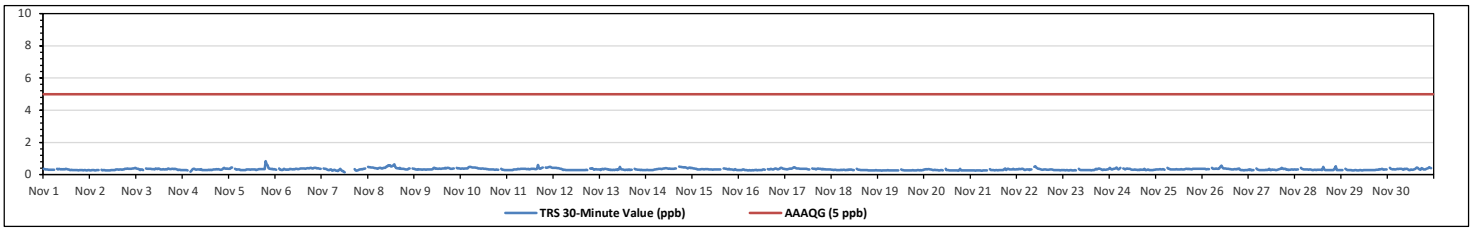
30-Minute Period Starting at (MST)

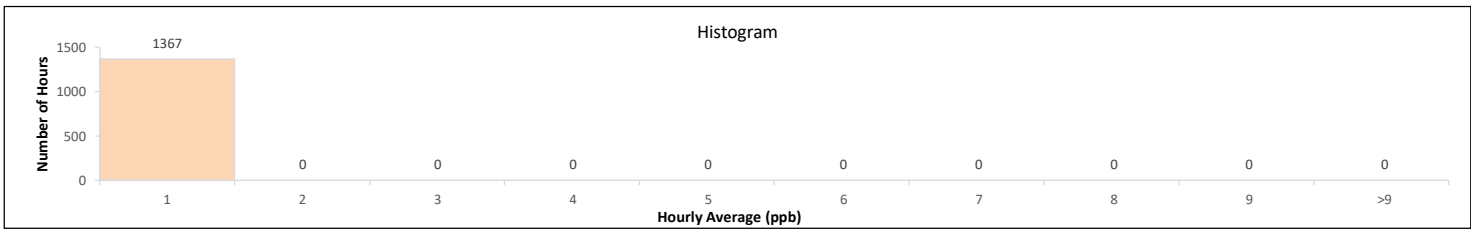
Day	Nov 1	Nov 2	Nov 3	Nov 4	Nov 5	Nov 6	Nov 7	Nov 8	Nov 9	Nov 10	Nov 11	Nov 12	Nov 13	Nov 14	Nov 15	Nov 16	Nov 17	Nov 18	Nov 19	Nov 20	Nov 21	Nov 22	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Diurnal Maximum	Diurnal Average
00:00	0.35	0.27	0.39	0.29	0.37	0.33	S	0.48	0.36	0.36	0.28	0.42	0.33	0.3	0.4	0.3	0.34	0.31	0.26	0.33	0.27	0.34	0.29	0.41	0.32	0.35	0.32	0.32	0.29	S	0.48	0.34
00:30	0.34	0.27	0.36	0.3	0.36	0.31	S	0.46	0.33	0.38	0.29	0.42	0.3	0.31	0.39	0.29	0.34	0.31	0.26	0.33	0.27	0.32	0.28	0.39	0.33	0.35	0.29	0.31	0.29	S	0.46	0.33
01:00	0.33	0.28	0.36	0.29	0.44	S	0.38	0.46	0.33	0.38	0.29	0.43	0.34	0.3	0.38	0.3	0.33	0.29	0.27	0.34	0.26	0.35	0.27	0.33	0.32	0.35	0.32	0.32	S	0.42	0.46	0.34
01:30	0.32	0.28	0.33	0.29	0.44	S	0.37	0.45	0.31	0.37	0.3	0.41	0.35	0.29	0.35	0.3	0.34	0.31	0.27	0.33	0.26	0.34	0.28	0.33	0.33	0.35	0.27	0.33	S	0.37	0.45	0.33
02:00	0.33	0.28	0.3	0.28	S	0.38	0.35	0.45	0.34	0.38	0.3	0.4	0.33	0.29	0.35	0.32	0.35	0.31	0.25	0.34	0.26	0.34	0.28	0.35	0.34	0.33	0.29	S	0.37	0.34	0.45	0.33
02:30	0.31	0.27	0.32	0.27	S	0.31	0.34	0.45	0.32	0.38	0.3	0.4	0.35	0.3	0.33	0.32	0.39	0.3	0.26	0.34	0.25	0.35	0.26	0.37	0.33	0.34	0.28	S	0.32	0.33	0.45	0.32
03:00	0.31	0.27	0.32	S	0.35	0.31	0.31	0.41	0.33	0.38	0.3	0.39	0.35	0.29	0.32	0.28	0.36	0.3	0.27	0.32	0.26	0.36	0.27	0.39	0.33	0.34	S	0.42	0.3	0.34	0.42	0.33
03:30	0.31	0.28	0.3	S	0.34	0.3	0.3	0.4	0.32	0.39	0.32	0.36	0.34	0.3	0.32	0.28	0.38	0.3	0.26	0.32	0.26	0.32	0.28	0.45	0.34	0.34	S	0.36	0.29	0.32	0.45	0.32
04:00	0.31	0.28	S	0.19	0.31	0.31	0.3	0.4	0.31	0.47	0.33	0.35	0.34	0.31	0.33	0.29	0.41	0.3	0.27	0.31	0.26	0.3	0.28	0.35	0.33	S	0.38	0.34	0.29	0.32	0.47	0.32
04:30	0.31	0.28	S	0.25	0.32	0.35	0.33	0.39	0.33	0.49	0.33	0.33	0.31	0.32	0.34	0.26	0.46	0.29	0.26	0.3	0.27	0.31	0.27	0.33	0.31	S	0.33	0.33	0.28	0.34	0.49	0.32
05:00	0.31	S	0.39	0.32	0.32	0.33	0.32	0.37	0.32	0.48	0.33	0.3	0.32	0.33	0.34	0.26	0.45	0.31	0.28	0.3	0.26	0.33	0.27	0.37	S	0.42	0.31	0.33	0.28	0.36	0.48	0.33
05:30	0.31	S	0.36	0.36	0.32	0.31	0.25	0.4	0.32	0.47	0.35	0.31	0.3	0.34	0.34	0.28	0.4	0.3	0.26	0.31	0.25	0.32	0.27	0.41	S	0.37	0.3	0.33	0.27	0.34	0.47	0.33
06:00	S	0.31	0.37	0.35	0.29	0.32	0.27	0.41	0.31	0.45	0.34	0.31	0.31	0.34	0.33	0.26	0.39	0.31	0.27	0.29	0.25	0.33	0.28	S	0.41	0.35	0.29	0.33	0.27	0.36	0.45	0.33
06:30	S	0.27	0.36	0.32	0.29	0.31	0.31	0.41	0.32	0.44	0.34	0.3	0.3	0.35	0.34	0.26	0.38	0.31	0.27	0.28	0.26	0.3	0.27	S	0.36	0.35	0.28	0.32	0.27	0.36	0.44	0.32
07:00	0.36	0.28	0.37	0.31	0.29	0.33	0.28	0.38	0.32	0.44	0.35	0.3	0.31	0.36	0.34	0.28	0.38	0.3	0.26	0.28	0.26	0.32	S	0.39	0.35	0.38	0.29	0.31	0.28	0.36	0.44	0.33
07:30	0.33	0.29	0.35	0.32	0.3	0.35	0.25	0.38	0.32	0.44	0.35	0.3	0.3	0.36	0.34	0.27	0.37	0.3	0.26	0.27	0.26	0.32	S	0.35	0.33	0.37	0.28	0.32	0.28	0.34	0.44	0.32
08:00	0.35	0.27	0.34	0.32	0.3	0.34	0.25	0.41	0.32	0.42	0.35	0.29	0.31	0.34	0.34	0.28	0.36	0.31	0.26	0.27	0.26	S	0.35	0.33	0.32	0.36	0.28	0.32	0.26	0.31	0.42	0.32
08:30	0.34	0.27	0.34	0.33	0.29	0.34	0.23	0.43	0.33	0.43	0.35	0.3	0.32	0.37	0.32	0.3	0.36	0.29	0.27	0.28	0.26	S	0.31	0.36	0.32	0.37	0.28	0.31	0.27	0.37	0.43	0.32
09:00	0.33	0.26	0.34	0.31	0.32	0.33	0.29	0.43	0.33	0.39	0.35	0.28	0.3	0.38	0.32	0.31	0.37	0.32	0.26	0.28	S	0.48	0.28	0.38	0.33	0.41	0.31	0.3	0.27	0.34	0.48	0.33
09:30	0.34	0.27	0.32	0.34	0.32	0.34	0.35	0.51	0.34	0.39	0.35	0.28	0.33	0.38	0.32	0.27	0.36	0.31	0.27	0.27	S	0.53	0.29	0.36	0.32	0.51	0.3	0.3	0.29	0.36	0.53	0.34
10:00	0.33	0.27	0.38	0.3	0.32	0.33	0.28	0.51	0.41	0.38	0.34	0.29	0.32	0.4	0.32	0.28	0.35	0.32	0.27	S	0.34	0.45	0.3	0.37	0.33	0.57	0.31	0.31	0.28	0.36	0.57	0.35
10:30	0.34	0.27	0.35	0.28	0.32	0.35	0.23	0.58	0.42	0.37	0.34	0.29	0.49	0.4	0.31	0.29	0.35	0.31	0.27	S	0.29	0.4	0.29	0.36	0.34	0.45	0.35	0.31	0.27	0.32	0.58	0.34
11:00	0.32	0.28	0.34	0.28	0.31	0.35	0.22	0.54	0.37	0.38	0.35	0.29	0.34	0.38	0.33	0.29	0.35	0.3	S	0.35	0.28	0.35	0.29	0.33	0.32	0.39	0.3	0.3	0.27	0.3	0.54	0.33
11:30	0.37	0.28	0.39	0.28	0.32	0.34	0.16	0.59	0.38	0.38	0.32	0.28	0.32	0.37	0.33	0.29	0.34	0.3	S	0.3	0.29	0.36	0.29	0.31	0.32	0.38	0.29	0.31	0.28	0.3	0.59	0.33
12:00	0.34	0.29	0.37	0.28	0.32	0.34	**0.14**	0.51	0.36	0.36	0.34	0.3	0.32	0.38	0.33	0.3	0.33	S	0.32	0.28	0.28	0.34	0.3	0.31	0.33	0.38	0.32	0.31	0.28	0.33	0.51	0.32
12:30	0.33	0.29	0.32	0.29	0.32	0.36	C	0.52	0.37	0.37	0.35	0.28	0.31	0.36	0.32	0.32	0.33	S	0.3	0.29	0.27	0.33	0.3	0.31	0.33	0.36	0.31	0.31	0.28	0.31	0.52	0.33
13:00	0.32	0.3	0.32	0.29	0.32	0.38	C	0.57	0.38	0.36	0.35	0.3	0.3	0.36	0.32	0.33	S	0.36	0.28	0.27	0.29	0.31	0.29	0.32	0.34	0.35	0.31	0.31	0.29	0.31	0.57	0.33
13:30	0.3	0.32	0.33	0.31	0.32	0.38	C	0.63	0.37	0.34	0.36	0.29	0.31	0.36	0.32	0.31	S	0.33	0.27	0.27	0.28	0.31	0.28	0.31	0.33	0.35	0.31	0.31	0.29	0.32	0.63	0.33
14:00	0.28	0.33	0.34	0.3	0.3	0.38	C	0.49	0.36	0.34	0.35	0.29	0.31	0.37	0.33	S	0.39	0.31	0.26	0.26	0.27	0.32	0.29	0.31	0.33	0.34	0.29	0.3	0.28	0.34	0.49	0.32
14:30	0.31	0.32	0.33	0.31	0.31	0.39	C	0.4	0.38	0.33	0.34	0.29	0.3	0.36	0.33	S	0.37	0.31	0.27	0.27	0.29	0.32	0.27	0.3	0.33	0.34	0.3	0.48	0.28	0.38	0.48	0.33
15:00	0.3	0.31	0.33	0.3	0.32	0.39	C	0.4	0.38	0.32	0.34	0.3	0.32	0.38	S	0.34	0.35	0.3	0.27	0.27	0.3	0.32	0.28	0.31	0.34	0.33	0.31	0.32	0.28	0.44	0.44	0.33
15:30	0.3	0.32	0.34	0.31	0.34	0.37	C	0.39	0.39	0.32	0.35	0.3	0.3	0.39	S	0.33	0.37	0.3	0.26	0.27	0.28	0.31	0.28	0.29	0.36	0.33	0.33	0.29	0.29	0.41	0.41	0.33
16:00	0.3	0.32	0.33	0.33	0.34	0.38	C	0.39	0.41	0.33	0.61	0.29	0.31	S	0.38	0.33	0.33	0.28	0.26	0.26	0.29	0.31	0.28	0.32	0.35	0.33	0.34	0.29	0.28	0.35	0.61	0.33
16:30	0.28	0.31	0.38	0.32	0.34	0.4	C	0.42	0.39	0.32	0.4	0.3	0.31	S	0.39	0.35	0.35	0.28	0.26	0.26	0.28	0.31	0.33	0.31	0.34	0.34	0.36	0.28	0.29	0.32	0.42	0.33
17:00	0.29	0.33	0.36	0.33	0.34	0.4	0.34	0.36	0.41	0.32	0.37	0.31	S	0.51	0.36	0.34	0.38	0.29	0.26	0.26	0.29	0.33	0.35	0.31	0.35	0.34	0.43	0.29	0.28	0.31	0.51	0.34
17:30	0.28	0.33	0.34	0.34	0.34	0.39	0.27	0.36	0.41	0.31	0.39	0.29	S	0.48	0.35	0.33	0.35	0.29	0.27	0.25	0.34	0.32	0.33	0.31	0.34	0.32	0.39	0.3	0.29	0.4	0.48	0.33
18:00	0.27	0.36	0.34	0.33	0.34	0.41	0.25	0.36	0.4	0.31	0.43	S	0.35	0.49	0.34	0.32	0.35	0.28	0.28	0.26	0.38	0.32	0.37	0.36	0.34	0.36	0.34	0.3	0.31	0.38	0.49	0.34
18:30	0.3	0.35	0.36	0.34	0.34	0.41	0.26	0.35	0.37	0.32	0.44	S	0.32	0.47	0.32	0.37	0.35	0.28	0.26	0.35	0.3	0.31	0.39	0.29	0.33	0.34	0.35	0.3	0.31	0.32	0.47	0.34
19:00	0.3	0.36	0.35	0.33	**0.84**	0.39	0.29	0.34	0.37	0.31	S	0.38	0.32	0.47	0.35	0.38	0.33	0.27	0.27	0.26	0.36	0.29	0.37	0.29	0.35	0.38	0.35	0.3	0.31	0.32	0.84	0.35
19:30	0.28	0.38	0.34	0.31	0.65	0.39	0.33	0.33	0.37	0.31	S	0.35	0.31	0.45	0.33	0.35	0.35	0.27	0.27	0.26	0.36	0.29	0.34	0.31	0.35	0.31	0.31	0.29	0.34	0.33	0.65	0.34
20:00	0.28	0.37	0.35	0.31	0.58	0.41	0.33	0.33	0.38	S	0.45	0.4	0.31	0.46	0.32	0.33	0.33	0.27	0.27	0.26	0.33	0.29	0.31	0.33	0.36	0.29	0.32	0.3	0.33	0.35	0.58	0.34
20:30	0.26	0.36	0.34	0.33	0.4	0.41	0.34	0.33	0.39	S	0.43	0.35	0.31	0.44	0.32	0.34	0.34	0.27	0.28	0.27	0.32	0.28	0.3	0.3	0.37	0.29	0.3	0.37	0.34	0.38	0.44	0.34
21:00	0.28	0.37	0.32	0.38	0.35	0.41	0.33	0.39	S	0.36	0.44	0.31	0.3	0.42	0.31	0.35	0.33	0.27	0.28	0.27	0.32	0.29	0.32	0.29	0.37	0.28	0.31	0.52	0.36	0.4	0.52	0.34
21:30	0.28	0.37	0.3	0.42	0.35	0.39	0.35	0.38	S	0.31	0.46	0.33	0.31	0.39	0.28	0.43	0.32	0.27	0.27	0.27	0.33	0.29	0.31	0.3	0.36	0.27	0.31	0.3	0.33	0.46	0.46	0.34
22:00	0.27	0.38	0.31	0.39	0.34	0.4	0.36	S	0.42	0.31	0.48	0.34	0.3	0.42	0.34	0.41	0.33	0.27	0.28	0.26	0.37	0.29	0.31	0.3	0.37	0.28	0.32	0.29	0.31	0.41	0.48	0.34
22:30	0.27	0.38	0.31	0.36	0.37	0.38	0.39	S	0.38	0.29	0.48	0.32	0.29	0.45	0.31	0.4	0.33	0.27	0.27	0.27	0.32	0.27	0.33	0.3	0.37	0.28	0.32	0.29	0.33	0.4	0.48	0.34
23:00	0.29	0.4	0.3	0.39	0.33	0.37	S	0.39	0.4	0.29	0.45	0.33	0.29	0.4	0.3	0.37	0.32	0.28	0.28	0.27	0.32	0.28	0.32	0.31	0.35	0.28	0.31	0.29	0.32	S	0.45	0.33
23:30	0.28	0.42	0.29	0.36	0.34	0.37	S	0.36	0.39	0.29	0.42	0.32	0.29	0.41	0.29	0.37	0.33	0.26	0.3	0.27	0.33	0.28	0.35	0.31	0.35	0.29	0.32	0.29	0.32	S	0.42	0.33
Minimum	0.26	0.26	0.29	0.19	0.29	0.3	0.14	0.33	0.31	0.29	0.28	0.28	0.29	0.29	0.28	0.26	0.32	0.26	0.25	0.25	0.25	0.27	0.26	0.29	0.31	0.27	0.27	0.28	0.26	0.3		
Maximum	0.37	0.42	0.39	0.42	**0.84**	0.41	0.39	0.63	0.42	0.49	0.61	0.43	0.49	0.51	0.4	0.43	0.46	0.36	0.32	0.35	0.38	0.53	0.39	0.45	0.41	0.57	0.43	0.52	0.37	0.46		
Average	0.3	0.3	0.3	0.3	0.4	0.4	NA	**0.4**	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4		

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.



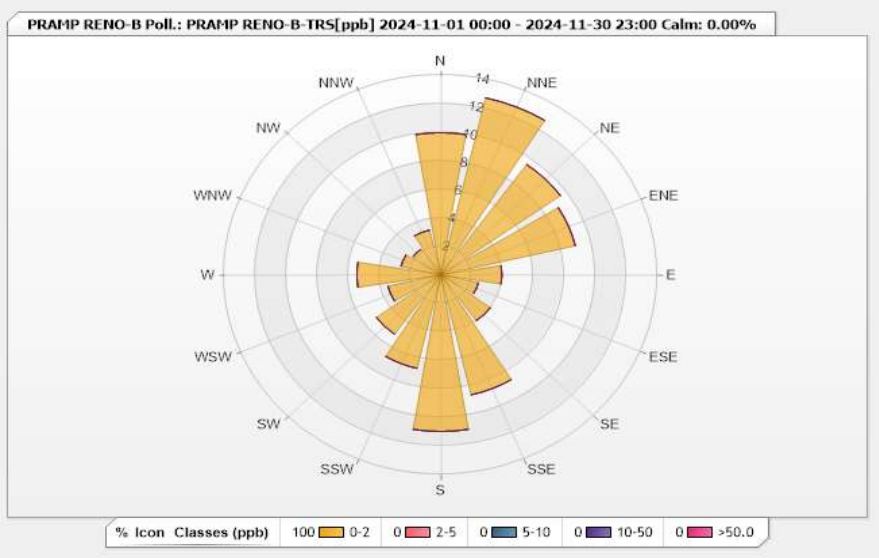


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-TRS[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	9.96	0	0	0	0	9.96
NNE	12.74	0	0	0	0	12.74
NE	9.52	0	0	0	0	9.52
ENE	8.93	0	0	0	0	8.93
E	3.95	0	0	0	0	3.95
ESE	2.49	0	0	0	0	2.49
SE	3.95	0	0	0	0	3.95
SSE	8.64	0	0	0	0	8.64
S	10.98	0	0	0	0	10.98
SSW	6.73	0	0	0	0	6.73
SW	5.12	0	0	0	0	5.12
WSW	3.51	0	0	0	0	3.51
W	5.42	0	0	0	0	5.42
WNW	2.64	0	0	0	0	2.64
NW	2.2	0	0	0	0	2.2
NNW	3.22	0	0	0	0	3.22
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

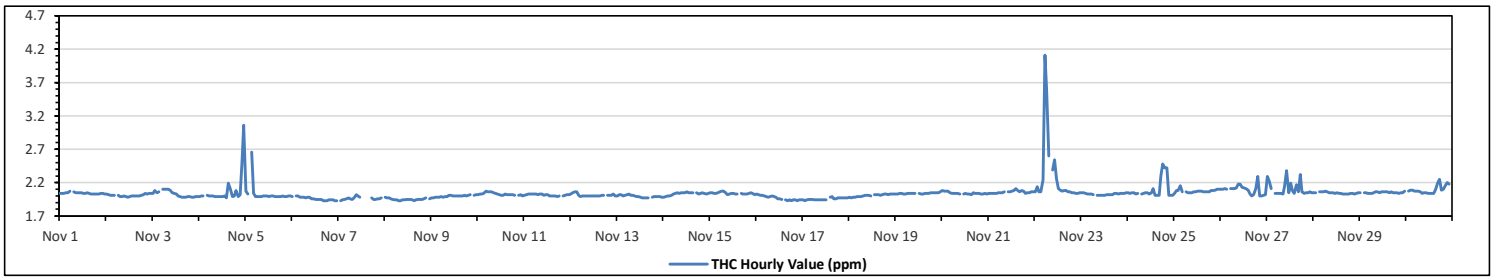
TOTAL HYDROCARBONS (THC) in ppm

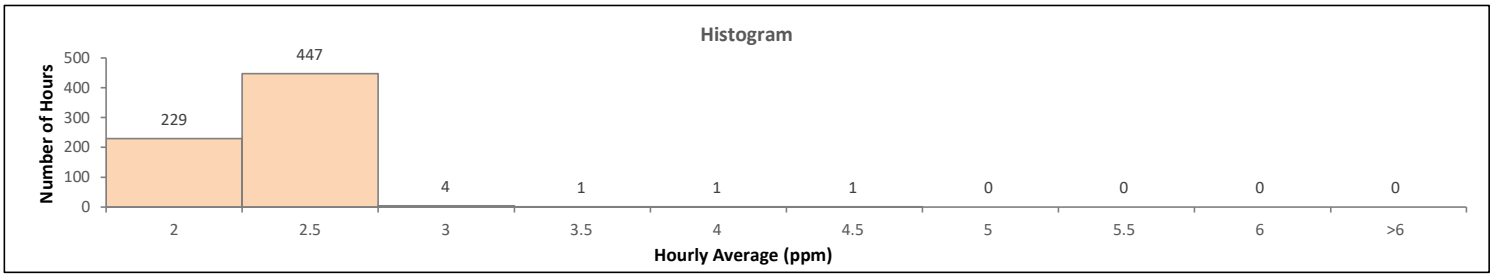
Maximum Hourly Value:	4.11	ppm	on Nov 22 at hr 5	Hours in Service:	720
Maximum Daily Value:	2.30	ppm	on Nov 22	Hours of Data:	683
Minimum Hourly Value:	1.93	ppm	on Nov 6 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	1.95	ppm	on Nov 8	Hours of Calibration:	37
Monthly Average:	2.04	ppm		Operational 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			
Nov 1	2.04	2.04	2.04	2.05	2.05	2.07	S	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.03	2.03	2.07	2.04
Nov 2	2.03	2.02	2.01	2.01	2.01	S	2.01	1.99	1.99	2.00	1.99	1.98	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.02	2.04	2.03	2.04	2.04	1.98	2.04	2.01
Nov 3	2.04	2.08	2.05	2.06	S	2.10	2.10	2.10	2.10	2.08	2.05	2.04	2.03	2.00	1.99	1.98	1.98	1.98	1.99	1.99	1.98	1.98	1.99	1.99	1.98	2.10	2.03
Nov 4	1.99	2.00	2.00	S	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	1.97	2.19	2.11	1.99	2.00	2.08	1.99	2.02	2.53	3.06	1.97	3.06	2.08
Nov 5	2.07	2.03	S	2.66	2.04	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.00	2.00	1.99	1.99	1.99	1.99	2.00	1.99	1.99	2.00	2.00	1.99	2.66	2.03
Nov 6	1.99	S	2.00	2.00	1.98	1.98	1.98	1.97	1.98	1.98	1.96	1.96	1.95	1.95	1.95	1.95	1.93	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	2.00	1.96
Nov 7	S	1.93	1.94	1.95	1.96	1.97	1.96	1.95	1.97	2.02	2.00	1.98	C	C	C	C	C	1.97	1.95	1.95	1.96	1.96	1.97	S	1.93	2.02	NA
Nov 8	1.98	1.97	1.97	1.96	1.95	1.94	1.94	1.93	1.93	1.94	1.94	1.95	1.95	1.95	1.94	1.93	1.94	1.95	1.95	1.95	1.96	1.97	S	1.96	1.93	1.98	1.95
Nov 9	1.97	1.97	1.98	1.98	1.98	1.99	1.98	1.99	1.99	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.01	2.02	S	2.01	2.02	1.97	2.02	2.00
Nov 10	2.02	2.03	2.03	2.04	2.07	2.06	2.06	2.06	2.05	2.04	2.03	2.02	2.01	2.01	2.03	2.02	2.02	2.02	2.02	2.01	S	2.01	2.02	2.00	2.00	2.07	2.03
Nov 11	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.03	2.01	2.02	2.02	2.00	2.00	2.00	2.00	1.99	2.00	S	2.00	2.01	2.02	2.02	1.99	2.03	2.02
Nov 12	2.03	2.05	2.06	2.06	2.01	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	S	2.01	2.01	2.01	2.03	2.00	1.99	2.06	2.01
Nov 13	2.00	2.02	2.02	2.00	2.01	2.02	2.03	2.01	2.01	2.00	1.99	1.99	1.98	1.97	1.97	1.97	1.97	S	1.98	1.99	1.99	1.99	1.99	1.98	1.97	2.03	1.99
Nov 14	1.98	1.99	2.00	2.00	2.01	2.03	2.04	2.05	2.04	2.05	2.05	2.05	2.06	2.05	2.05	2.05	S	2.05	2.03	2.04	2.05	2.04	2.03	2.04	1.98	2.06	2.03
Nov 15	2.05	2.05	2.04	2.04	2.05	2.06	2.07	2.07	2.05	2.02	2.03	2.04	2.04	2.03	2.03	S	2.04	2.03	2.03	2.03	2.04	2.05	2.04	2.02	2.02	2.07	2.04
Nov 16	2.03	2.02	2.01	2.01	2.00	1.99	1.98	1.99	2.00	1.99	1.98	1.96	1.96	1.95	S	1.94	1.93	1.94	1.93	1.94	1.94	1.93	1.94	1.94	1.93	2.03	1.97
Nov 17	1.94	1.93	1.94	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.98	1.99	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.93	1.99	1.95
Nov 18	1.98	1.97	1.98	1.98	1.99	1.99	1.99	2.00	2.01	2.01	2.01	2.00	S	2.02	2.02	2.02	2.01	2.02	2.03	2.03	2.02	2.03	2.03	2.03	1.97	2.03	2.01
Nov 19	2.03	2.03	2.04	2.04	2.03	2.03	2.04	2.04	2.04	2.04	2.04	S	2.04	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.06	2.03	2.06	2.04
Nov 20	2.08	2.07	2.07	2.07	2.05	2.04	2.04	2.04	2.04	2.03	S	2.03	2.04	2.03	2.03	2.02	2.05	2.04	2.04	2.04	2.03	2.03	2.04	2.03	2.02	2.08	2.04
Nov 21	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.06	S	2.06	2.06	2.07	2.08	2.11	2.08	2.06	2.08	2.07	2.04	2.05	2.05	2.06	2.06	2.04	2.11	2.06
Nov 22	2.06	2.14	2.06	2.06	2.24	**4.11**	3.62	2.60	S	2.39	2.54	2.26	2.11	2.09	2.07	2.08	2.08	2.06	2.06	2.05	2.05	2.04	2.04	2.05	2.04	**4.11**	**2.30**
Nov 23	2.05	2.05	2.04	2.03	2.03	2.03	2.02	S	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.04	2.04	2.03	2.04	2.04	2.04	2.05	2.01	2.05	2.03
Nov 24	2.05	2.04	2.05	2.05	2.03	2.04	S	2.03	2.04	2.05	2.05	2.03	2.05	2.11	2.01	2.01	2.01	2.29	2.48	2.42	2.42	2.01	2.01	2.01	2.01	2.48	2.10
Nov 25	2.04	2.08	2.08	2.15	2.06	S	2.06	2.05	2.05	2.05	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.08	2.08	2.09	2.10	2.10	2.04	2.15	2.07
Nov 26	2.10	2.10	2.11	2.10	S	2.11	2.11	2.11	2.12	2.18	2.18	2.13	2.12	2.11	2.09	2.03	2.00	2.02	2.11	2.29	2.00	2.00	2.01	2.02	2.00	2.29	2.09
Nov 27	2.29	2.22	2.11	S	2.04	2.04	2.04	2.04	2.03	2.15	2.38	2.05	2.19	2.08	2.04	2.17	2.06	2.32	2.06	2.04	2.05	2.05	2.06	2.05	2.03	2.38	2.11
Nov 28	2.05	2.05	S	2.06	2.06	2.06	2.07	2.06	2.05	2.05	2.05	2.04	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.03	2.04	2.05	2.03	2.07	2.05
Nov 29	2.05	S	2.05	2.05	2.04	2.04	2.04	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.06	2.05	2.06	2.05	2.05	2.05	2.04	2.05	2.05	2.07	2.04	2.07	2.05
Nov 30	S	2.07	2.09	2.09	2.07	2.07	2.07	2.06	2.04	2.05	2.05	2.04	2.04	2.04	2.04	2.10	2.19	2.25	2.09	2.10	2.15	2.20	2.18	S	2.04	2.25	2.09
Diurnal Maximum	2.29	2.22	2.11	2.66	2.24	4.11	3.62	2.60	2.12	2.39	2.54	2.26	2.19	2.11	2.11	2.19	2.19	2.32	2.48	2.42	2.42	2.20	2.53	3.06			
Diurnal Average	2.04	2.04	2.03	2.05	2.03	2.10	2.08	2.04	2.02	2.04	2.05	2.03	2.03	2.03	2.02	2.03	2.02	2.04	2.03	2.04	2.03	2.02	2.04	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.



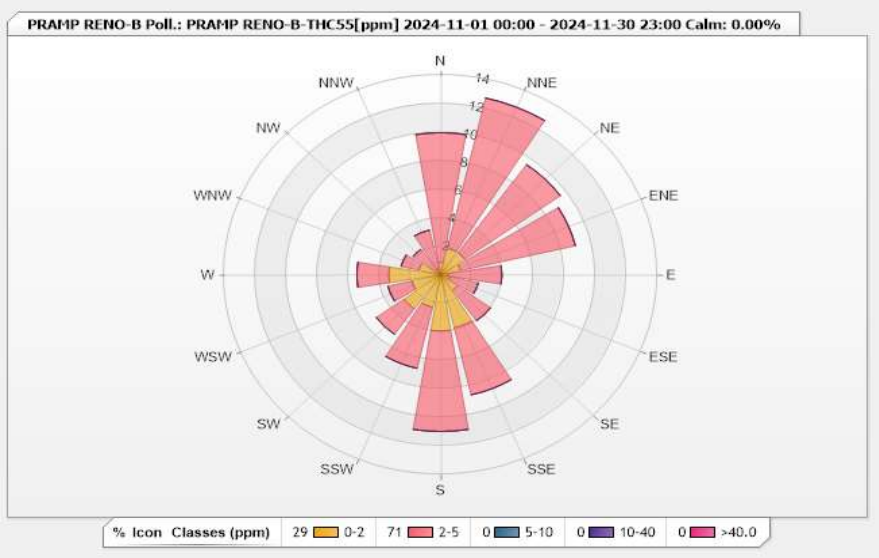


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-THC55[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.88	9.08	0	0	0	9.96
NNE	1.9	10.83	0	0	0	12.73
NE	1.9	7.61	0	0	0	9.51
ENE	1.32	7.61	0	0	0	8.93
E	0.44	3.51	0	0	0	3.95
ESE	0.59	1.9	0	0	0	2.49
SE	1.32	2.64	0	0	0	3.96
SSE	3.81	4.83	0	0	0	8.64
S	3.95	7.03	0	0	0	10.98
SSW	2.34	4.39	0	0	0	6.73
SW	2.93	2.2	0	0	0	5.13
WSW	1.9	1.61	0	0	0	3.51
W	3.37	2.05	0	0	0	5.42
WNW	1.46	1.17	0	0	0	2.63
NW	0.15	2.05	0	0	0	2.2
NNW	0.44	2.78	0	0	0	3.22
Summary	28.7	71.29	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

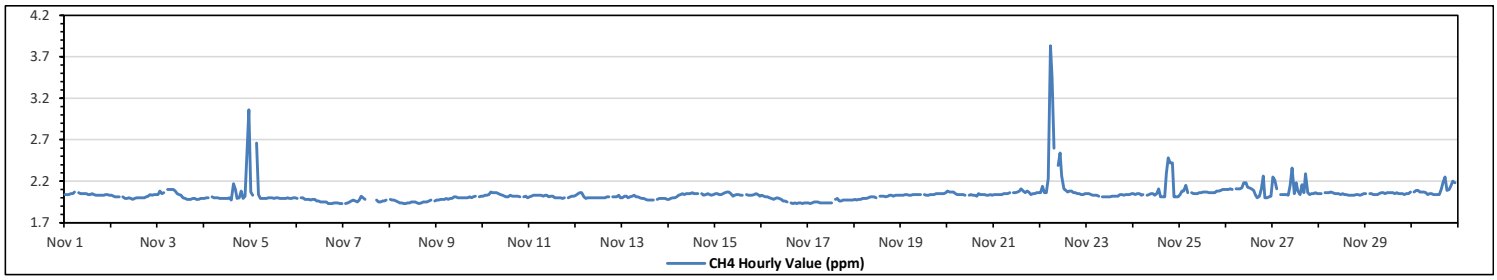
METHANE (CH4) in ppm

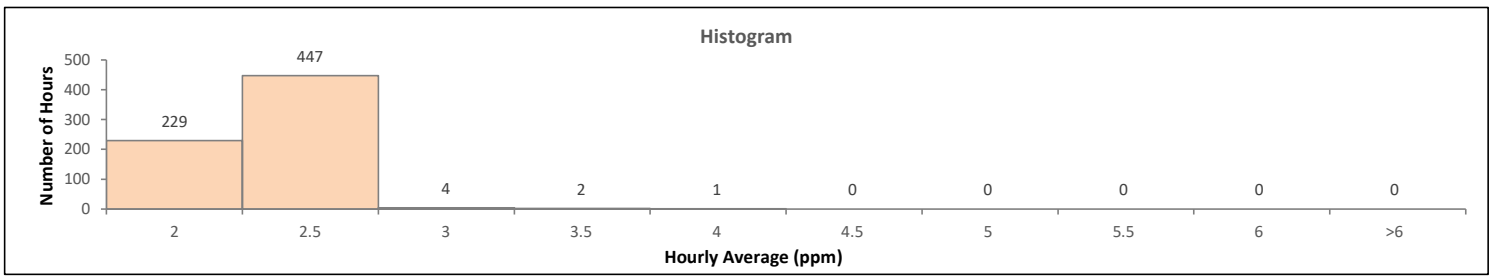
Maximum Hourly Value:	3.83	ppm	on Nov 22 at hr 5	Hours in Service:	720
Maximum Daily Value:	2.28	ppm	on Nov 22	Hours of Data:	683
Minimum Hourly Value:	1.93	ppm	on Nov 6 at hr 16	Hours of Missing Data:	0
Minimum Daily Value:	1.95	ppm	on Nov 8	Hours of Calibration:	37
Monthly Average:	2.04	ppm		Operational 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			
Nov 1	2.04	2.04	2.04	2.05	2.05	2.07	S	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.03	2.03	2.07	2.04
Nov 2	2.03	2.02	2.01	2.01	2.01	S	2.01	1.99	1.99	2.00	1.99	1.98	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.02	2.04	2.03	2.04	2.04	1.98	2.04	2.01
Nov 3	2.04	2.08	2.05	2.06	S	2.10	2.10	2.10	2.10	2.08	2.05	2.04	2.03	2.00	1.99	1.98	1.98	1.98	1.99	1.99	1.98	1.98	1.99	1.99	1.98	2.10	2.03
Nov 4	1.99	2.00	2.00	S	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	1.97	2.17	2.10	1.99	2.00	2.08	1.99	2.02	2.53	3.06	1.97	3.06	2.08
Nov 5	2.07	2.03	S	2.66	2.04	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.00	2.00	1.99	1.99	1.99	1.99	2.00	1.99	1.99	2.00	2.00	1.99	2.66	2.03
Nov 6	1.99	S	2.00	2.00	1.98	1.98	1.98	1.97	1.98	1.98	1.96	1.96	1.95	1.95	1.95	1.95	1.93	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	2.00	1.96
Nov 7	S	1.93	1.94	1.95	1.96	1.97	1.96	1.95	1.97	2.02	2.00	1.98	C	C	C	C	C	1.97	1.95	1.95	1.96	1.96	1.97	S	1.93	2.02	NA
Nov 8	1.98	1.97	1.97	1.96	1.95	1.94	1.94	1.93	1.93	1.94	1.94	1.95	1.95	1.95	1.94	1.93	1.94	1.95	1.95	1.95	1.96	1.97	S	1.96	1.93	1.98	1.95
Nov 9	1.97	1.97	1.98	1.98	1.98	1.99	1.98	1.99	1.99	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.01	2.02	S	2.01	2.02	1.97	2.02	2.00
Nov 10	2.02	2.03	2.03	2.04	2.07	2.06	2.06	2.06	2.05	2.04	2.03	2.02	2.01	2.01	2.03	2.02	2.02	2.02	2.02	2.01	S	2.01	2.02	2.00	2.00	2.07	2.03
Nov 11	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.03	2.01	2.02	2.02	2.00	2.00	2.00	2.00	1.99	2.00	S	2.00	2.01	2.02	2.02	1.99	2.03	2.02
Nov 12	2.03	2.05	2.06	2.06	2.01	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	S	2.01	2.01	2.01	2.03	2.00	1.99	2.06	2.01
Nov 13	2.00	2.02	2.02	2.00	2.01	2.02	2.03	2.01	2.01	2.00	1.99	1.99	1.98	1.97	1.97	1.97	1.97	S	1.98	1.99	1.99	1.99	1.99	1.98	1.97	2.03	1.99
Nov 14	1.98	1.99	2.00	2.00	2.01	2.03	2.04	2.05	2.04	2.05	2.05	2.05	2.06	2.05	2.05	2.05	S	2.05	2.03	2.04	2.05	2.04	2.03	2.04	1.98	2.06	2.03
Nov 15	2.05	2.05	2.04	2.04	2.05	2.06	2.07	2.07	2.05	2.02	2.03	2.04	2.04	2.03	2.03	S	2.04	2.03	2.03	2.03	2.04	2.05	2.04	2.02	2.02	2.07	2.04
Nov 16	2.03	2.02	2.01	2.01	2.00	1.99	1.98	1.99	2.00	1.99	1.98	1.96	1.96	1.95	S	1.94	1.93	1.94	1.93	1.94	1.94	1.93	1.94	1.94	1.93	2.03	1.97
Nov 17	1.94	1.93	1.94	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.98	1.99	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.93	1.99	1.95
Nov 18	1.98	1.97	1.98	1.98	1.99	1.99	1.99	2.00	2.01	2.01	2.01	2.00	S	2.02	2.02	2.02	2.01	2.02	2.03	2.03	2.02	2.03	2.03	2.03	1.97	2.03	2.01
Nov 19	2.03	2.03	2.04	2.04	2.03	2.03	2.04	2.04	2.04	2.04	2.04	S	2.04	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.06	2.03	2.06	2.04
Nov 20	2.08	2.07	2.07	2.07	2.05	2.04	2.04	2.04	2.04	2.03	S	2.03	2.04	2.03	2.03	2.02	2.05	2.04	2.04	2.04	2.03	2.03	2.04	2.03	2.02	2.08	2.04
Nov 21	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.06	S	2.06	2.06	2.07	2.08	2.11	2.08	2.06	2.08	2.07	2.04	2.05	2.05	2.06	2.06	2.04	2.11	2.06
Nov 22	2.06	2.14	2.06	2.06	2.23	3.83	3.44	2.60	S	2.39	2.54	2.26	2.11	2.09	2.07	2.08	2.08	2.06	2.06	2.05	2.05	2.04	2.04	2.05	2.04	**3.83**	**2.28**
Nov 23	2.05	2.05	2.04	2.03	2.03	2.03	2.02	S	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.04	2.04	2.03	2.04	2.04	2.04	2.05	2.01	2.05	2.03
Nov 24	2.05	2.04	2.05	2.05	2.03	2.04	S	2.03	2.04	2.05	2.05	2.03	2.05	2.11	2.01	2.01	2.01	2.29	2.48	2.42	2.42	2.01	2.01	2.01	2.01	2.48	2.10
Nov 25	2.04	2.08	2.08	2.15	2.06	S	2.06	2.05	2.05	2.05	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.08	2.08	2.09	2.10	2.10	2.04	2.15	2.07
Nov 26	2.10	2.10	2.11	2.10	S	2.11	2.11	2.11	2.12	2.18	2.18	2.13	2.12	2.11	2.09	2.03	2.00	2.02	2.11	2.26	2.00	2.00	2.01	2.02	2.00	2.26	2.09
Nov 27	2.25	2.21	2.11	S	2.04	2.04	2.04	2.04	2.03	2.15	2.36	2.05	2.18	2.08	2.04	2.16	2.06	2.29	2.06	2.04	2.05	2.05	2.06	2.05	2.03	2.36	2.11
Nov 28	2.05	2.05	S	2.06	2.06	2.06	2.07	2.06	2.05	2.05	2.05	2.04	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.03	2.04	2.05	2.03	2.07	2.05
Nov 29	2.05	S	2.05	2.05	2.04	2.04	2.04	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.06	2.05	2.06	2.05	2.05	2.05	2.04	2.05	2.05	2.07	2.04	2.07	2.05
Nov 30	S	2.07	2.09	2.09	2.07	2.07	2.07	2.06	2.04	2.05	2.05	2.04	2.04	2.04	2.04	2.10	2.19	2.25	2.09	2.10	2.15	2.20	2.18	S	2.04	2.25	2.09
Diurnal Maximum	2.25	2.21	2.11	2.66	2.23	3.83	3.44	2.60	2.12	2.39	2.54	2.26	2.18	2.11	2.11	2.17	2.19	2.29	2.48	2.42	2.42	2.20	2.53	3.06			
Diurnal Average	2.03	2.04	2.03	2.05	2.03	2.09	2.07	2.04	2.02	2.04	2.05	2.03	2.03	2.03	2.02	2.03	2.02	2.04	2.03	2.04	2.03	2.02	2.04	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.



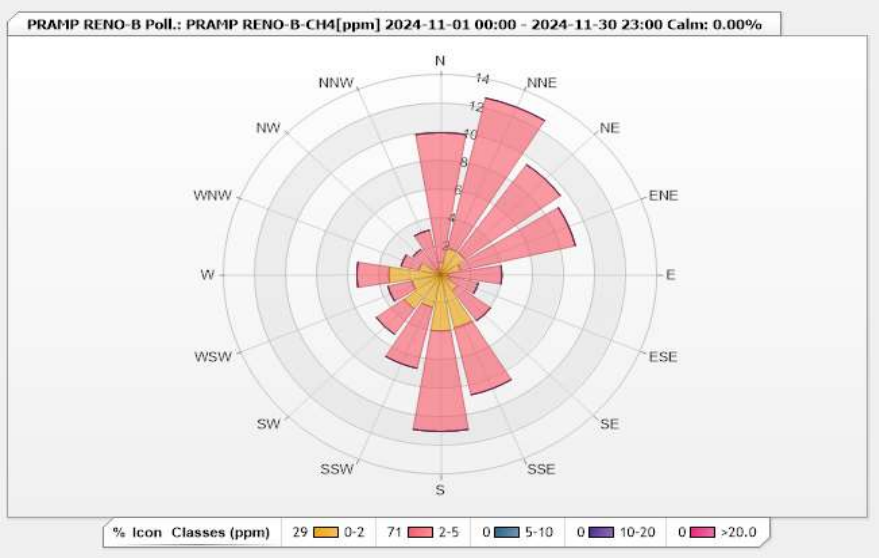


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-CH4[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.88	9.08	0	0	0	9.96
NNE	1.9	10.83	0	0	0	12.73
NE	1.9	7.61	0	0	0	9.51
ENE	1.32	7.61	0	0	0	8.93
E	0.44	3.51	0	0	0	3.95
ESE	0.59	1.9	0	0	0	2.49
SE	1.32	2.64	0	0	0	3.96
SSE	3.81	4.83	0	0	0	8.64
S	3.95	7.03	0	0	0	10.98
SSW	2.34	4.39	0	0	0	6.73
SW	2.93	2.2	0	0	0	5.13
WSW	1.9	1.61	0	0	0	3.51
W	3.37	2.05	0	0	0	5.42
WNW	1.46	1.17	0	0	0	2.63
NW	0.15	2.05	0	0	0	2.2
NNW	0.44	2.78	0	0	0	3.22
Summary	28.7	71.29	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

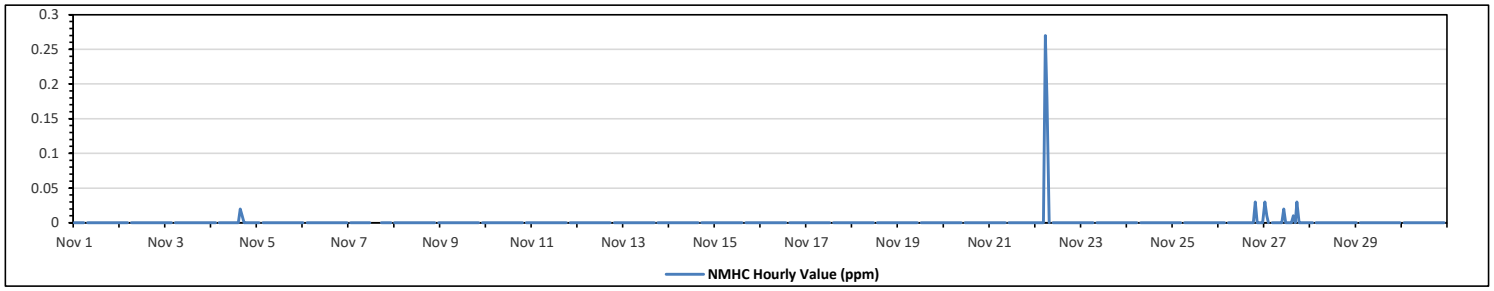
NON-METHANE HYDROCARBONS (NMHC) in ppm

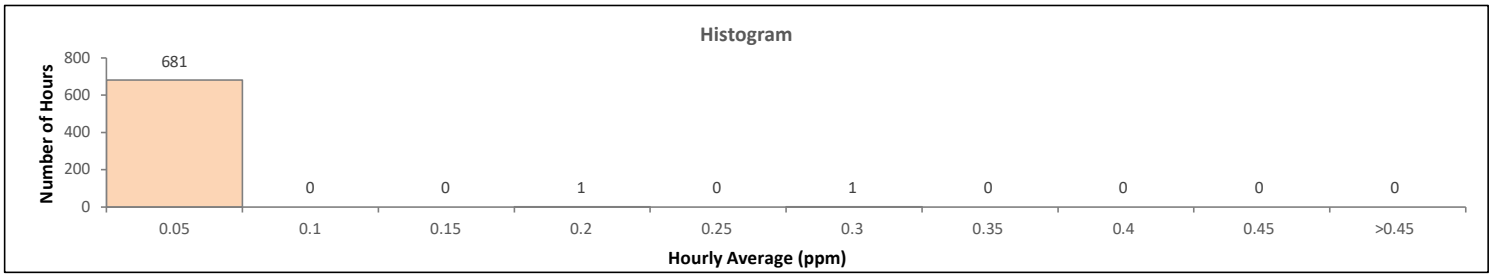
Maximum Hourly Value:	0.27	ppm	on Nov 22 at hr 5	Hours in Service:	720
Maximum Daily Value:	0.02	ppm	on Nov 22	Hours of Data:	683
Minimum Hourly Value:	0.00	ppm	on Nov 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on Nov 1	Hours of Calibration:	37
Monthly Average:	0.00	ppm		Operational 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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	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	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Nov 5	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
Nov 6	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
Nov 7	S	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	S	0.00	0.00	NA
Nov 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Nov 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Nov 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Nov 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 15	0.00	0.00	0.00	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
Nov 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	0.00	0.00	0.00	0.00	0.00	**0.27**	0.18	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	**0.27**	**0.02**
Nov 23	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
Nov 24	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
Nov 25	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
Nov 26	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	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Nov 27	0.03	0.01	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Nov 28	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
Nov 29	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
Nov 30	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
Diurnal Maximum	0.03	0.01	0.00	0.00	0.00	0.27	0.18	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.03	0.00	0.00	0.00	0.00			
Diurnal Average	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	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.



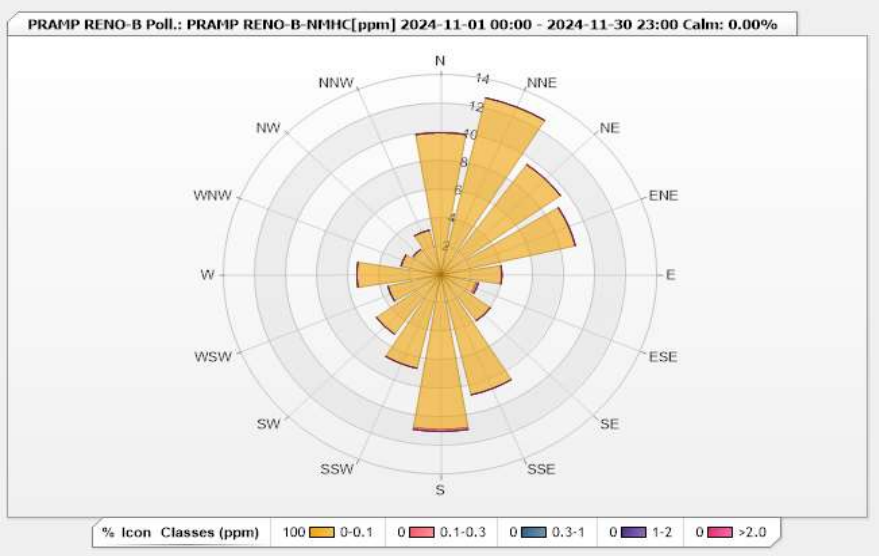


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-NMHC[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	9.96	0	0	0	0	9.96
NNE	12.74	0	0	0	0	12.74
NE	9.52	0	0	0	0	9.52
ENE	8.93	0	0	0	0	8.93
E	3.95	0	0	0	0	3.95
ESE	2.34	0.15	0	0	0	2.49
SE	3.95	0	0	0	0	3.95
SSE	8.64	0	0	0	0	8.64
S	10.83	0.15	0	0	0	10.98
SSW	6.73	0	0	0	0	6.73
SW	5.12	0	0	0	0	5.12
WSW	3.51	0	0	0	0	3.51
W	5.42	0	0	0	0	5.42
WNW	2.64	0	0	0	0	2.64
NW	2.2	0	0	0	0	2.2
NNW	3.22	0	0	0	0	3.22
Summary	100	0.3	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

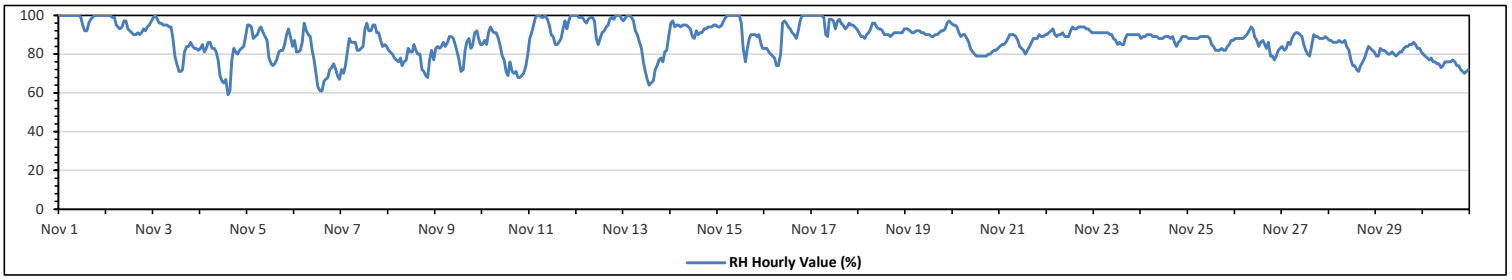
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Nov 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	98.8	%	on Nov 1	Hours of Data:	720
Minimum Hourly Value:	59	%	on Nov 4 at hr 14	Hours of Missing Data:	0
Minimum Daily Value:	75.1	%	on Nov 30	Hours of Calibration:	0
Monthly Average:	87.1	%		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
Nov 1	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	95	92	92	96	98	99	**100**	**100**	**100**	**100**	**100**	**100**	92	**100**	**98.8**
Nov 2	**100**	**100**	**100**	99	99	95	94	93	94	97	97	93	92	91	90	90	91	90	91	93	92	94	95	97	90	**100**	94.5
Nov 3	99	**100**	98	96	96	95	95	95	94	94	88	79	75	71	71	72	81	84	84	86	84	83	83	82	71	**100**	86.9
Nov 4	83	85	81	83	86	86	83	83	81	77	69	66	65	67	**59**	61	77	83	81	80	82	83	84	89	**59**	89	78.1
Nov 5	95	95	94	88	89	90	93	94	91	89	87	78	75	74	75	77	81	82	82	85	90	93	89	84	74	95	86.3
Nov 6	87	81	81	82	86	96	92	90	89	82	77	70	63	61	61	66	67	68	72	73	75	72	69	67	61	96	76.1
Nov 7	72	70	74	81	88	86	86	86	82	82	83	84	93	96	92	92	95	95	91	91	87	84	85	84	70	96	85.8
Nov 8	82	81	80	78	77	76	78	74	76	77	83	81	81	85	82	80	80	72	71	69	68	77	82	77	68	85	77.8
Nov 9	83	84	83	84	86	84	86	89	89	88	85	81	77	71	72	82	86	88	83	85	91	92	88	85	71	92	84.3
Nov 10	85	87	85	91	94	92	91	91	88	84	79	77	71	69	76	71	70	71	68	68	69	70	74	80	68	94	79.2
Nov 11	88	91	95	99	**100**	**100**	99	99	**100**	98	95	90	89	85	85	86	88	93	97	93	97	**100**	**100**	**100**	85	**100**	94.5
Nov 12	**100**	99	99	99	97	96	98	99	99	97	88	85	88	91	92	94	95	98	99	98	**100**	**100**	**100**	98	85	**100**	96.2
Nov 13	97	99	**100**	**100**	99	97	92	90	86	83	76	71	67	64	65	66	72	74	77	78	76	81	82	90	64	**100**	82.6
Nov 14	96	97	94	95	95	94	95	95	95	94	93	89	88	92	90	91	91	93	93	94	94	94	95	95	88	97	93.4
Nov 15	94	94	95	97	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	96	83	76	83	88	90	90	90	89	90	85	83	76	**100**	92.6
Nov 16	83	83	81	80	79	78	74	74	80	96	97	96	94	93	91	90	88	92	97	**100**	**100**	**100**	**100**	**100**	74	**100**	89.4
Nov 17	**100**	**100**	**100**	**100**	**100**	**100**	99	90	89	98	98	97	93	97	98	96	95	93	94	96	95	95	94	93	89	**100**	96.3
Nov 18	91	89	89	88	90	91	93	96	96	94	93	93	92	90	90	90	89	90	91	91	91	91	91	93	88	96	91.3
Nov 19	93	93	92	91	91	92	92	92	91	91	90	90	90	89	89	90	90	91	92	92	93	96	97	96	89	97	91.8
Nov 20	95	95	94	91	89	90	90	88	86	83	81	80	79	79	79	79	79	79	80	80	81	82	82	83	79	95	84.3
Nov 21	84	85	85	86	88	90	90	90	89	87	84	83	82	80	82	84	86	88	88	88	90	89	89	90	80	90	86.5
Nov 22	90	91	92	93	90	89	90	90	91	89	89	89	92	94	93	93	94	94	94	94	93	93	92	91	89	94	91.7
Nov 23	91	91	91	91	91	91	91	91	90	90	88	87	85	86	85	85	88	90	90	90	90	90	90	90	85	91	89.3
Nov 24	88	89	89	90	90	90	89	89	89	88	88	88	89	89	89	88	89	86	84	86	87	89	89	89	84	90	88.4
Nov 25	88	88	88	88	88	88	89	89	89	89	89	88	85	84	82	82	82	83	82	82	84	85	87	87	82	89	86.1
Nov 26	88	88	88	88	88	89	90	92	94	93	89	87	84	86	87	85	83	86	79	79	77	79	82	83	77	94	86.0
Nov 27	84	82	83	86	85	88	90	91	91	90	89	85	82	80	79	84	90	89	89	88	88	88	89	88	79	91	86.6
Nov 28	87	87	86	86	86	87	86	86	87	84	82	77	74	74	72	71	74	76	78	81	84	83	82	81	71	87	81.3
Nov 29	79	79	83	82	82	81	80	80	81	80	79	80	81	81	83	84	84	85	85	86	85	83	83	81	79	86	82.0
Nov 30	80	79	78	77	78	76	76	75	75	73	74	76	76	76	76	77	76	74	74	72	71	70	71	72	70	80	**75.1**
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	96	97	98	96	98	99	100	100	100	100	100	100			
Diurnal Average	89.4	89.4	89.3	89.6	90.2	90.2	90.0	89.7	89.4	88.9	87.0	84.6	83.1	82.3	81.8	82.8	84.9	85.9	85.9	86.3	86.8	87.5	87.6	87.6			

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 - November 2024

Summary of Hourly Averages

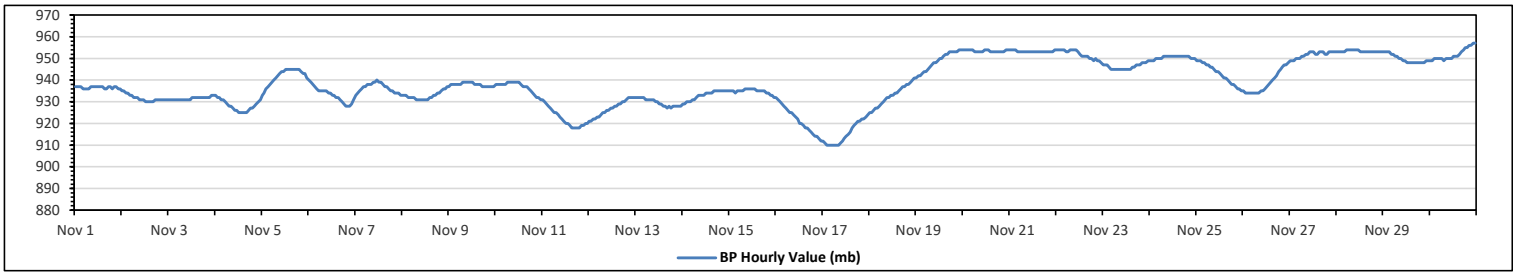
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	957	mb	on Nov 30 at hr 22	Hours in Service:	720
Maximum Daily Value:	953	mb	on Nov 20	Hours of Data:	720
Minimum Hourly Value:	910	mb	on Nov 17 at hr 2	Hours of Missing Data:	0
Minimum Daily Value:	915	mb	on Nov 17	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
Nov 1	937	937	937	937	936	936	936	936	937	937	937	937	937	937	937	936	936	937	937	936	937	937	936	936	936	937	937
Nov 2	935	935	934	934	933	933	932	932	932	931	931	931	930	930	930	930	930	931	931	931	931	931	931	931	930	935	932
Nov 3	931	931	931	931	931	931	931	931	931	931	931	931	932	932	932	932	932	932	932	932	932	932	933	933	931	933	932
Nov 4	933	932	932	931	931	930	929	928	928	927	926	926	925	925	925	925	925	926	927	927	928	929	930	931	925	933	928
Nov 5	933	934	936	937	938	939	940	941	942	943	944	944	945	945	945	945	945	945	945	945	944	943	943	941	933	945	942
Nov 6	940	939	938	937	936	935	935	935	935	935	934	934	933	933	932	932	931	930	929	928	928	928	929	931	928	940	933
Nov 7	933	934	935	936	937	937	938	938	938	939	939	940	939	939	938	937	937	936	935	935	934	934	934	933	933	940	936
Nov 8	933	933	933	932	932	932	932	931	931	931	931	931	931	931	932	932	933	933	934	934	935	936	936	937	931	937	933
Nov 9	937	938	938	938	938	938	938	939	939	939	939	939	939	938	938	938	938	937	937	937	937	937	937	937	937	939	938
Nov 10	938	938	938	938	938	938	939	939	939	939	939	939	939	938	937	937	937	936	935	934	933	932	932	931	931	939	937
Nov 11	931	930	929	928	927	926	925	925	924	923	922	921	920	920	919	918	918	918	918	918	919	919	920	920	918	931	922
Nov 12	921	921	922	922	923	923	924	925	925	926	926	927	927	928	928	929	929	930	930	931	932	932	932	932	921	932	927
Nov 13	932	932	932	932	932	931	931	931	931	931	930	930	929	929	928	928	927	928	927	928	928	928	928	928	927	932	930
Nov 14	929	929	930	930	930	931	931	932	933	933	933	933	934	934	934	934	935	935	935	935	935	935	935	935	929	935	933
Nov 15	935	935	935	934	935	935	935	935	936	936	936	936	936	936	935	935	935	935	935	934	934	933	933	932	932	936	935
Nov 16	932	931	930	929	928	927	926	925	925	924	923	922	920	920	919	918	918	917	916	915	914	914	913	912	912	932	922
Nov 17	912	911	**910**	**910**	**910**	**910**	**910**	**910**	**910**	911	912	913	914	915	916	918	919	920	921	921	922	922	923	924	**910**	924	**915**
Nov 18	925	925	926	927	927	928	929	930	931	932	932	933	933	934	934	935	936	937	937	938	938	939	940	941	925	941	933
Nov 19	941	942	942	943	944	944	945	946	947	948	948	949	950	950	951	952	952	953	953	953	953	953	954	954	941	954	949
Nov 20	954	954	954	954	954	954	953	953	953	953	953	954	954	954	953	953	953	953	953	953	953	953	954	954	953	954	**953**
Nov 21	954	954	954	954	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	954	953	954	953
Nov 22	954	954	954	954	954	953	953	954	954	954	954	953	952	951	951	951	951	950	950	949	950	949	949	948	948	954	952
Nov 23	947	947	947	946	945	945	945	945	945	945	945	945	945	945	945	946	946	947	947	947	948	948	948	949	945	949	946
Nov 24	949	949	949	950	950	950	950	951	951	951	951	951	951	951	951	951	951	951	951	951	951	950	950	950	949	951	950
Nov 25	949	949	949	948	948	947	947	946	946	945	944	944	943	942	941	941	940	939	938	938	937	936	936	935	935	949	943
Nov 26	935	934	934	934	934	934	934	934	934	935	935	936	937	938	939	940	941	942	944	945	946	947	947	948	934	948	939
Nov 27	949	949	949	950	950	950	951	951	952	952	953	953	953	952	952	953	953	953	952	952	953	953	953	953	949	953	952
Nov 28	953	953	953	953	953	954	954	954	954	954	954	954	953	953	953	953	953	953	953	953	953	953	953	953	953	954	953
Nov 29	953	953	953	953	952	952	951	951	950	950	949	949	948	948	948	948	948	948	948	948	948	948	949	949	948	953	950
Nov 30	949	949	950	950	950	950	950	949	950	950	950	950	951	951	951	952	953	954	955	955	956	956	**957**	**957**	949	**957**	952
Diurnal Maximum	954	954	954	954	954	954	954	954	954	954	954	954	954	954	953	953	953	954	955	955	956	956	957	957			
Diurnal Average	938	938	938	938	938	938	938	938	939	939	938	939	938	938	938	938	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.
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 - November 2024

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

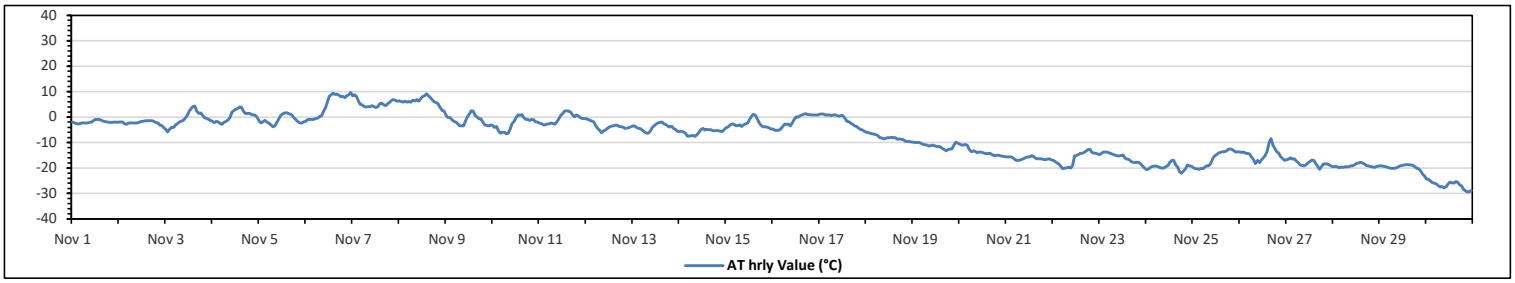
Maximum Hourly Value:	9.6	°C	on Nov 6 at hr 23	Hours in Service:	720	
Maximum Daily Value:	6.2	°C	on Nov 8	Hours of Data:	720	
Minimum Hourly Value:	-29.5	°C	on Nov 30 at hr 21	Hours of Missing Data:	0	
Minimum Daily Value:	-26.8	°C	on Nov 30	Hours of Calibration:	0	
Monthly Average:	-7.6	°C		Operational 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
Nov 1	-2	-2.3	-2.5	-2.6	-2.5	-2.4	-2.4	-2.4	-2.4	-2.1	-1.9	-1.3	-1	-0.9	-0.9	-1.3	-1.6	-1.8	-2	-2.1	-2.1	-2.1	-2	-2.1	-2.6	-0.9	-1.9
Nov 2	-2	-1.9	-2	-2.6	-2.8	-2.4	-2.3	-2.3	-2.3	-2.4	-2.2	-1.8	-1.6	-1.5	-1.4	-1.4	-1.4	-1.4	-1.6	-2.2	-2.3	-3.2	-3.3	-4.2	-4.2	-1.4	-2.2
Nov 3	-4.9	-5.8	-4.8	-4.1	-4.1	-3	-2.5	-2	-1.5	-1.3	-0.4	0.6	2.2	3.5	4.1	4.3	2.4	1.5	1.6	0.6	-0.3	-0.6	-0.9	-1.3	-5.8	4.3	-0.7
Nov 4	-1.7	-2.2	-1.6	-1.9	-2.6	-2.8	-2.1	-1.7	-1.1	-0.1	1.9	2.6	3.1	3.4	4	3.9	2.2	1.4	1.5	1.5	1.1	0.8	0.7	-0.2	-2.8	4.0	0.4
Nov 5	-1.5	-2.4	-1.8	-1.3	-2	-2.3	-3.1	-3.8	-3.5	-2.2	-0.8	0.5	1.2	1.6	1.7	1.5	1.1	0.7	-0.3	-1.1	-1.9	-2.4	-2.3	-1.8	-3.8	1.7	-1.1
Nov 6	-1.7	-0.9	-0.9	-0.9	-1	-0.6	-0.4	0.2	0.4	1.9	3.6	5.7	8.2	8.8	9.4	8.9	9	8.6	8	8.2	7.6	8.3	8.7	**9.6**	-1.7	**9.6**	4.5
Nov 7	8.3	8.8	8.2	6.4	5	4.7	4.2	4	4.1	4.2	4.4	4.2	3.8	4.1	5.2	5.5	4.8	4.5	5.3	5.8	6.6	6.9	6.6	6.3	3.8	8.8	5.5
Nov 8	6.4	6.1	5.8	6.3	5.9	6.1	5.8	6.7	6.4	6.9	6.2	7.2	8.1	8.3	9.2	8.4	7.6	6.7	6	5.7	5.2	3.9	2.6	2.4	2.4	9.2	**6.2**
Nov 9	0.7	-0.1	-0.2	-1	-1.7	-2	-2.5	-3.5	-3.5	-3.5	-1.8	0	1.3	2.5	2.4	0.6	0.1	-0.7	-0.7	-1.9	-3.1	-3.3	-3.5	-3	-3.5	2.5	-1.2
Nov 10	-3.3	-4.1	-3.7	-5.4	-6.3	-6	-6	-6.6	-6.3	-4.8	-2.6	-1.7	-0.1	0.8	0.7	1	-0.2	-1	-1	-1.2	-0.9	-1.1	-1.8	-1.9	-6.6	1.0	-2.6
Nov 11	-2.3	-2.5	-3.1	-3.1	-2.7	-2.7	-2.3	-2.5	-2.8	-1.9	-0.6	0.7	1.5	2.4	2.5	2.4	2	1	0.1	0.8	0.4	-0.2	-0.5	-0.5	-3.1	2.5	-0.6
Nov 12	-0.7	-0.9	-1.3	-1.5	-1.9	-3.5	-4.4	-5.2	-6.2	-5.3	-5.1	-4.5	-3.9	-3.6	-3.4	-3.2	-3.2	-3.7	-3.8	-3.9	-4.5	-4.3	-4.2	-3.8	-6.2	-0.7	-3.6
Nov 13	-3.4	-3.6	-4	-4.4	-4.6	-5.2	-5.8	-6.4	-6.4	-5.5	-4.2	-3.4	-2.7	-2.3	-2.1	-1.9	-2.6	-2.9	-3.6	-3.9	-3.6	-4.4	-5	-5.6	-6.4	-1.9	-4.1
Nov 14	-5.7	-5.6	-5.8	-6.4	-7.5	-7.5	-7.4	-7.2	-7.6	-6.9	-6.1	-5	-4.4	-5.1	-4.9	-5	-5	-5.3	-5.3	-5.3	-5.3	-5.5	-5.7	-5	-7.6	-4.4	-5.9
Nov 15	-4.2	-3.8	-3.1	-2.6	-2.8	-3.5	-3.3	-3.1	-3.7	-3.1	-2.7	-2.3	-1.1	0.2	1.1	0.7	-0.8	-2.4	-3.3	-3.8	-3.8	-3.9	-4.2	-4.7	-4.7	1.1	-2.7
Nov 16	-4.7	-5.2	-5.2	-5.2	-4.9	-3.7	-2.8	-2.8	-2.8	-3.4	-2.3	-1	0.1	0	0.5	0.8	1.3	1.4	1	1	0.8	0.9	0.9	0.9	-5.2	1.4	-1.4
Nov 17	1.1	1.3	1.2	0.9	0.8	0.8	0.6	0.9	0.9	0.5	0.3	0.5	0.6	-0.5	-1.6	-1.8	-2.4	-2.8	-3.4	-3.7	-4.3	-4.9	-5.1	-5.5	-5.5	1.3	-1.1
Nov 18	-5.9	-6.1	-6.3	-6.5	-6.7	-6.9	-7.3	-8	-8.2	-8.6	-8.3	-8.1	-8	-7.9	-8.1	-8.1	-8.7	-8.6	-8.8	-8.9	-9.4	-9.6	-9.6	-9.7	-9.7	-5.9	-8.0
Nov 19	-9.9	-10	-10	-10	-10.2	-10.6	-10.8	-11	-11.4	-11.3	-11	-11.3	-11.5	-11.6	-11.7	-12.2	-12.8	-13.2	-12.8	-12.6	-12.5	-10.9	-9.8	-10.3	-13.2	-9.8	-11.2
Nov 20	-10.5	-11	-10.9	-10.7	-11.1	-12.8	-13.6	-13.2	-13.5	-14	-13.8	-13.8	-14	-14.3	-14.4	-14.3	-14.4	-14.8	-15.1	-15	-15	-15.2	-15.4	-15.5	-15.5	-10.5	-13.6
Nov 21	-15.7	-15.7	-15.7	-15.8	-16.4	-17.1	-17.1	-16.9	-16.7	-16.3	-15.9	-15.7	-15.6	-15.1	-15.5	-16.1	-16.4	-16.4	-16.4	-16.6	-16.8	-16.5	-16.4	-16.8	-17.1	-15.1	-16.2
Nov 22	-17	-17.4	-18	-18.4	-19.5	-20.2	-20	-20	-19.7	-20	-19	-15.3	-15.1	-14.7	-14.3	-14.3	-13.9	-13.4	-12.8	-12.8	-13.9	-14.2	-14.3	-14.5	-20.2	-12.8	-16.4
Nov 23	-14.7	-14.2	-13.7	-13.7	-13.7	-14.1	-14.4	-14.7	-15	-15.3	-15.3	-15.1	-14.9	-16.1	-16.5	-16.7	-17.3	-17.7	-17.9	-17.8	-17.8	-18.5	-19.3	-20	-20.0	-13.7	-16.0
Nov 24	-20.7	-20.4	-19.8	-19.4	-19.3	-19.3	-19.6	-19.9	-20	-20	-19.5	-19	-17.7	-17.1	-17	-18.8	-19.6	-21.4	-22	-21.3	-20.3	-18.7	-19.1	-19.3	-22.0	-17.0	-19.6
Nov 25	-19.8	-20.2	-20.2	-20.5	-20.1	-20.3	-19.7	-19.1	-19.1	-18.4	-16.3	-15.3	-14.7	-14.2	-13.9	-13.6	-13.6	-13.3	-12.8	-12.5	-12.8	-13.2	-13.8	-13.6	-20.5	-12.5	-16.3
Nov 26	-13.7	-13.9	-13.8	-14.3	-14.3	-14.5	-15.6	-16.6	-18.3	-17	-17.9	-16.9	-16.1	-15.3	-13.5	-10	-8.5	-10.9	-12.4	-13.6	-14.2	-15.5	-16.3	-17	-18.3	-8.5	-14.6
Nov 27	-16.8	-16.5	-16	-16.5	-16.4	-17.2	-17.9	-18.7	-19	-19.2	-18.7	-18.1	-17.5	-16.9	-17	-18.3	-19.4	-20.6	-19.4	-18.5	-18.4	-18.5	-18.9	-19.3	-20.6	-16.0	-18.1
Nov 28	-19.5	-19.4	-19.5	-19.9	-19.7	-19.8	-19.6	-19.6	-19.5	-19.1	-19.1	-18.8	-18.2	-18.1	-17.8	-18	-18.5	-19	-19.2	-19.4	-19.6	-19.8	-19.6	-19.3	-19.9	-17.8	-19.2
Nov 29	-19.1	-19.1	-19.4	-19.6	-19.8	-20	-20.1	-20.1	-20	-19.8	-19.3	-19	-18.9	-18.8	-18.6	-18.8	-18.8	-19	-19.6	-20.1	-20.3	-21.3	-22.4	-23.2	-23.2	-18.6	-19.8
Nov 30	-24.3	-24.6	-25.2	-25.8	-25.9	-26.4	-26.9	-27.5	-27.4	-27.9	-27.3	-26.3	-25.5	-25.8	-26	-25.3	-25.7	-26.6	-27.1	-28.5	-29	**-29.5**	-29.3	-28.8	**-29.5**	-24.3	**-26.8**
Diurnal Maximum	8.3	8.8	8.2	6.4	5.9	6.1	5.8	6.7	6.4	6.9	6.2	7.2	8.2	8.8	9.4	8.9	9.0	8.6	8.0	8.2	7.6	8.3	8.7	9.6			
Diurnal Average	-7.6	-7.8	-7.8	-8.0	-8.3	-8.5	-8.6	-8.8	-8.9	-8.5	-7.9	-7.1	-6.4	-6.1	-5.9	-6.0	-6.5	-7.0	-7.3	-7.4	-7.7	-7.9	-8.1	-8.3			

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 - November 2024

Summary of Hourly Averages

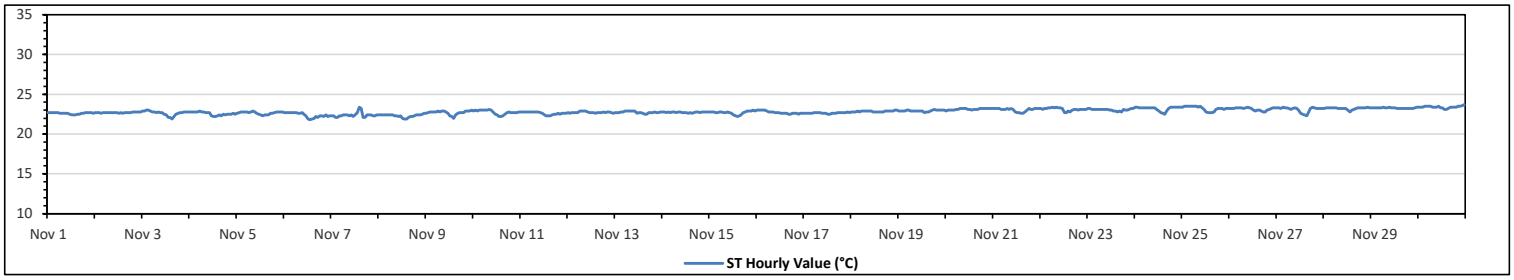
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	23.7	°C	on Nov 30 at hr 23	Hours in Service:	720	
Maximum Daily Value:	23.4	°C	on Nov 30	Hours of Data:	720	
Minimum Hourly Value:	21.8	°C	on Nov 6 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	22.3	°C	on Nov 8	Hours of Calibration:	0	
Monthly Average:	22.8	°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
Nov 1	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.5	22.4	22.4	22.4	22.5	22.5	22.6	22.6	22.7	22.7	22.7	22.7	22.6	22.4	22.7	22.6
Nov 2	22.7	22.7	22.7	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.7	22.6	22.7	22.7	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.6	22.8	22.7
Nov 3	22.9	22.9	23.0	23.0	22.9	22.8	22.8	22.7	22.8	22.7	22.7	22.5	22.4	22.1	22.1	21.9	22.2	22.5	22.6	22.7	22.7	22.8	22.8	22.8	21.9	23.0	22.6
Nov 4	22.8	22.8	22.8	22.8	22.8	22.9	22.8	22.8	22.7	22.7	22.7	22.3	22.2	22.2	22.3	22.4	22.3	22.5	22.4	22.5	22.5	22.5	22.6	22.5	22.2	22.9	22.6
Nov 5	22.6	22.7	22.8	22.8	22.8	22.8	22.7	22.8	22.9	22.8	22.6	22.5	22.4	22.3	22.4	22.4	22.4	22.6	22.6	22.7	22.8	22.8	22.8	22.8	22.3	22.9	22.7
Nov 6	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.7	22.5	22.3	21.9	**21.8**	21.9	22.0	22.2	22.1	22.3	22.3	22.2	22.4	22.2	22.3	**21.8**	22.7	22.4
Nov 7	22.3	22.3	22.1	22.1	22.3	22.3	22.4	22.4	22.4	22.3	22.4	22.2	22.4	22.7	23.4	23.2	22.1	22.1	22.4	22.4	22.4	22.3	22.3	22.4	22.1	23.4	22.4
Nov 8	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.3	22.3	22.2	22.3	22.0	21.9	21.9	22.1	22.2	22.2	22.3	22.4	22.4	22.4	22.5	22.6	21.9	22.6	**22.3**
Nov 9	22.6	22.7	22.8	22.8	22.8	22.8	22.9	22.8	22.9	22.9	22.8	22.6	22.3	22.2	22.0	22.4	22.6	22.7	22.7	22.7	22.9	22.9	22.9	23.0	22.0	23.0	22.7
Nov 10	22.9	23.0	22.9	23.0	23.0	23.0	23.0	23.0	23.1	23.0	22.8	22.5	22.4	22.2	22.2	22.3	22.5	22.7	22.8	22.7	22.7	22.7	22.7	22.8	22.2	23.1	22.7
Nov 11	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.7	22.6	22.4	22.3	22.3	22.3	22.4	22.5	22.5	22.6	22.5	22.6	22.6	22.6	22.3	22.8	22.6
Nov 12	22.7	22.6	22.7	22.7	22.7	22.7	22.9	22.9	22.9	22.9	22.8	22.7	22.7	22.7	22.6	22.7	22.7	22.7	22.8	22.7	22.8	22.8	22.7	22.6	22.6	22.9	22.7
Nov 13	22.7	22.7	22.7	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.6	22.7	22.7	22.6	22.5	22.5	22.7	22.7	22.7	22.8	22.7	22.7	22.8	22.5	22.9	22.7
Nov 14	22.8	22.8	22.7	22.8	22.7	22.8	22.8	22.7	22.8	22.8	22.7	22.7	22.7	22.6	22.7	22.6	22.7	22.8	22.8	22.7	22.8	22.8	22.8	22.8	22.6	22.8	22.7
Nov 15	22.8	22.8	22.8	22.7	22.7	22.8	22.8	22.7	22.7	22.8	22.7	22.6	22.4	22.3	22.2	22.3	22.4	22.7	22.8	22.9	22.9	22.9	23.0	22.9	22.2	23.0	22.7
Nov 16	23.0	23.0	23.0	23.0	23.0	22.9	22.8	22.8	22.8	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.5	22.5	22.6	22.6	22.6	22.5	22.6	22.6	22.5	23.0	22.7
Nov 17	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.6	22.6	22.6	22.5	22.5	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.8	22.7	22.5	22.8	22.6
Nov 18	22.8	22.8	22.8	22.9	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.9	22.9	22.9	22.9	22.9	23.0	23.0	22.8	23.0	22.9
Nov 19	22.9	22.9	22.9	22.9	23.0	23.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.7	22.8	22.8	22.9	23.0	23.1	23.0	23.0	23.0	23.0	23.0	22.7	23.1	22.9
Nov 20	22.9	23.0	23.0	23.0	23.0	23.1	23.1	23.2	23.2	23.2	23.2	23.1	23.1	23.0	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2	22.9	23.2	23.1
Nov 21	23.2	23.2	23.2	23.2	23.1	23.1	23.1	23.2	23.1	23.2	23.1	22.8	22.7	22.7	22.6	22.6	22.8	23.0	23.2	23.1	23.1	23.2	23.2	23.2	22.6	23.2	23.0
Nov 22	23.2	23.1	23.2	23.2	23.3	23.3	23.4	23.3	23.4	23.3	23.3	23.2	22.7	22.7	22.9	22.8	23.0	23.1	23.1	23.0	23.1	23.1	23.1	23.1	22.7	23.4	23.1
Nov 23	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.0	22.9	22.9	22.8	22.9	22.8	23.1	23.0	23.0	23.1	23.2	23.2	22.8	23.2	23.1
Nov 24	23.4	23.4	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.1	22.9	22.7	22.6	22.5	22.9	23.2	23.4	23.4	23.4	23.4	23.4	23.4	22.5	23.4	23.2
Nov 25	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.5	23.3	23.1	22.8	22.7	22.7	22.7	22.8	23.1	23.2	23.2	23.2	23.1	23.2	23.2	22.7	23.5	23.2
Nov 26	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.2	23.3	23.4	23.3	23.2	23.0	22.9	23.0	23.0	22.9	22.8	22.8	23.0	23.1	23.2	23.3	23.3	22.8	23.4	23.1
Nov 27	23.3	23.3	23.2	23.4	23.3	23.3	23.2	23.1	23.2	23.3	23.2	23.0	22.6	22.5	22.4	22.3	22.8	23.2	23.4	23.3	23.2	23.2	23.2	23.2	22.3	23.4	23.1
Nov 28	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.0	22.8	23.0	23.1	23.2	23.3	23.3	23.3	23.3	23.3	23.4	23.3	22.8	23.4	23.2
Nov 29	23.3	23.3	23.3	23.3	23.3	23.3	23.4	23.3	23.3	23.4	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.4	23.2	23.4	23.3
Nov 30	23.4	23.4	23.4	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.5	23.3	23.3	23.1	23.1	23.2	23.4	23.4	23.4	23.4	23.5	23.5	23.6	**23.7**	23.1	**23.7**	**23.4**
Diurnal Maximum	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.5	23.5	23.3	23.3	23.2	23.4	23.2	23.4	23.4	23.4	23.4	23.5	23.5	23.6	23.7			
Diurnal Average	22.9	22.9	22.9	22.9	22.9	23.0	23.0	22.9	22.9	22.9	22.9	22.8	22.6	22.6	22.6	22.6	22.7	22.8	22.9	22.9	22.9	22.9	22.9	22.9			

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.



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

PRECIPITATION in mm

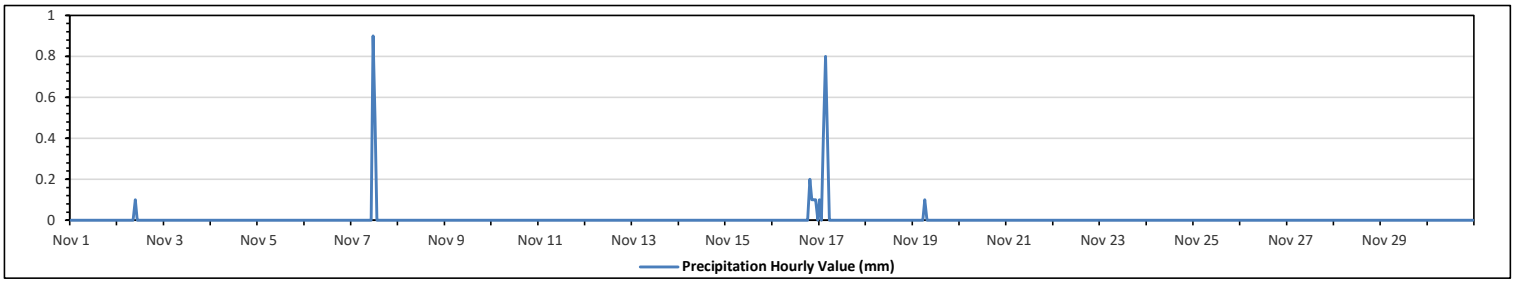
Maximum Hourly Value:	0.9	mm	on Nov 7 at hr 11	Hours in Service:	720	
Maximum Daily Value:	1.7	mm	on Nov 17	Hours of Data:	720	
Minimum Hourly Value:	0.0	mm	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	mm	on Nov 1	Hours of Calibration:	0	
Monthly Total:	3.8	mm		Operational Uptime:	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	Total
Nov 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
Nov 2	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	0.1	0.1
Nov 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
Nov 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Nov 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
Nov 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
Nov 7	0	0	0	0	0	0	0	0	0	0	0	**0.9**	0.5	0	0	0	0	0	0	0	0	0	0	0	0.0	**0.9**	1.4
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Nov 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
Nov 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0.1	0.1	0	0.0	0.2	0.5
Nov 17	0.1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.8	**1.7**
Nov 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
Nov 19	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	0.1	0.1
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 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
Nov 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.1	0.0	0.4	0.8	0.4	0.0	0.1	0.0	0.0	0.1	0.0	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	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 - November 2024

Summary of Hourly Averages

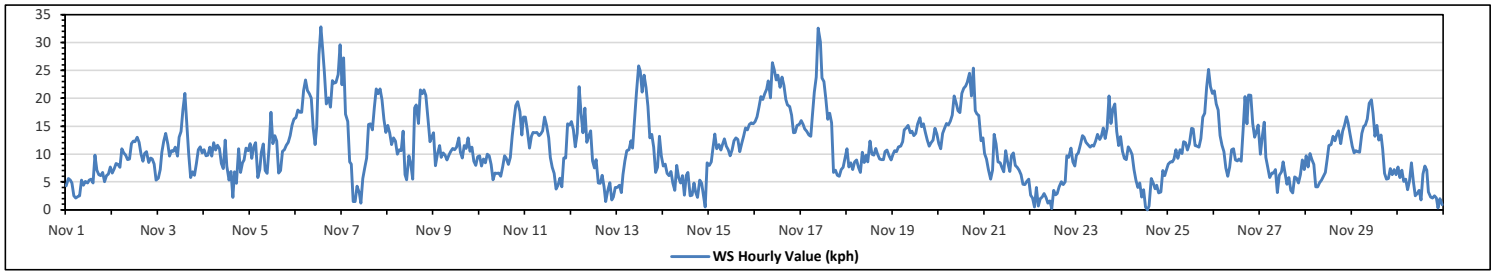
VECTOR WIND SPEED (VWS) in km/hr

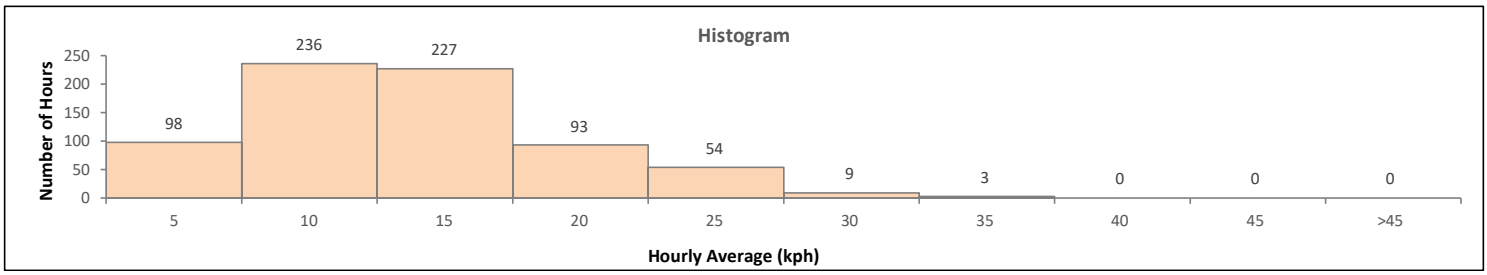
Maximum Hourly Value:	32.8	kph	on Nov 6 at hr 13	Hours in Service:	720	
Maximum Daily Value:	21.3	kph	on Nov 6	Hours of Data:	720	
Minimum Hourly Value:	0.0	kph	on Nov 24 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	4.0	kph	on Nov 22	Hours of Calibration:	0	
Monthly Average:	1.3	kph		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Nov 1	4.3	5.6	5.3	4.8	2.5	2.1	2.4	2.5	5.3	4.4	5.1	4.8	5.3	5.5	4.8	9.8	7.1	6.3	6.1	6.7	5.0	6.1	6.4	7.7	2.1	9.8	5.2
Nov 2	6.6	7.3	8.3	8.1	7.6	10.9	10.2	9.8	9.0	9.1	11.9	12.3	12.2	13.0	12.1	10.0	8.7	10.1	10.4	8.5	9.3	9.1	8.2	5.3	5.3	13.0	9.5
Nov 3	5.7	7.2	10.3	12.3	13.7	11.7	9.6	10.6	10.5	11.2	9.6	13.0	14.0	18.0	20.9	15.4	10.0	5.8	6.8	6.2	8.3	10.8	11.3	10.2	5.7	20.9	11.0
Nov 4	10.8	9.7	9.8	11.2	9.6	12.0	10.7	11.6	11.0	8.3	7.4	12.5	7.8	5.3	6.9	2.2	6.8	4.7	10.9	6.7	8.4	8.9	11.1	10.6	2.2	12.5	9.0
Nov 5	11.9	9.2	11.3	12.0	5.8	7.2	10.3	11.8	7.0	6.5	11.1	17.5	11.9	13.3	12.3	6.6	7.0	10.5	10.8	11.6	12.1	13.3	15.2	16.3	5.8	17.5	10.9
Nov 6	16.5	17.9	17.5	17.5	21.4	23.3	21.4	20.8	20.0	14.6	11.7	14.9	27.8	**32.8**	28.5	24.6	19.0	20.1	18.4	23.2	22.7	22.8	24.3	29.6	11.7	**32.8**	**21.3**
Nov 7	22.4	27.2	17.1	15.8	8.6	8.2	1.5	1.5	4.2	3.1	1.2	5.6	7.5	9.3	15.3	15.4	14.3	18.3	21.7	20.8	21.7	19.7	16.2	13.9	1.2	27.2	12.9
Nov 8	15.1	13.8	11.7	12.9	12.3	10.0	10.8	10.6	14.1	6.3	5.4	9.7	8.2	5.5	18.3	18.8	15.5	21.5	20.8	21.5	20.5	16.1	12.2	13.1	5.4	21.5	13.5
Nov 9	13.8	7.9	9.9	11.5	9.4	10.2	9.8	8.9	9.9	10.5	11.0	10.8	11.2	12.9	10.3	9.3	11.5	11.0	12.9	10.5	11.2	8.7	8.0	9.5	7.9	13.8	10.4
Nov 10	9.7	7.8	9.1	8.4	10.0	9.7	8.1	5.4	6.6	6.5	6.6	6.0	7.7	9.7	9.3	8.1	9.4	13.3	16.4	18.7	19.4	17.6	13.4	16.6	5.4	19.4	10.6
Nov 11	16.6	14.3	11.1	13.2	13.9	13.8	13.9	13.3	13.6	14.2	16.6	15.2	12.9	9.4	7.6	6.5	3.7	4.4	5.7	4.1	9.3	9.3	15.4	15.2	3.7	16.6	11.4
Nov 12	15.8	14.4	11.3	13.7	22.1	17.3	13.8	18.2	12.1	13.2	14.2	8.8	7.5	9.0	4.8	4.7	6.2	4.1	1.5	3.3	4.9	1.8	2.3	4.0	1.5	22.1	9.5
Nov 13	4.0	4.4	3.1	6.3	8.8	10.6	10.8	12.4	11.1	16.0	20.9	25.8	24.9	21.1	24.1	22.0	18.6	12.9	13.5	11.2	6.7	7.6	13.2	9.6	3.1	25.8	13.3
Nov 14	7.8	8.2	6.5	6.1	6.9	4.7	3.5	8.0	5.8	4.8	6.1	2.6	6.2	6.7	2.5	2.6	4.8	3.2	2.2	5.3	4.7	2.4	0.5	8.4	0.5	8.4	5.0
Nov 15	8.0	8.6	10.9	13.6	10.9	11.7	10.7	11.7	12.7	11.4	10.8	9.7	10.7	12.4	12.9	12.6	10.4	11.9	13.2	14.7	14.3	15.3	15.6	15.4	8.0	15.6	12.1
Nov 16	15.8	16.7	18.4	20.3	19.8	20.8	21.6	23.1	20.1	26.4	25.1	23.3	24.1	22.0	23.8	22.3	19.8	18.8	18.5	17.0	13.8	13.9	15.1	15.3	13.8	26.4	19.8
Nov 17	16.0	15.3	14.5	14.1	13.4	13.2	16.9	21.1	23.8	32.6	30.1	23.6	23.0	19.9	16.2	17.3	15.6	6.7	7.1	6.2	6.0	7.2	7.6	9.3	6.0	32.6	15.7
Nov 18	10.9	7.7	8.4	7.2	8.6	8.9	7.6	6.7	10.3	8.5	9.8	8.6	12.3	10.0	9.8	11.0	10.1	9.1	9.0	9.0	10.4	10.7	9.6	8.9	6.7	12.3	9.3
Nov 19	10.0	10.6	10.4	11.3	11.4	12.2	14.3	14.7	15.1	13.8	14.1	13.3	13.7	15.4	16.5	14.9	15.4	13.9	12.5	11.4	12.0	12.5	14.6	13.6	10.0	16.5	13.2
Nov 20	11.9	10.9	13.7	14.6	15.5	15.2	15.9	17.0	20.4	19.2	17.8	17.4	20.9	21.8	22.2	22.9	24.5	20.4	25.4	17.8	17.2	16.9	12.4	12.9	10.9	25.4	17.7
Nov 21	10.1	9.1	7.2	5.5	7.1	13.5	11.8	8.6	8.4	7.6	6.8	10.6	8.6	6.9	9.7	10.2	8.0	7.6	7.1	6.3	4.6	4.5	5.1	5.5	4.5	13.5	7.9
Nov 22	2.6	2.1	0.5	4.0	0.7	2.0	2.3	2.9	2.2	1.2	1.6	0.2	3.5	2.7	2.9	4.1	5.0	4.5	5.0	9.7	9.4	11.1	8.6	7.8	0.2	11.1	**4.0**
Nov 23	9.8	10.2	11.8	13.3	13.0	12.1	11.7	11.2	11.6	11.4	12.3	13.5	12.6	13.2	14.7	12.8	14.6	20.4	15.5	18.1	19.0	14.0	11.5	13.1	9.8	20.4	13.4
Nov 24	10.5	9.2	9.0	11.3	10.7	9.9	7.2	5.3	4.0	4.8	2.3	3.6	0.5	**0.0**	0.7	5.6	4.8	3.8	4.4	3.0	3.2	7.0	6.1	7.1	**0.0**	11.3	5.6
Nov 25	8.2	8.6	8.6	9.1	10.8	9.2	10.8	10.1	12.2	12.0	10.7	11.8	14.6	14.5	11.5	11.4	11.2	12.8	16.6	17.3	22.0	25.2	22.1	20.9	8.2	25.2	13.4
Nov 26	21.3	19.0	17.9	13.3	11.6	10.4	7.5	6.0	7.7	10.8	10.9	8.9	8.8	9.1	8.7	14.3	20.3	15.4	20.6	20.5	15.5	13.0	13.9	15.2	6.0	21.3	13.4
Nov 27	10.0	13.2	15.7	9.4	7.6	5.8	6.6	6.6	7.2	3.1	6.2	6.8	8.6	6.6	4.6	5.8	3.5	3.0	5.9	5.7	4.8	6.3	8.9	7.2	3.0	15.7	7.0
Nov 28	9.7	7.7	10.1	9.0	8.1	4.1	4.1	4.9	5.3	6.0	6.7	9.2	11.5	11.7	13.2	12.4	13.5	14.2	11.9	14.1	15.2	16.7	15.6	13.3	4.1	16.7	10.3
Nov 29	11.4	10.2	10.6	10.4	10.3	13.7	15.0	15.2	16.3	19.1	19.7	17.3	13.2	15.1	12.5	13.4	10.9	6.5	5.5	5.6	7.4	6.3	7.2	6.3	5.5	19.7	11.6
Nov 30	7.7	5.8	7.1	5.1	5.5	3.6	5.2	8.4	5.1	2.5	2.9	3.5	1.8	6.4	7.8	7.1	3.2	2.3	2.1	2.5	2.1	0.3	2.0	0.9	0.3	8.4	4.2
Diurnal Maximum	22.4	27.2	18.4	20.3	22.1	23.3	21.6	23.1	23.8	32.6	30.1	25.8	27.8	32.8	28.5	24.6	24.5	21.5	25.4	23.2	22.7	25.2	24.3	29.6			
Diurnal Average	11.2	10.7	10.6	10.8	10.6	10.6	10.2	10.6	10.8	10.6	10.9	11.4	11.8	12.0	12.2	11.8	11.1	10.6	11.3	11.2	11.4	11.2	11.1	11.4			

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.



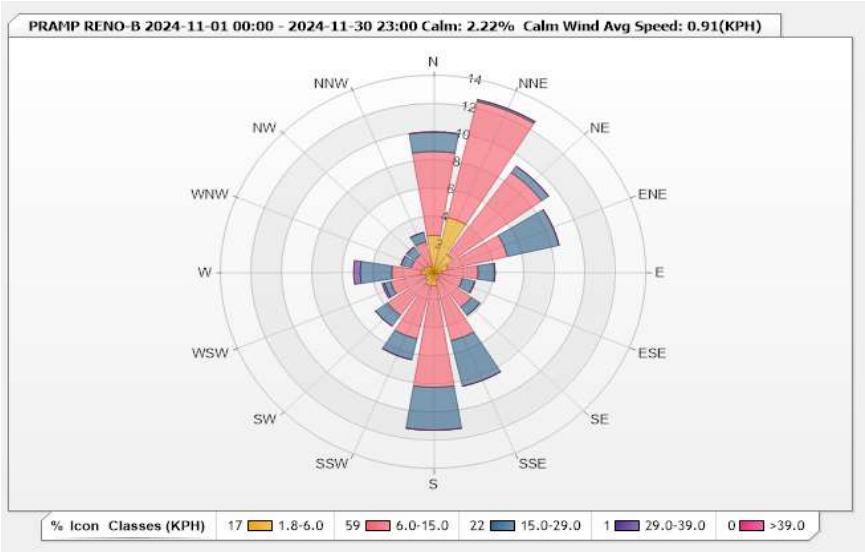


Station: PRAMP RENO-B Monitor: WDS [KPH] Monthly: 11-2024

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

Calm (WS<1.8kph): 2.22% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.64	5.97	1.39	0	0	10
NNE	4.03	8.47	0.14	0	0	12.64
NE	1.53	7.22	0.56	0	0	9.31
ENE	0.97	4.03	3.47	0	0	8.47
E	0.56	2.36	1.11	0	0	4.03
ESE	0.28	1.67	0.83	0	0	2.78
SE	0.42	2.64	0.69	0	0	3.75
SSE	0.56	4.44	3.33	0	0	8.33
S	0.97	7.22	3.06	0	0	11.25
SSW	0.97	3.89	1.53	0	0	6.39
SW	0.69	3.06	0.97	0	0	4.72
WSW	0.56	2.36	0.42	0.14	0	3.48
W	0.83	1.94	2.08	0.42	0	5.27
WNW	0.69	0.83	0.69	0	0	2.21
NW	0.56	0.97	0.69	0	0	2.22
NNW	0.42	1.81	0.69	0	0	2.92
Summary	16.68	58.88	21.65	0.56	0	97.77



Peace River Area Monitoring Program

Reno-B Station - November 2024

Summary of Hourly Averages

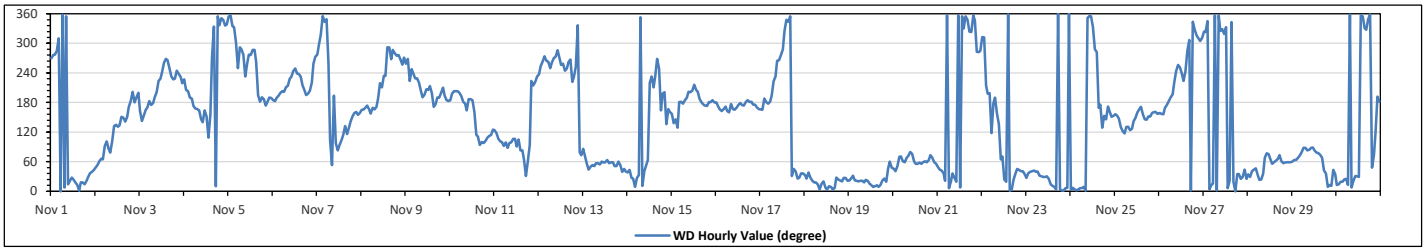
WIND DIRECTION (VWD) in sector

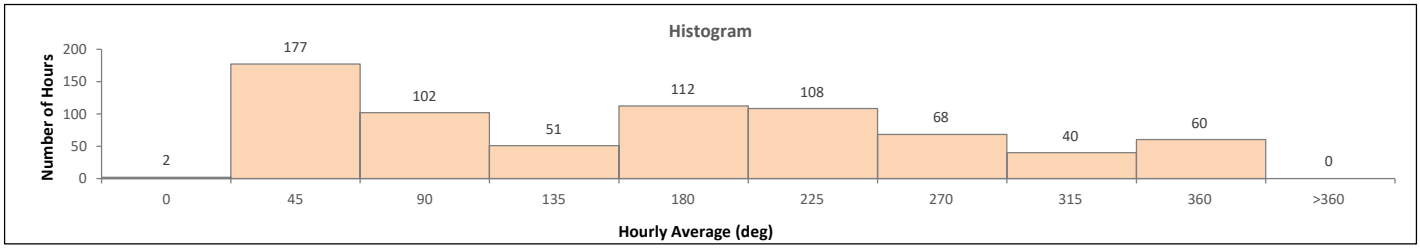
Monthly Average:	116 (ESE)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Nov 1	W	W	W	WNW	NW	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	7	N
Nov 2	NE	NE	ENE	ENE	ENE	E	E	E	ENE	E	SE	SE	SE	SE	SSE	SSE	SE	SSE	S	S	SSW	S	S	SSW	127	SE
Nov 3	SSE	SE	SSE	SSE	SSE	S	S	S	S	SSW	SW	SW	WSW	W	W	W	WSW	SW	SW	SW	WSW	SW	SW	SW	218	SW
Nov 4	SW	SSW	SSW	S	S	S	SSE	SSE	SSE	SE	SE	SSE	SSE	ESE	SSE	W	NNW	N	N	NNW	N	NNW	NNW	NNW	185	S
Nov 5	N	N	NNW	NNW	WNW	WSW	WNW	WNW	W	SW	WSW	W	W	WNW	WNW	W	SSW	S	S	S	S	S	S	S	253	WSW
Nov 6	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	219	SW
Nov 7	W	WNW	NW	N	NNW	NNW	WSW	ESE	NE	SSW	E	E	E	E	ESE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE	140	SE
Nov 8	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	S	S	SW	SSW	SW	SW	WNW	WNW	W	WNW	W	W	W	W	WSW	W	237	SW
Nov 9	WSW	W	SW	WSW	SW	SW	SW	SW	SSW	S	SSW	SSW	SSW	SSW	SSW	S	S	S	S	SSW	SSW	SSW	S	S	209	SSW
Nov 10	S	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	S	S	S	SSE	ESE	ESE	E	E	E	E	ESE	ESE	ESE	SE	142	SE
Nov 11	ESE	ESE	ESE	E	E	E	E	E	E	E	ESE	ESE	E	ESE	E	E	ENE	NNE	ENE	E	SW	SSW	SW	SW	110	ESE
Nov 12	SW	WSW	W	W	W	W	WSW	W	W	W	WNW	W	WSW	WSW	WSW	WSW	W	W	SW	SW	WSW	NNW	ENE	ENE	262	W
Nov 13	E	ENE	NE	NE	NE	NE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	NE	NE	NE	NE	56	NE
Nov 14	NE	NE	NNE	NNE	N	NNE	NNE	N	NNE	NE	NE	ENE	SW	SW	SSW	SW	W	WSW	SSE	SSW	SSW	SE	SSE	SSE	28	NNE
Nov 15	SSE	SE	SE	SE	S	S	S	S	S	SSW	SSW	SSW	SW	SSW	SSW	S	S	S	S	S	S	S	S	S	181	S
Nov 16	S	S	SSE	SSE	SSE	S	SSE	SSE	S	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	SSE	SSE	172	S
Nov 17	SSE	SSE	S	S	S	S	SSW	SW	SW	W	W	W	WNW	NW	NNW	NNW	N	NNE	NE	NE	NNE	NNE	NE	NE	260	WSW
Nov 18	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	18	NNE
Nov 19	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	N	NNE	NNE	NNE	NNE	NE	ENE	NE	22	NNE
Nov 20	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	NE	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	62	ENE
Nov 21	NE	NE	NE	NE	NNE	N	N	NNE	NE	NNE	NNE	N	N	N	NNW	N	NNW	NW	NW	N	NNW	W	W	WNW	2	N
Nov 22	NW	NW	SSW	SSW	SSW	ESE	S	S	SSE	SE	ENE	ENE	NNE	NNE	N	N	N	NNE	NE	NE	NE	NE	NE	NE	36	NE
Nov 23	NNE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	19	NNE
Nov 24	N	N	N	N	N	N	N	N	N	N	N	N	NNW	WNW	W	SSE	S	SE	SSE	SE	S	SSE	SSE	SSE	24	NNE
Nov 25	SSE	SSE	SE	SE	ESE	ESE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	S	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	149	SSE
Nov 26	SSE	SSE	SSE	SSE	S	S	S	SSW	SW	WSW	WSW	WSW	SW	SW	WSW	WNW	NW	N	NNW	NNW	NW	NW	WNW	NW	257	WSW
Nov 27	NW	NW	NNW	N	NNE	NNE	N	N	N	NW	NNW	NW	NNW	N	NNE	NNW	NNE	N	NE	NE	NNE	NNE	NE	NNE	358	N
Nov 28	NE	NNE	NE	NE	NE	NE	NNE	NNE	NE	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	56	NE
Nov 29	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	NE	NE	N	NNE	NNE	NE	NE	71	ENE
Nov 30	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NNW	N	NE	ENE	ESE	S	S	9	N

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 - November 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	32.8	kph	on Nov 6 at hr 13	Hours in Service:	720
Maximum Daily Value:	21.3	kph	on Nov 6	Hours of Data:	720
Minimum Hourly Value:	0.0	kph	on Nov 24 at hr 13	Hours of Missing Data:	0
Minimum Daily Value:	4.0	kph	on Nov 22	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 116 degree (ESE)

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			
Nov 1	4.3	5.6	5.3	4.8	2.5	2.1	2.4	2.5	5.3	4.4	5.1	4.8	5.3	5.5	4.8	9.8	7.1	6.3	6.1	6.7	5.0	6.1	6.4	7.7	2.1	9.8	5.2
	W	W	W	WNW	NW	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE			7(N)
Nov 2	6.6	7.3	8.3	8.1	7.6	10.9	10.2	9.8	9.0	9.1	11.9	12.3	12.2	13.0	12.1	10.0	8.7	10.1	10.4	8.5	9.3	9.1	8.2	5.3	5.3	13.0	9.5
	NE	NE	ENE	ENE	ENE	E	E	E	ENE	E	SE	SE	SE	SE	SSE	SSE	SE	SSE	S	S	SSW	S	S	SSW			127(SE)
Nov 3	5.7	7.2	10.3	12.3	13.7	11.7	9.6	10.6	10.5	11.2	9.6	13.0	14.0	18.0	20.9	15.4	10.0	5.8	6.8	6.2	8.3	10.8	11.3	10.2	5.7	20.9	11.0
	SSE	SE	SSE	SSE	SSE	S	S	S	S	SSW	SW	SW	WSW	W	W	W	WSW	SW	SW	SW	WSW	SW	SW	SW			218(SW)
Nov 4	10.8	9.7	9.8	11.2	9.6	12.0	10.7	11.6	11.0	8.3	7.4	12.5	7.8	5.3	6.9	2.2	6.8	4.7	10.9	6.7	8.4	8.9	11.1	10.6	2.2	12.5	9.0
	SW	SSW	SSW	S	S	S	SSE	SSE	SSE	SE	SE	SSE	SSE	ESE	SSE	W	NNW	N	N	NNW	N	NNW	NNW	NNW			185(S)
Nov 5	11.9	9.2	11.3	12.0	5.8	7.2	10.3	11.8	7.0	6.5	11.1	17.5	11.9	13.3	12.3	6.6	7.0	10.5	10.8	11.6	12.1	13.3	15.2	16.3	5.8	17.5	10.9
	N	N	NNW	NNW	WNW	WSW	WNW	WNW	W	SW	WSW	W	W	WNW	WNW	W	SSW	S	S	S	S	S	S	S			253(WSW)
Nov 6	16.5	17.9	17.5	17.5	21.4	23.3	21.4	20.8	20.0	14.6	11.7	14.9	27.8	**32.8**	28.5	24.6	19.0	20.1	18.4	23.2	22.7	22.8	24.3	29.6	11.7	**32.8**	**21.3**
	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	W			219(SW)
Nov 7	22.4	27.2	17.1	15.8	8.6	8.2	1.5	1.5	4.2	3.1	1.2	5.6	7.5	9.3	15.3	15.4	14.3	18.3	21.7	20.8	21.7	19.7	16.2	13.9	1.2	27.2	12.9
	W	WNW	NW	N	NNW	NNW	WSW	ESE	NE	SSW	E	E	E	E	ESE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSE			140(SE)
Nov 8	15.1	13.8	11.7	12.9	12.3	10.0	10.8	10.6	14.1	6.3	5.4	9.7	8.2	5.5	18.3	18.8	15.5	21.5	20.8	21.5	20.5	16.1	12.2	13.1	5.4	21.5	13.5
	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	S	S	SW	SSW	SW	SW	WNW	WNW	W	WNW	W	W	W	W	WSW	W			237(SW)
Nov 9	13.8	7.9	9.9	11.5	9.4	10.2	9.8	8.9	9.9	10.5	11.0	10.8	11.2	12.9	10.3	9.3	11.5	11.0	12.9	10.5	11.2	8.7	8.0	9.5	7.9	13.8	10.4
	WSW	W	SW	WSW	SW	SW	SW	SW	SSW	S	SSW	SSW	SSW	SSW	SSW	S	S	S	S	SSW	SSW	SSW	S	S			209(SSW)
Nov 10	9.7	7.8	9.1	8.4	10.0	9.7	8.1	5.4	6.6	6.5	6.6	6.0	7.7	9.7	9.3	8.1	9.4	13.3	16.4	18.7	19.4	17.6	13.4	16.6	5.4	19.4	10.6
	S	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	S	S	S	SSE	ESE	ESE	E	E	E	E	ESE	ESE	ESE	SE			142(SE)
Nov 11	16.6	14.3	11.1	13.2	13.9	13.8	13.9	13.3	13.6	14.2	16.6	15.2	12.9	9.4	7.6	6.5	3.7	4.4	5.7	4.1	9.3	9.3	15.4	15.2	3.7	16.6	11.4
	ESE	ESE	ESE	E	E	E	E	E	E	E	ESE	ESE	E	ESE	E	E	ENE	NNE	ENE	E	SW	SSW	SW	SW			110(ESE)
Nov 12	15.8	14.4	11.3	13.7	22.1	17.3	13.8	18.2	12.1	13.2	14.2	8.8	7.5	9.0	4.8	4.7	6.2	4.1	1.5	3.3	4.9	1.8	2.3	4.0	1.5	22.1	9.5
	SW	WSW	W	W	W	W	WSW	W	W	W	WNW	W	WSW	WSW	WSW	WSW	W	W	SW	SW	WSW	NNW	ENE	ENE			262(W)
Nov 13	4.0	4.4	3.1	6.3	8.8	10.6	10.8	12.4	11.1	16.0	20.9	25.8	24.9	21.1	24.1	22.0	18.6	12.9	13.5	11.2	6.7	7.6	13.2	9.6	3.1	25.8	13.3
	E	ENE	NE	NE	NE	NE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	NE	NE	NE	NE			56(NE)
Nov 14	7.8	8.2	6.5	6.1	6.9	4.7	3.5	8.0	5.8	4.8	6.1	2.6	6.2	6.7	2.5	2.6	4.8	3.2	2.2	5.3	4.7	2.4	0.5	8.4	0.5	8.4	5.0
	NE	NE	NNE	NNE	N	NNE	NNE	N	NNE	NE	NE	ENE	SW	SW	SSW	SW	W	WSW	SSE	SSW	SSW	SE	SSE	SSE			28(NNE)
Nov 15	8.0	8.6	10.9	13.6	10.9	11.7	10.7	11.7	12.7	11.4	10.8	9.7	10.7	12.4	12.9	12.6	10.4	11.9	13.2	14.7	14.3	15.3	15.6	15.4	8.0	15.6	12.1
	SSE	SE	SE	SE	S	S	S	S	S	SSW	SSW	SSW	SW	SSW	SSW	S	S	S	S	S	S	S	S	S			181(S)
Nov 16	15.8	16.7	18.4	20.3	19.8	20.8	21.6	23.1	20.1	26.4	25.1	23.3	24.1	22.0	23.8	22.3	19.8	18.8	18.5	17.0	13.8	13.9	15.1	15.3	13.8	26.4	19.8
	S	S	SSE	SSE	SSE	S	SSE	SSE	S	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	SSE	SSE			172(S)
Nov 17	16.0	15.3	14.5	14.1	13.4	13.2	16.9	21.1	23.8	32.6	30.1	23.6	23.0	19.9	16.2	17.3	15.6	6.7	7.1	6.2	6.0	7.2	7.6	9.3	6.0	32.6	15.7
	SSE	SSE	S	S	S	S	SSW	SW	SW	W	W	W	WNW	NW	NNW	NNW	N	NNE	NE	NE	NNE	NNE	NE	NE			260(WSW)
Nov 18	10.9	7.7	8.4	7.2	8.6	8.9	7.6	6.7	10.3	8.5	9.8	8.6	12.3	10.0	9.8	11.0	10.1	9.1	9.0	9.0	10.4	10.7	9.6	8.9	6.7	12.3	9.3
	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE			18(NNE)
Nov 19	10.0	10.6	10.4	11.3	11.4	12.2	14.3	14.7	15.1	13.8	14.1	13.3	13.7	15.4	16.5	14.9	15.4	13.9	12.5	11.4	12.0	12.5	14.6	13.6	10.0	16.5	13.2
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	N	NNE	NNE	NNE	NNE	NE	ENE	NE			22(NNE)
Nov 20	11.9	10.9	13.7	14.6	15.5	15.2	15.9	17.0	20.4	19.2	17.8	17.4	20.9	21.8	22.2	22.9	24.5	20.4	25.4	17.8	17.2	16.9	12.4	12.9	10.9	25.4	17.7
	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	NE	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE			62(ENE)
Nov 21	10.1	9.1	7.2	5.5	7.1	13.5	11.8	8.6	8.4	7.6	6.8	10.6	8.6	6.9	9.7	10.2	8.0	7.6	7.1	6.3	4.6	4.5	5.1	5.5	4.5	13.5	7.9
	NE	NE	NE	NE	NNE	N	N	NNE	NE	NNE	NNE	N	N	N	NNW	N	NNW	NW	NW	N	NNW	W	W	WNW			2(N)
Nov 22	2.6	2.1	0.5	4.0	0.7	2.0	2.3	2.9	2.2	1.2	1.6	0.2	3.5	2.7	2.9	4.1	5.0	4.5	5.0	9.7	9.4	11.1	8.6	7.8	0.2	11.1	**4.0**
	NW	NW	SSW	SSW	SSW	ESE	S	S	SSE	SE	ENE	ENE	NNE	NNE	N	N	N	NNE	NE	NE	NE	NE	NE	NE			36(NE)
Nov 23	9.8	10.2	11.8	13.3	13.0	12.1	11.7	11.2	11.6	11.4	12.3	13.5	12.6	13.2	14.7	12.8	14.6	20.4	15.5	18.1	19.0	14.0	11.5	13.1	9.8	20.4	13.4
	NNE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N			19(NNE)
Nov 24	10.5	9.2	9.0	11.3	10.7	9.9	7.2	5.3	4.0	4.8	2.3	3.6	0.5	**0.0**	0.7	5.6	4.8	3.8	4.4	3.0	3.2	7.0	6.1	7.1	**0.0**	11.3	5.6
	N	N	N	N	N	N	N	N	N	N	N	N	NNW	WNW	W	SSE	S	SE	SSE	SE	S	SSE	SSE	SSE			24(NNE)
Nov 25	8.2	8.6	8.6	9.1	10.8	9.2	10.8	10.1	12.2	12.0	10.7	11.8	14.6	14.5	11.5	11.4	11.2	12.8	16.6	17.3	22.0	25.2	22.1	20.9	8.2	25.2	13.4
	SSE	SSE	SE	SE	ESE	ESE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	S	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE			149(SSE)
Nov 26	21.3	19.0	17.9	13.3	11.6	10.4	7.5	6.0	7.7	10.8	10.9	8.9	8.8	9.1	8.7	14.3	20.3	15.4	20.6	20.5	15.5	13.0	13.9	15.2	6.0	21.3	13.4
	SSE	SSE	SSE	SSE	S	S	S	SSW	SW	WSW	WSW	WSW	SW	SW	WSW	WNW	NW	N	NNW	NNW	NW	NW	WNW	NW			257(WSW)
Nov 27	10.0	13.2	15.7	9.4	7.6	5.8	6.6	6.6	7.2	3.1	6.2	6.8	8.6	6.6	4.6	5.8	3.5	3.0	5.9	5.7	4.8	6.3	8.9	7.2	3.0	15.7	7.0
	NW	NW	NNW	N	NNE	NNE	N	N	N	NW	NNW	NW	NNW	N	NNE	NNW	NNE	N	NE	NE	NNE	NNE	NE	NNE			358(N)
Nov 28	9.7	7.7	10.1	9.0	8.1	4.1	4.1	4.9	5.3	6.0	6.7	9.2	11.5	11.7	13.2	12.4	13.5	14.2	11.9	14.1	15.2	16.7	15.6	13.3	4.1	16.7	10.3
	NE	NNE	NE	NE	NE	NE	NNE	NNE	NE	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE			56(NE)
Nov 29	11.4	10.2	10.6	10.4	10.3	13.7	15.0	15.2	16.3	19.1	19.7	17.3	13.2	15.1	12.5	13.4	10.9	6.5	5.5	5.6	7.4	6.3	7.2	6.3	5.5	19.7	11.6
	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	NE	NE	N	NNE	NNE	NE	NE			71(ENE)
Nov 30	7.7	5.8	7.1	5.1	5.5	3.6	5.2	8.4	5.1	2.5	2.9	3.5	1.8	6.4	7.8	7.1	3.2	2.3	2.1	2.5	2.1	0.3	2.0	0.9	0.3	8.4	4.2
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NNW	N	NE	ENE	ESE	S	S			9(N)

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 - November 2024

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

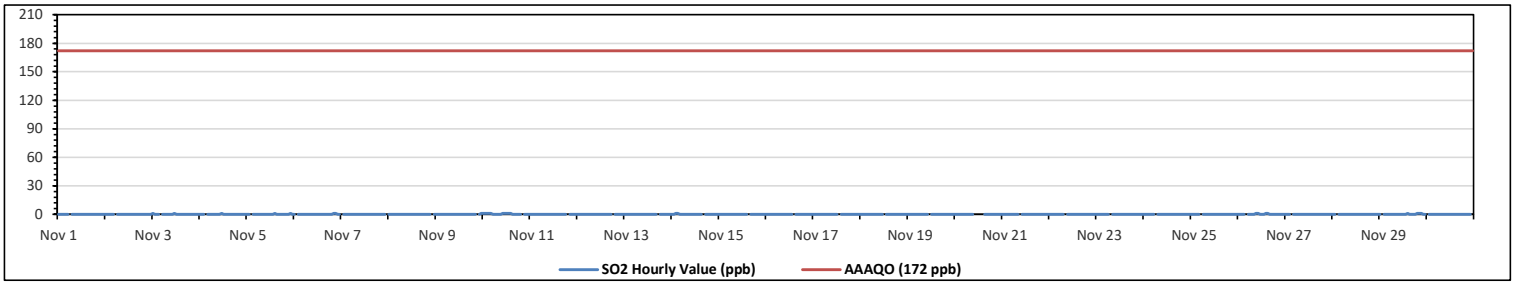
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

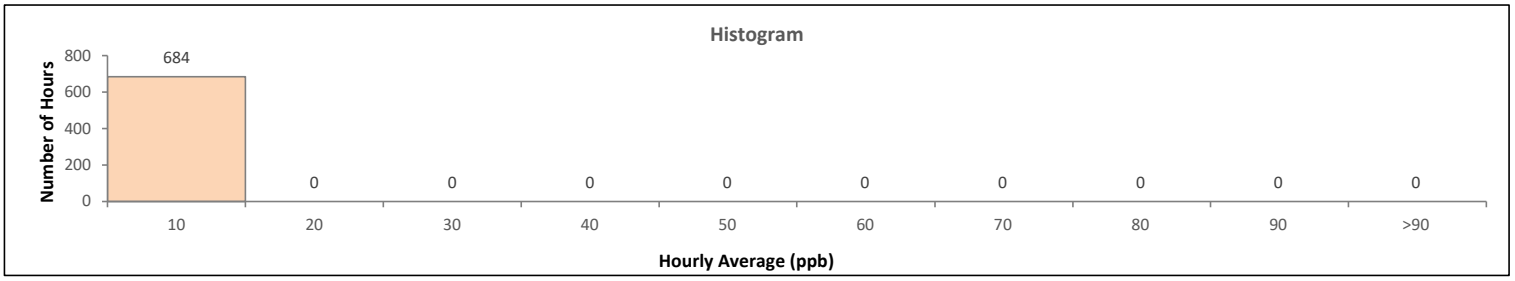
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0		
Maximum Hourly Value:	1	ppb	on Nov 3 at hr 0	Hours in Service:	720		
Maximum Daily Value:	0.4	ppb	on Nov 10	Hours of Data:	684		
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	0		
Minimum Daily Value:	0.0	ppb	on Nov 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			
Nov 1	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
Nov 2	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
Nov 3	1	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Nov 4	0	0	0	S	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Nov 5	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0.1
Nov 6	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.1
Nov 7	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
Nov 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Nov 9	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	1	0.0
Nov 10	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	S	0	0	0	0	1	0.4
Nov 11	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
Nov 12	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
Nov 13	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
Nov 14	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.1
Nov 15	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
Nov 16	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
Nov 17	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
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	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
Nov 23	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
Nov 24	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
Nov 25	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
Nov 26	0	0	0	0	S	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0.2
Nov 27	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
Nov 28	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
Nov 29	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	0.2
Nov 30	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
Diurnal Maximum	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1			
Diurnal Average	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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.



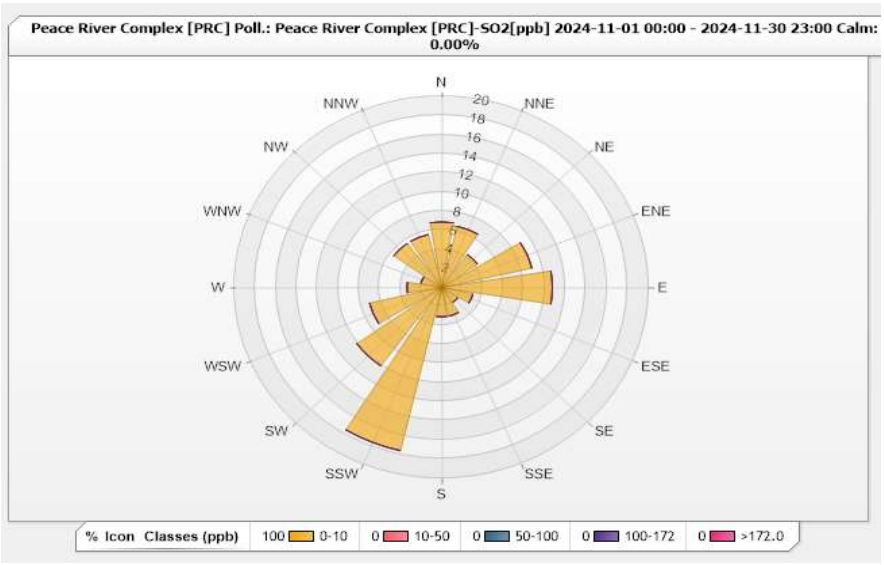


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.87	0	0	0	0	6.87
NNE	6.58	0	0	0	0	6.58
NE	4.24	0	0	0	0	4.24
ENE	8.92	0	0	0	0	8.92
E	10.67	0	0	0	0	10.67
ESE	3.07	0	0	0	0	3.07
SE	1.9	0	0	0	0	1.9
SSE	3.07	0	0	0	0	3.07
S	3.07	0	0	0	0	3.07
SSW	17.54	0	0	0	0	17.54
SW	10.09	0	0	0	0	10.09
WSW	7.16	0	0	0	0	7.16
W	3.36	0	0	0	0	3.36
WNW	2.05	0	0	0	0	2.05
NW	5.7	0	0	0	0	5.7
NNW	5.7	0	0	0	0	5.7
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

HYDROGEN SULPHIDE (H_2S) in ppb

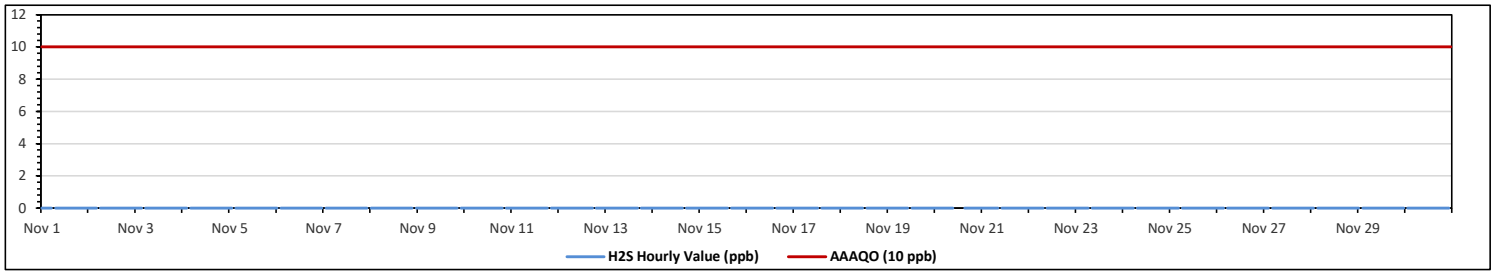
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb

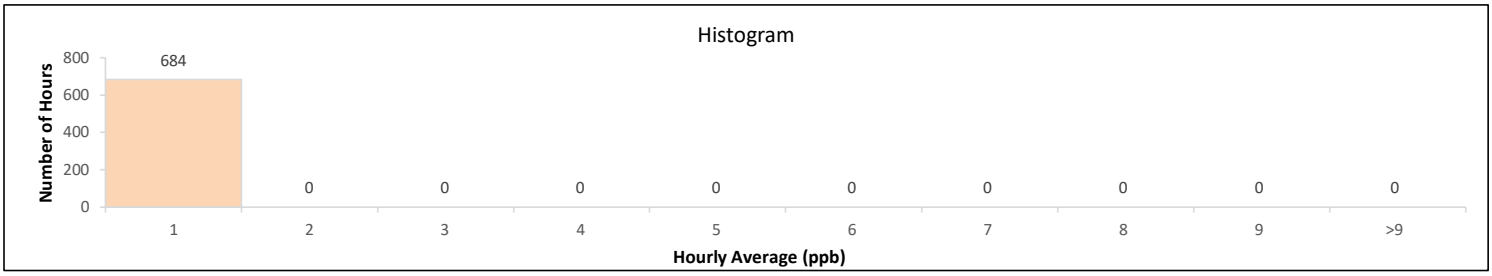
Number of 1-Hour Exceedances:	0		Number of 24-Hour Exceedances:	0	
Maximum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	0.0	ppb	on Nov 1	Hours of Data:	684
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on Nov 1	Hours 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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	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
Nov 5	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
Nov 6	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
Nov 7	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
Nov 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Nov 9	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
Nov 10	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
Nov 11	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
Nov 12	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
Nov 13	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
Nov 14	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
Nov 15	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
Nov 16	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
Nov 17	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
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	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
Nov 23	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
Nov 24	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
Nov 25	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
Nov 26	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
Nov 27	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
Nov 28	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
Nov 29	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
Nov 30	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
Diurnal Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
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.



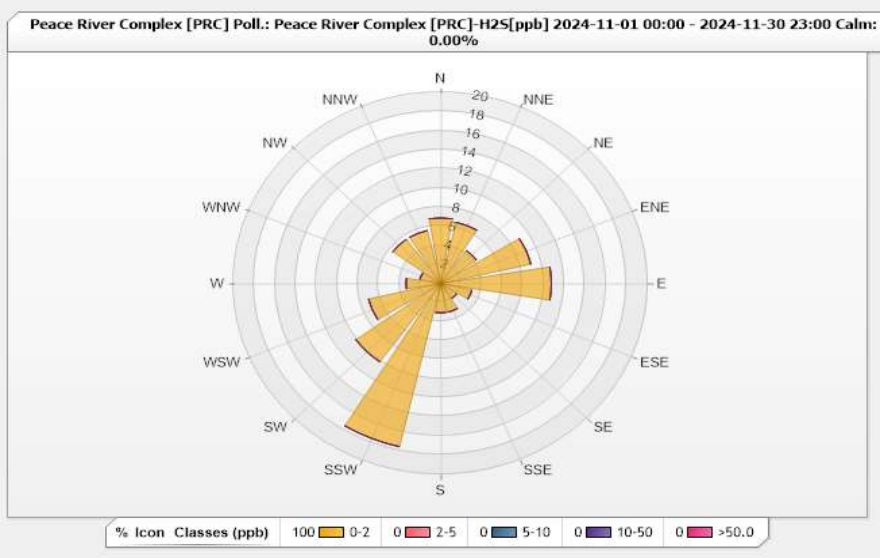


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.87	0	0	0	0	6.87
NNE	6.58	0	0	0	0	6.58
NE	4.24	0	0	0	0	4.24
ENE	8.92	0	0	0	0	8.92
E	10.67	0	0	0	0	10.67
ESE	3.07	0	0	0	0	3.07
SE	1.9	0	0	0	0	1.9
SSE	3.07	0	0	0	0	3.07
S	3.07	0	0	0	0	3.07
SSW	17.54	0	0	0	0	17.54
SW	10.09	0	0	0	0	10.09
WSW	7.16	0	0	0	0	7.16
W	3.36	0	0	0	0	3.36
WNW	2.05	0	0	0	0	2.05
NW	5.7	0	0	0	0	5.7
NNW	5.7	0	0	0	0	5.7
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

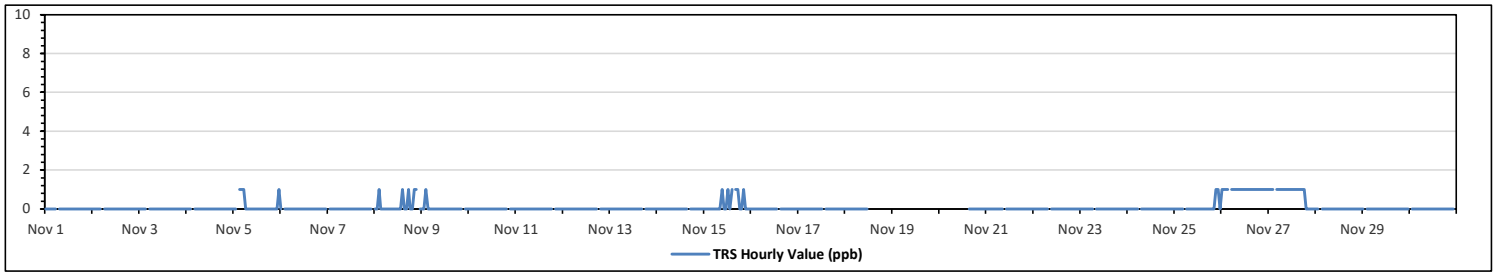
TOTAL REDUCED SULPHUR (TRS) in ppb

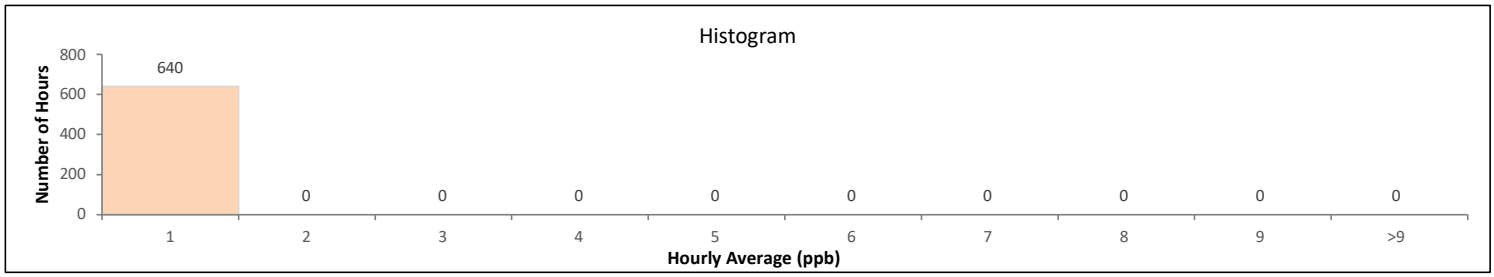
Maximum Hourly Value:	1	ppb	on Nov 5 at hr 3	Hours in Service:	720	
Maximum Daily Value:	1.0	ppb	on Nov 26	Hours of Data:	640	
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	44	
Minimum Daily Value:	0.0	ppb	on Nov 1	Hours of Calibration:	36	
Monthly Average:	0.1	ppb		Operational Uptime:	93.9	

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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	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
Nov 5	0	0	S	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.2
Nov 6	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
Nov 7	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
Nov 8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	S	0	0	1	0.2
Nov 9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0.0
Nov 10	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
Nov 11	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
Nov 12	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
Nov 13	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
Nov 14	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
Nov 15	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	S	1	1	0	0	1	0	0	0	0	1	0.3
Nov 16	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
Nov 17	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
Nov 18	0	0	0	0	0	0	0	0	0	0	0	0	S	X	X	X	X	X	X	X	X	X	X	X	0	0	NA
Nov 19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	NRM	NRM	NRM	NRM	NRM	-	-	-
Nov 20	NRM	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	NA
Nov 21	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
Nov 22	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
Nov 23	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
Nov 24	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
Nov 25	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0.1
Nov 26	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0
Nov 27	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.8
Nov 28	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
Nov 29	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
Nov 30	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
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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	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.





Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 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

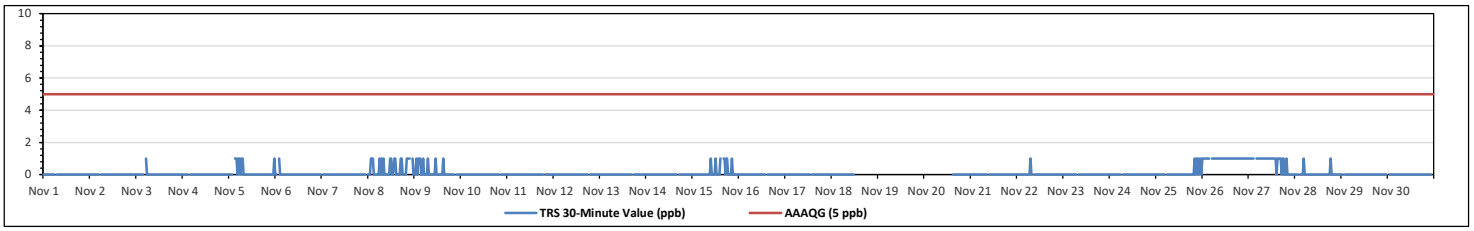
Maximum 30-Minute Value:	1	ppb	on Nov 3 at 05:00	# of Instrument in Service	1440		
Maximum Daily Value:	1.0	ppb	on Nov 26	# of Valid Measurements	1280		
Minimum 30-Minute Value:	0	ppb	Nov 1 at 00:00	# of Missing Measurements:	86		
Minimum Daily Value:	0.0	ppb	on Nov 1	# of Calibration:	74		
Monthly Average:	0.1	ppb		Operational Uptime:	94.0		

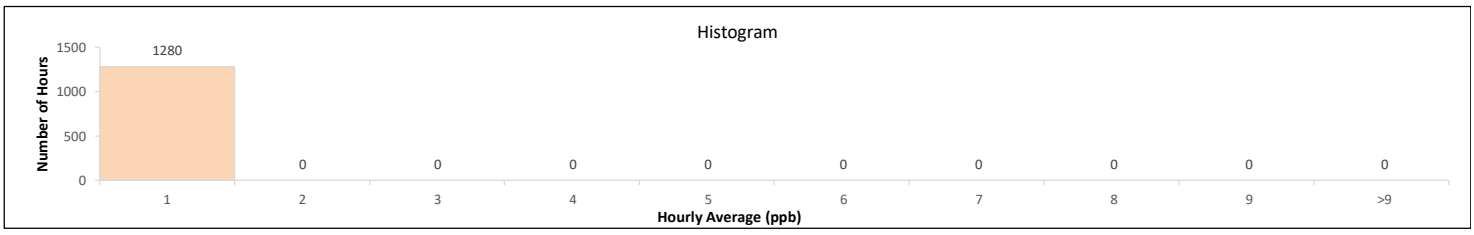
30-Minute Period Starting at (MST)	Nov 1	Nov 2	Nov 3	Nov 4	Nov 5	Nov 6	Nov 7	Nov 8	Nov 9	Nov 10	Nov 11	Nov 12	Nov 13	Nov 14	Nov 15	Nov 16	Nov 17	Nov 18	Nov 19	Nov 20	Nov 21	Nov 22	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Diurnal Maximum	Diurnal Average
00:00	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	S	1	0.1
00:30	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	S	1	0.1
01:00	0	0	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	S	0	1	0.1
01:30	0	0	0	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	S	0	1	0.1
02:00	0	0	0	0	S	1	0	1	1	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	S	0	0	1	0.2
02:30	0	0	0	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	S	0	0	1	0.2
03:00	0	0	0	S	1	0	0	0	1	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	S	0	0	0	1	0.1
03:30	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	S	0	0	0	1	0.1
04:00	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	S	1	0	0	0	1	0.1
04:30	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	S	1	1	0	0	1	0.1
05:00	0	S	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	S	1	1	0	0	0	1	0.2
05:30	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	S	1	1	0	0	0	1	0.1
06:00	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	S	0	1	1	0	0	0	1	0.1
06:30	S	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	S	0	1	1	0	0	0	1	0.1
07:00	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	X	NRM	0	1	S	0	0	1	1	0	0	0	1	0.2
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	S	0	0	1	1	0	0	0	1	0.1
08:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	X	NRM	0	S	0	0	0	1	1	0	0	0	1	0.1
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	S	0	0	0	1	1	0	0	0	1	0.1
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	S	0	0	0	0	1	1	0	0	0	1	0.1
09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	X	NRM	S	0	0	0	0	1	1	0	0	0	1	0.1
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	1	0.1
10:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	1	0.1
11:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
11:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
12:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	S	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	X	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
13:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	X	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
14:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	S	0	X	X	C	0	0	0	0	0	1	1	0	0	0	1	0.1
14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	X	X	C	0	0	0	0	0	1	0	0	0	0	1	0.1
15:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	S	0	0	X	X	0	0	0	0	0	0	1	1	0	0	0	1	0.1
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	X	X	0	0	0	0	0	0	1	1	0	0	0	1	0.1
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	X	X	0	0	0	0	0	0	1	1	0	0	0	1	0.1
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	X	X	0	0	0	0	0	0	1	1	0	0	0	1	0.1
17:00	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	X	C	0	0	0	0	0	0	1	0	0	0	0	1	0.1
17:30	0	0	0	0	0	0	0	1	0	0	0	0	S	0	1	0	0	X	C	0	0	0	0	0	0	1	1	0	0	0	1	0.1
18:00	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0	0	X	C	0	0	0	0	0	0	1	1	0	0	0	1	0.1
18:30	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	X	C	0	0	0	0	0	0	1	0	1	0	0	1	0.1
19:00	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	X	C	0	0	0	0	0	0	1	0	0	0	0	1	0.0
19:30	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	X	C	0	0	0	0	0	0	1	1	0	0	0	1	0.1
20:00	0	0	0	0	0	0	0	1	0	S	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	0	1	0.1
20:30	0	0	0	0	0	0	0	1	0	S	0	0	0	0	1	0	0	X	NRM	0	0	0	0	0	0	1	0	0	0	0	1	0.1
21:00	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	0	1	0.1
21:30	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	0	1	0.1
22:00	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	0	1	0	0	0	0	1	0.0
22:30	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	0	1	0.1
23:00	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	1	1	0	0	0	S	1	0.1
23:30	0	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	X	NRM	0	0	0	0	0	0	1	0	0	0	S	1	0.1
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	1	0	0	0	0		
Maximum	0	0	1	0	1	1	0	1	1	0	0	0	0	0	1	0	0	0	-	0	0	1	0	0	1	1	1	1	0	0		
Average	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	NA	-	NA	0.0	0.0	0.0	0.0	0.1	1.0	0.7	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.



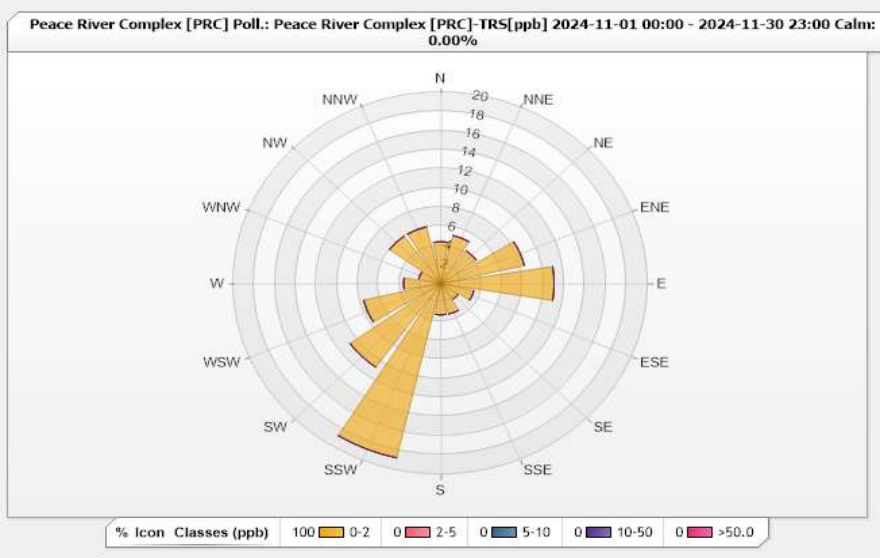


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 88.89% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.38	0	0	0	0	4.38
NNE	5.16	0	0	0	0	5.16
NE	4.22	0	0	0	0	4.22
ENE	8.28	0	0	0	0	8.28
E	10.94	0	0	0	0	10.94
ESE	3.28	0	0	0	0	3.28
SE	2.03	0	0	0	0	2.03
SSE	3.28	0	0	0	0	3.28
S	3.28	0	0	0	0	3.28
SSW	18.75	0	0	0	0	18.75
SW	10.78	0	0	0	0	10.78
WSW	7.66	0	0	0	0	7.66
W	3.59	0	0	0	0	3.59
WNW	2.19	0	0	0	0	2.19
NW	6.09	0	0	0	0	6.09
NNW	6.09	0	0	0	0	6.09
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

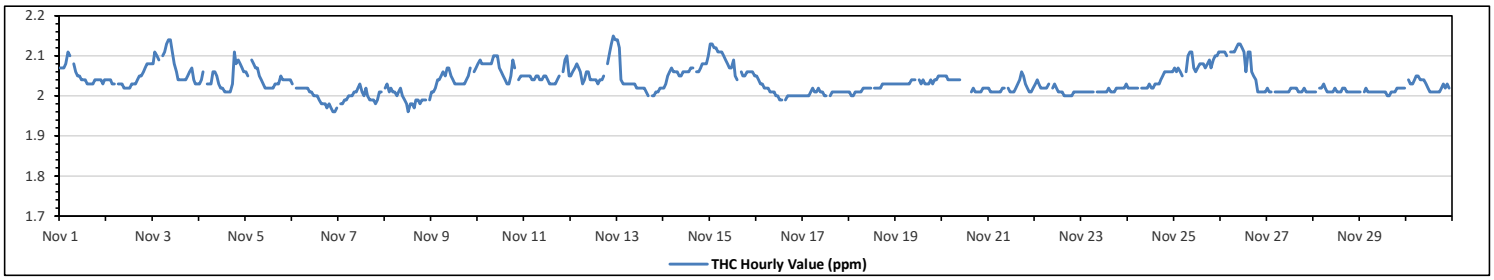
TOTAL HYDROCARBONS (THC) in ppm

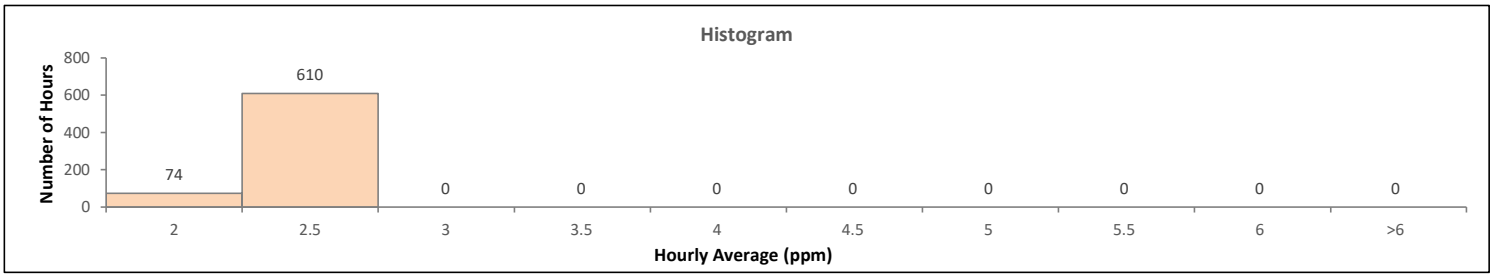
Maximum Hourly Value:	2.15	ppm	on Nov 12 at hr 22	Hours in Service:	720
Maximum Daily Value:	2.08	ppm	on Nov 15	Hours of Data:	684
Minimum Hourly Value:	1.96	ppm	on Nov 6 at hr 21	Hours of Missing Data:	0
Minimum Daily Value:	2.00	ppm	on Nov 8	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational 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			
Nov 1	2.07	2.07	2.07	2.08	2.11	2.10	S	2.08	2.06	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.03	2.04	2.03	2.11	2.05
Nov 2	2.04	2.04	2.04	2.03	2.03	S	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.05	2.05	2.06	2.07	2.08	2.08	2.08	2.02	2.08	2.04
Nov 3	2.08	2.11	2.10	2.09	S	2.10	2.11	2.13	2.14	2.14	2.11	2.08	2.06	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.07	2.04	2.03	2.03	2.03	2.14	2.08
Nov 4	2.03	2.04	2.06	S	2.03	2.03	2.03	2.06	2.06	2.05	2.03	2.02	2.02	2.01	2.01	2.01	2.01	2.03	2.11	2.08	2.09	2.08	2.07	2.06	2.01	2.11	2.04
Nov 5	2.06	2.05	S	2.09	2.08	2.07	2.07	2.05	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.05	2.04	2.04	2.04	2.04	2.04	2.02	2.09	2.04
Nov 6	2.03	S	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.97	1.98	1.97	1.96	1.96	1.97	1.96	2.03	2.00
Nov 7	S	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.01	2.00	2.02	2.00	1.99	1.99	1.99	1.98	1.99	2.01	2.01	S	1.98	2.03	2.00
Nov 8	2.02	2.03	2.01	2.02	2.01	2.01	2.00	2.01	2.02	2.00	1.99	1.98	1.96	1.98	1.98	1.97	1.99	1.99	1.98	1.99	1.99	1.99	S	1.99	1.96	2.03	2.00
Nov 9	2.01	2.01	2.02	2.04	2.04	2.05	2.06	2.05	2.07	2.07	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.05	2.07	S	2.06	2.07	2.01	2.07	2.04
Nov 10	2.08	2.09	2.08	2.08	2.08	2.08	2.08	2.08	2.10	2.10	2.10	2.07	2.06	2.05	2.04	2.03	2.03	2.05	2.09	2.07	S	2.04	2.05	2.05	2.03	2.10	2.07
Nov 11	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.04	2.04	2.05	2.05	2.04	2.03	2.03	2.03	2.03	2.04	2.05	S	2.06	2.09	2.10	2.05	2.03	2.10	2.05
Nov 12	2.05	2.06	2.07	2.08	2.07	2.06	2.03	2.04	2.06	2.06	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.05	S	2.08	2.11	2.13	**2.15**	2.14	2.03	**2.15**	2.07
Nov 13	2.14	2.12	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.00	S	2.00	2.00	2.01	2.01	2.02	2.02	2.00	2.14	2.03
Nov 14	2.02	2.03	2.05	2.06	2.07	2.06	2.06	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.07	2.07	S	2.06	2.06	2.07	2.08	2.08	2.08	2.10	2.02	2.10	2.06
Nov 15	2.13	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.07	2.09	2.05	2.04	S	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.05	2.04	2.13	**2.08**
Nov 16	2.05	2.04	2.03	2.03	2.02	2.02	2.02	2.01	2.01	2.01	2.00	2.00	1.99	1.99	S	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	2.05	2.01
Nov 17	2.00	2.00	2.00	2.00	2.01	2.02	2.01	2.01	2.02	2.01	2.01	2.00	2.00	S	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.02	2.01
Nov 18	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.00	2.03	2.02
Nov 19	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	S	2.04	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.05	2.05	2.03	2.05	2.04
Nov 20	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	C	C	C	C	C	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.01	2.05	2.03
Nov 21	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	S	2.02	2.01	2.01	2.01	2.02	2.03	2.04	2.06	2.05	2.03	2.02	2.01	2.01	2.02	2.01	2.06	2.02
Nov 22	2.03	2.04	2.03	2.02	2.02	2.02	2.02	2.03	S	2.02	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.04	2.02
Nov 23	2.01	2.01	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.03	2.01	2.03	2.01
Nov 24	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	2.03	2.03	2.03	2.04	2.05	2.06	2.06	2.06	2.06	2.06	2.02	2.06	2.03
Nov 25	2.07	2.06	2.07	2.06	2.05	S	2.06	2.10	2.11	2.11	2.07	2.06	2.07	2.08	2.08	2.08	2.07	2.08	2.09	2.07	2.09	2.10	2.10	2.11	2.05	2.11	2.08
Nov 26	2.11	2.11	2.11	2.10	S	2.11	2.11	2.11	2.12	2.13	2.13	2.12	2.11	2.06	2.11	2.11	2.06	2.05	2.04	2.01	2.01	2.01	2.01	2.01	2.01	2.13	2.08
Nov 27	2.02	2.01	2.01	S	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.02	2.01
Nov 28	2.01	2.01	S	2.02	2.02	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.03	2.01
Nov 29	2.01	S	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.00	2.02	2.01
Nov 30	S	2.04	2.03	2.03	2.04	2.05	2.05	2.04	2.04	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	2.02	2.03	2.02	2.03	2.02	S	2.01	2.05	2.03
Diurnal Maximum	2.14	2.13	2.12	2.12	2.11	2.11	2.11	2.13	2.14	2.14	2.13	2.12	2.11	2.08	2.11	2.11	2.07	2.08	2.11	2.08	2.11	2.13	2.15	2.14			
Diurnal Average	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.03	2.02	2.02	2.03	2.03	2.03	2.03	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.



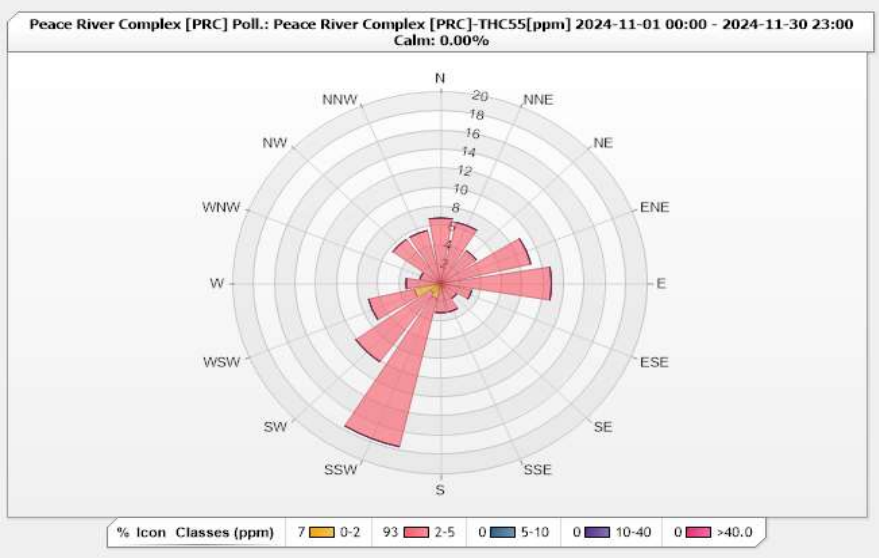


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	6.87	0	0	0	6.87
NNE	0	6.58	0	0	0	6.58
NE	0	4.24	0	0	0	4.24
ENE	0	8.92	0	0	0	8.92
E	0	10.67	0	0	0	10.67
ESE	0	3.07	0	0	0	3.07
SE	0.44	1.46	0	0	0	1.9
SSE	0.29	2.78	0	0	0	3.07
S	0.15	2.92	0	0	0	3.07
SSW	1.61	15.94	0	0	0	17.55
SW	1.17	8.92	0	0	0	10.09
WSW	2.63	4.53	0	0	0	7.16
W	0.29	3.07	0	0	0	3.36
WNW	0	2.05	0	0	0	2.05
NW	0.44	5.26	0	0	0	5.7
NNW	0	5.7	0	0	0	5.7
Summary	7.02	92.98	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

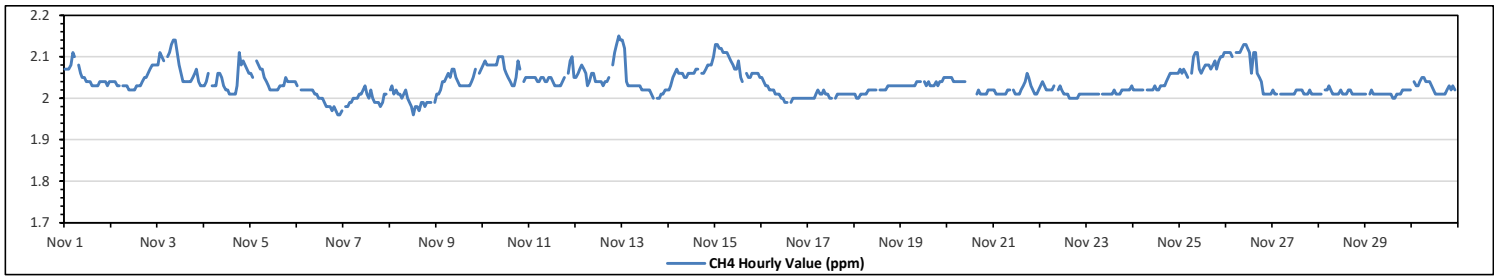
METHANE (CH4) in ppm

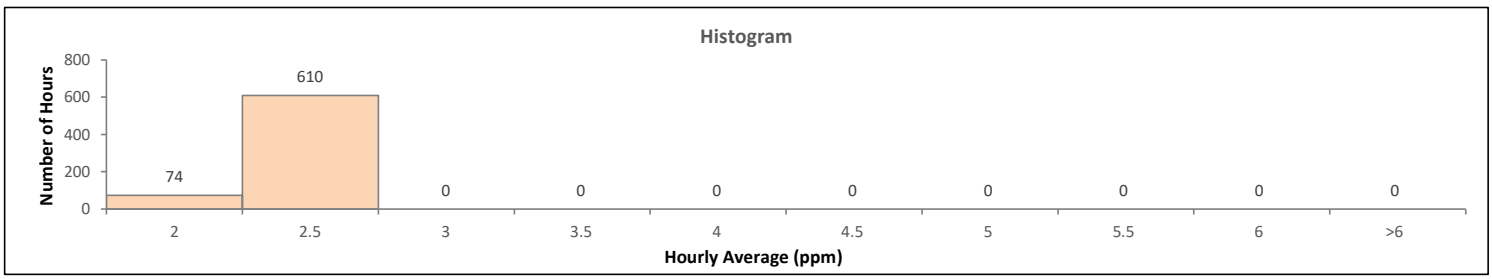
Maximum Hourly Value:	2.15	ppm	on Nov 12 at hr 22	Hours in Service:	720	
Maximum Daily Value:	2.08	ppm	on Nov 15	Hours of Data:	684	
Minimum Hourly Value:	1.96	ppm	on Nov 6 at hr 21	Hours of Missing Data:	0	
Minimum Daily Value:	2.00	ppm	on Nov 8	Hours of Calibration:	36	
Monthly Average:	2.04	ppm		Operational 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			
Nov 1	2.07	2.07	2.07	2.08	2.11	2.10	S	2.08	2.06	2.05	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.03	2.04	2.03	2.11	2.05
Nov 2	2.04	2.04	2.04	2.03	2.03	S	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.05	2.05	2.06	2.07	2.08	2.08	2.08	2.02	2.08	2.04
Nov 3	2.08	2.11	2.10	2.09	S	2.10	2.11	2.13	2.14	2.14	2.11	2.08	2.06	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.07	2.04	2.03	2.03	2.03	2.14	2.08
Nov 4	2.03	2.04	2.06	S	2.03	2.03	2.03	2.06	2.06	2.05	2.03	2.02	2.02	2.01	2.01	2.01	2.01	2.03	2.11	2.08	2.09	2.08	2.07	2.06	2.01	2.11	2.04
Nov 5	2.06	2.05	S	2.09	2.08	2.07	2.07	2.05	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.05	2.04	2.04	2.04	2.04	2.04	2.02	2.09	2.04
Nov 6	2.03	S	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.97	1.98	1.97	1.96	1.96	1.97	1.96	2.03	2.00
Nov 7	S	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.01	2.00	2.02	2.00	1.99	1.99	1.99	1.98	1.99	2.01	2.01	S	1.98	2.03	2.00
Nov 8	2.02	2.03	2.01	2.02	2.01	2.01	2.00	2.01	2.02	2.00	1.99	1.98	1.96	1.98	1.98	1.97	1.99	1.99	1.98	1.99	1.99	1.99	S	1.99	1.96	2.03	2.00
Nov 9	2.01	2.01	2.02	2.04	2.04	2.05	2.06	2.05	2.07	2.07	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.05	2.07	S	2.06	2.07	2.01	2.07	2.04
Nov 10	2.08	2.09	2.08	2.08	2.08	2.08	2.08	2.08	2.10	2.10	2.10	2.07	2.06	2.05	2.04	2.03	2.03	2.05	2.09	2.07	S	2.04	2.05	2.05	2.03	2.10	2.07
Nov 11	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.04	2.04	2.05	2.05	2.04	2.03	2.03	2.03	2.03	2.04	2.05	S	2.06	2.09	2.10	2.05	2.03	2.10	2.05
Nov 12	2.05	2.06	2.07	2.08	2.07	2.06	2.03	2.04	2.06	2.06	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.05	S	2.08	2.11	2.13	**2.15**	2.14	2.03	**2.15**	2.07
Nov 13	2.14	2.12	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.00	S	2.00	2.00	2.01	2.01	2.02	2.02	2.00	2.14	2.03
Nov 14	2.02	2.03	2.05	2.06	2.07	2.06	2.06	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.07	2.07	S	2.06	2.06	2.07	2.08	2.08	2.08	2.10	2.02	2.10	2.06
Nov 15	2.13	2.13	2.12	2.12	2.11	2.11	2.11	2.10	2.09	2.08	2.07	2.07	2.09	2.05	2.04	S	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.05	2.04	2.13	**2.08**
Nov 16	2.05	2.04	2.03	2.03	2.02	2.02	2.02	2.01	2.01	2.01	2.00	2.00	1.99	1.99	S	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	2.05	2.01
Nov 17	2.00	2.00	2.00	2.00	2.01	2.02	2.01	2.01	2.02	2.01	2.01	2.00	2.00	S	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.02	2.01
Nov 18	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	S	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.00	2.03	2.02
Nov 19	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	S	2.04	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.05	2.05	2.03	2.05	2.04
Nov 20	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	C	C	C	C	C	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.01	2.05	2.03
Nov 21	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	S	2.02	2.01	2.01	2.01	2.02	2.03	2.04	2.06	2.05	2.03	2.02	2.01	2.01	2.02	2.01	2.06	2.02
Nov 22	2.03	2.04	2.03	2.02	2.02	2.02	2.02	2.03	S	2.02	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.04	2.02
Nov 23	2.01	2.01	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.03	2.01	2.03	2.01
Nov 24	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	2.03	2.03	2.03	2.04	2.05	2.06	2.06	2.06	2.06	2.06	2.02	2.06	2.03
Nov 25	2.07	2.06	2.07	2.06	2.05	S	2.06	2.10	2.11	2.11	2.07	2.06	2.07	2.08	2.08	2.08	2.07	2.08	2.09	2.07	2.09	2.10	2.10	2.11	2.05	2.11	2.08
Nov 26	2.11	2.11	2.11	2.10	S	2.11	2.11	2.11	2.12	2.13	2.13	2.12	2.11	2.06	2.11	2.11	2.06	2.05	2.04	2.01	2.01	2.01	2.01	2.01	2.01	2.13	2.08
Nov 27	2.02	2.01	2.01	S	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.02	2.01
Nov 28	2.01	2.01	S	2.02	2.02	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.03	2.01
Nov 29	2.01	S	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.00	2.02	2.01
Nov 30	S	2.04	2.03	2.03	2.04	2.05	2.05	2.04	2.04	2.04	2.03	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.03	2.02	2.03	2.02	S	2.01	2.05	2.03
Diurnal Maximum	2.14	2.13	2.12	2.12	2.11	2.11	2.11	2.13	2.14	2.14	2.13	2.12	2.11	2.08	2.11	2.11	2.07	2.08	2.11	2.08	2.11	2.13	2.15	2.14			
Diurnal Average	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.03	2.02	2.02	2.03	2.03	2.03	2.03	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.



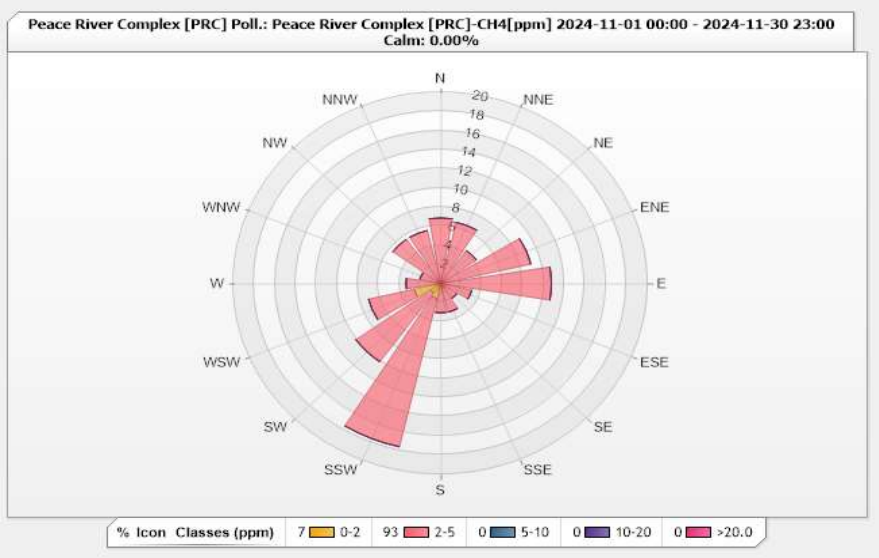


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	6.87	0	0	0	6.87
NNE	0	6.58	0	0	0	6.58
NE	0	4.24	0	0	0	4.24
ENE	0	8.92	0	0	0	8.92
E	0	10.67	0	0	0	10.67
ESE	0	3.07	0	0	0	3.07
SE	0.44	1.46	0	0	0	1.9
SSE	0.29	2.78	0	0	0	3.07
S	0.15	2.92	0	0	0	3.07
SSW	1.61	15.94	0	0	0	17.55
SW	1.17	8.92	0	0	0	10.09
WSW	2.63	4.53	0	0	0	7.16
W	0.29	3.07	0	0	0	3.36
WNW	0	2.05	0	0	0	2.05
NW	0.44	5.26	0	0	0	5.7
NNW	0	5.7	0	0	0	5.7
Summary	7.02	92.98	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

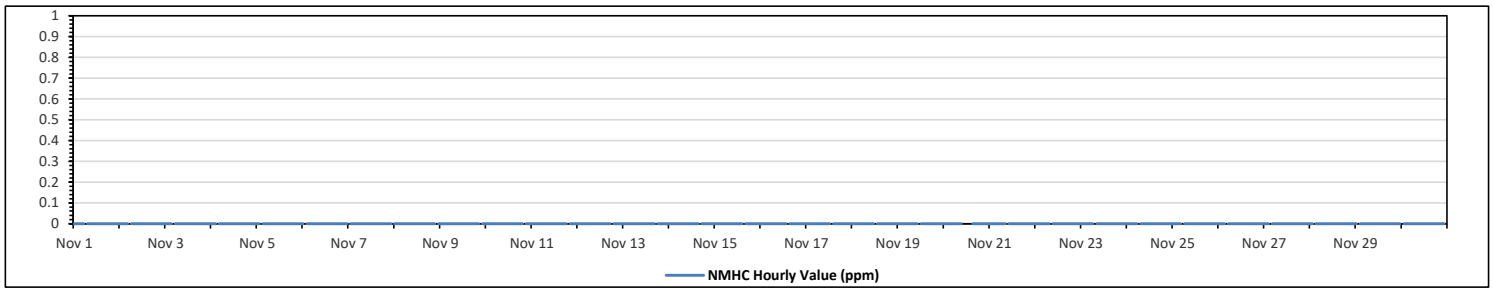
NON-METHANE HYDROCARBONS (NMHC) in ppm

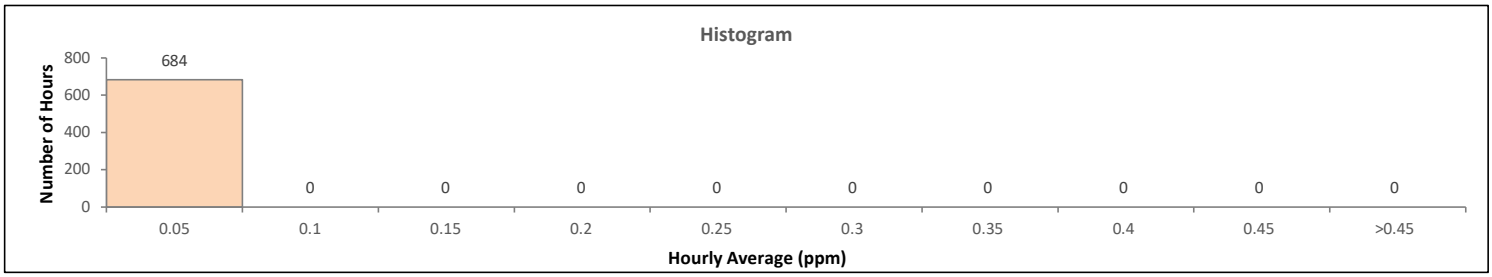
Maximum Hourly Value:	0.00	ppm	on Nov 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on Nov 1	Hours of Data:	684
Minimum Hourly Value:	0.00	ppm	on Nov 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on Nov 1	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational Uptime:	100.0

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



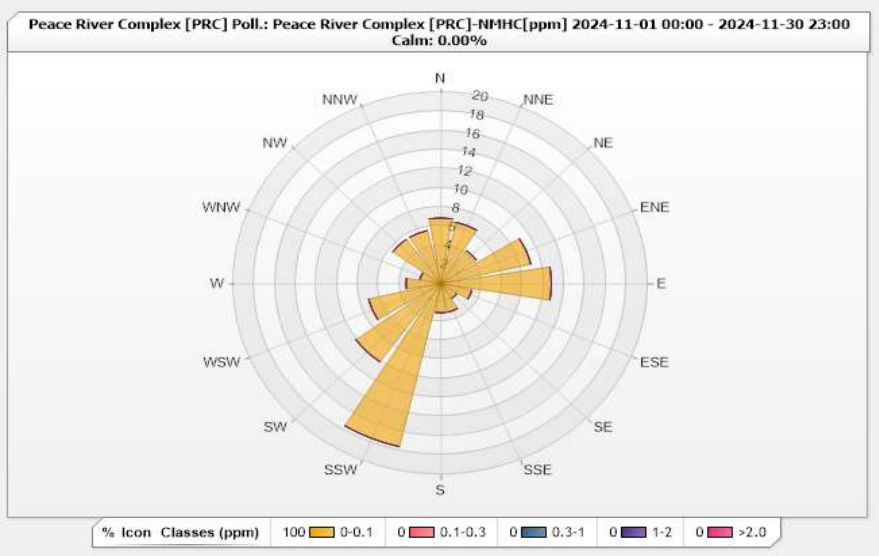


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.87	0	0	0	0	6.87
NNE	6.58	0	0	0	0	6.58
NE	4.24	0	0	0	0	4.24
ENE	8.92	0	0	0	0	8.92
E	10.67	0	0	0	0	10.67
ESE	3.07	0	0	0	0	3.07
SE	1.9	0	0	0	0	1.9
SSE	3.07	0	0	0	0	3.07
S	3.07	0	0	0	0	3.07
SSW	17.54	0	0	0	0	17.54
SW	10.09	0	0	0	0	10.09
WSW	7.16	0	0	0	0	7.16
W	3.36	0	0	0	0	3.36
WNW	2.05	0	0	0	0	2.05
NW	5.7	0	0	0	0	5.7
NNW	5.7	0	0	0	0	5.7
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

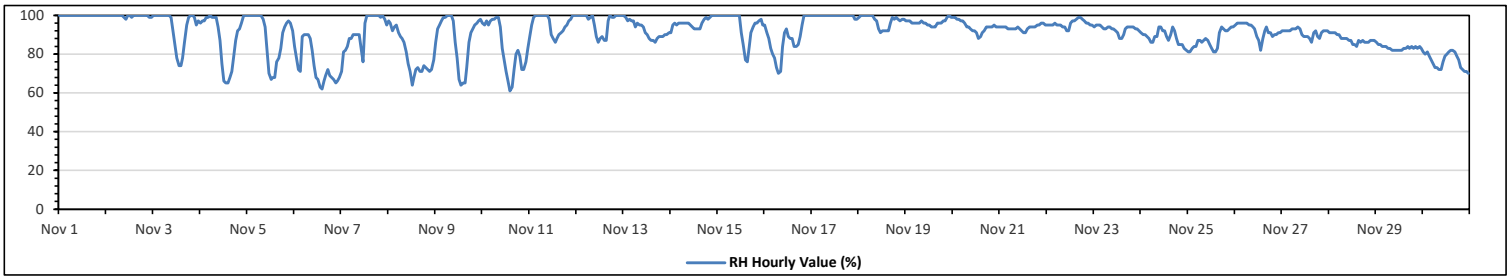
Maximum Hourly Value:	100 %	on Nov 1 at hr 0	Hours in Service:	720	
Maximum Daily Value:	100.0 %	on Nov 1	Hours of Data:	720	
Minimum Hourly Value:	61 %	on Nov 10 at hr 14	Hours of Missing Data:	0	
Minimum Daily Value:	74.1 %	on Nov 6	Hours of Calibration:	0	
Monthly Average:	90.9 %		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	**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**
Nov 2	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	**100**	**100**	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	99	98	**100**	99.8
Nov 3	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	92	85	78	74	74	78	86	95	99	**100**	**100**	99	95	97	74	**100**	93.8
Nov 4	96	97	97	99	99	**100**	99	99	99	94	87	75	66	65	65	68	71	79	87	92	93	96	**100**	**100**	65	**100**	88.5
Nov 5	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	94	82	70	67	68	68	76	78	83	91	94	96	97	96	92	67	**100**	89.6
Nov 6	84	78	72	71	89	90	90	90	88	82	74	68	67	63	62	66	69	72	69	68	67	65	66	68	62	90	**74.1**
Nov 7	71	81	82	84	88	88	90	90	90	90	83	76	96	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	**100**	98	95	71	**100**	91.7
Nov 8	97	96	92	94	95	91	89	88	86	81	75	71	64	68	72	73	71	71	74	73	72	71	72	77	64	97	79.7
Nov 9	86	93	95	97	99	99	**100**	**100**	**100**	97	86	78	67	64	65	65	73	86	91	93	95	96	97	98	64	**100**	88.3
Nov 10	96	95	97	95	97	98	98	99	99	94	83	77	71	66	**61**	63	72	80	82	79	72	72	76	83	**61**	99	83.5
Nov 11	89	95	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	90	88	86	88	90	91	92	94	95	97	98	**100**	**100**	86	**100**	95.4
Nov 12	**100**	**100**	**100**	**100**	**100**	**100**	98	99	**100**	95	89	86	88	89	87	87	97	**100**	99	99	**100**	**100**	**100**	**100**	86	**100**	96.4
Nov 13	**100**	99	97	98	97	97	94	96	95	95	94	91	90	88	87	87	86	88	89	89	89	90	90	91	86	**100**	92.4
Nov 14	91	95	96	95	96	96	96	96	96	96	95	94	93	93	93	93	96	98	99	98	99	**100**	**100**	**100**	91	**100**	96.0
Nov 15	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	91	85	77	76	84	91	94	96	96	97	98	95	76	**100**	95.0
Nov 16	95	91	88	83	80	78	73	70	71	84	91	93	89	88	88	84	84	85	89	95	**100**	**100**	**100**	**100**	70	**100**	87.5
Nov 17	**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
Nov 18	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	97	93	91	92	92	92	92	96	99	98	99	98	97	98	98	91	**100**	97.0
Nov 19	97	97	97	96	96	96	96	96	97	96	96	95	95	94	94	94	96	96	96	97	97	99	**100**	99	94	**100**	96.3
Nov 20	99	99	98	98	97	97	96	94	94	93	92	92	91	88	89	91	92	94	94	94	94	95	94	94	88	99	94.1
Nov 21	94	94	94	94	93	93	93	93	93	94	93	92	91	91	93	94	94	94	94	95	95	96	96	95	91	96	93.7
Nov 22	95	95	95	95	96	95	95	95	94	94	92	92	96	97	97	98	99	99	98	97	96	96	95	95	92	99	95.7
Nov 23	94	95	95	95	94	93	93	94	94	93	93	92	91	88	88	90	93	94	94	94	94	93	93	92	88	95	92.9
Nov 24	91	90	90	89	88	86	86	89	89	94	94	92	92	89	87	90	94	92	88	85	85	85	83	82	82	94	88.8
Nov 25	81	81	83	84	84	87	87	86	87	88	87	85	83	81	81	83	91	94	93	92	92	93	94	94	81	94	87.1
Nov 26	95	96	96	96	96	96	96	95	95	94	93	89	87	82	88	92	94	91	91	89	90	90	91	91	82	96	92.2
Nov 27	92	92	92	92	92	93	93	93	94	93	90	89	89	89	88	86	91	92	89	88	91	92	92	92	86	94	91.0
Nov 28	91	91	91	91	90	90	88	88	88	88	87	87	85	85	84	87	86	87	86	86	86	87	87	87	84	91	87.6
Nov 29	86	85	85	84	84	84	83	83	82	82	82	82	82	82	83	83	84	83	84	83	84	83	84	83	82	86	83.3
Nov 30	81	80	81	79	77	75	73	73	72	72	76	79	80	81	82	82	81	79	77	73	72	71	71	70	70	82	76.5
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	93.3	93.8	93.7	93.6	94.2	94.1	93.5	93.5	93.3	92.6	89.8	87.0	85.6	84.5	84.4	85.6	88.3	90.5	91.3	91.4	91.6	91.9	92.1	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 - November 2024

Summary of Hourly Averages

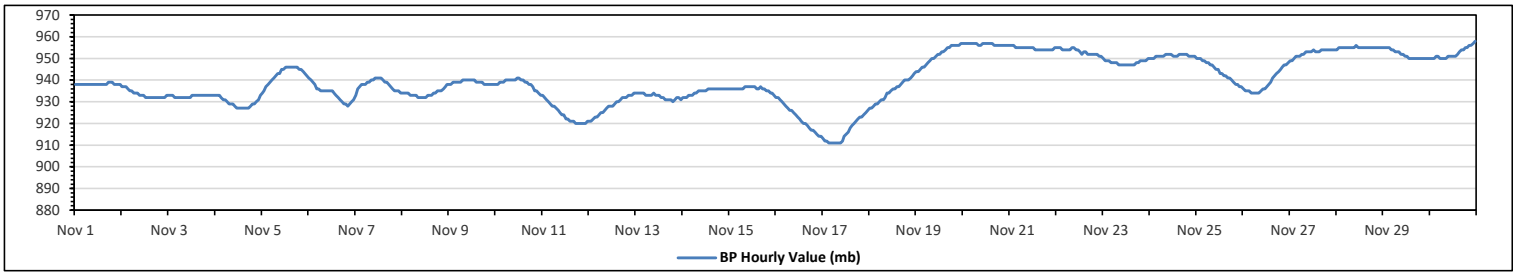
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	958	mb	on Nov 30 at hr 23	Hours in Service:	720	
Maximum Daily Value:	957	mb	on Nov 20	Hours of Data:	720	
Minimum Hourly Value:	911	mb	on Nov 17 at hr 3	Hours of Missing Data:	0	
Minimum Daily Value:	916	mb	on Nov 17	Hours of Calibration:	0	
Monthly Average:	940	mb		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Nov 1	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	939	939	939	938	938	938	938	938	939	938
Nov 2	937	937	937	936	935	935	934	934	934	933	933	933	932	932	932	932	932	932	932	932	932	932	932	933	932	937	933
Nov 3	933	933	933	932	932	932	932	932	932	932	932	932	933	933	933	933	933	933	933	933	933	933	933	933	932	933	933
Nov 4	933	933	933	932	931	931	930	929	929	929	928	927	927	927	927	927	927	927	928	929	929	930	931	933	927	933	929
Nov 5	934	935	937	938	939	940	941	942	943	943	945	945	946	946	946	946	946	946	946	945	945	944	943	942	934	946	943
Nov 6	941	940	939	938	936	936	935	935	935	935	935	935	935	934	933	932	931	930	929	929	928	929	930	931	928	941	934
Nov 7	933	936	937	938	938	938	939	939	940	940	941	941	941	941	940	939	939	938	937	936	935	935	935	934	933	941	938
Nov 8	934	934	934	934	933	933	933	933	932	932	932	932	932	933	933	933	934	934	935	935	935	936	937	938	932	938	934
Nov 9	938	938	939	939	939	939	939	940	940	940	940	940	940	940	939	939	939	939	938	938	938	938	938	938	938	940	939
Nov 10	938	938	939	939	939	940	940	940	940	940	940	941	941	940	940	939	939	938	938	937	935	935	934	933	933	941	938
Nov 11	933	932	931	930	929	928	928	927	926	925	924	924	922	922	921	921	921	920	920	920	920	920	920	921	920	933	924
Nov 12	921	921	922	923	923	924	925	925	926	927	928	928	928	929	930	930	931	932	932	932	933	933	933	934	921	934	928
Nov 13	934	934	934	934	934	933	933	933	933	934	933	933	933	932	932	931	931	931	931	930	931	932	932	931	930	934	932
Nov 14	932	932	932	933	933	933	934	934	935	935	935	935	935	936	936	936	936	936	936	936	936	936	936	936	932	936	935
Nov 15	936	936	936	936	936	936	936	936	937	937	937	937	937	937	936	936	937	936	936	935	935	934	934	933	933	937	936
Nov 16	932	932	931	930	929	928	927	926	926	925	924	923	922	921	920	920	919	918	917	917	916	915	914	914	914	932	923
Nov 17	913	912	912	**911**	**911**	**911**	**911**	**911**	**911**	**911**	912	914	915	916	918	919	920	921	922	923	923	924	925	926	**911**	926	**916**
Nov 18	927	927	928	929	929	930	931	931	932	934	934	935	936	936	937	937	938	939	940	940	940	941	942	943	927	943	935
Nov 19	944	944	945	946	946	947	948	949	950	950	951	952	952	953	953	954	955	955	956	956	956	956	956	957	944	957	951
Nov 20	957	957	957	957	957	957	957	957	956	956	957	957	957	957	957	957	956	956	956	956	956	956	956	956	956	957	**957**
Nov 21	956	956	956	955	955	955	955	955	955	955	955	955	955	954	954	954	954	954	954	954	954	954	954	955	954	956	955
Nov 22	955	955	955	954	954	954	954	954	955	955	954	954	953	952	953	953	952	952	952	952	952	952	951	951	951	955	953
Nov 23	950	949	949	949	948	948	948	948	947	947	947	947	947	947	947	947	947	948	948	949	949	949	949	950	947	950	948
Nov 24	950	950	950	951	951	951	951	951	952	952	952	952	951	951	951	952	952	952	952	952	951	951	951	951	950	952	951
Nov 25	950	950	950	949	949	948	948	947	947	946	945	945	943	943	942	942	941	941	940	939	938	938	937	937	937	950	944
Nov 26	936	935	935	935	934	934	934	934	934	935	936	936	937	938	939	941	942	943	944	945	946	947	947	948	934	948	939
Nov 27	949	949	950	951	951	951	952	952	953	953	953	953	954	953	953	953	954	954	954	954	954	954	954	954	949	954	953
Nov 28	954	955	955	955	955	955	955	955	955	955	956	955	955	955	955	955	955	955	955	955	955	955	955	955	954	956	955
Nov 29	955	955	955	955	954	954	953	953	953	952	952	951	951	950	950	950	950	950	950	950	950	950	950	950	950	955	952
Nov 30	950	950	950	951	951	950	950	950	950	951	951	951	951	951	952	953	954	954	955	955	956	956	957	**958**	950	**958**	952
Diurnal Maximum	957	957	957	957	957	957	957	957	956	956	957	957	957	957	957	957	956	956	956	956	956	956	957	958			
Diurnal Average	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940			

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

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

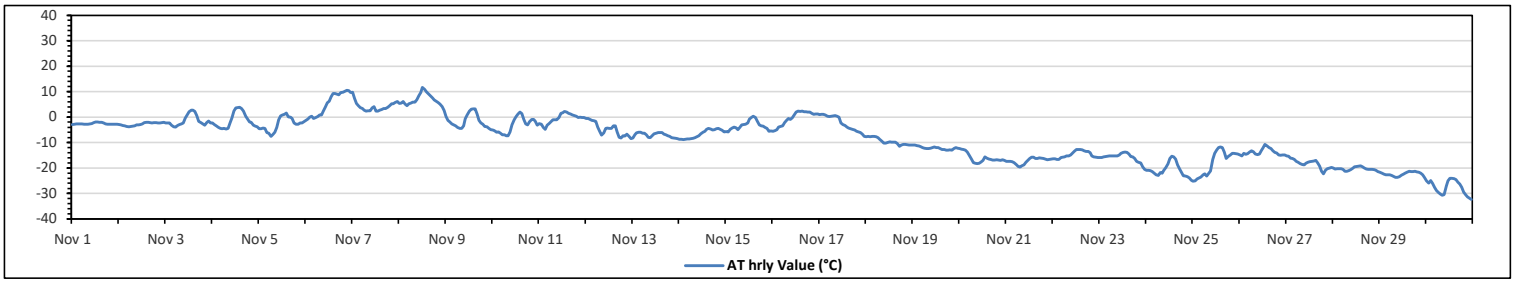
Maximum Hourly Value:	11.6	°C	on Nov 8 at hr 12	Hours in Service:	720	
Maximum Daily Value:	6.7	°C	on Nov 8	Hours of Data:	720	
Minimum Hourly Value:	-32.4	°C	on Nov 30 at hr 23	Hours of Missing Data:	0	
Minimum Daily Value:	-27.7	°C	on Nov 30	Hours of Calibration:	0	
Monthly Average:	-8.4	°C		Operational 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
Nov 1	-2.9	-2.8	-2.6	-2.6	-2.7	-2.7	-2.8	-2.8	-2.8	-2.7	-2.5	-2.2	-2	-2	-2.1	-2.1	-2.3	-2.6	-2.8	-2.8	-2.8	-2.8	-2.8	-2.8	-2.9	-2.0	-2.6
Nov 2	-2.9	-3.1	-3.3	-3.5	-3.7	-3.8	-3.7	-3.6	-3.4	-3.1	-3	-2.9	-2.6	-2.2	-2.1	-2.1	-2.2	-2.3	-2.2	-2.2	-2.3	-2.3	-2.2	-2.1	-3.8	-2.1	-2.8
Nov 3	-2.3	-2.3	-2.4	-3.2	-3.8	-3.9	-3.3	-2.9	-2.7	-2.3	-0.4	0.8	2.1	2.8	2.8	2.2	0.6	-1.6	-2.2	-2.7	-3.2	-2.2	-1.5	-2.3	-3.9	2.8	-1.4
Nov 4	-2.4	-2.9	-3.4	-4.1	-4.5	-4.6	-4.4	-4.7	-4.5	-2.4	-0.3	2.3	3.6	3.8	3.9	3.4	2.3	0.3	-0.8	-1.9	-2.1	-3.2	-3.6	-3.8	-4.7	3.9	-1.4
Nov 5	-4.6	-4.6	-4.3	-4.5	-6.1	-6.3	-7.6	-6.8	-6	-4.1	-1.1	0.4	0.8	1.1	1.6	0.1	0	-0.6	-2.3	-2.8	-2.8	-2.4	-2.3	-1.8	-7.6	1.6	-2.8
Nov 6	-1.2	-0.8	0	0.3	-0.6	-0.2	0.2	0.8	0.9	2.2	4	5.6	6.3	8	9.3	9.3	9	8.7	9.6	9.7	10.2	10.6	10.4	9.6	-1.2	10.6	5.1
Nov 7	9.7	7.4	5.4	4.5	3.7	3.4	2.7	2.4	2.5	2.5	3.6	4.1	2.4	2.4	2.7	3	3.3	3.4	3.9	4.4	5.3	5.3	5.7	6.1	2.4	9.7	4.2
Nov 8	5.4	5.5	6.1	5.1	4.5	5.3	5.5	5.8	5.9	6.9	8.3	9.6	**11.6**	10.9	9.9	9.1	8.4	7.5	6.8	6.3	5.7	5.1	4.1	2.6	2.6	**11.6**	**6.7**
Nov 9	0.2	-1.3	-1.9	-2.6	-3.1	-3.4	-4.1	-4.4	-4.4	-3.4	-0.7	0.9	2.3	3.1	3.2	3.2	1.3	-1.2	-2.3	-2.8	-3.7	-3.8	-4.5	-5	-5.0	3.2	-1.6
Nov 10	-5.1	-5.3	-5.9	-5.8	-6.3	-6.9	-6.9	-7.4	-7.4	-5.8	-3.1	-1.1	0.2	1.2	2	1.4	-0.9	-2.6	-3	-1.8	-0.9	-1	-1.7	-3.2	-7.4	2.0	-3.2
Nov 11	-2.5	-2.8	-4	-4.9	-3.2	-2.5	-1.8	-1.1	-1.1	-1.1	-0.2	1.5	1.7	2.2	1.9	1.5	1.2	0.9	0.6	0.3	-0.1	0	-0.2	-0.1	-4.9	2.2	-0.6
Nov 12	-0.5	-0.6	-0.9	-1.2	-1.4	-1.7	-3.9	-5.5	-7.1	-6.2	-4.4	-4.3	-4.5	-4.5	-3.4	-3.4	-5.9	-7.9	-8.2	-7.4	-7.5	-6.7	-7.5	-8.5	-8.5	-0.5	-4.7
Nov 13	-8.2	-6.9	-6.2	-6	-6	-6.4	-6.3	-6.9	-7.9	-8.1	-7.4	-6.5	-6.3	-6.1	-6.1	-6.1	-6.7	-7	-7.3	-7.6	-8.1	-8.2	-8.3	-8.5	-8.5	-6.0	-7.0
Nov 14	-8.8	-8.8	-8.9	-8.7	-8.6	-8.6	-8.5	-8.3	-8.1	-7.8	-7.3	-6.5	-6	-5.5	-4.8	-4.5	-4.7	-5.1	-5	-4.6	-4.5	-4.9	-5.2	-5.8	-8.9	-4.5	-6.6
Nov 15	-5.7	-5.8	-4.8	-4.3	-3.9	-4.2	-5	-4	-3.1	-2.9	-2.8	-2.3	-0.8	-0.1	0.3	-0.1	-1.7	-3	-3.5	-3.6	-4	-4.5	-5.5	-5.4	-5.8	0.3	-3.4
Nov 16	-5.6	-5.3	-5	-3.9	-3.7	-3.4	-2.2	-1.3	-0.6	-0.9	-0.3	0.9	2	2.4	2.2	2.3	2.1	2.1	2	1.9	1.5	1.1	1.2	1.2	-5.6	2.4	-0.4
Nov 17	1	1.1	1.1	0.8	0.3	0.2	0.3	0.4	0.6	0.3	0	-2.3	-2.9	-3.3	-3.9	-4.3	-4.6	-4.8	-5.1	-5.6	-5.8	-6.1	-6.7	-7.6	-7.6	1.1	-2.4
Nov 18	-7.7	-7.6	-7.7	-7.6	-7.6	-7.8	-8	-8.7	-9.4	-10.3	-10.2	-10	-9.7	-9.8	-9.8	-9.9	-10.4	-11.5	-10.9	-10.7	-10.7	-10.8	-10.9	-11	-11.5	-7.6	-9.5
Nov 19	-11	-11	-11.2	-11.4	-11.7	-11.9	-12.2	-12.3	-12.3	-12.2	-12	-11.8	-12	-11.9	-12.3	-12.7	-12.8	-13	-13	-12.9	-13	-12.3	-12	-12.2	-13.0	-11.0	-12.1
Nov 20	-12.4	-12.6	-12.7	-13	-13.8	-15	-16.5	-17.9	-18.2	-18.3	-18.2	-17.6	-17.1	-15.7	-16.1	-16.5	-16.7	-16.9	-16.9	-16.8	-16.9	-17	-16.8	-17	-18.3	-12.4	-16.1
Nov 21	-17.4	-17.4	-17.3	-17.5	-17.9	-18.6	-19.4	-19.7	-19.2	-18.8	-17.8	-17	-16.2	-15.8	-15.8	-16.3	-16.2	-16	-16.1	-16.2	-16.5	-16.8	-16.7	-16.5	-19.7	-15.8	-17.2
Nov 22	-16.4	-16.4	-16.6	-16.6	-15.9	-15.8	-15.6	-15.3	-15.2	-14.9	-14.2	-13.4	-12.7	-12.7	-12.7	-12.9	-13.2	-13.5	-13.5	-14	-15.3	-15.6	-15.8	-15.9	-16.6	-12.7	-14.8
Nov 23	-15.9	-15.9	-15.7	-15.5	-15.4	-15.3	-15.3	-15.2	-15.2	-15.2	-14.9	-14.3	-13.9	-13.8	-13.9	-14.5	-15.5	-15.6	-16.2	-17.3	-17.8	-18.1	-19.5	-20.5	-20.5	-13.8	-15.9
Nov 24	-21	-21	-21.1	-21.4	-22	-22.6	-22.9	-21.8	-22	-20.9	-19.9	-18.4	-16.3	-15.4	-15.6	-16.5	-18.7	-20.3	-21.6	-23.1	-23.2	-23.5	-23.9	-24.8	-24.8	-15.4	-20.7
Nov 25	-25.2	-25.1	-24.3	-23.9	-23.6	-22.6	-22.3	-23.2	-22.2	-21.2	-16.6	-14.3	-13	-11.9	-11.8	-12	-13.7	-16.2	-15.5	-14.8	-14.3	-14.3	-14.4	-14.5	-25.2	-11.8	-18.0
Nov 26	-14.9	-15.2	-14.3	-14.6	-14.4	-13.7	-13.2	-13.6	-14.5	-14.7	-14.5	-13.1	-12.1	-10.7	-11.4	-12	-12.4	-13.2	-13.9	-14.1	-14.9	-15	-14.8	-14.9	-15.2	-10.7	-13.8
Nov 27	-15.2	-15.4	-16.1	-16.3	-16.7	-17.3	-17.8	-18.3	-18.6	-18.7	-18.2	-17.7	-17.5	-17.4	-17.2	-17.1	-18.1	-19.3	-21.3	-22.3	-20.9	-20.2	-20	-19.8	-22.3	-15.2	-18.2
Nov 28	-20	-20.4	-20.2	-20.2	-20.2	-20.5	-21.3	-21.3	-21.1	-20.7	-20.1	-19.6	-19.4	-19.3	-19.2	-19.5	-20	-20.4	-20.5	-20.5	-20.5	-20.7	-21	-21.4	-21.4	-19.2	-20.3
Nov 29	-21.6	-22.1	-22.4	-22.6	-22.7	-22.7	-22.9	-23.3	-23.7	-23.7	-23.4	-22.8	-22.5	-22.1	-21.6	-21.3	-21.4	-21.4	-21.3	-21.5	-21.7	-22	-22.6	-23.8	-23.8	-21.3	-22.4
Nov 30	-25.1	-25.9	-25	-26.1	-27.6	-28.8	-29.5	-30.3	-30.7	-30.5	-27.1	-25.1	-24	-24	-24.2	-24.6	-25.6	-26.4	-27.6	-29.4	-30.5	-31.3	-31.9	**-32.4**	**-32.4**	-24.0	**-27.7**
Diurnal Maximum	9.7	7.4	6.1	5.1	4.5	5.3	5.5	5.8	5.9	6.9	8.3	9.6	11.6	10.9	9.9	9.3	9.0	8.7	9.6	9.7	10.2	10.6	10.4	9.6			
Diurnal Average	-8.7	-8.8	-8.9	-9.0	-9.3	-9.4	-9.6	-9.7	-9.7	-9.3	-8.2	-7.2	-6.6	-6.2	-6.1	-6.4	-7.2	-8.0	-8.3	-8.6	-8.7	-8.8	-9.0	-9.4			

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 - November 2024

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

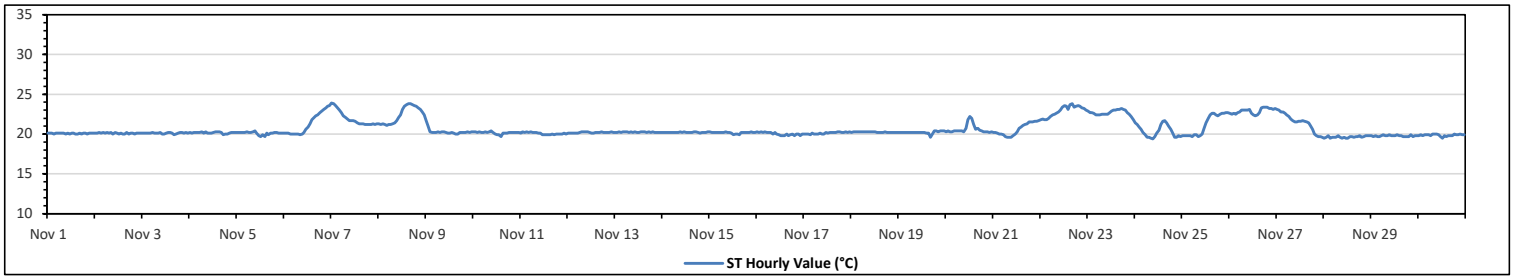
Maximum Hourly Value:	23.9	°C	on Nov 7 at hr 0	Hours in Service:	720	
Maximum Daily Value:	22.9	°C	on Nov 22	Hours of Data:	720	
Minimum Hourly Value:	19.4	°C	on Nov 24 at hr 9	Hours of Missing Data:	0	
Minimum Daily Value:	19.7	°C	on Nov 28	Hours of Calibration:	0	
Monthly Average:	20.7	°C		Operational 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
Nov 1	20.1	20.1	20.1	20.0	20.1	20.1	20.1	20.1	20.1	20.0	20.1	20.0	20.1	20.1	20.0	20.0	20.1	20.0	20.1	20.1	20.0	20.1	20.1	20.1	20.0	20.1	20.1
Nov 2	20.1	20.1	20.2	20.1	20.2	20.1	20.2	20.1	20.2	20.0	20.2	20.1	20.0	20.1	20.0	20.0	20.2	20.0	20.1	20.1	20.0	20.1	20.1	20.1	20.0	20.2	20.1
Nov 3	20.1	20.1	20.1	20.1	20.1	20.2	20.1	20.1	20.1	20.2	20.0	20.0	20.1	20.2	20.2	20.1	19.9	20.0	20.1	20.2	20.2	20.1	20.2	20.1	19.9	20.2	20.1
Nov 4	20.2	20.1	20.2	20.2	20.2	20.2	20.3	20.1	20.3	20.1	20.1	20.1	20.2	20.3	20.3	20.3	20.2	19.9	20.0	20.0	20.1	20.2	20.2	20.2	19.9	20.3	20.2
Nov 5	20.2	20.2	20.2	20.2	20.2	20.3	20.2	20.2	20.3	20.4	20.1	19.8	19.7	19.9	19.7	20.1	19.9	20.1	20.1	20.2	20.2	20.1	20.1	20.1	19.7	20.4	20.1
Nov 6	20.1	20.1	20.1	20.0	20.0	20.0	20.0	20.0	19.9	20.0	20.2	20.6	20.9	21.3	21.8	22.1	22.3	22.4	22.7	22.9	23.1	23.3	23.5	23.6	19.9	23.6	21.3
Nov 7	**23.9**	23.8	23.6	23.3	23.0	22.7	22.3	22.1	21.9	21.7	21.7	21.7	21.6	21.4	21.3	21.3	21.3	21.2	21.2	21.2	21.2	21.3	21.2	21.3	21.2	**23.9**	22.0
Nov 8	21.3	21.2	21.3	21.2	21.1	21.2	21.2	21.3	21.4	21.7	22.1	22.4	23.1	23.5	23.7	23.8	23.8	23.7	23.6	23.5	23.3	23.1	22.8	22.4	21.1	23.8	22.4
Nov 9	21.7	21.0	20.3	20.2	20.2	20.2	20.3	20.2	20.3	20.3	20.2	20.1	20.1	20.2	20.1	20.0	20.0	20.2	20.2	20.2	20.2	20.3	20.2	20.3	20.0	21.7	20.3
Nov 10	20.3	20.3	20.2	20.3	20.2	20.2	20.3	20.2	20.3	20.4	20.2	20.0	19.9	19.9	19.7	20.1	20.1	20.1	20.2	20.2	20.2	20.2	20.2	20.2	19.7	20.4	20.2
Nov 11	20.1	20.3	20.2	20.3	20.2	20.3	20.2	20.2	20.2	20.1	20.1	19.9	19.9	19.9	19.9	19.9	20.0	19.9	20.0	20.0	20.0	20.0	20.1	20.0	19.9	20.3	20.1
Nov 12	20.1	20.1	20.1	20.1	20.1	20.1	20.2	20.3	20.3	20.3	20.3	20.2	20.1	20.1	20.2	20.2	20.2	20.3	20.2	20.2	20.2	20.2	20.3	20.2	20.1	20.3	20.2
Nov 13	20.2	20.2	20.3	20.2	20.3	20.3	20.3	20.2	20.3	20.2	20.3	20.2	20.2	20.3	20.3	20.3	20.2	20.3	20.2	20.3	20.2	20.2	20.2	20.2	20.2	20.3	20.2
Nov 14	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.3	20.2	20.3	20.2	20.2	20.2	20.2	20.3	20.3	20.2	20.1	20.2	20.2	20.2	20.3	20.1	20.3	20.2
Nov 15	20.3	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.3	20.2	20.2	20.1	19.9	20.0	20.0	19.9	20.2	20.2	20.2	20.2	20.2	20.3	20.2	20.2	19.9	20.3	20.2
Nov 16	20.3	20.2	20.3	20.2	20.3	20.2	20.2	20.2	20.0	20.2	20.0	19.9	19.8	19.8	19.8	20.0	19.8	19.9	20.0	19.8	20.0	20.0	19.8	20.0	19.8	20.3	20.0
Nov 17	20.0	20.0	20.0	19.9	20.1	20.0	20.0	20.0	20.1	20.0	20.0	20.2	20.1	20.2	20.2	20.2	20.2	20.3	20.3	20.2	20.2	20.3	20.2	20.3	19.9	20.3	20.1
Nov 18	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.2	20.2	20.2	20.2	20.3	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.3	20.3
Nov 19	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.1	20.1	19.6	20.0	20.4	20.4	20.3	20.4	20.4	20.4	19.6	20.4	20.2
Nov 20	20.3	20.4	20.3	20.3	20.4	20.4	20.4	20.4	20.4	20.3	20.7	21.8	22.2	22.0	21.2	20.6	20.7	20.5	20.4	20.3	20.3	20.3	20.2	20.3	20.2	22.2	20.6
Nov 21	20.2	20.2	20.1	20.0	20.0	19.9	19.7	19.6	19.6	19.6	19.8	20.0	20.3	20.7	20.9	21.1	21.2	21.3	21.5	21.5	21.5	21.6	21.6	21.7	19.6	21.7	20.6
Nov 22	21.8	21.9	21.8	21.8	22.0	22.2	22.4	22.5	22.6	22.8	23.0	23.4	23.6	23.5	23.1	23.7	23.8	23.4	23.5	23.6	23.5	23.3	23.2	23.0	21.8	23.8	**22.9**
Nov 23	22.9	22.7	22.7	22.6	22.4	22.4	22.4	22.5	22.5	22.5	22.5	22.7	22.9	23.0	23.0	23.1	23.1	23.2	23.1	23.0	22.7	22.5	22.2	21.8	21.8	23.2	22.7
Nov 24	21.4	21.2	20.9	20.6	20.2	19.9	19.6	19.6	19.5	**19.4**	19.7	20.1	20.5	21.2	21.6	21.7	21.4	21.0	20.6	20.1	19.6	19.6	19.8	19.7	**19.4**	21.7	20.4
Nov 25	19.8	19.8	19.8	19.8	19.8	19.7	19.9	19.9	19.7	19.8	20.0	20.7	21.4	22.0	22.4	22.6	22.6	22.4	22.3	22.5	22.6	22.6	22.7	22.7	19.7	22.7	21.1
Nov 26	22.6	22.5	22.6	22.5	22.7	22.8	23.0	23.0	23.0	23.0	23.1	22.6	22.4	22.3	22.4	22.7	23.3	23.4	23.4	23.4	23.2	23.2	23.1	23.2	22.3	23.4	**22.9**
Nov 27	23.1	23.0	22.8	22.8	22.6	22.4	22.2	21.9	21.7	21.5	21.5	21.6	21.6	21.7	21.6	21.5	21.4	21.1	20.6	20.0	19.8	19.7	19.7	19.6	19.6	23.1	21.5
Nov 28	19.5	19.6	19.8	19.5	19.6	19.6	19.6	19.8	19.6	19.5	19.6	19.5	19.5	19.7	19.7	19.6	19.7	19.7	19.8	19.6	19.7	19.8	19.8	19.8	19.5	19.8	**19.7**
Nov 29	19.8	19.7	19.8	19.7	19.7	19.8	19.9	19.8	19.8	19.9	19.8	19.8	19.8	19.9	19.8	19.8	19.7	19.7	19.7	19.7	19.9	19.7	19.8	19.8	19.7	19.9	19.8
Nov 30	19.8	19.9	19.8	19.9	19.9	19.9	19.8	20.0	20.0	20.0	19.9	19.7	19.5	19.8	19.7	19.8	19.8	19.8	20.0	19.9	19.9	20.0	19.9	19.9	19.5	20.0	19.9
Diurnal Maximum	23.9	23.8	23.6	23.3	23.0	22.8	23.0	23.0	23.0	23.0	23.1	23.4	23.6	23.5	23.7	23.8	23.8	23.7	23.6	23.6	23.5	23.3	23.5	23.6			
Diurnal Average	20.7	20.7	20.6	20.6	20.6	20.5	20.5	20.5	20.5	20.5	20.5	20.6	20.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.7	20.7			

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

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	30.5	kph	on Nov 6 at hr 22	Hours in Service:	720	
Maximum Daily Value:	22.0	kph	on Nov 6	Hours of Data:	720	
Minimum Hourly Value:	0.9	kph	on Nov 14 at hr 23	Hours of Missing Data:	0	
Minimum Daily Value:	4.0	kph	on Nov 1	Hours of Calibration:	0	
Monthly Average:	1.5	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
Nov 1	6.2	6.1	2.9	1.1	3.4	3.4	3.7	2.9	1.1	2.6	1.9	4.3	3.7	6.7	5.8	6.0	5.7	6.6	4.5	3.6	4.0	2.5	2.3	4.5	1.1	6.7	**4.0**
Nov 2	5.6	6.7	9.2	10.6	13.8	14.1	12.2	10.9	9.8	10.8	10.3	8.7	9.6	9.8	8.3	6.7	6.9	6.3	6.7	5.2	5.8	5.8	8.1	11.2	5.2	14.1	8.9
Nov 3	9.4	8.6	6.2	6.3	6.4	8.7	12.0	9.2	11.2	11.2	13.8	15.0	13.8	14.1	14.3	12.6	8.4	9.4	11.3	10.4	11.2	13.9	14.1	12.9	6.2	15.0	11.0
Nov 4	15.5	13.1	14.6	10.9	10.9	10.1	9.6	8.3	9.1	6.8	7.6	7.9	8.4	5.5	2.8	2.8	3.2	4.6	3.8	1.0	6.2	3.9	6.0	6.2	1.0	15.5	7.5
Nov 5	4.9	5.3	6.1	4.7	6.9	8.4	9.7	9.9	7.8	7.9	7.4	8.6	10.2	8.8	8.3	10.6	10.8	10.7	7.4	9.0	10.9	10.7	13.0	12.7	4.7	13.0	8.8
Nov 6	18.3	18.3	19.3	24.0	21.8	20.5	19.9	20.2	17.5	17.4	17.5	22.6	18.6	16.8	24.6	24.3	25.7	20.2	26.7	23.4	26.1	25.5	**30.5**	27.7	16.8	**30.5**	**22.0**
Nov 7	24.5	13.8	8.9	5.1	7.0	5.6	7.7	3.4	3.3	3.6	8.5	11.0	5.1	6.6	6.6	7.8	10.2	9.6	10.6	11.2	10.2	9.4	13.3	15.8	3.3	24.5	9.1
Nov 8	12.8	13.3	14.7	11.3	12.6	11.8	9.9	8.1	9.0	13.2	15.1	15.0	21.4	22.6	22.1	16.9	17.3	17.6	15.0	17.4	17.2	16.7	13.4	10.9	8.1	22.6	14.8
Nov 9	9.8	10.0	11.2	9.4	8.4	7.7	6.7	10.0	9.9	6.6	10.0	12.0	10.1	12.1	12.3	12.5	8.8	9.2	9.8	7.8	11.7	11.4	9.0	10.2	6.6	12.5	9.9
Nov 10	12.7	11.2	11.0	12.0	9.3	10.1	8.6	8.5	8.4	7.1	6.4	7.0	9.6	4.9	3.5	4.9	5.3	7.7	9.7	13.2	15.7	12.9	7.3	9.8	3.5	15.7	9.0
Nov 11	10.9	9.4	7.6	10.4	9.0	9.2	8.7	8.9	8.8	11.5	9.5	10.8	11.0	12.5	12.4	12.0	8.4	5.3	5.5	5.8	2.8	7.3	9.6	16.0	2.8	16.0	9.3
Nov 12	16.2	16.8	14.0	14.3	16.2	12.9	8.0	7.6	7.8	5.7	6.6	7.1	6.7	6.8	7.5	6.1	4.2	6.2	6.7	4.4	6.3	6.5	1.9	2.9	1.9	16.8	8.3
Nov 13	3.4	8.6	5.6	5.3	6.0	6.7	7.8	9.6	8.7	7.6	7.9	9.8	12.7	13.9	13.9	13.7	15.5	14.4	15.0	16.2	13.8	9.5	11.2	12.0	3.4	16.2	10.4
Nov 14	11.9	8.4	10.2	9.4	8.8	9.8	10.3	8.2	5.8	7.7	7.1	7.3	5.0	3.6	4.7	5.0	5.1	3.8	5.3	5.0	1.5	1.0	2.9	**0.9**	**0.9**	11.9	6.2
Nov 15	3.1	6.4	9.5	6.8	5.2	6.1	8.2	11.0	11.6	12.8	12.1	10.1	12.2	15.1	15.5	14.6	12.6	11.6	10.2	7.2	8.4	9.4	11.2	11.6	3.1	15.5	10.1
Nov 16	13.1	11.1	12.9	14.5	14.5	14.4	14.5	13.9	18.5	15.9	17.6	19.7	20.5	18.4	14.0	13.6	14.0	19.3	17.0	14.1	11.7	9.5	9.8	10.5	9.5	20.5	14.7
Nov 17	9.6	8.1	8.4	9.0	11.3	14.0	9.6	12.4	15.5	16.1	16.2	16.1	12.8	13.2	13.7	12.8	11.6	9.7	7.2	6.7	6.2	8.9	8.1	5.5	5.5	16.2	10.9
Nov 18	4.7	4.0	4.4	4.4	5.8	7.1	8.5	7.8	7.6	6.2	7.4	6.1	6.7	8.0	6.6	6.4	5.2	5.3	3.1	6.1	6.7	5.3	5.2	7.4	3.1	8.5	6.1
Nov 19	8.1	9.1	8.6	9.5	9.0	9.8	8.7	9.9	8.9	11.4	10.9	10.9	12.0	12.9	10.8	12.0	10.2	10.5	10.2	8.3	8.1	9.8	10.7	11.7	8.1	12.9	10.1
Nov 20	12.4	11.3	10.7	12.2	12.3	13.5	16.1	14.8	15.4	15.4	17.0	15.6	15.3	13.7	13.7	15.1	15.7	16.3	17.2	13.6	13.5	9.4	10.3	9.3	9.3	17.2	13.7
Nov 21	9.0	8.9	11.1	10.7	8.1	7.2	7.4	5.8	6.0	5.9	5.3	4.6	5.3	4.6	5.9	6.3	5.3	4.7	4.4	3.3	3.7	3.5	2.3	2.7	2.3	11.1	5.9
Nov 22	2.1	2.7	2.1	1.9	4.1	4.5	3.7	2.5	4.7	2.9	1.1	1.6	2.8	3.8	3.1	5.7	6.5	6.3	6.9	7.0	7.0	7.0	7.8	7.1	1.1	7.8	4.4
Nov 23	8.1	9.0	7.6	9.4	13.3	11.4	10.2	10.0	10.8	11.1	10.2	10.0	10.6	11.4	10.5	8.8	7.3	6.7	7.0	7.7	7.4	5.4	6.2	5.6	5.4	13.3	9.0
Nov 24	5.0	3.7	3.5	3.6	3.7	2.8	2.2	4.1	4.2	2.4	2.8	3.0	2.3	3.3	4.8	6.6	5.4	7.2	5.5	5.8	6.9	5.4	5.9	4.2	2.2	7.2	4.3
Nov 25	4.9	5.5	5.7	6.3	6.6	7.9	6.3	6.2	6.6	5.7	7.0	8.8	8.8	10.9	12.1	8.4	7.1	6.9	9.7	11.5	10.2	7.1	7.4	7.5	4.9	12.1	7.7
Nov 26	7.5	9.7	9.6	10.0	12.2	14.2	14.9	12.3	13.1	10.1	9.7	6.8	7.4	6.6	8.0	6.6	9.8	10.8	11.0	10.4	9.9	9.6	8.3	9.8	6.6	14.9	9.9
Nov 27	8.6	7.9	6.6	8.1	6.9	6.0	5.9	6.4	5.2	6.9	6.9	7.6	8.4	6.9	6.6	6.5	4.5	5.8	5.4	8.5	6.2	4.2	3.5	5.2	3.5	8.6	6.4
Nov 28	5.6	4.1	5.3	7.1	5.5	5.8	5.8	2.5	5.7	7.8	9.2	10.5	11.6	14.9	14.4	11.6	14.7	13.1	11.5	11.3	10.8	8.9	9.9	10.9	2.5	14.9	9.1
Nov 29	11.6	12.3	13.2	13.8	12.6	12.5	12.1	14.2	14.1	16.3	16.3	17.2	17.3	16.6	18.5	12.8	11.7	13.8	11.1	9.6	8.6	8.3	6.1	7.2	6.1	18.5	12.8
Nov 30	6.1	6.4	4.8	6.3	4.9	5.7	2.9	3.0	1.7	2.6	3.0	3.8	4.3	3.9	4.9	5.4	4.8	5.1	4.0	2.0	2.1	2.8	3.9	3.7	1.7	6.4	4.1
Diurnal Maximum	24.5	18.3	19.3	24.0	21.8	20.5	19.9	20.2	18.5	17.4	17.6	22.6	21.4	22.6	24.6	24.3	25.7	20.2	26.7	23.4	26.1	25.5	30.5	27.7			
Diurnal Average	9.4	9.0	8.9	8.9	9.2	9.4	9.1	8.8	8.9	9.0	9.4	10.0	10.1	10.3	10.3	9.8	9.4	9.5	9.3	8.9	9.0	8.4	8.6	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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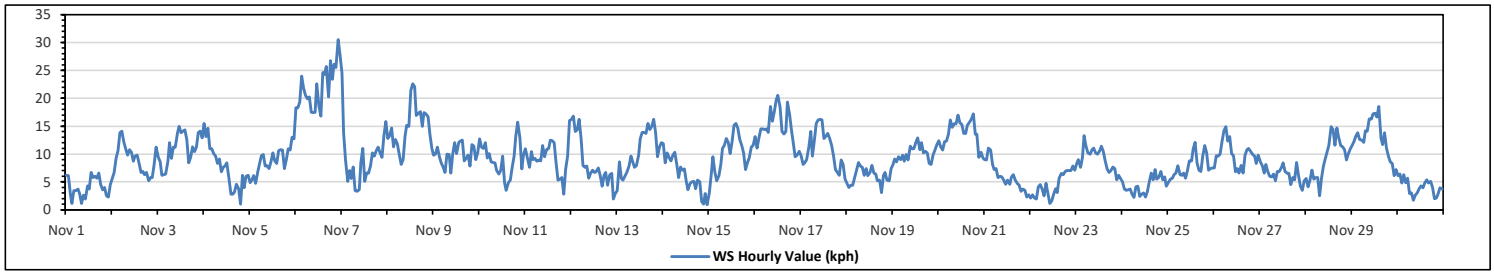
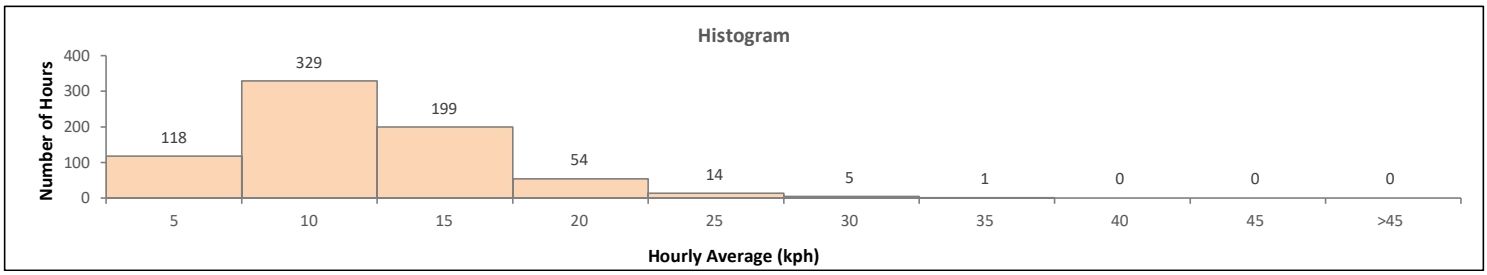


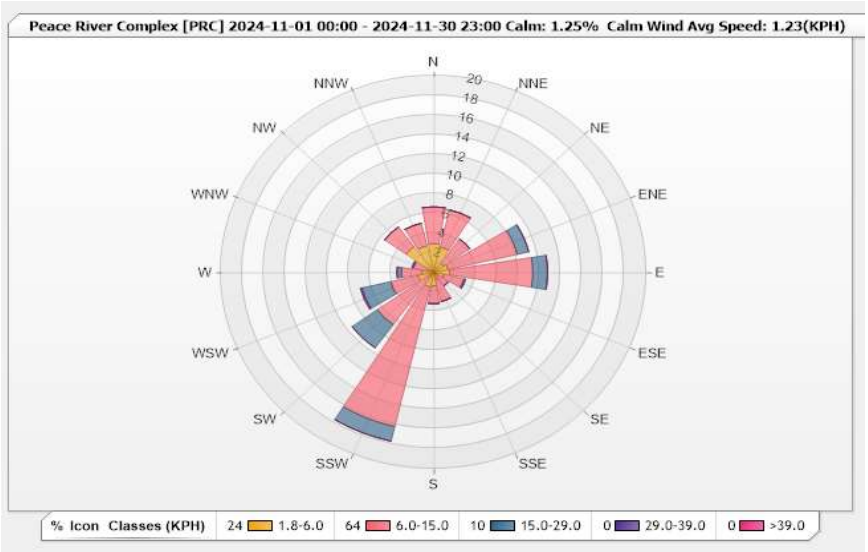


Station: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 11-2024

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

Calm (WS<1.8kph): 1.25% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.92	3.75	0	0	0	6.67
NNE	2.64	3.89	0	0	0	6.53
NE	1.11	3.06	0	0	0	4.17
ENE	1.39	6.67	1.11	0	0	9.17
E	1.53	7.78	1.39	0	0	10.7
ESE	0.97	1.94	0.14	0	0	3.05
SE	0.14	1.53	0	0	0	1.67
SSE	0.69	2.36	0	0	0	3.05
S	1.39	1.81	0	0	0	3.2
SSW	1.53	14.58	1.53	0	0	17.64
SW	0.42	6.11	2.92	0	0	9.45
WSW	1.53	2.64	2.78	0.14	0	7.09
W	1.11	1.94	0.42	0	0	3.47
WNW	0.42	1.53	0.14	0	0	2.09
NW	3.19	2.5	0	0	0	5.69
NNW	2.78	2.36	0	0	0	5.14
Summary	23.76	64.45	10.43	0.14	0	98.78



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

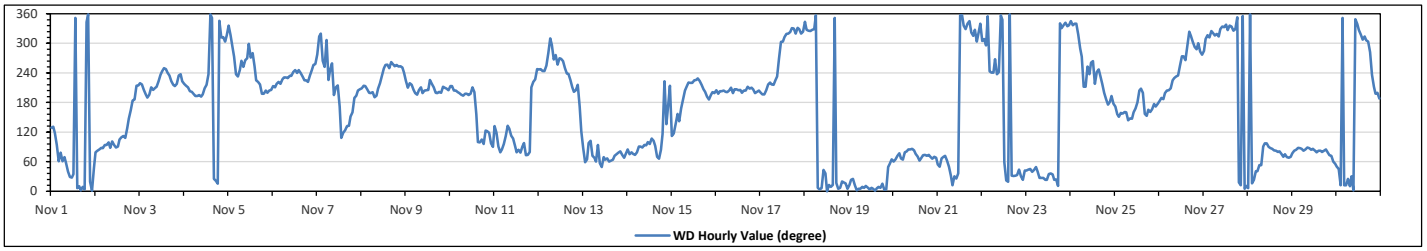
WIND DIRECTION (VWD) in sector

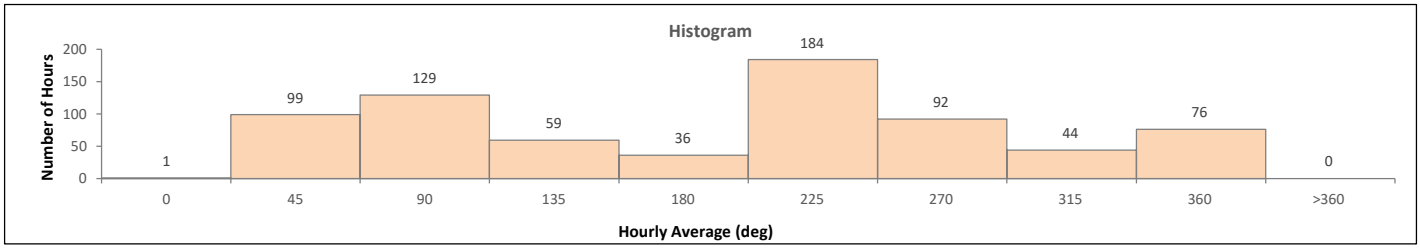
Monthly Average:	198 (SSW)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Nov 1	SE	SE	ESE	E	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NE	N	N	N	N	N	N	NNW	N	NNE	N	NE	34	NE
Nov 2	ENE	E	E	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SE	SSE	S	S	SSW	SSW	109	ESE
Nov 3	SW	SW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SW	SW	SW	SW	224	SW
Nov 4	SW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	S	SSW	SSW	SW	SW	N	N	NNE	NNE	NNE	NNW	NW	NW	WNW	NW	219	SW
Nov 5	NNW	NW	WNW	W	SW	SW	WSW	W	WSW	W	W	WNW	W	W	WSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	240	WSW
Nov 6	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	234	SW
Nov 7	W	NW	NW	W	WSW	NW	SW	WSW	WSW	SSW	SSW	SSW	S	ESE	ESE	ESE	SE	SE	SSE	SSE	S	SSW	SSW	SSW	208	SSW
Nov 8	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	236	SW
Nov 9	SW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	209	SSW
Nov 10	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	E	E	ESE	E	ESE	ESE	ESE	E	E	168	SSE
Nov 11	SE	ESE	E	ENE	E	E	ESE	SE	SE	ESE	ESE	E	ENE	E	ENE	E	E	ENE	ENE	E	SSW	SW	SW	WSW	107	ESE
Nov 12	WSW	WSW	WSW	WSW	WSW	W	NW	WNW	W	W	WSW	W	W	W	WSW	WSW	SW	SW	SSW	SSW	SSW	SW	S	ESE	251	WSW
Nov 13	E	ENE	ENE	E	E	ENE	ENE	ENE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	70	ENE
Nov 14	E	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	ESE	E	E	ENE	ENE	E	ESE	SW	SE	S	SSW	89	E
Nov 15	ESE	ESE	SE	SSE	SE	SSE	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	S	S	SSW	SSW	SSW	203	SSW
Nov 16	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	205	SSW
Nov 17	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	W	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NW	NW	272	W
Nov 18	NNW	NNW	NW	NW	NNW	NNW	N	N	N	N	NE	NE	N	NNE	N	NNE	N	NNE	N	N	NNE	NNE	NNE	N	3	N
Nov 19	NNE	NNE	NNE	NNE	N	N	N	N	N	NNE	N	N	N	N	N	N	N	N	NNE	N	N	NE	NE	ENE	14	NNE
Nov 20	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	74	ENE
Nov 21	NE	NE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NNE	NNE	NE	N	N	NNW	NNW	NNW	NNW	NW	NW	NNW	WNW	NW	NNW	24	NNE
Nov 22	WNW	NW	WNW	N	WSW	WSW	WSW	W	SW	WSW	N	NNW	ENE	NNE	NNE	N	NNE	NNE	NNE	NNE	NE	NNE	NNE	NE	9	N
Nov 23	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NNE	NNE	NNE	NNW	NNW	NNW	NNW	NNW	NNW	24	NNE
Nov 24	NNW	NNW	NNW	NNW	NW	WNW	W	SSW	SSW	WSW	SW	W	W	SW	WSW	WSW	SW	SW	SSW	S	S	S	S	S	231	SW
Nov 25	S	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	S	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	S	S	S	169	SSE
Nov 26	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	W	W	W	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	W	248	WSW
Nov 27	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NNW	N	NNE	NNE	N	N	NNE	331	NNW
Nov 28	N	N	NNE	NNE	NE	NE	NE	NE	E	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	72	ENE
Nov 29	ENE	E	E	E	E	E	E	E	E	E	E	E	E	ENE	E	E	E	E	E	ENE	ENE	ENE	ENE	NE	82	E
Nov 30	NE	NE	NNE	N	NNE	NNE	NNE	N	NNE	N	NNW	NNW	NW	NW	NW	NW	NW	WNW	W	SW	SSW	SSW	SSW	S	341	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

Peace River Complex (PRC) Station - November 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	30.5	kph	on Nov 6 at hr 22	Hours in Service:	720
Maximum Daily Value:	22.0	kph	on Nov 6	Hours of Data:	720
Minimum Hourly Value:	0.9	kph	on Nov 14 at hr 23	Hours of Missing Data:	0
Minimum Daily Value:	4.0	kph	on Nov 1	Hours of Calibration:	0
Monthly Average:	1.5	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 198 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			
Nov 1	6.2	6.1	2.9	1.1	3.4	3.4	3.7	2.9	1.1	2.6	1.9	4.3	3.7	6.7	5.8	6.0	5.7	6.6	4.5	3.6	4.0	2.5	2.3	4.5	1.1	6.7	**4.0**
	SE	SE	ESE	E	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NE	N	N	N	N	N	N	NNW	N	NNE	N	NE			34(NE)
Nov 2	5.6	6.7	9.2	10.6	13.8	14.1	12.2	10.9	9.8	10.8	10.3	8.7	9.6	9.8	8.3	6.7	6.9	6.3	6.7	5.2	5.8	5.8	8.1	11.2	5.2	14.1	8.9
	ENE	E	E	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SE	SE	SSE	S	S	SSW	SSW			109(ESE)
Nov 3	9.4	8.6	6.2	6.3	6.4	8.7	12.0	9.2	11.2	11.2	13.8	15.0	13.8	14.1	14.3	12.6	8.4	9.4	11.3	10.4	11.2	13.9	14.1	12.9	6.2	15.0	11.0
	SW	SW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SW	SW	SW	SW			224(SW)
Nov 4	15.5	13.1	14.6	10.9	10.9	10.1	9.6	8.3	9.1	6.8	7.6	7.9	8.4	5.5	2.8	2.8	3.2	4.6	3.8	1.0	6.2	3.9	6.0	6.2	1.0	15.5	7.5
	SW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	S	SSW	SSW	SW	SW	N	N	NNE	NNE	NNE	NNW	NW	NW	WNW	NW			219(SW)
Nov 5	4.9	5.3	6.1	4.7	6.9	8.4	9.7	9.9	7.8	7.9	7.4	8.6	10.2	8.8	8.3	10.6	10.8	10.7	7.4	9.0	10.9	10.7	13.0	12.7	4.7	13.0	8.8
	NNW	NW	WNW	W	SW	SW	WSW	W	WSW	W	W	WNW	W	W	WSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW			240(WSW)
Nov 6	18.3	18.3	19.3	24.0	21.8	20.5	19.9	20.2	17.5	17.4	17.5	22.6	18.6	16.8	24.6	24.3	25.7	20.2	26.7	23.4	26.1	25.5	**30.5**	27.7	16.8	**30.5**	**22.0**
	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW			234(SW)
Nov 7	24.5	13.8	8.9	5.1	7.0	5.6	7.7	3.4	3.3	3.6	8.5	11.0	5.1	6.6	6.6	7.8	10.2	9.6	10.6	11.2	10.2	9.4	13.3	15.8	3.3	24.5	9.1
	W	NW	NW	W	WSW	NW	SW	WSW	WSW	SSW	SSW	SSW	S	ESE	ESE	ESE	SE	SE	SSE	SSE	S	SSW	SSW	SSW			208(SSW)
Nov 8	12.8	13.3	14.7	11.3	12.6	11.8	9.9	8.1	9.0	13.2	15.1	15.0	21.4	22.6	22.1	16.9	17.3	17.6	15.0	17.4	17.2	16.7	13.4	10.9	8.1	22.6	14.8
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW			236(SW)
Nov 9	9.8	10.0	11.2	9.4	8.4	7.7	6.7	10.0	9.9	6.6	10.0	12.0	10.1	12.1	12.3	12.5	8.8	9.2	9.8	7.8	11.7	11.4	9.0	10.2	6.6	12.5	9.9
	SW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			209(SSW)
Nov 10	12.7	11.2	11.0	12.0	9.3	10.1	8.6	8.5	8.4	7.1	6.4	7.0	9.6	4.9	3.5	4.9	5.3	7.7	9.7	13.2	15.7	12.9	7.3	9.8	3.5	15.7	9.0
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	E	E	ESE	E	ESE	ESE	ESE	E	E			168(SSE)
Nov 11	10.9	9.4	7.6	10.4	9.0	9.2	8.7	8.9	8.8	11.5	9.5	10.8	11.0	12.5	12.4	12.0	8.4	5.3	5.5	5.8	2.8	7.3	9.6	16.0	2.8	16.0	9.3
	SE	ESE	E	ENE	E	E	ESE	SE	SE	ESE	ESE	E	ENE	E	ENE	E	E	ENE	ENE	E	SSW	SW	SW	WSW				107(ESE)
Nov 12	16.2	16.8	14.0	14.3	16.2	12.9	8.0	7.6	7.8	5.7	6.6	7.1	6.7	6.8	7.5	6.1	4.2	6.2	6.7	4.4	6.3	6.5	1.9	2.9	1.9	16.8	8.3
	WSW	WSW	WSW	WSW	WSW	W	NW	WNW	W	W	WSW	W	W	W	WSW	WSW	SW	SW	SSW	SSW	SSW	SW	S	ESE			251(WSW)
Nov 13	3.4	8.6	5.6	5.3	6.0	6.7	7.8	9.6	8.7	7.6	7.9	9.8	12.7	13.9	13.9	13.7	15.5	14.4	15.0	16.2	13.8	9.5	11.2	12.0	3.4	16.2	10.4
	E	ENE	ENE	E	E	ENE	ENE	ENE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE				70(ENE)
Nov 14	11.9	8.4	10.2	9.4	8.8	9.8	10.3	8.2	5.8	7.7	7.1	7.3	5.0	3.6	4.7	5.0	5.1	3.8	5.3	5.0	1.5	1.0	2.9	**0.9**	**0.9**	11.9	6.2
	E	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	ESE	E	E	ENE	ENE	E	ESE	SW	SE	S	SSW				89(E)
Nov 15	3.1	6.4	9.5	6.8	5.2	6.1	8.2	11.0	11.6	12.8	12.1	10.1	12.2	15.1	15.5	14.6	12.6	11.6	10.2	7.2	8.4	9.4	11.2	11.6	3.1	15.5	10.1
	ESE	ESE	SE	SSE	SE	SSE	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	S	S	SSW	SSW	SSW			203(SSW)
Nov 16	13.1	11.1	12.9	14.5	14.5	14.4	14.5	13.9	18.5	15.9	17.6	19.7	20.5	18.4	14.0	13.6	14.0	19.3	17.0	14.1	11.7	9.5	9.8	10.5	9.5	20.5	14.7
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW			205(SSW)
Nov 17	9.6	8.1	8.4	9.0	11.3	14.0	9.6	12.4	15.5	16.1	16.2	16.1	12.8	13.2	13.7	12.8	11.6	9.7	7.2	6.7	6.2	8.9	8.1	5.5	5.5	16.2	10.9
	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	W	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NW	NW			272(W)
Nov 18	4.7	4.0	4.4	4.4	5.8	7.1	8.5	7.8	7.6	6.2	7.4	6.1	6.7	8.0	6.6	6.4	5.2	5.3	3.1	6.1	6.7	5.3	5.2	7.4	3.1	8.5	6.1
	NNW	NNW	NW	NW	NNW	NNW	N	N	N	N	NE	NE	N	NNE	N	NNE	N	NNE	N	N	NNE	NNE	NNE	N			3(N)
Nov 19	8.1	9.1	8.6	9.5	9.0	9.8	8.7	9.9	8.9	11.4	10.9	10.9	12.0	12.9	10.8	12.0	10.2	10.5	10.2	8.3	8.1	9.8	10.7	11.7	8.1	12.9	10.1
	NNE	NNE	NNE	NNE	N	N	N	N	N	NNE	N	N	N	N	N	N	N	N	NNE	N	N	NE	NE	ENE				14(NNE)
Nov 20	12.4	11.3	10.7	12.2	12.3	13.5	16.1	14.8	15.4	15.4	17.0	15.6	15.3	13.7	13.7	15.1	15.7	16.3	17.2	13.6	13.5	9.4	10.3	9.3	9.3	17.2	13.7
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE			74(ENE)
Nov 21	9.0	8.9	11.1	10.7	8.1	7.2	7.4	5.8	6.0	5.9	5.3	4.6	5.3	4.6	5.9	6.3	5.3	4.7	4.4	3.3	3.7	3.5	2.3	2.7	2.3	11.1	5.9
	NE	NE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NNE	NNE	NE	N	N	NNW	NNW	NNW	NNW	NW	NW	NNW	WNW	NW	NNW			24(NNE)
Nov 22	2.1	2.7	2.1	1.9	4.1	4.5	3.7	2.5	4.7	2.9	1.1	1.6	2.8	3.8	3.1	5.7	6.5	6.3	6.9	7.0	7.0	7.0	7.8	7.1	1.1	7.8	4.4
	WNW	NW	WNW	N	WSW	WSW	WSW	W	SW	WSW	N	NNW	ENE	NNE	NNE	N	NNE	NNE	NNE	NNE	NE	NNE	NNE	NE			9(N)
Nov 23	8.1	9.0	7.6	9.4	13.3	11.4	10.2	10.0	10.8	11.1	10.2	10.0	10.6	11.4	10.5	8.8	7.3	6.7	7.0	7.7	7.4	5.4	6.2	5.6	5.4	13.3	9.0
	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NNE	NNE	NNE	NNW	NNW	NNW	NNW	NNW	NNW				24(NNE)
Nov 24	5.0	3.7	3.5	3.6	3.7	2.8	2.2	4.1	4.2	2.4	2.8	3.0	2.3	3.3	4.8	6.6	5.4	7.2	5.5	5.8	6.9	5.4	5.9	4.2	2.2	7.2	4.3
	NNW	NNW	NNW	NNW	NW	WNW	W	SSW	SSW	WSW	SW	W	W	SW	WSW	WSW	SW	SW	SSW	S	S	S	S	S				231(SW)
Nov 25	4.9	5.5	5.7	6.3	6.6	7.9	6.3	6.2	6.6	5.7	7.0	8.8	8.8	10.9	12.1	8.4	7.1	6.9	9.7	11.5	10.2	7.1	7.4	7.5	4.9	12.1	7.7
	S	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	S	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	S	S	S				169(SSE)
Nov 26	7.5	9.7	9.6	10.0	12.2	14.2	14.9	12.3	13.1	10.1	9.7	6.8	7.4	6.6	8.0	6.6	9.8	10.8	11.0	10.4	9.9	9.6	8.3	9.8	6.6	14.9	9.9
	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	W	W	W	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	W				248(WSW)
Nov 27	8.6	7.9	6.6	8.1	6.9	6.0	5.9	6.4	5.2	6.9	6.9	7.6	8.4	6.9	6.6	6.5	4.5	5.8	5.4	8.5	6.2	4.2	3.5	5.2	3.5	8.6	6.4
	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NNW	N	NNE	NNE	N	N	NNE				331(NNW)
Nov 28	5.6	4.1	5.3	7.1	5.5	5.8	5.8	2.5	5.7	7.8	9.2	10.5	11.6	14.9	14.4	11.6	14.7	13.1	11.5	11.3	10.8	8.9	9.9	10.9	2.5	14.9	9.1
	N	N	NNE	NNE	NE	NE	NE	NE	E	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE				72(ENE)
Nov 29	11.6	12.3	13.2	13.8	12.6	12.5	12.1	14.2	14.1	16.3	16.3	17.2	17.3	16.6	18.5	12.8	11.7	13.8	11.1	9.6	8.6	8.3	6.1	7.2	6.1	18.5	12.8
	ENE	E	E	E	E	E	E	E	E	E	E	E	E	ENE	E	E	E	E	E	ENE	ENE	ENE	ENE	NE				82(E)
Nov 30	6.1	6.4	4.8	6.3	4.9	5.7	2.9	3.0	1.7	2.6	3.0	3.8	4.3	3.9	4.9	5.4	4.8	5.1	4.0	2.0	2.1	2.8	3.9	3.7	1.7	6.4	4.1
	NE	NE	NNE	N	NNE	NNE	NNE	N	NNE	N	NNW	NNW	NW	NW	NW	NW	NW	WNW	W	SW	SSW	SSW	SSW	S				341(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.

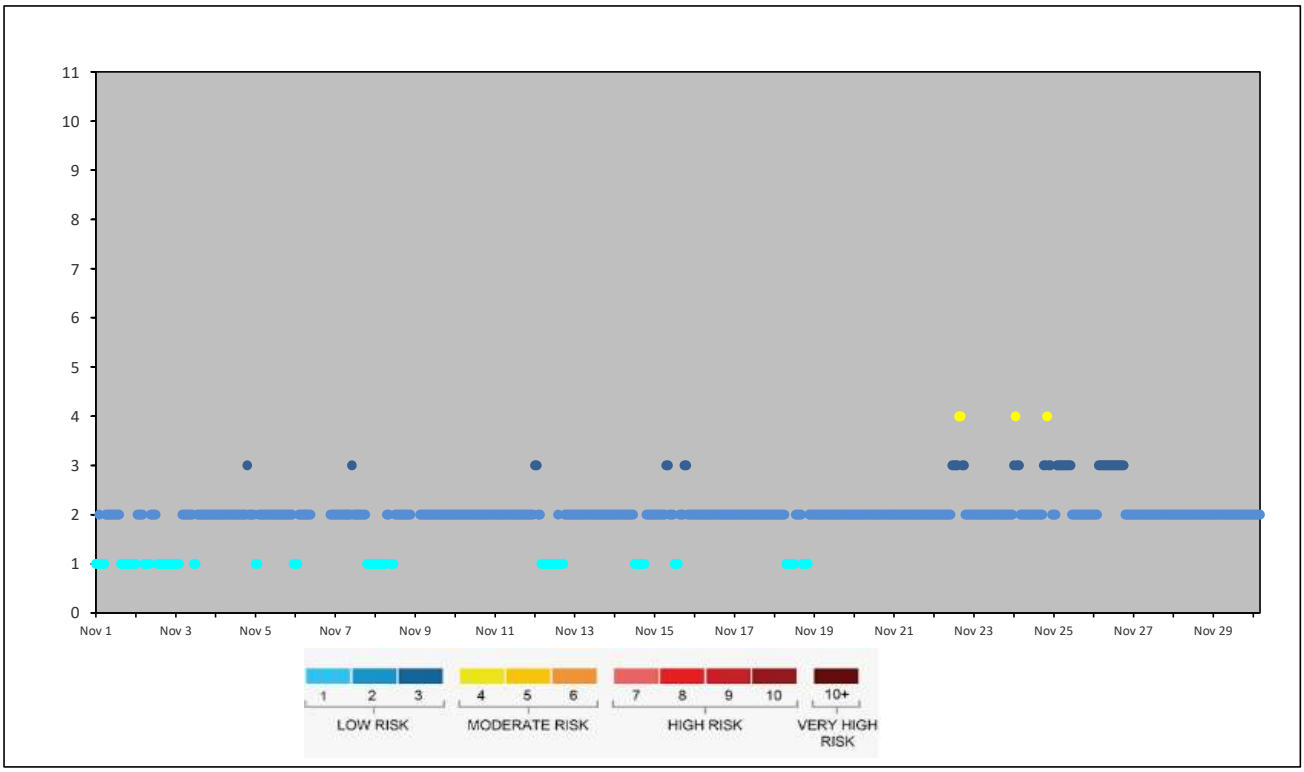
AQHI GRIMSHAW STATION

Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 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
Nov 1	1	1	2	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
Nov 2	1	2	2	2	2	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1
Nov 3	1	1	1		2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2
Nov 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
Nov 5	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
Nov 6	1	1	2	2	2	2	2	2	2	2												2	2	2
Nov 7	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	1	1	1	1	1
Nov 8	1	1	1	1	1	1	1	2	2	1	1	1	2	2	2	2	2	2	2	2	2	2		
Nov 9				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 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
Nov 11	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 12	3	3	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	2	2	2	2	2
Nov 13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 14	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2
Nov 15	2	2	2	2	2	2	2	3	3	2	2	2	1	1	1	2	2	2	3	3	2	2	2	2
Nov 16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 17	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 18	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	1	1	1	1	2	2	2
Nov 19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 22	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	3	3	2	2	2	2	2
Nov 23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 24	3	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	3	3	2
Nov 25	2	2	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 26	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2
Nov 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
Nov 28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov 30	2	2	2	2	2	2	2	2	2	2	2	2	3	5	3	3	3	3	3	3	3	3	3	



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 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

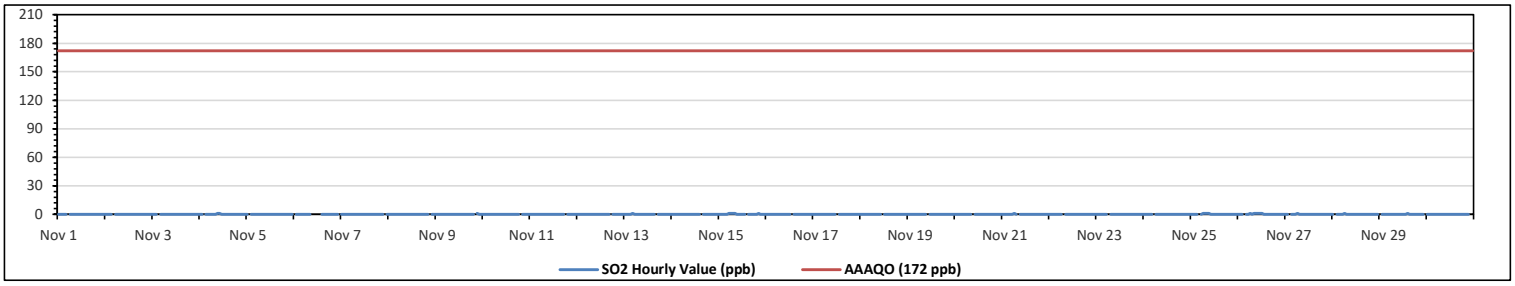
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Nov 4 at hr 9	Hours in Service:	720	
Maximum Daily Value:	0.3	ppb	on Nov 26	Hours of Data:	683	
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Nov 1	Hours of Calibration:	37	
Monthly Average:	0.0	ppb		Operational Uptime:	100.0	

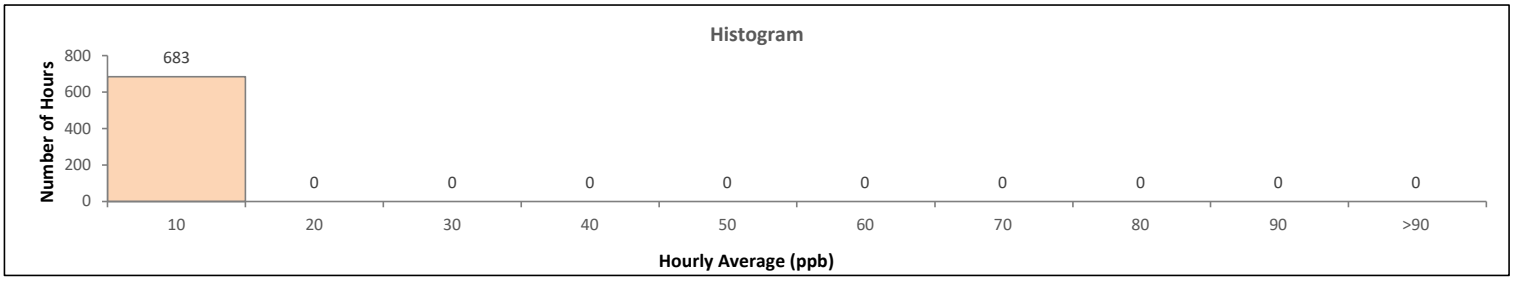
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nov 2	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nov 3	0	0	0	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
Nov 4	0	0	S	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Nov 5	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
Nov 6	S	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	S	0	0	NA
Nov 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Nov 8	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
Nov 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	1	0.0
Nov 10	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
Nov 11	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
Nov 12	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
Nov 13	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0
Nov 14	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
Nov 15	0	0	0	0	0	1	1	1	1	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	1	0.2
Nov 16	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
Nov 17	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
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	0	0	0	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Nov 22	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
Nov 23	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
Nov 24	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
Nov 25	0	0	0	0	S	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Nov 26	0	0	0	S	0	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3
Nov 27	0	0	S	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Nov 28	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Nov 29	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	1	0.0
Nov 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Diurnal Maximum	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	1	1	0	0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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.



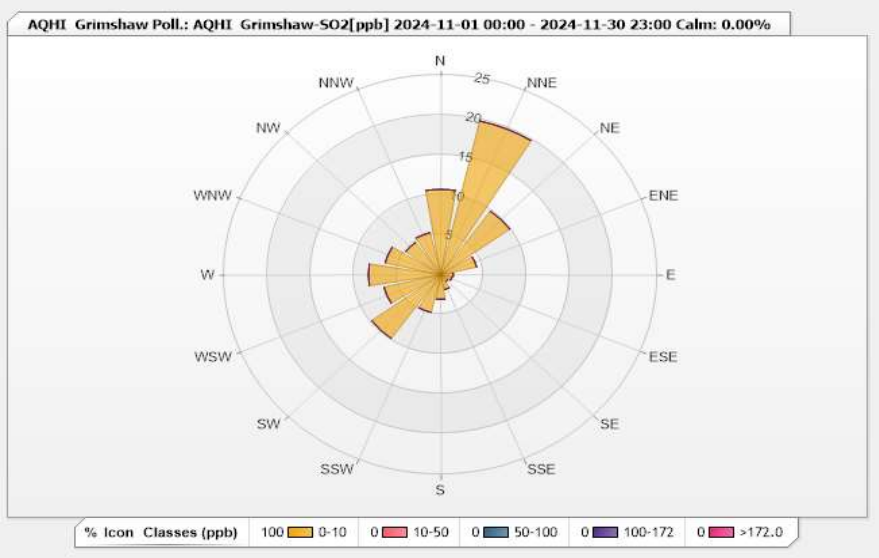


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	10.69	0	0	0	0	10.69
NNE	19.77	0	0	0	0	19.77
NE	9.81	0	0	0	0	9.81
ENE	4.25	0	0	0	0	4.25
E	1.46	0	0	0	0	1.46
ESE	1.32	0	0	0	0	1.32
SE	1.02	0	0	0	0	1.02
SSE	1.9	0	0	0	0	1.9
S	3.07	0	0	0	0	3.07
SSW	4.83	0	0	0	0	4.83
SW	9.81	0	0	0	0	9.81
WSW	6.73	0	0	0	0	6.73
W	8.35	0	0	0	0	8.35
WNW	6.59	0	0	0	0	6.59
NW	4.98	0	0	0	0	4.98
NNW	5.42	0	0	0	0	5.42
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

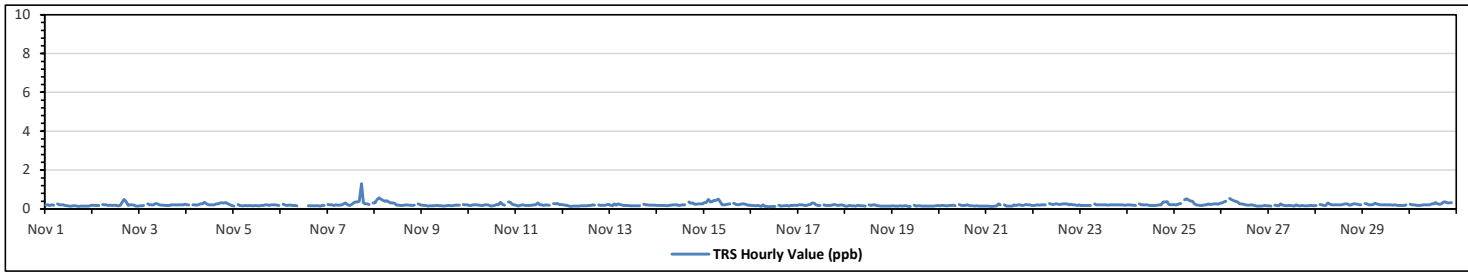
Maximum Hourly Value:	1.30	ppb	on Nov 7 at hr 17	Hours in Service:	720	
Maximum Daily Value:	0.30	ppb	on Nov 15	Hours of Data:	683	
Minimum Hourly Value:	0.11	ppb	on Nov 16 at hr 9	Hours of Missing Data:	0	
Minimum Daily Value:	0.15	ppb	on Nov 19	Hours of Calibration:	37	
Monthly Average:	0.21	ppb		Operational Uptime:	100.0	

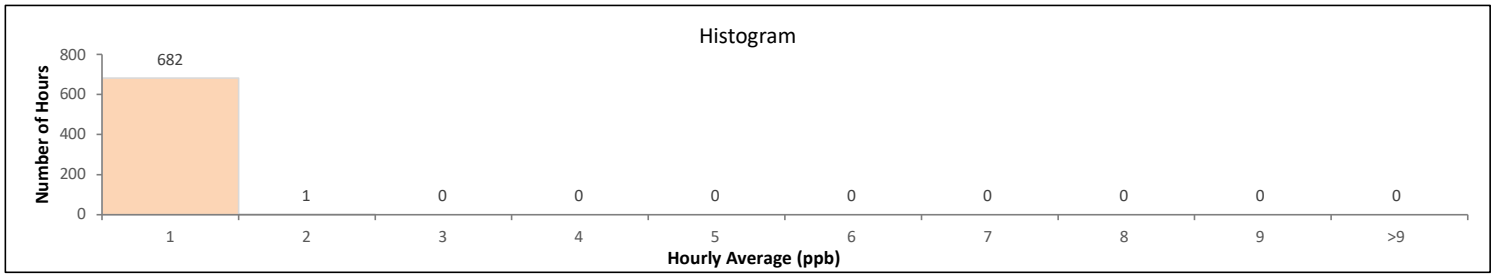
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	0.22	0.2	0.18	0.21	0.19	S	0.26	0.21	0.22	0.21	0.17	0.16	0.15	0.15	0.16	0.16	0.15	0.13	0.14	0.14	0.14	0.14	0.15	0.17	0.13	0.26	0.17
Nov 2	0.19	0.17	0.17	0.17	S	0.23	0.2	0.2	0.18	0.19	0.18	0.19	0.17	0.16	0.17	0.34	0.48	0.35	0.18	0.21	0.22	0.19	0.15	0.15	0.15	0.48	0.21
Nov 3	0.16	0.16	0.17	S	0.26	0.22	0.2	0.2	0.28	0.25	0.22	0.19	0.19	0.17	0.17	0.18	0.2	0.22	0.2	0.2	0.2	0.21	0.21	0.24	0.16	0.28	0.20
Nov 4	0.21	0.22	S	0.21	0.2	0.19	0.23	0.26	0.26	0.34	0.25	0.22	0.21	0.2	0.22	0.26	0.27	0.31	0.3	0.31	0.32	0.26	0.2	0.17	0.17	0.34	0.24
Nov 5	0.15	S	0.23	0.18	0.16	0.16	0.17	0.16	0.17	0.16	0.16	0.17	0.16	0.16	0.17	0.17	0.21	0.2	0.18	0.2	0.2	0.22	0.19	0.18	0.15	0.23	0.18
Nov 6	S	0.24	0.2	0.18	0.19	0.19	0.18	0.17	0.16	C	C	C	C	C	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.17	0.17	S	0.15	0.24	NA
Nov 7	0.23	0.21	0.2	0.18	0.2	0.19	0.19	0.21	0.27	0.31	0.22	0.17	0.23	0.3	0.35	0.35	0.39	**1.3**	0.3	0.26	0.26	0.23	S	0.3	0.17	**1.30**	0.30
Nov 8	0.31	0.49	0.56	0.51	0.44	0.39	0.42	0.36	0.31	0.3	0.29	0.19	0.19	0.18	0.17	0.19	0.2	0.19	0.19	0.17	0.19	S	0.25	0.2	0.17	0.56	0.29
Nov 9	0.19	0.17	0.17	0.15	0.16	0.16	0.16	0.17	0.17	0.16	0.16	0.15	0.16	0.17	0.17	0.16	0.18	0.19	0.19	0.19	S	0.23	0.22	0.21	0.15	0.23	0.18
Nov 10	0.18	0.17	0.21	0.22	0.2	0.19	0.17	0.18	0.2	0.21	0.19	0.15	0.16	0.18	0.23	0.21	0.34	0.23	0.19	S	0.35	0.34	0.24	0.22	0.15	0.35	0.22
Nov 11	0.19	0.15	0.17	0.21	0.19	0.17	0.18	0.17	0.19	0.2	0.21	0.3	0.2	0.2	0.18	0.2	0.19	0.19	S	0.28	0.25	0.28	0.23	0.23	0.15	0.30	0.21
Nov 12	0.2	0.19	0.17	0.14	0.12	0.14	0.15	0.15	0.14	0.16	0.16	0.16	0.16	0.17	0.17	0.21	0.19	S	0.22	0.18	0.19	0.18	0.21	0.24	0.12	0.24	0.17
Nov 13	0.19	0.16	0.26	0.19	0.26	0.23	0.19	0.18	0.18	0.17	0.16	0.16	0.16	0.16	0.16	0.16	S	0.24	0.21	0.2	0.19	0.19	0.19	0.19	0.16	0.26	0.19
Nov 14	0.18	0.18	0.18	0.18	0.17	0.16	0.18	0.19	0.21	0.2	0.21	0.18	0.19	0.21	0.21	S	0.35	0.29	0.3	0.24	0.24	0.26	0.27	0.27	0.16	0.35	0.22
Nov 15	0.32	0.33	0.49	0.36	0.37	0.43	0.44	0.5	0.39	0.22	0.2	0.23	0.24	0.26	S	0.29	0.24	0.22	0.23	0.26	0.26	0.24	0.19	0.19	0.19	0.50	**0.30**
Nov 16	0.17	0.17	0.16	0.17	0.16	0.13	0.2	0.12	0.13	0.11	0.12	0.13	0.12	S	0.19	0.15	0.16	0.16	0.17	0.15	0.17	0.18	0.19	0.18	0.11	0.20	0.16
Nov 17	0.2	0.21	0.21	0.18	0.17	0.2	0.23	0.3	0.29	0.2	0.18	0.17	S	0.22	0.18	0.17	0.18	0.19	0.23	0.21	0.18	0.19	0.2	0.17	0.17	0.30	0.20
Nov 18	0.14	0.15	0.17	0.16	0.16	0.15	0.17	0.17	0.16	0.16	0.15	S	0.2	0.17	0.2	0.22	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.22	0.16
Nov 19	0.16	0.14	0.15	0.15	0.16	0.15	0.16	0.16	0.13	0.13	S	0.19	0.15	0.16	0.16	0.15	0.14	0.14	0.14	0.15	0.14	0.15	0.16	0.17	0.13	0.19	0.15
Nov 20	0.16	0.17	0.17	0.16	0.16	0.17	0.18	0.19	0.16	S	0.23	0.18	0.17	0.17	0.2	0.17	0.16	0.16	0.15	0.16	0.14	0.15	0.15	0.14	0.14	0.23	0.17
Nov 21	0.15	0.15	0.13	0.13	0.14	0.15	0.27	0.2	S	0.2	0.14	0.15	0.15	0.15	0.22	0.18	0.21	0.2	0.17	0.19	0.23	0.21	0.2	0.17	0.13	0.27	0.18
Nov 22	0.18	0.19	0.2	0.19	0.2	0.2	0.21	S	0.28	0.24	0.23	0.26	0.25	0.23	0.24	0.25	0.26	0.25	0.21	0.24	0.22	0.2	0.18	0.2	0.18	0.28	0.22
Nov 23	0.17	0.17	0.18	0.17	0.17	0.17	S	0.26	0.21	0.21	0.2	0.2	0.2	0.21	0.19	0.2	0.2	0.21	0.2	0.2	0.2	0.2	0.19	0.19	0.17	0.26	0.20
Nov 24	0.21	0.2	0.19	0.19	0.17	S	0.25	0.22	0.22	0.22	0.22	0.18	0.17	0.18	0.18	0.19	0.2	0.22	0.35	0.36	0.37	0.23	0.22	0.23	0.17	0.37	0.22
Nov 25	0.21	0.22	0.25	0.28	S	0.47	0.52	0.46	0.41	0.38	0.25	0.2	0.19	0.18	0.18	0.21	0.22	0.25	0.23	0.24	0.27	0.26	0.24	0.29	0.18	0.52	0.28
Nov 26	0.3	0.36	0.4	S	0.54	0.47	0.42	0.4	0.36	0.25	0.25	0.24	0.21	0.19	0.19	0.2	0.19	0.16	0.15	0.15	0.15	0.16	0.17	0.16	0.15	0.54	0.26
Nov 27	0.16	0.15	S	0.19	0.17	0.16	0.26	0.19	0.17	0.16	0.18	0.17	0.16	0.15	0.2	0.16	0.16	0.17	0.16	0.16	0.16	0.17	0.17	0.16	0.15	0.26	0.17
Nov 28	0.17	S	0.23	0.2	0.18	0.18	0.31	0.24	0.2	0.2	0.2	0.2	0.21	0.2	0.24	0.25	0.26	0.19	0.2	0.26	0.25	0.24	0.22	0.22	0.17	0.31	0.22
Nov 29	S	0.28	0.25	0.22	0.22	0.23	0.29	0.26	0.23	0.2	0.2	0.21	0.21	0.21	0.22	0.19	0.2	0.19	0.18	0.17	0.18	0.18	0.2	S	0.17	0.29	0.21
Nov 30	0.24	0.21	0.2	0.19	0.18	0.18	0.19	0.2	0.2	0.22	0.2	0.27	0.26	0.32	0.25	0.24	0.26	0.35	0.35	0.31	0.31	0.33	S	0.36	0.18	0.36	0.25
Diurnal Maximum	0.32	0.49	0.56	0.51	0.54	0.47	0.52	0.50	0.41	0.38	0.29	0.30	0.26	0.32	0.35	0.35	0.48	1.30	0.35	0.36	0.37	0.34	0.27	0.36			
Diurnal Average	0.20	0.21	0.22	0.20	0.21	0.22	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.19	0.20	0.21	0.22	0.25	0.21	0.21	0.22	0.21	0.20	0.21			

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 - November 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:	1.64 ppb	on Nov 7 at 17:00	# of Instrument in Service	1440
Maximum Daily Value:	0.30 ppb	on Nov 7	# of Valid Measurements	1367
Minimum 30-Minute Value:	0.11 ppb	Nov 16 at 09:00	# of Missing Measurements:	0
Minimum Daily Value:	0.15 ppb	on Nov 19	# of Calibration:	73
Monthly Average:	0.21 ppb		Operational Uptime:	100.0

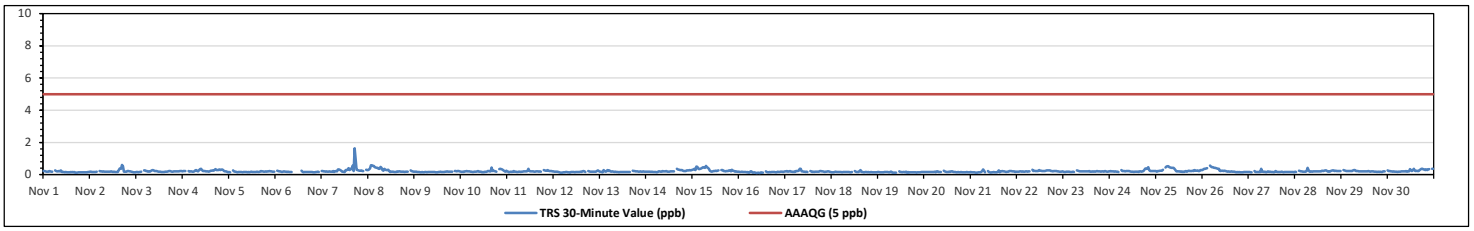
30-Minute Period Starting at (MST)

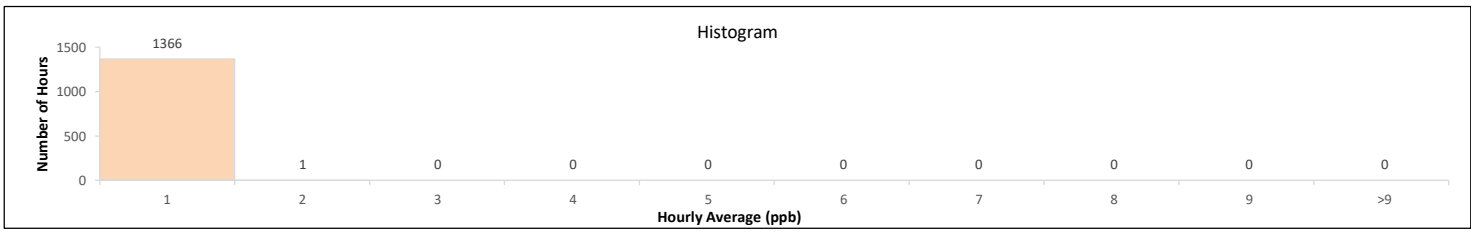
Day	Nov 1	Nov 2	Nov 3	Nov 4	Nov 5	Nov 6	Nov 7	Nov 8	Nov 9	Nov 10	Nov 11	Nov 12	Nov 13	Nov 14	Nov 15	Nov 16	Nov 17	Nov 18	Nov 19	Nov 20	Nov 21	Nov 22	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30	Diurnal Maximum	Diurnal Average
00:00	0.22	0.19	0.17	0.2	0.16	S	0.24	0.29	0.19	0.18	0.21	0.21	0.19	0.18	0.31	0.18	0.2	0.15	0.16	0.17	0.16	0.18	0.18	0.2	0.23	0.28	0.16	0.18	S	0.27	0.31	0.20
00:30	0.23	0.19	0.16	0.22	0.15	S	0.23	0.33	0.18	0.17	0.18	0.19	0.18	0.18	0.33	0.16	0.2	0.14	0.16	0.16	0.14	0.18	0.17	0.22	0.19	0.32	0.17	0.17	S	0.22	0.33	0.20
01:00	0.21	0.17	0.15	0.22	S	0.25	0.21	0.39	0.18	0.18	0.14	0.19	0.17	0.18	0.36	0.17	0.22	0.14	0.15	0.17	0.15	0.18	0.17	0.2	0.22	0.36	0.15	S	0.29	0.22	0.39	0.21
01:30	0.18	0.16	0.16	0.22	S	0.23	0.21	0.59	0.17	0.17	0.16	0.19	0.14	0.18	0.3	0.18	0.19	0.16	0.14	0.16	0.15	0.2	0.18	0.2	0.22	0.37	0.15	S	0.26	0.21	0.59	0.21
02:00	0.18	0.16	0.17	S	0.26	0.21	0.19	0.59	0.17	0.2	0.18	0.18	0.29	0.18	0.5	0.17	0.21	0.18	0.15	0.17	0.14	0.2	0.18	0.2	0.25	0.39	S	0.25	0.25	0.21	0.59	0.23
02:30	0.18	0.17	0.18	S	0.2	0.2	0.2	0.54	0.16	0.21	0.17	0.16	0.22	0.17	0.48	0.16	0.22	0.16	0.14	0.16	0.12	0.19	0.19	0.18	0.25	0.4	S	0.22	0.24	0.19	0.54	0.22
03:00	0.22	0.16	S	0.24	0.18	0.19	0.19	0.55	0.15	0.22	0.18	0.15	0.18	0.18	0.37	0.17	0.19	0.16	0.14	0.16	0.13	0.2	0.18	0.2	0.25	S	0.22	0.2	0.22	0.2	0.55	0.21
03:30	0.21	0.18	S	0.19	0.18	0.17	0.18	0.47	0.15	0.21	0.23	0.13	0.2	0.17	0.34	0.16	0.18	0.17	0.16	0.17	0.13	0.19	0.16	0.18	0.31	S	0.17	0.2	0.22	0.19	0.47	0.20
04:00	0.19	S	0.27	0.21	0.17	0.18	0.21	0.45	0.17	0.2	0.19	0.12	0.29	0.17	0.36	0.15	0.17	0.17	0.16	0.16	0.14	0.19	0.17	0.18	S	0.56	0.17	0.19	0.22	0.19	0.56	0.21
04:30	0.18	S	0.26	0.2	0.15	0.2	0.19	0.43	0.15	0.21	0.19	0.12	0.22	0.17	0.38	0.17	0.18	0.16	0.16	0.16	0.14	0.21	0.17	0.17	S	0.51	0.17	0.18	0.23	0.18	0.51	0.21
05:00	S	0.24	0.23	0.19	0.16	0.18	0.19	0.42	0.15	0.19	0.17	0.14	0.27	0.17	0.41	0.13	0.17	0.16	0.16	0.16	0.15	0.2	0.18	S	0.44	0.47	0.16	0.18	0.23	0.17	0.47	0.22
05:30	S	0.21	0.22	0.19	0.16	0.19	0.18	0.37	0.17	0.18	0.16	0.14	0.2	0.15	0.46	0.13	0.22	0.15	0.14	0.18	0.16	0.19	0.17	S	0.5	0.46	0.17	0.18	0.24	0.19	0.50	0.22
06:00	0.27	0.21	0.19	0.21	0.16	0.17	0.22	0.37	0.16	0.17	0.18	0.14	0.19	0.17	0.44	0.2	0.22	0.16	0.14	0.15	0.22	0.21	S	0.28	0.52	0.42	0.16	0.22	0.27	0.19	0.52	0.23
06:30	0.24	0.19	0.21	0.26	0.17	0.19	0.17	0.48	0.15	0.17	0.18	0.16	0.2	0.2	0.43	0.2	0.24	0.17	0.18	0.21	0.33	0.21	S	0.22	0.53	0.42	0.37	0.41	0.3	0.19	0.53	0.25
07:00	0.2	0.21	0.19	0.28	0.15	0.17	0.2	0.43	0.17	0.18	0.17	0.16	0.19	0.2	0.54	0.13	0.25	0.17	0.18	0.2	0.25	S	0.27	0.22	0.47	0.4	0.18	0.29	0.28	0.2	0.54	0.24
07:30	0.21	0.19	0.22	0.24	0.17	0.17	0.22	0.29	0.17	0.19	0.18	0.14	0.17	0.19	0.46	0.12	0.35	0.17	0.13	0.17	0.15	S	0.25	0.22	0.44	0.39	0.19	0.19	0.23	0.2	0.46	0.22
08:00	0.24	0.19	0.27	0.21	0.17	0.17	0.21	0.25	0.17	0.18	0.19	0.14	0.18	0.19	0.43	0.14	0.36	0.17	0.13	0.16	S	0.31	0.22	0.21	0.41	0.37	0.17	0.18	0.22	0.2	0.43	0.22
08:30	0.2	0.18	0.29	0.3	0.17	0.16	0.33	0.37	0.17	0.21	0.2	0.13	0.17	0.22	0.35	0.12	0.21	0.16	0.13	0.17	S	0.24	0.2	0.23	0.42	0.35	0.18	0.21	0.23	0.21	0.42	0.22
09:00	0.26	0.19	0.27	0.34	0.16	C	0.32	0.31	0.17	0.23	0.2	0.16	0.17	0.2	0.25	0.11	0.21	0.16	0.12	S	0.22	0.25	0.21	0.22	0.41	0.25	0.15	0.18	0.2	0.21	0.41	0.22
09:30	0.17	0.19	0.22	0.35	0.15	C	0.3	0.28	0.16	0.18	0.21	0.16	0.17	0.2	0.2	0.11	0.19	0.15	0.13	S	0.17	0.23	0.21	0.22	0.36	0.24	0.16	0.21	0.21	0.22	0.36	0.21
10:00	0.17	0.18	0.22	0.29	0.16	C	0.25	0.28	0.16	0.19	0.21	0.16	0.15	0.2	0.18	0.12	0.19	0.15	S	0.25	0.15	0.24	0.2	0.24	0.29	0.25	0.2	0.2	0.21	0.19	0.29	0.20
10:30	0.16	0.18	0.22	0.22	0.15	C	0.19	0.31	0.16	0.18	0.22	0.16	0.17	0.22	0.21	0.11	0.17	0.16	S	0.2	0.13	0.23	0.2	0.21	0.21	0.25	0.17	0.21	0.2	0.21	0.31	0.19
11:00	0.15	0.2	0.2	0.23	0.16	C	0.18	0.22	0.15	0.15	0.36	0.15	0.16	0.18	0.22	0.11	0.18	S	0.21	0.18	0.15	0.23	0.21	0.18	0.2	0.24	0.18	0.2	0.2	0.21	0.36	0.19
11:30	0.17	0.19	0.19	0.22	0.18	C	0.16	0.17	0.15	0.16	0.24	0.16	0.16	0.19	0.24	0.14	0.17	S	0.17	0.17	0.14	0.29	0.2	0.18	0.2	0.25	0.16	0.21	0.21	0.34	0.34	0.19
12:00	0.15	0.16	0.19	0.21	0.16	C	0.16	0.19	0.15	0.14	0.2	0.17	0.16	0.19	0.25	0.12	S	0.23	0.16	0.17	0.17	0.25	0.2	0.18	0.2	0.22	0.16	0.2	0.21	0.29	0.29	0.19
12:30	0.14	0.18	0.18	0.21	0.16	C	0.3	0.18	0.17	0.19	0.2	0.16	0.17	0.2	0.24	0.13	S	0.18	0.15	0.17	0.14	0.25	0.2	0.16	0.18	0.2	0.16	0.21	0.21	0.23	0.30	0.19
13:00	0.15	0.16	0.17	0.2	0.16	C	0.29	0.19	0.17	0.17	0.2	0.17	0.16	0.21	0.25	S	0.24	0.17	0.16	0.18	0.15	0.24	0.21	0.18	0.2	0.18	0.15	0.21	0.21	0.29	0.29	0.19
13:30	0.15	0.16	0.16	0.19	0.17	0.25	0.31	0.17	0.18	0.18	0.2	0.17	0.16	0.21	0.27	S	0.2	0.16	0.16	0.17	0.15	0.23	0.22	0.18	0.17	0.2	0.16	0.2	0.2	0.35	0.35	0.20
14:00	0.17	0.17	0.17	0.2	0.16	0.18	0.4	0.16	0.17	0.23	0.18	0.18	0.17	0.21	S	0.21	0.17	0.16	0.14	0.2	0.19	0.24	0.19	0.19	0.18	0.19	0.22	0.25	0.24	0.25	0.40	0.20
14:30	0.15	0.16	0.17	0.25	0.18	0.15	0.3	0.17	0.17	0.23	0.19	0.17	0.16	0.21	S	0.17	0.18	0.23	0.19	0.2	0.26	0.24	0.19	0.18	0.17	0.19	0.19	0.22	0.2	0.24	0.30	0.20
15:00	0.16	0.29	0.18	0.25	0.17	0.16	0.36	0.2	0.16	0.21	0.2	0.2	0.16	S	0.3	0.15	0.16	0.28	0.13	0.17	0.15	0.25	0.21	0.17	0.2	0.21	0.16	0.25	0.19	0.25	0.36	0.20
15:30	0.15	0.39	0.18	0.27	0.17	0.16	0.34	0.19	0.16	0.21	0.2	0.22	0.17	S	0.29	0.14	0.18	0.16	0.16	0.16	0.21	0.26	0.19	0.2	0.22	0.19	0.16	0.26	0.2	0.24	0.39	0.21
16:00	0.16	0.35	0.19	0.25	0.18	0.16	0.56	0.2	0.18	0.45	0.2	0.21	S	0.37	0.24	0.17	0.18	0.17	0.13	0.16	0.21	0.26	0.21	0.2	0.19	0.19	0.17	0.27	0.21	0.23	0.56	0.23
16:30	0.13	0.6	0.21	0.29	0.24	0.16	0.22	0.2	0.18	0.23	0.18	0.17	S	0.33	0.24	0.15	0.18	0.15	0.14	0.15	0.22	0.26	0.19	0.19	0.24	0.18	0.16	0.24	0.2	0.29	0.60	0.22
17:00	0.13	0.52	0.22	0.34	0.21	0.16	1.64	0.19	0.2	0.25	0.2	S	0.25	0.31	0.21	0.16	0.18	0.15	0.14	0.15	0.2	0.26	0.21	0.21	0.25	0.16	0.18	0.19	0.19	0.33	1.64	0.27
17:30	0.12	0.19	0.22	0.28	0.2	0.16	0.97	0.19	0.19	0.22	0.19	S	0.22	0.28	0.23	0.17	0.19	0.16	0.15	0.17	0.2	0.24	0.22	0.23	0.24	0.15	0.17	0.2	0.19	0.37	0.97	0.23
18:00	0.14	0.18	0.21	0.3	0.19	0.16	0.31	0.19	0.19	0.2	S	0.24	0.22	0.3	0.23	0.17	0.23	0.16	0.15	0.15	0.18	0.22	0.2	0.31	0.24	0.17	0.15	0.19	0.19	0.36	0.36	0.21
18:30	0.14	0.18	0.19	0.3	0.18	0.16	0.29	0.18	0.18	0.19	S	0.2	0.21	0.3	0.23	0.17	0.22	0.15	0.14	0.15	0.16	0.21	0.21	0.38	0.22	0.14	0.16	0.22	0.17	0.33	0.38	0.21
19:00	0.14	0.19	0.18	0.32	0.21	0.17	0.26	0.17	0.19	S	0.3	0.18	0.2	0.25	0.26	0.15	0.21	0.16	0.15	0.16	0.19	0.24	0.2	0.35	0.25	0.16	0.16	0.25	0.18	0.33	0.35	0.21
19:30	0.14	0.23	0.21	0.3	0.19	0.14	0.25	0.18	0.19	S	0.27	0.19	0.21	0.24	0.26	0.15	0.2	0.15	0.14	0.15	0.19	0.24	0.19	0.37	0.23	0.15	0.17	0.27	0.17	0.29	0.37	0.21
20:00	0.15	0.23	0.2	0.31	0.2	0.14	0.25	0.19	S	0.34	0.25	0.19	0.19	0.24	0.21	0.18	0.18	0.15	0.13	0.15	0.22	0.22	0.2	0.46	0.28	0.15	0.16	0.27	0.18	0.32	0.46	0.22
20:30	0.14	0.2	0.2	0.33	0.21	0.15	0.26	0.18	S	0.37	0.25	0.19	0.19	0.24	0.31	0.17	0.17	0.16	0.14	0.14	0.23	0.22	0.21	0.29	0.25	0.15	0.16	0.24	0.17	0.3	0.37	0.21
21:00	0.14	0.2	0.21	0.3	0.23	0.17	0.23	S	0.24	0.34	0.3	0.18	0.2	0.26	0.25	0.17	0.19	0.14	0.15	0.15	0.22	0.21	0.18	0.23	0.25	0.14	0.17	0.25	0.17	0.32	0.34	0.21
21:30	0.14	0.18	0.21	0.23	0.21	0.16	0.22	S	0.22	0.33	0.25	0.18	0.18	0.27	0.22	0.19	0.19	0.15	0.15	0.15	0.2	0.2	0.22	0.23	0.27	0.17	0.17	0.23	0.2	0.34	0.34	0.21
22:00	0.15	0.17	0.2	0.2	0.2	0.18	S	0.26	0.21	0.27	0.23	0.19	0.19	0.26	0.19	0.18	0.21	0.15	0.15	0.17	0.21	0.18	0.2	0.22	0.24	0.17	0.17	0.22	0.2	S	0.27	0.20
22:30	0.15	0.14	0.22	0.2	0.19	0.16	S	0.23	0.24	0.22	0.23	0.23	0.2	0.29	0.2	0.19	0.2	0.15	0.16	0.14	0.2	0.18	0.18	0.22	0.24	0.17	0.17	0.23	0.2	S	0.29	0.20
23:00	0.17	0.15	0.24	0.18	0.18	S	0.31	0.21	0.23	0.18	0.24	0.26	0.18	0.26	0.19	0.17	0.18	0.14	0.17	0.14	0.17	0.19	0.19	0.22	0.28	0.16	0.17	0.23	S	0.37	0.37	0.21
23:30	0.17	0.15	0.23	0.15	0.18	S	0.29	0.19	0.2	0.25	0.21	0.23	0.19	0.28	0.19	0.19	0.16	0.14	0.17	0.14	0.18	0.2	0.2	0.24	0.3	0.16	0.15	0.22	S	0.35	0.35	0.20
Minimum	0.12	0.14	0.15	0.15	0.15	0.14	0.16	0.16	0.15	0.14	0.14	0.12	0.14	0.15	0.18	0.11	0.16	0.14	0.12	0.14	0.12	0.18	0.16	0.16	0.17	0.14	0.15	0.17	0.17	0.17		
Maximum	0.27	0.6	0.29	0.35	0.26	0.25	1.64	0.59	0.24	0.45	0.36	0.26	0.29	0.37	0.54	0.21	0.36	0.28	0.21	0.25	0.33	0.31	0.27	0.46	0.53	0.56	0.37	0.41	0.3	0.37		
Average	0.17	0.21	0.2	0.25	0.18	0.18	0.3	0.29	0.18	0.22	0.21	0.17	0.19	0.22	0.3	0.16	0.2	0.16	0.15	0.17	0.18	0.22	0.2	0.23	0.28	0.26	0.17	0.22	0.21	0.25		

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.



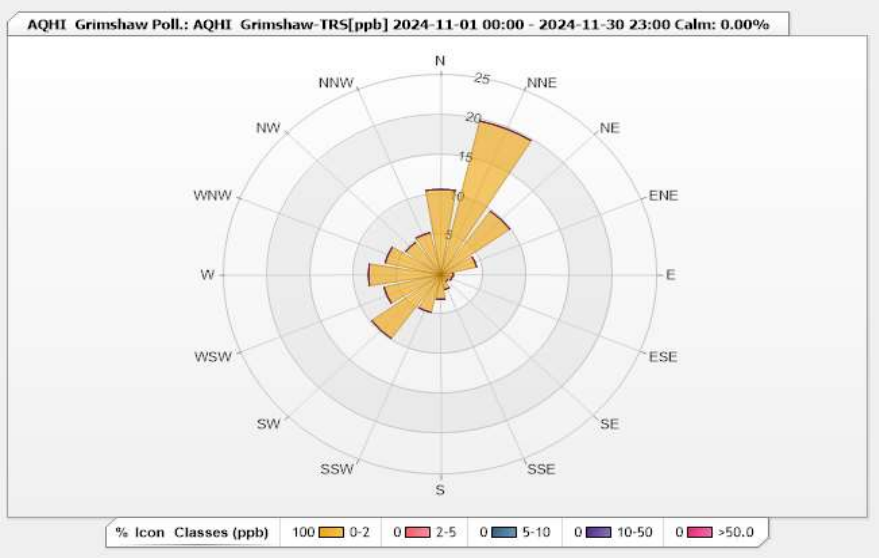


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	10.69	0	0	0	0	10.69
NNE	19.77	0	0	0	0	19.77
NE	9.81	0	0	0	0	9.81
ENE	4.25	0	0	0	0	4.25
E	1.46	0	0	0	0	1.46
ESE	1.32	0	0	0	0	1.32
SE	1.02	0	0	0	0	1.02
SSE	1.9	0	0	0	0	1.9
S	3.07	0	0	0	0	3.07
SSW	4.83	0	0	0	0	4.83
SW	9.81	0	0	0	0	9.81
WSW	6.73	0	0	0	0	6.73
W	8.35	0	0	0	0	8.35
WNW	6.59	0	0	0	0	6.59
NW	4.98	0	0	0	0	4.98
NNW	5.42	0	0	0	0	5.42
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

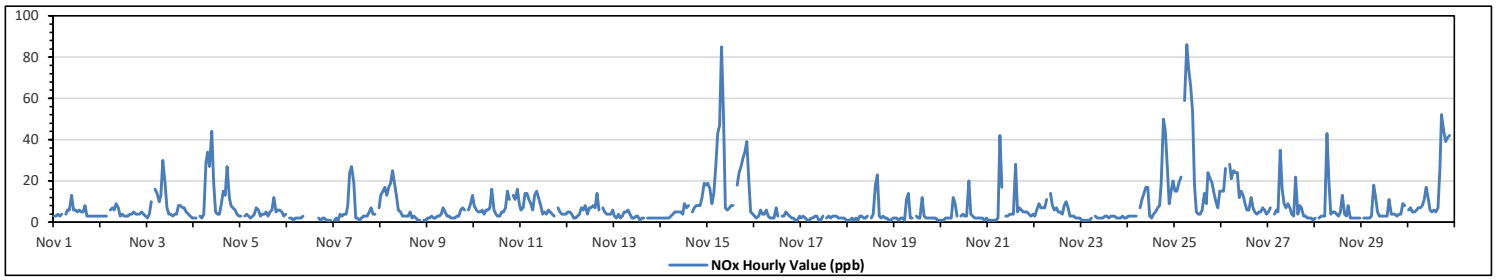
OXIDES OF NITROGEN (NOx) in ppb

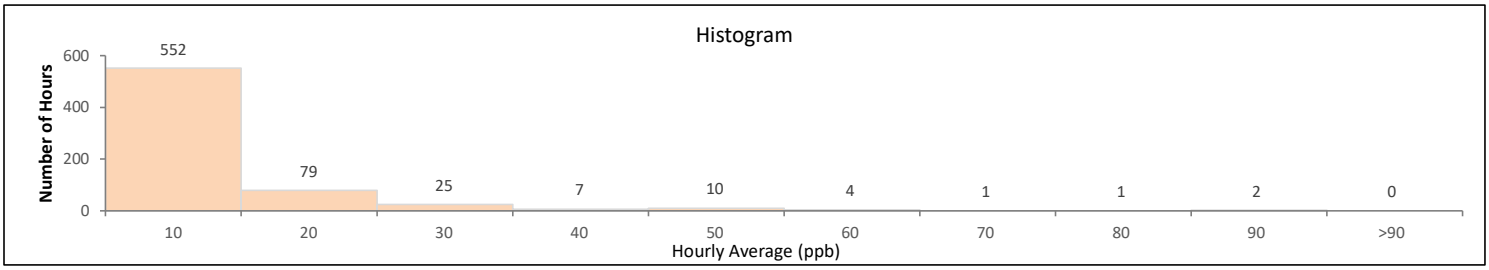
Maximum Hourly Value:	86	ppb	on Nov 25 at hr 6	Hours in Service:	720
Maximum Daily Value:	25.2	ppb	on Nov 25	Hours of Data:	681
Minimum Hourly Value:	1	ppb	on Nov 6 at hr 3	Hours of Missing Data:	0
Minimum Daily Value:	2.1	ppb	on Nov 23	Hours of Calibration:	39
Monthly Average:	7.6	ppb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	3	3	4	3	4	S	4	6	6	13	6	6	5	6	5	5	8	3	3	3	3	3	3	3	3	13	4.7
Nov 2	3	3	3	3	S	6	7	6	9	7	3	4	3	3	3	4	4	5	4	4	4	5	4	3	3	9	4.3
Nov 3	2	4	10	S	16	14	10	13	30	19	7	4	4	3	4	4	8	8	7	7	5	4	3	2	2	30	8.2
Nov 4	2	2	S	3	2	4	29	34	27	44	19	5	4	4	9	15	13	27	12	8	7	6	4	3	2	44	12.3
Nov 5	3	S	3	4	3	2	3	4	7	6	3	4	4	5	3	5	6	12	5	6	6	5	3	4	2	12	4.6
Nov 6	S	2	2	1	2	2	2	2	3	C	C	C	C	C	C	C	2	1	2	2	1	1	1	S	1	3	NA
Nov 7	1	2	1	4	3	4	4	8	24	27	19	2	2	1	2	3	3	3	5	7	4	4	S	7	1	27	6.1
Nov 8	13	15	17	13	17	19	25	19	13	6	5	3	3	3	3	5	2	3	2	1	1	S	1	1	1	25	8.3
Nov 9	2	2	3	2	2	3	3	4	7	5	3	3	2	2	2	3	3	6	7	6	S	6	9	13	2	13	4.3
Nov 10	8	6	5	5	6	4	6	6	7	16	6	4	3	3	5	5	7	15	11	S	13	11	16	9	3	16	7.7
Nov 11	6	7	14	14	11	9	6	13	15	12	8	4	5	4	6	5	4	3	S	7	5	4	4	4	3	15	7.4
Nov 12	5	5	4	2	2	3	4	7	6	8	4	7	7	8	7	14	6	S	7	5	4	4	4	6	2	14	5.6
Nov 13	3	2	4	2	3	5	5	6	4	2	2	3	3	1	2	2	S	2	2	2	2	2	2	2	1	6	2.7
Nov 14	2	2	2	2	2	3	4	5	5	5	5	4	9	7	8	S	5	7	8	8	8	12	19	18	2	19	6.5
Nov 15	19	16	9	14	27	43	47	85	53	7	6	7	8	8	S	18	24	27	31	34	39	21	5	4	4	85	24.0
Nov 16	3	2	3	6	4	4	6	3	2	2	2	7	3	S	3	3	5	4	3	2	2	1	1	3	1	7	3.2
Nov 17	2	3	2	1	1	2	2	3	3	1	1	3	S	2	3	2	3	3	3	2	2	2	2	1	1	3	2.1
Nov 18	1	1	2	1	2	1	3	3	2	2	3	S	2	4	18	23	3	2	3	2	2	1	1	2	1	23	3.7
Nov 19	2	2	1	2	2	1	11	14	2	2	S	3	2	2	12	3	2	2	2	2	2	2	1	1	1	14	3.3
Nov 20	1	1	2	2	2	2	12	9	3	S	3	4	3	3	20	4	3	2	2	2	2	2	1	2	1	20	3.8
Nov 21	1	1	1	1	1	2	42	17	S	3	3	4	4	4	28	5	7	6	5	5	5	4	3	4	1	42	6.8
Nov 22	3	6	9	7	7	7	11	S	14	8	6	7	5	5	4	8	10	7	3	3	3	2	2	2	2	14	6.0
Nov 23	1	1	1	1	1	2	S	3	2	2	2	2	3	3	2	3	3	3	2	2	2	3	2	2	1	3	2.1
Nov 24	3	3	3	3	3	S	7	11	14	17	17	3	2	4	5	7	8	19	50	44	27	9	15	20	2	50	12.8
Nov 25	15	15	19	22	S	59	86	74	66	54	18	5	4	4	6	14	9	24	21	19	14	10	7	15	4	86	25.2
Nov 26	15	15	26	S	28	21	25	24	24	12	15	13	9	6	6	12	7	5	4	5	5	7	6	4	4	28	12.8
Nov 27	5	7	S	4	6	5	35	16	9	7	9	7	4	3	22	4	8	7	3	3	2	2	2	1	1	35	7.4
Nov 28	2	S	2	3	3	3	43	20	4	5	5	4	3	5	13	4	3	8	2	2	2	2	2	2	2	43	6.2
Nov 29	S	2	2	2	2	3	18	12	5	3	3	3	3	3	11	4	4	4	3	4	4	9	8	S	2	18	5.1
Nov 30	6	7	5	5	6	7	7	8	11	17	12	6	5	6	5	7	26	52	44	39	41	42	S	33	5	52	17.3
Diurnal Maximum	19	16	26	22	28	59	86	85	66	54	19	13	9	8	28	23	26	52	50	44	41	42	19	33			
Diurnal Average	4.7	4.9	5.7	4.7	6.0	8.6	16.1	15.0	13.0	11.1	7.0	4.7	4.1	4.0	7.8	6.8	6.8	9.3	8.8	8.1	7.5	6.4	4.7	6.1			

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.



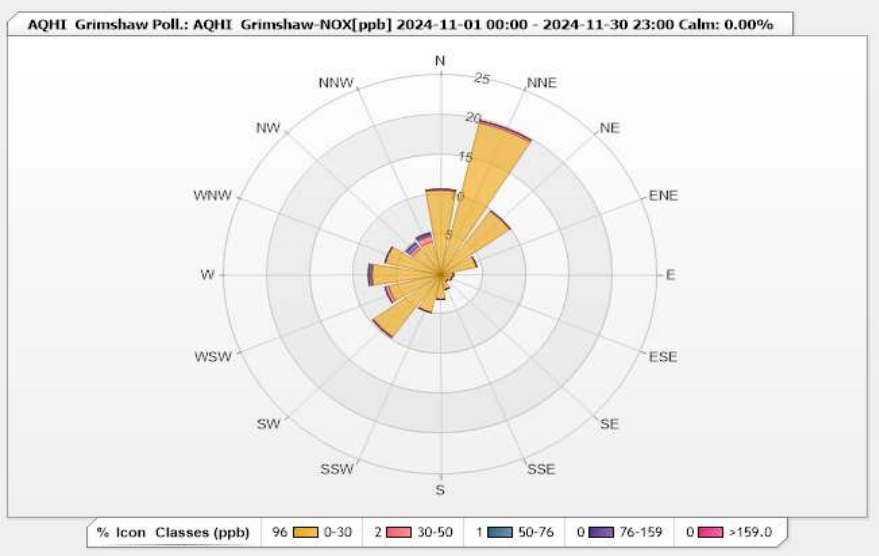


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	10.57	0.15	0	0	0	10.72
NNE	19.53	0.29	0	0	0	19.82
NE	9.84	0	0	0	0	9.84
ENE	4.26	0	0	0	0	4.26
E	1.47	0	0	0	0	1.47
ESE	1.32	0	0	0	0	1.32
SE	1.03	0	0	0	0	1.03
SSE	1.91	0	0	0	0	1.91
S	3.08	0	0	0	0	3.08
SSW	4.85	0	0	0	0	4.85
SW	9.54	0.15	0	0	0	9.69
WSW	6.17	0.44	0	0	0	6.61
W	7.93	0.15	0.29	0	0	8.37
WNW	6.61	0	0	0	0	6.61
NW	3.96	0.44	0.44	0.15	0	4.99
NNW	4.26	0.73	0.29	0.15	0	5.43
Summary	96.33	2.35	1.02	0.3	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

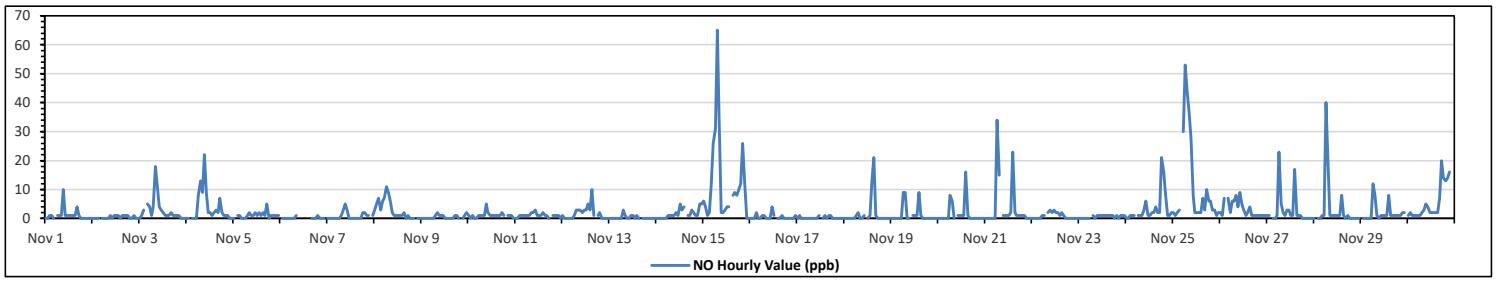
NITRIC OXIDE (NO) in ppb

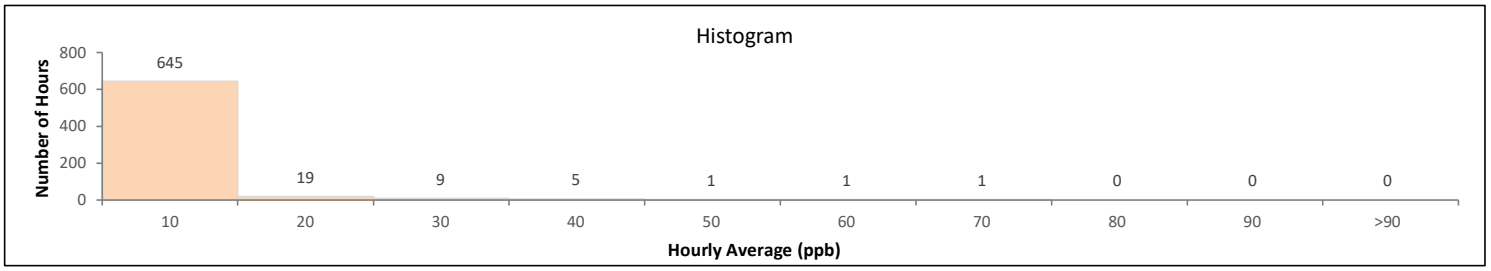
Maximum Hourly Value:	65	ppb	on Nov 15 at hr 7	Hours in Service:	720
Maximum Daily Value:	12.4	ppb	on Nov 15	Hours of Data:	681
Minimum Hourly Value:	0	ppb	on Nov 1 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	0.2	ppb	on Nov 17	Hours of Calibration:	39
Monthly Average:	2.5	ppb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Nov 1	0	0	1	1	0	S	1	1	1	10	1	1	1	1	1	1	4	1	0	0	0	0	0	0	0	10	1.1
Nov 2	0	0	0	0	S	0	0	0	0	1	0	1	1	1	0	1	1	1	1	0	0	1	0	0	0	1	0.4
Nov 3	0	1	3	S	5	4	1	4	18	11	4	3	2	1	1	1	2	1	1	1	1	0	0	0	0	18	2.8
Nov 4	0	0	S	0	0	0	8	13	9	22	9	2	2	1	2	3	2	7	2	1	1	1	0	0	0	22	3.7
Nov 5	0	S	1	1	0	0	0	1	2	1	1	2	1	2	1	2	1	5	0	1	1	1	1	1	0	5	1.1
Nov 6	S	0	0	0	0	0	0	0	1	C	C	C	C	C	C	C	0	0	0	1	0	0	0	S	0	1	NA
Nov 7	0	0	0	0	0	0	0	1	3	5	3	0	0	0	0	0	0	0	2	2	1	1	S	1	0	5	0.8
Nov 8	3	5	7	3	6	7	11	9	6	2	1	1	1	1	1	2	0	1	0	0	0	S	0	0	0	11	2.9
Nov 9	0	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	0	1	1	0	S	0	1	2	0	2	0.5
Nov 10	1	0	1	0	0	1	1	1	1	5	2	1	1	1	1	1	1	2	1	S	1	1	1	0	0	5	1.1
Nov 11	0	0	1	1	1	1	1	1	2	2	3	1	1	1	2	1	1	0	S	1	1	1	1	0	0	3	1.0
Nov 12	1	0	0	0	0	0	1	3	3	3	2	3	3	5	3	10	1	S	1	2	0	0	0	0	0	10	1.8
Nov 13	0	0	0	0	0	0	0	3	1	0	0	1	1	0	1	0	S	0	0	0	0	0	0	0	0	3	0.3
Nov 14	0	0	0	0	0	0	1	1	1	1	2	1	5	3	4	S	1	1	3	2	1	1	5	5	0	5	1.7
Nov 15	6	4	1	2	12	26	31	65	37	2	2	3	4	4	S	8	9	8	10	12	26	13	0	0	0	65	12.4
Nov 16	0	0	0	2	0	0	1	1	0	0	0	4	1	S	0	0	1	0	0	0	0	0	0	1	0	4	0.5
Nov 17	0	1	0	0	0	0	0	0	0	0	0	1	S	0	1	0	1	1	0	0	0	0	0	0	0	1	0.2
Nov 18	0	0	0	0	0	0	1	2	0	0	1	S	0	1	13	21	1	0	0	0	0	0	0	0	0	21	1.7
Nov 19	0	0	0	0	0	0	9	9	0	0	S	1	1	1	9	1	0	0	0	0	0	0	0	0	0	9	1.3
Nov 20	0	0	0	0	0	0	8	6	0	S	1	1	1	1	16	1	0	0	0	0	0	0	0	0	0	16	1.5
Nov 21	0	0	0	0	0	0	34	15	S	1	1	1	1	2	23	2	1	1	1	1	1	0	0	0	0	34	3.7
Nov 22	0	0	0	0	0	1	1	S	2	3	2	3	2	2	1	2	1	0	0	0	0	0	0	0	0	3	0.9
Nov 23	0	0	0	0	0	0	S	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	1	0.6
Nov 24	0	0	1	1	1	S	1	1	1	3	6	1	1	2	2	4	2	2	21	16	9	1	1	2	0	21	3.4
Nov 25	2	1	2	3	S	30	53	44	37	28	8	2	2	2	2	7	3	10	6	6	3	3	1	2	1	53	11.2
Nov 26	2	1	7	S	7	2	6	6	8	4	9	5	3	1	2	4	1	1	1	1	1	1	1	1	1	9	3.3
Nov 27	1	1	S	0	0	1	23	5	2	1	3	3	1	1	17	1	1	1	0	0	0	0	0	0	0	23	2.7
Nov 28	0	S	0	0	1	1	40	17	1	1	1	1	1	1	8	1	0	1	0	0	0	0	0	0	0	40	3.3
Nov 29	S	0	0	0	0	0	12	8	1	0	1	1	1	1	8	1	1	1	1	1	1	2	2	S	0	12	2.0
Nov 30	1	2	1	1	1	1	1	2	3	5	4	2	2	2	2	2	7	20	14	13	14	16	S	10	1	20	5.5
Diurnal Maximum	6	5	7	3	12	30	53	65	37	28	9	5	5	5	23	21	9	20	21	16	26	16	5	10			
Diurnal Average	0.6	0.6	0.9	0.5	1.2	2.7	8.5	7.6	4.9	4.0	2.5	1.7	1.5	1.4	4.4	2.8	1.5	2.3	2.3	2.1	2.1	1.5	0.5	0.9			

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.



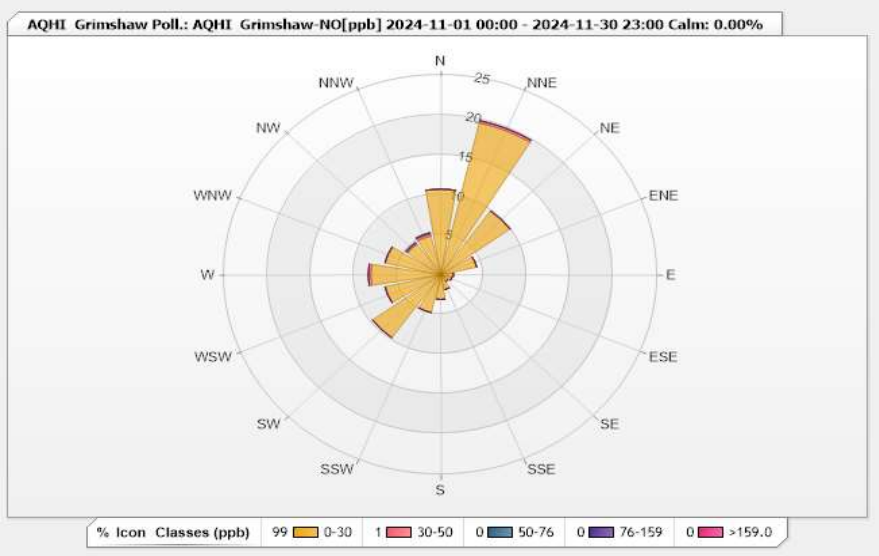


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	10.72	0	0	0	0	10.72
NNE	19.53	0.29	0	0	0	19.82
NE	9.84	0	0	0	0	9.84
ENE	4.26	0	0	0	0	4.26
E	1.47	0	0	0	0	1.47
ESE	1.32	0	0	0	0	1.32
SE	1.03	0	0	0	0	1.03
SSE	1.91	0	0	0	0	1.91
S	3.08	0	0	0	0	3.08
SSW	4.85	0	0	0	0	4.85
SW	9.69	0	0	0	0	9.69
WSW	6.61	0	0	0	0	6.61
W	8.08	0.29	0	0	0	8.37
WNW	6.61	0	0	0	0	6.61
NW	4.7	0.15	0.15	0	0	5
NNW	4.99	0.29	0.15	0	0	5.43
Summary	98.69	1.02	0.3	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

NITROGEN DIOXIDE (NO_2) in ppb

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

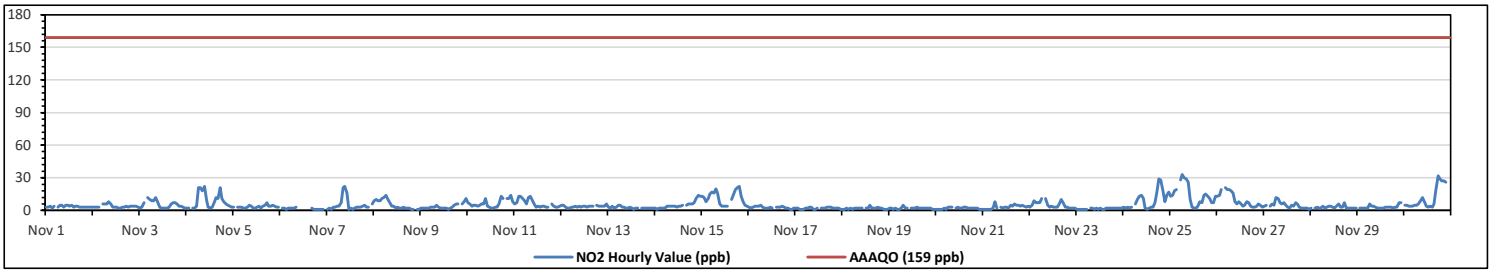
Number of 1-Hour Exceedances: 0

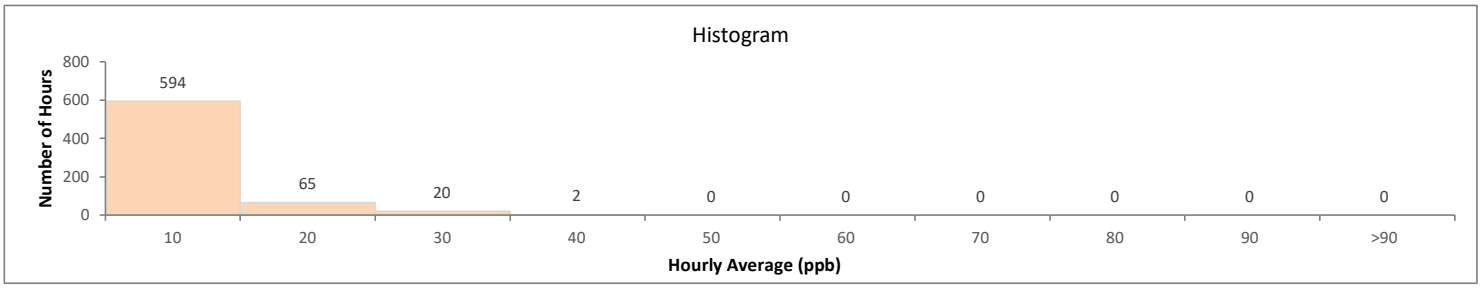
Maximum Hourly Value:	33	ppb	on Nov 25 at hr 6	Hours in Service:	720
Maximum Daily Value:	14.2	ppb	on Nov 25	Hours of Data:	681
Minimum Hourly Value:	1	ppb	on Nov 6 at hr 3	Hours of Missing Data:	0
Minimum Daily Value:	1.6	ppb	on Nov 23	Hours of Calibration:	39
Monthly Average:	5.1	ppb		Operational Uptime:	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			
Nov 1	3	3	4	2	4	S	3	5	5	3	5	5	4	5	3	4	4	3	3	3	3	3	3	3	2	5	3.6
Nov 2	3	3	3	3	S	6	6	6	8	6	3	3	3	2	2	3	3	4	3	4	4	4	4	3	2	8	3.9
Nov 3	2	3	7	S	12	10	9	9	12	8	3	2	2	2	2	3	6	7	7	6	4	4	3	2	2	12	5.4
Nov 4	2	2	S	2	2	4	21	21	18	22	10	3	2	3	7	12	11	21	11	8	6	5	4	3	2	22	8.7
Nov 5	3	S	3	3	3	2	2	3	5	4	2	2	3	4	2	4	5	7	4	4	5	4	3	3	2	7	3.5
Nov 6	S	2	2	1	2	2	2	2	3	C	C	C	C	C	C	C	2	1	1	1	1	1	1	S	1	3	NA
Nov 7	1	2	1	3	3	4	4	7	21	22	16	1	2	1	2	3	3	3	4	5	3	3	S	6	1	22	5.2
Nov 8	9	10	9	9	11	12	14	10	7	4	4	2	3	2	2	3	2	2	2	1	1	S	1	1	1	14	5.3
Nov 9	2	2	2	2	2	3	3	3	5	3	2	2	2	2	1	2	3	5	6	6	S	6	8	11	1	11	3.6
Nov 10	7	6	4	5	5	4	5	6	6	11	4	3	2	2	3	3	6	13	11	S	11	11	14	8	2	14	6.5
Nov 11	6	7	13	13	11	9	6	12	13	9	6	3	4	3	4	4	3	3	S	6	4	3	3	4	3	13	6.5
Nov 12	5	5	3	2	2	3	3	4	3	4	3	4	4	3	4	4	4	S	5	4	4	4	4	6	2	6	3.8
Nov 13	3	2	4	2	3	5	5	3	3	2	2	3	2	1	2	2	S	2	2	2	2	2	2	2	1	5	2.5
Nov 14	2	1	2	2	2	2	4	4	4	4	4	3	4	4	5	S	5	6	6	6	7	11	14	13	1	14	5.0
Nov 15	13	12	8	11	15	17	16	20	16	6	4	4	4	4	S	10	14	19	21	22	13	8	5	4	4	22	11.6
Nov 16	3	2	3	4	4	4	5	3	2	2	2	3	2	S	3	3	3	4	3	2	2	1	1	2	1	5	2.7
Nov 17	2	2	1	1	1	2	2	3	3	1	1	2	S	2	2	2	3	3	3	2	2	2	2	1	1	3	2.0
Nov 18	1	1	2	1	2	1	2	2	2	2	2	S	2	2	5	2	2	2	3	2	2	1	1	1	1	5	1.9
Nov 19	2	2	1	2	1	1	2	5	2	2	S	2	2	2	3	2	2	2	2	2	2	2	1	1	1	5	2.0
Nov 20	1	1	1	1	2	1	3	3	3	S	2	3	2	2	3	3	2	2	2	2	2	2	1	1	1	3	2.0
Nov 21	1	1	1	1	1	2	8	2	S	3	2	3	3	2	5	4	6	5	5	4	5	4	3	4	1	8	3.3
Nov 22	3	5	9	7	7	7	11	S	11	5	3	4	3	3	3	6	10	7	3	3	2	2	2	2	2	11	5.1
Nov 23	1	1	1	1	1	S	2	2	1	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	1	2	1.6
Nov 24	3	2	3	2	3	S	6	10	13	14	11	2	1	2	3	3	7	17	29	28	18	8	14	17	1	29	9.4
Nov 25	13	14	18	19	S	28	33	30	29	26	10	3	2	2	4	8	7	14	15	13	11	7	7	13	2	33	14.2
Nov 26	13	14	19	S	21	19	19	18	16	8	6	8	6	4	5	8	7	4	3	3	4	6	5	3	3	21	9.5
Nov 27	4	5	S	4	6	5	12	11	7	6	7	5	3	2	5	4	7	6	3	2	2	2	2	1	1	12	4.8
Nov 28	2	S	2	3	2	2	4	2	3	4	4	3	2	4	6	3	3	7	2	2	2	2	2	2	2	7	3.0
Nov 29	S	2	2	2	2	2	6	4	4	3	2	2	2	2	3	3	3	3	2	3	3	7	7	S	2	7	3.1
Nov 30	5	5	4	4	4	5	5	6	9	12	8	4	3	4	3	6	19	32	29	27	27	26	S	23	3	32	11.7
Diurnal Maximum	13	14	19	19	21	28	33	30	29	26	16	8	6	5	7	12	19	32	29	28	27	26	14	23			
Diurnal Average	4.1	4.2	4.7	4.0	4.8	5.8	7.6	7.4	8.1	7.0	4.6	3.0	2.7	2.6	3.3	4.1	5.3	7.1	6.6	6.0	5.3	4.9	4.3	5.1			

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.



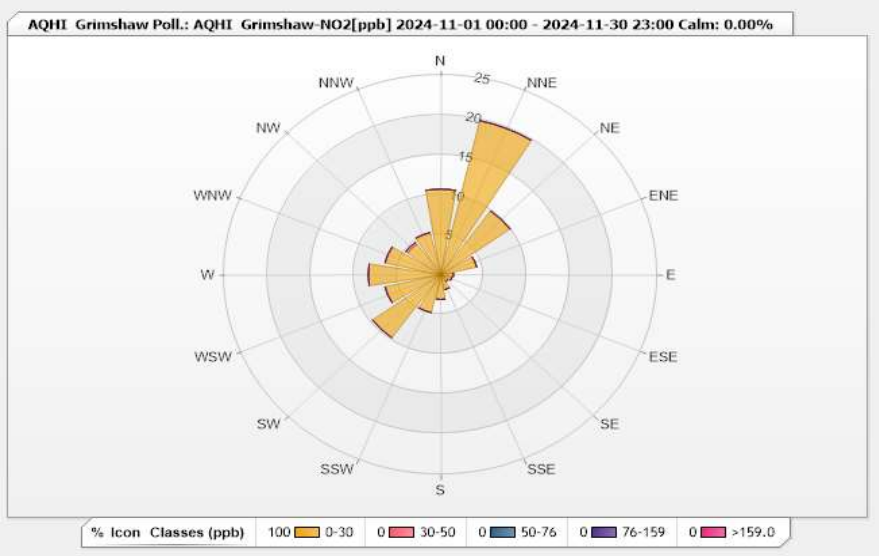


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.58% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	10.72	0	0	0	0	10.72
NNE	19.82	0	0	0	0	19.82
NE	9.84	0	0	0	0	9.84
ENE	4.26	0	0	0	0	4.26
E	1.47	0	0	0	0	1.47
ESE	1.32	0	0	0	0	1.32
SE	1.03	0	0	0	0	1.03
SSE	1.91	0	0	0	0	1.91
S	3.08	0	0	0	0	3.08
SSW	4.85	0	0	0	0	4.85
SW	9.69	0	0	0	0	9.69
WSW	6.61	0	0	0	0	6.61
W	8.37	0	0	0	0	8.37
WNW	6.61	0	0	0	0	6.61
NW	4.7	0.29	0	0	0	4.99
NNW	5.43	0	0	0	0	5.43
Summary	100	0.29	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 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

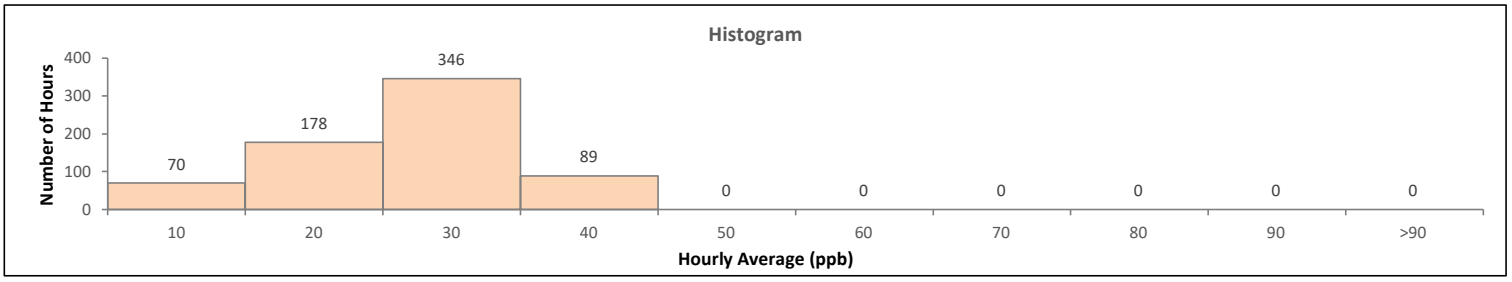
Maximum Hourly Value:	39.0	ppb	on Nov 16 at hr 19	Hours in Service:	720
Maximum Daily Value:	31.8	ppb	on Nov 16	Hours of Data:	683
Minimum Hourly Value:	1.5	ppb	on Nov 15 at hr 5	Hours of Missing Data:	0
Minimum Daily Value:	10.9	ppb	on Nov 15	Hours of Calibration:	37
Monthly Average:	21.8	ppb		Operational 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			
Nov 1	9.3	8.7	9	8.4	7.8	S	7.7	8.1	10.5	14.2	15.4	15.4	16.9	15	13.6	13.8	14.4	15	14.6	15.1	15.4	14.3	14.4	14	7.7	16.9	12.7
Nov 2	12.9	12.6	12	12.5	S	11.3	11.5	13.3	13	15.2	19.5	19.3	20	20.2	19.3	17.8	16.2	14.1	12.6	11.5	11.3	11.6	14.4	14.7	11.3	20.2	14.6
Nov 3	13.8	11.8	7.1	S	3.1	4.4	5.3	4.6	2.9	6.3	14.1	16.3	19.5	23.8	24	22	18.1	16.6	17.5	17.8	19.1	19.9	21	22.2	2.9	24.0	14.4
Nov 4	23.1	24	S	23.8	25.3	24.1	7.4	9.5	10.5	6.8	18.4	23.6	23.8	25.3	20.8	16.5	14.9	6.3	16.1	18	17.9	18.6	19.6	19.4	6.3	25.3	18.0
Nov 5	20.3	S	27.1	28.7	27	26	23.3	23.3	24.7	25.8	28.9	25.8	27.7	28.7	31.1	30.2	24.7	24.2	27.8	24.9	21.7	18.8	20.4	19.5	18.8	31.1	25.2
Nov 6	S	24.3	24.4	27.4	26.9	27.7	29	27.9	27.1	30.3	31.3	32.3	31.9	31.6	32	C	C	C	C	C	30.8	29.1	28.1	S	24.3	32.3	NA
Nov 7	27.9	26.1	27	26.9	28.8	28.1	31.4	25.1	12.7	10.5	21.1	38.4	35.8	35.4	33.6	30.8	27.3	21.8	19	15.6	15.7	14.9	S	8.9	8.9	38.4	24.5
Nov 8	4.6	2.3	2.2	3.4	2	2.8	2.3	6.4	8.2	11.5	15.7	26.3	28.3	26.7	25.7	24.4	27.6	30.7	33.9	34.7	33.4	S	30.2	29	2.0	34.7	17.9
Nov 9	28	28.2	28	27.9	27.7	26.9	25.9	26.3	24.1	25.8	28	29.2	30.4	30.9	28.8	28.3	25.5	22.3	20.1	19.8	S	20.3	15.5	10.3	10.3	30.9	25.1
Nov 10	17.2	18.6	19.7	19.6	19.6	23.7	20.3	15.6	16.5	14.1	20.6	22.4	24.6	26.8	21	21.2	17	10.6	15.5	S	17.5	16.9	12.8	18.9	10.6	26.8	18.7
Nov 11	21.6	18.9	12.4	11.6	13.2	13.8	14.8	7.7	6.9	10.4	13.7	16.4	15.7	16.5	14.7	14.2	14.1	15.1	S	12.8	11.3	9.5	11.1	10.9	6.9	21.6	13.4
Nov 12	11.9	10	10.5	16.7	18.7	16.1	14.4	13.4	14.4	14.2	15.5	16	17.7	19.1	17.6	13.8	14.5	S	16.6	19.4	19.8	20.1	19.2	15.1	10.0	20.1	15.9
Nov 13	19.3	23.3	20.6	21.7	20.4	19	18.8	21.5	21.1	23.7	24.6	25	26.3	27	25.6	26.1	S	25.6	25.5	25.2	24.7	24.3	24.3	23.6	18.8	27.0	23.4
Nov 14	22.9	23.3	23	22.3	21.4	20.7	18.9	18.1	17.6	16.7	15.9	16.5	15.3	15.6	15.3	S	15	13.5	13.5	11.9	11.3	7.3	4	3	3.0	23.3	15.8
Nov 15	2.3	3.8	8.8	5.3	2.4	1.5	1.5	1.5	2.1	16.6	17.7	16.9	15.7	15.6	S	14.8	15.9	9.5	7.7	7.2	14.8	16.7	24.6	26.9	1.5	26.9	10.9
Nov 16	28.6	28.3	27.7	25.4	25.8	27.8	27.4	30.8	31.9	32.9	34.7	35	34.5	S	34.1	34.9	33.2	31.2	35	39	36.4	34.6	31.6	30.1	25.4	39.0	31.8
Nov 17	28.4	25.7	25.8	27.2	26.5	24.9	23.2	22.7	24.5	24.3	26.4	24	S	28.4	27.7	30.3	30.5	28.5	26.5	28.3	27.8	27.9	29	28.7	22.7	30.5	26.8
Nov 18	29.7	31.5	30.6	30	26.4	22.5	21.4	20.6	20.3	21.7	21.6	S	22.6	22	21.5	20.6	21.7	22.6	21.4	22.2	24.2	25.3	25.3	25.2	20.3	31.5	24.0
Nov 19	24.2	24.7	25.6	25.4	25.4	26.6	28.1	27.9	29.7	30.7	S	30.4	30.7	30.8	30.2	31.5	32.2	32.1	31.4	30.8	30.4	30.3	30.2	29.7	24.2	32.2	29.1
Nov 20	29.4	30	29.8	29.3	28.2	27.1	26.2	29.1	29.9	S	29.7	29.2	29.7	29.8	28.2	29.1	30	30.3	30.2	30.2	30.3	30.6	30.6	30.2	26.2	30.6	29.4
Nov 21	30.2	30.4	30.7	30.6	30.6	29.9	26	27.8	S	28.8	29.3	28.8	29	29.8	27.1	28.3	26.5	27.8	27.1	27	26.8	27.4	28.7	26.4	26.0	30.7	28.5
Nov 22	25.7	23.9	19.2	21.1	20.2	20.3	17	S	15.9	20.7	21.6	23.2	25.6	27	26.8	23.9	21.3	26.1	31.8	29.9	28.3	27.6	29.3	29.4	15.9	31.8	24.2
Nov 23	30.4	29.3	28.7	27.8	26.8	26.8	S	24.3	24.6	24.2	24.3	24.4	24.6	25.4	25.8	26	26.1	25.3	24.7	25	25.7	26.4	27.4	27.7	24.2	30.4	26.2
Nov 24	28.6	29.6	28.4	28.2	28.2	S	25.5	21.2	16.9	16.2	20	27.8	28.8	28.2	27.3	27.1	24.8	13.1	3.3	4.3	12.7	21.4	15.5	12.7	3.3	29.6	21.3
Nov 25	16.1	13.4	10.8	8.2	S	3.2	3.3	3.6	3.4	6.6	17.5	23	23.4	22.5	22.1	19.1	19	13.5	10.3	11.6	12.8	15.4	15.2	9.2	3.2	23.4	13.2
Nov 26	8.6	7.5	4.4	S	2.9	3.4	3.7	3.9	7.5	19.5	20.2	23.1	30	34.9	34.9	32.3	33.3	34.2	33.2	32.6	31.5	29.3	29.2	32	2.9	34.9	21.4
Nov 27	30.9	30.2	S	31.4	28.2	29	25.1	24.2	27.3	28.5	28.7	30.2	31.8	31.9	29.8	30.2	26.5	27.1	30.6	31.1	30.8	30.6	29.6	28.9	24.2	31.9	29.2
Nov 28	28.5	S	28.8	27.2	27.5	26.8	24	25.2	25.7	25.2	24.7	25.8	27.1	26.6	26.4	27.8	28.1	23.9	27.7	27.6	26.9	27.2	27.5	27.8	23.9	28.8	26.7
Nov 29	S	27.4	26.9	26.7	26	25.8	24.4	25.2	25.7	27.7	28.3	28.3	28.7	28.6	28.1	28.7	28.9	29	27.7	25.8	25.2	21.9	22.3	S	21.9	29.0	26.7
Nov 30	23.5	23.5	24.4	24.8	24.7	24	24.1	23.9	21.6	19.2	23.6	26.4	27.4	29	28	25.4	14.1	4.3	4.4	6.1	4.7	5.2	S	7.2	4.3	29.0	19.1
Diurnal Maximum	30.9	31.5	30.7	31.4	30.6	29.9	31.4	30.8	31.9	32.9	34.7	38.4	35.8	35.4	34.9	34.9	33.3	34.2	35.0	39.0	36.4	34.6	31.6	32.0			
Diurnal Average	21.4	21.1	20.5	22.1	21.1	20.2	18.3	18.4	17.8	19.6	22.4	24.8	25.6	26.0	25.6	24.6	22.9	21.2	21.6	21.6	22.0	21.5	22.5	20.8			

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.

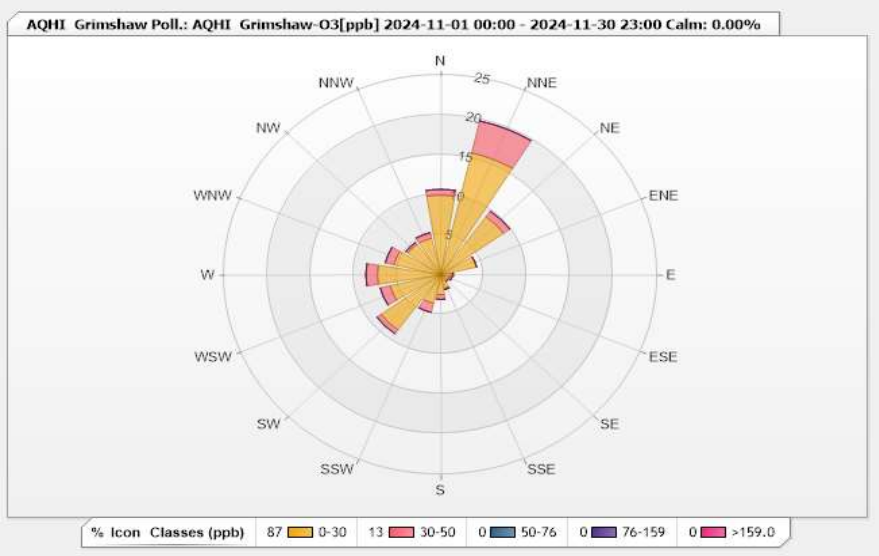


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	9.96	0.73	0	0	0	10.69
NNE	15.67	4.1	0	0	0	19.77
NE	8.93	0.88	0	0	0	9.81
ENE	4.25	0	0	0	0	4.25
E	1.17	0.29	0	0	0	1.46
ESE	1.02	0.29	0	0	0	1.31
SE	1.02	0	0	0	0	1.02
SSE	1.76	0.15	0	0	0	1.91
S	2.49	0.59	0	0	0	3.08
SSW	3.66	1.17	0	0	0	4.83
SW	8.49	0.59	0	0	0	9.08
WSW	6	1.17	0	0	0	7.17
W	7.32	1.32	0	0	0	8.64
WNW	5.56	1.02	0	0	0	6.58
NW	4.69	0.29	0	0	0	4.98
NNW	4.69	0.73	0	0	0	5.42
Summary	86.68	13.32	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

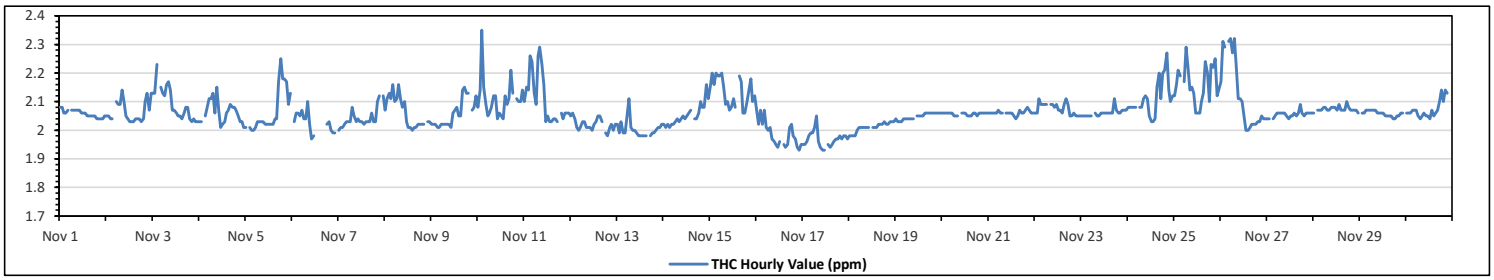
TOTAL HYDROCARBONS (THC) in ppm

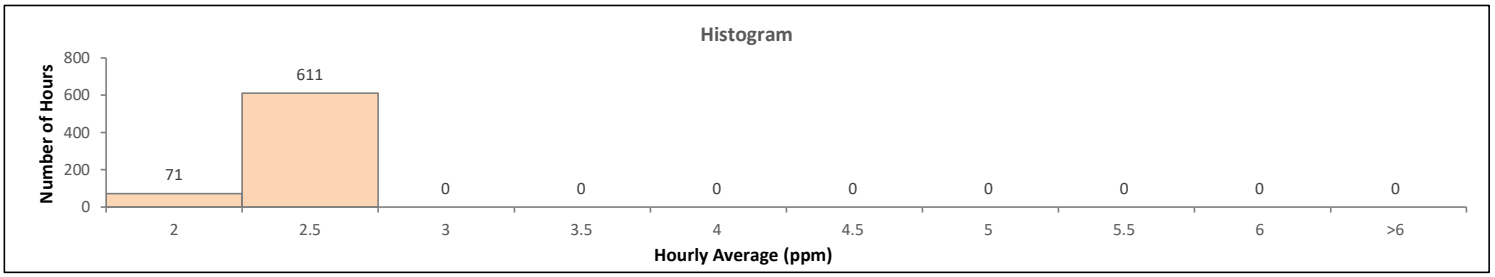
Maximum Hourly Value:	2.35	ppm	on Nov 10 at hr 2	Hours in Service:	720
Maximum Daily Value:	2.16	ppm	on Nov 25	Hours of Data:	682
Minimum Hourly Value:	1.93	ppm	on Nov 16 at hr 22	Hours of Missing Data:	0
Minimum Daily Value:	1.97	ppm	on Nov 17	Hours of Calibration:	38
Monthly Average:	2.06	ppm		Operational 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			
Nov 1	2.08	2.08	2.06	2.06	2.07	S	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.05	2.04	2.08	2.06
Nov 2	2.05	2.05	2.04	2.04	S	2.10	2.09	2.09	2.14	2.10	2.05	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.03	2.04	2.10	2.13	2.07	2.13	2.03	2.14	2.07
Nov 3	2.13	2.13	2.23	S	2.15	2.13	2.12	2.16	2.17	2.14	2.07	2.07	2.06	2.05	2.05	2.04	2.06	2.08	2.08	2.04	2.03	2.04	2.03	2.03	2.03	2.23	2.09
Nov 4	2.03	2.03	S	2.05	2.08	2.11	2.11	2.13	2.06	2.15	2.07	2.01	2.02	2.03	2.06	2.07	2.09	2.08	2.08	2.07	2.05	2.03	2.03	2.01	2.01	2.15	2.06
Nov 5	2.01	S	2.01	2.00	2.00	2.01	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.04	2.04	2.17	2.25	2.18	2.18	2.17	2.09	2.13	2.00	2.25	2.07
Nov 6	S	2.03	2.06	2.06	2.05	2.07	2.04	2.04	2.10	2.02	1.97	1.98	C	C	C	C	C	C	2.02	2.03	2.00	1.99	1.99	S	1.97	2.10	NA
Nov 7	2.00	2.01	2.01	2.02	2.03	2.03	2.03	2.08	2.05	2.03	2.04	2.03	2.03	2.02	2.03	2.03	2.03	2.06	2.03	2.03	2.10	2.12	S	2.12	2.00	2.12	2.04
Nov 8	2.07	2.11	2.13	2.11	2.16	2.10	2.11	2.16	2.11	2.08	2.10	2.03	2.01	2.01	2.00	2.01	2.01	2.02	2.02	2.02	2.02	S	2.03	2.03	2.00	2.16	2.06
Nov 9	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.01	2.06	2.07	2.08	2.05	2.05	2.14	2.15	2.13	2.13	S	2.07	2.08	2.12	2.01	2.15	2.06
Nov 10	2.08	2.14	**2.35**	2.15	2.09	2.05	2.06	2.08	2.12	2.12	2.04	2.06	2.05	2.04	2.12	2.09	2.11	2.21	2.13	S	2.11	2.10	2.10	2.14	2.04	**2.35**	2.11
Nov 11	2.10	2.15	2.14	2.26	2.24	2.13	2.09	2.26	2.29	2.23	2.16	2.03	2.05	2.03	2.03	2.04	2.04	2.03	S	2.06	2.04	2.06	2.06	2.06	2.03	2.29	2.11
Nov 12	2.05	2.06	2.04	2.01	2.00	2.01	2.03	2.03	2.01	2.01	2.01	2.00	2.02	2.03	2.05	2.05	2.03	S	1.99	1.98	2.01	2.02	2.00	2.02	1.98	2.06	2.02
Nov 13	2.02	1.99	2.03	1.99	1.99	2.05	2.11	2.01	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	S	1.98	1.99	1.99	2.00	2.01	2.01	2.02	1.98	2.11	2.00
Nov 14	2.02	2.01	2.02	2.01	2.02	2.02	2.03	2.04	2.03	2.04	2.05	2.04	2.05	2.06	2.07	S	2.04	2.04	2.06	2.10	2.08	2.08	2.16	2.11	2.01	2.16	2.05
Nov 15	2.15	2.20	2.16	2.20	2.19	2.19	2.20	2.15	2.09	2.10	2.07	2.08	2.11	2.08	S	2.19	2.17	2.06	2.06	2.10	2.14	2.18	2.10	2.12	2.06	2.20	2.13
Nov 16	2.07	2.02	2.07	2.02	2.07	2.01	2.00	2.01	1.97	1.96	1.95	1.94	1.96	S	1.95	1.94	1.95	2.01	2.02	1.98	1.97	1.94	1.93	1.95	1.93	2.07	1.99
Nov 17	1.95	1.95	1.96	1.98	1.99	1.99	2.01	2.05	1.96	1.94	1.93	1.93	S	1.95	1.94	1.95	1.96	1.97	1.97	1.98	1.97	1.98	1.98	1.97	1.93	2.05	1.97
Nov 18	1.98	1.98	1.98	1.98	2.00	2.01	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.02	2.02	2.02	2.03	2.02	2.02	2.03	2.03	2.03	1.98	2.03	2.01
Nov 19	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	S	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.03	2.06	2.05
Nov 20	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.05	2.05	S	2.06	2.06	2.06	2.05	2.05	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.06	2.06	2.05	2.06	2.06
Nov 21	2.06	2.06	2.06	2.06	2.06	2.07	2.06	2.06	S	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.07	2.06	2.06	2.07	2.08	2.07	2.06	2.06	2.04	2.08	2.06
Nov 22	2.06	2.06	2.11	2.09	2.09	2.09	2.09	S	2.09	2.09	2.08	2.09	2.07	2.07	2.06	2.09	2.11	2.09	2.05	2.05	2.06	2.05	2.05	2.05	2.05	2.11	2.08
Nov 23	2.05	2.05	2.05	2.05	2.05	2.05	S	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.11	2.07	2.06	2.06	2.07	2.07	2.07	2.05	2.11	2.06
Nov 24	2.08	2.08	2.08	2.08	2.08	S	2.08	2.08	2.11	2.12	2.11	2.05	2.03	2.03	2.04	2.15	2.20	2.11	2.20	2.21	2.27	2.14	2.10	2.12	2.03	2.27	2.11
Nov 25	2.12	2.16	2.21	2.19	S	2.17	2.29	2.22	2.14	2.15	2.13	2.06	2.06	2.06	2.10	2.13	2.24	2.20	2.10	2.23	2.22	2.25	2.12	2.14	2.06	2.29	**2.16**
Nov 26	2.17	2.31	2.29	S	2.31	2.32	2.27	2.32	2.22	2.11	2.11	2.10	2.05	2.00	2.00	2.01	2.02	2.02	2.02	2.03	2.03	2.05	2.04	2.04	2.00	2.32	2.12
Nov 27	2.04	2.04	S	2.04	2.05	2.06	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.05	2.06	2.05	2.06	2.09	2.06	2.05	2.06	2.06	2.06	2.06	2.04	2.09	2.06
Nov 28	2.06	S	2.07	2.07	2.07	2.08	2.08	2.07	2.07	2.08	2.08	2.08	2.07	2.09	2.07	2.07	2.07	2.10	2.08	2.07	2.07	2.07	2.07	2.06	2.06	2.10	2.07
Nov 29	S	2.06	2.06	2.07	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.06	2.06	S	2.04	2.07	2.06
Nov 30	2.06	2.06	2.06	2.07	2.07	2.07	2.05	2.04	2.05	2.06	2.05	2.05	2.04	2.07	2.05	2.06	2.07	2.10	2.14	2.10	2.14	2.13	S	2.14	2.04	2.14	2.08
Diurnal Maximum	2.17	2.31	2.35	2.26	2.31	2.32	2.29	2.32	2.29	2.23	2.16	2.10	2.11	2.09	2.12	2.19	2.24	2.21	2.25	2.23	2.27	2.25	2.16	2.14			
Diurnal Average	2.06	2.07	2.09	2.06	2.07	2.08	2.08	2.09	2.08	2.07	2.05	2.04	2.04	2.04	2.04	2.05	2.07	2.07	2.06	2.06	2.07	2.07	2.05	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.



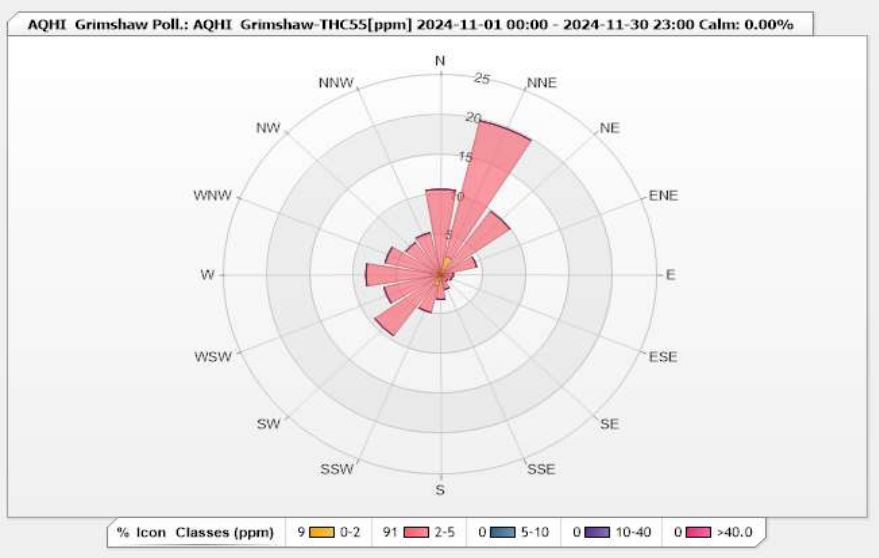


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.59	10.12	0	0	0	10.71
NNE	2.35	17.45	0	0	0	19.8
NE	0.73	9.09	0	0	0	9.82
ENE	0.15	4.11	0	0	0	4.26
E	0	1.47	0	0	0	1.47
ESE	0	1.32	0	0	0	1.32
SE	0	1.03	0	0	0	1.03
SSE	0.29	1.61	0	0	0	1.9
S	0.73	2.35	0	0	0	3.08
SSW	1.47	3.37	0	0	0	4.84
SW	0.29	9.09	0	0	0	9.38
WSW	0.29	6.45	0	0	0	6.74
W	1.03	7.62	0	0	0	8.65
WNW	0.44	6.16	0	0	0	6.6
NW	0.29	4.69	0	0	0	4.98
NNW	0.29	5.13	0	0	0	5.42
Summary	8.94	91.06	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

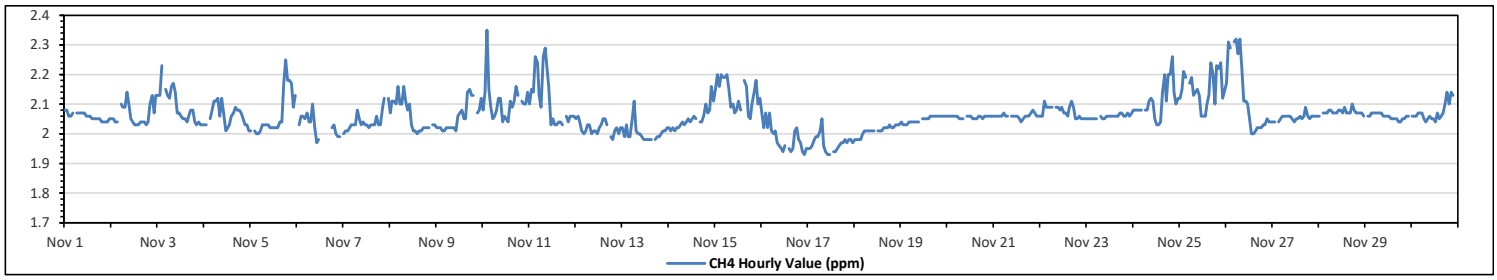
METHANE (CH4) in ppm

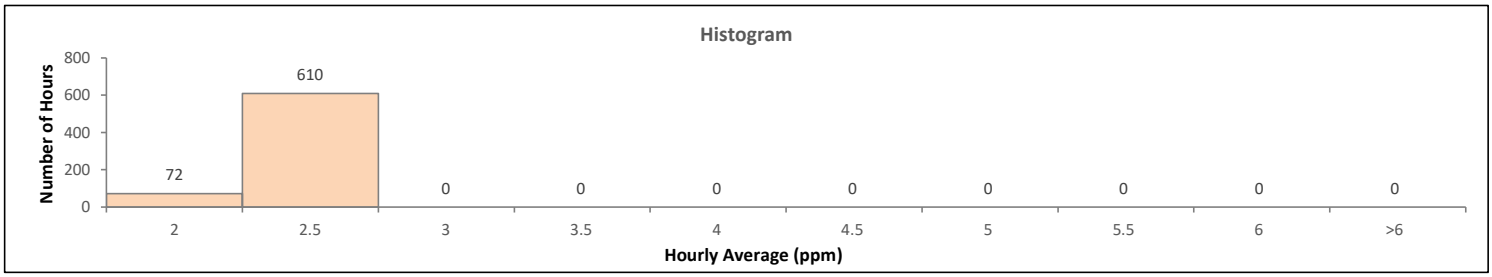
Maximum Hourly Value:	2.35	ppm	on Nov 10 at hr 2	Hours in Service:	720
Maximum Daily Value:	2.15	ppm	on Nov 25	Hours of Data:	682
Minimum Hourly Value:	1.93	ppm	on Nov 16 at hr 22	Hours of Missing Data:	0
Minimum Daily Value:	1.97	ppm	on Nov 17	Hours of Calibration:	38
Monthly Average:	2.06	ppm		Operational 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			
Nov 1	2.08	2.08	2.06	2.06	2.07	S	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.05	2.04	2.08	2.06
Nov 2	2.05	2.05	2.04	2.04	S	2.10	2.09	2.09	2.14	2.10	2.05	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.03	2.04	2.10	2.13	2.07	2.13	2.03	2.14	2.07
Nov 3	2.13	2.13	2.23	S	2.15	2.13	2.12	2.16	2.17	2.14	2.07	2.07	2.06	2.05	2.05	2.04	2.06	2.08	2.08	2.04	2.03	2.04	2.03	2.03	2.03	2.23	2.09
Nov 4	2.03	2.03	S	2.05	2.08	2.11	2.11	2.12	2.06	2.12	2.07	2.01	2.02	2.03	2.06	2.07	2.09	2.08	2.08	2.07	2.05	2.03	2.03	2.01	2.01	2.12	2.06
Nov 5	2.01	S	2.01	2.00	2.00	2.01	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.04	2.04	2.17	2.25	2.18	2.18	2.17	2.09	2.13	2.00	2.25	2.07
Nov 6	S	2.03	2.06	2.06	2.05	2.07	2.04	2.04	2.10	2.02	1.97	1.98	C	C	C	C	C	C	2.02	2.03	2.00	1.99	1.99	S	1.97	2.10	NA
Nov 7	2.00	2.01	2.01	2.02	2.03	2.03	2.03	2.08	2.05	2.03	2.04	2.03	2.03	2.02	2.03	2.03	2.03	2.06	2.03	2.03	2.09	2.12	S	2.12	2.00	2.12	2.04
Nov 8	2.07	2.11	2.11	2.10	2.16	2.10	2.10	2.16	2.11	2.08	2.10	2.03	2.01	2.01	2.00	2.01	2.01	2.02	2.02	2.02	2.02	S	2.03	2.03	2.00	2.16	2.06
Nov 9	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.01	2.06	2.07	2.08	2.05	2.05	2.14	2.15	2.13	2.13	S	2.07	2.08	2.12	2.01	2.15	2.06
Nov 10	2.08	2.14	**2.35**	2.15	2.09	2.05	2.06	2.08	2.12	2.12	2.04	2.06	2.05	2.04	2.11	2.09	2.11	2.16	2.13	S	2.11	2.10	2.10	2.14	2.04	**2.35**	2.11
Nov 11	2.10	2.15	2.14	2.26	2.24	2.13	2.09	2.26	2.29	2.23	2.16	2.03	2.05	2.03	2.03	2.04	2.04	2.03	S	2.06	2.04	2.06	2.06	2.06	2.03	2.29	2.11
Nov 12	2.05	2.06	2.04	2.01	2.00	2.01	2.03	2.03	2.00	2.01	2.01	2.00	2.02	2.03	2.05	2.05	2.03	S	1.99	1.98	2.01	2.02	2.00	2.02	1.98	2.06	2.02
Nov 13	2.02	1.99	2.03	1.99	1.99	2.05	2.11	2.01	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	S	1.98	1.99	1.99	2.00	2.01	2.01	2.02	1.98	2.11	2.00
Nov 14	2.02	2.01	2.02	2.01	2.02	2.02	2.03	2.04	2.03	2.04	2.05	2.04	2.05	2.06	2.05	S	2.04	2.04	2.06	2.10	2.07	2.08	2.16	2.11	2.01	2.16	2.05
Nov 15	2.15	2.20	2.16	2.20	2.19	2.19	2.20	2.15	2.09	2.10	2.07	2.08	2.11	2.08	S	2.18	2.16	2.06	2.05	2.10	2.14	2.18	2.10	2.12	2.05	2.20	2.13
Nov 16	2.07	2.02	2.07	2.02	2.07	2.01	2.00	2.01	1.97	1.96	1.95	1.94	1.96	S	1.95	1.94	1.95	2.01	2.02	1.98	1.97	1.94	1.93	1.95	1.93	2.07	1.99
Nov 17	1.95	1.95	1.96	1.98	1.99	1.99	2.01	2.05	1.96	1.94	1.93	1.93	S	1.94	1.94	1.95	1.96	1.97	1.97	1.98	1.97	1.98	1.98	1.97	1.93	2.05	1.97
Nov 18	1.98	1.98	1.98	1.98	2.00	2.01	2.01	2.01	2.01	2.01	2.01	S	2.01	2.01	2.01	2.02	2.02	2.02	2.03	2.02	2.02	2.03	2.03	2.03	1.98	2.03	2.01
Nov 19	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	S	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.03	2.06	2.05
Nov 20	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.05	2.05	S	2.06	2.06	2.06	2.05	2.05	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.06	2.06	2.05	2.06	2.06
Nov 21	2.06	2.06	2.06	2.06	2.06	2.07	2.06	2.06	S	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.06	2.06	2.06	2.07	2.08	2.07	2.06	2.06	2.04	2.08	2.06
Nov 22	2.06	2.06	2.11	2.09	2.09	2.09	2.09	S	2.09	2.09	2.08	2.09	2.07	2.07	2.06	2.09	2.11	2.09	2.05	2.05	2.06	2.05	2.05	2.05	2.05	2.11	2.08
Nov 23	2.05	2.05	2.05	2.05	2.05	2.05	S	2.06	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.06	2.06	2.07	2.06	2.07	2.05	2.07	2.06
Nov 24	2.08	2.08	2.08	2.08	2.08	S	2.08	2.08	2.11	2.12	2.11	2.05	2.03	2.03	2.04	2.14	2.20	2.11	2.20	2.20	2.26	2.14	2.10	2.12	2.03	2.26	2.11
Nov 25	2.12	2.15	2.21	2.19	S	2.17	2.19	2.13	2.14	2.15	2.13	2.06	2.06	2.06	2.10	2.13	2.24	2.20	2.10	2.23	2.22	2.24	2.12	2.14	2.06	2.24	**2.15**
Nov 26	2.17	2.31	2.29	S	2.31	2.32	2.27	2.32	2.22	2.11	2.11	2.10	2.05	2.00	2.00	2.01	2.02	2.02	2.02	2.03	2.03	2.05	2.04	2.04	2.00	2.32	2.12
Nov 27	2.04	2.04	S	2.04	2.05	2.06	2.06	2.06	2.06	2.06	2.05	2.04	2.05	2.05	2.06	2.05	2.06	2.09	2.06	2.05	2.06	2.06	2.06	2.06	2.04	2.09	2.06
Nov 28	2.06	S	2.07	2.07	2.07	2.08	2.08	2.07	2.07	2.07	2.08	2.08	2.07	2.09	2.07	2.07	2.07	2.10	2.08	2.07	2.07	2.07	2.07	2.06	2.06	2.10	2.07
Nov 29	S	2.06	2.06	2.07	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.04	2.04	2.05	2.05	2.06	2.06	S	2.04	2.07	2.06
Nov 30	2.06	2.06	2.06	2.07	2.07	2.07	2.05	2.04	2.05	2.06	2.05	2.05	2.04	2.07	2.05	2.06	2.07	2.10	2.14	2.10	2.14	2.13	S	2.14	2.04	2.14	2.08
Diurnal Maximum	2.17	2.31	2.35	2.26	2.31	2.32	2.27	2.32	2.29	2.23	2.16	2.10	2.11	2.09	2.11	2.18	2.24	2.20	2.25	2.23	2.26	2.24	2.16	2.14			
Diurnal Average	2.06	2.07	2.08	2.06	2.07	2.08	2.08	2.08	2.07	2.07	2.05	2.04	2.04	2.04	2.04	2.05	2.07	2.07	2.06	2.06	2.07	2.07	2.05	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.



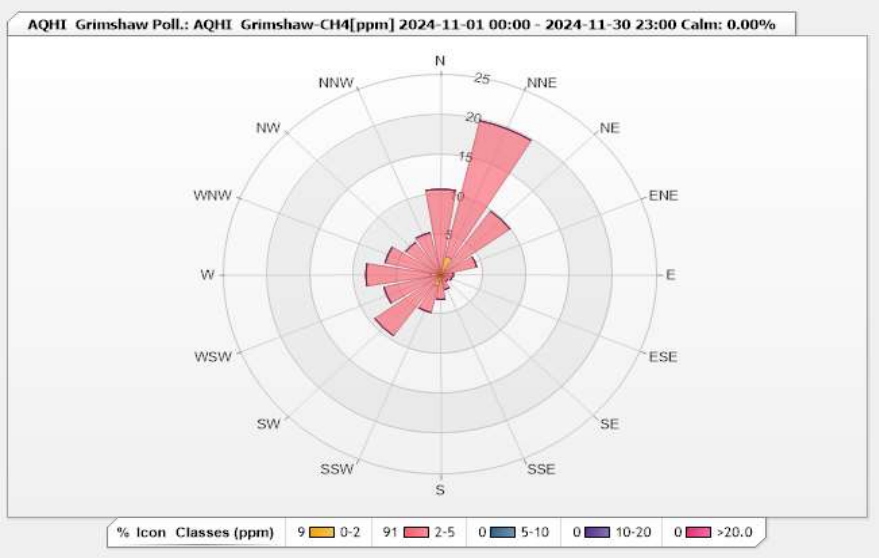


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.59	10.12	0	0	0	10.71
NNE	2.35	17.45	0	0	0	19.8
NE	0.73	9.09	0	0	0	9.82
ENE	0.15	4.11	0	0	0	4.26
E	0	1.47	0	0	0	1.47
ESE	0	1.32	0	0	0	1.32
SE	0	1.03	0	0	0	1.03
SSE	0.29	1.61	0	0	0	1.9
S	0.73	2.35	0	0	0	3.08
SSW	1.47	3.37	0	0	0	4.84
SW	0.29	9.09	0	0	0	9.38
WSW	0.29	6.45	0	0	0	6.74
W	1.17	7.48	0	0	0	8.65
WNW	0.44	6.16	0	0	0	6.6
NW	0.29	4.69	0	0	0	4.98
NNW	0.29	5.13	0	0	0	5.42
Summary	9.08	90.92	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

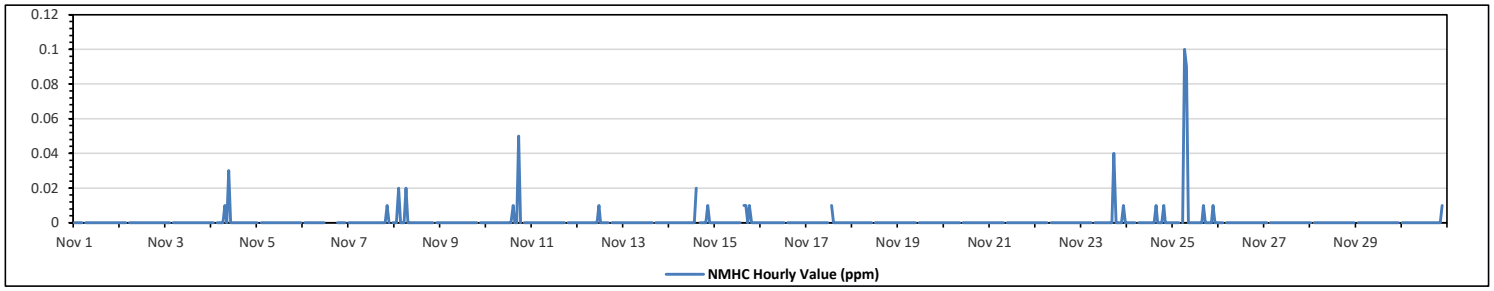
NON-METHANE HYDROCARBONS (NMHC) in ppm

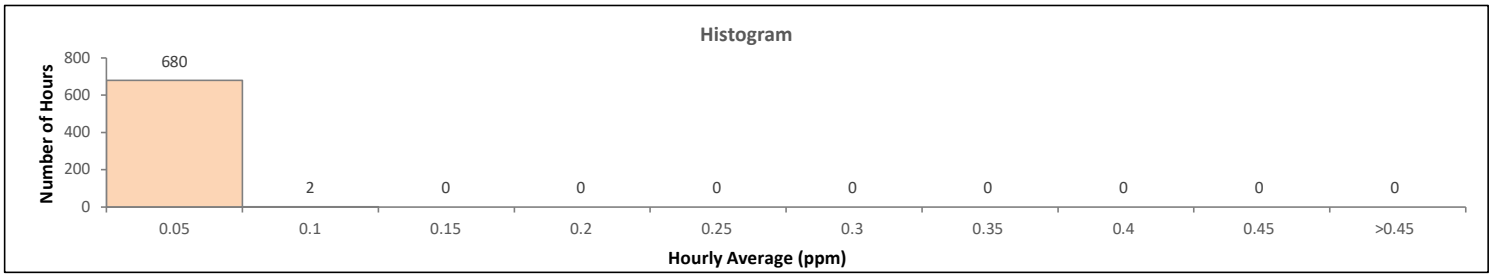
Maximum Hourly Value:	0.10	ppm	on Nov 25 at hr 6	Hours in Service:	720	
Maximum Daily Value:	0.01	ppm	on Nov 25	Hours of Data:	682	
Minimum Hourly Value:	0.00	ppm	on Nov 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.00	ppm	on Nov 1	Hours of Calibration:	38	
Monthly Average:	0.00	ppm		Operational 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			
Nov 1	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
Nov 2	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
Nov 3	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
Nov 4	0.00	0.00	S	0.00	0.00	0.00	0.00	0.01	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	0.00	0.00	0.00	0.00	0.03	0.00
Nov 5	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
Nov 6	S	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	C	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	NA
Nov 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	S	0.00	0.00	0.01	0.00
Nov 8	0.00	0.00	0.02	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	0.00	0.02	0.00
Nov 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Nov 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.00	S	0.00	0.00	0.00	0.00	0.00	0.05	0.00
Nov 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 12	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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Nov 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	S	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00
Nov 15	0.00	0.00	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	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Nov 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Nov 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Nov 18	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
Nov 19	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
Nov 20	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
Nov 21	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
Nov 22	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
Nov 23	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	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00
Nov 24	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Nov 25	0.00	0.00	0.00	0.00	S	0.00	**0.10**	0.09	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	**0.10**	**0.01**
Nov 26	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
Nov 27	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
Nov 28	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
Nov 29	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
Nov 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.00	0.00	0.01	0.00
Diurnal Maximum	0.00	0.00	0.02	0.00	0.00	0.00	0.10	0.09	0.00	0.03	0.00	0.01	0.00	0.01	0.02	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	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.



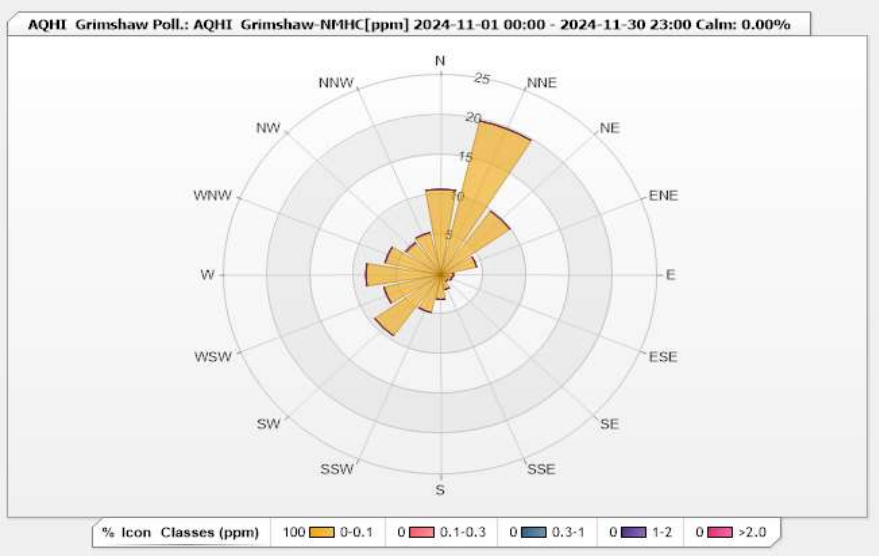


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 11-2024

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

Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	10.7	0	0	0	0	10.7
NNE	19.79	0	0	0	0	19.79
NE	9.82	0	0	0	0	9.82
ENE	4.25	0	0	0	0	4.25
E	1.47	0	0	0	0	1.47
ESE	1.32	0	0	0	0	1.32
SE	1.03	0	0	0	0	1.03
SSE	1.91	0	0	0	0	1.91
S	3.08	0	0	0	0	3.08
SSW	4.84	0	0	0	0	4.84
SW	9.38	0	0	0	0	9.38
WSW	6.74	0	0	0	0	6.74
W	8.65	0	0	0	0	8.65
WNW	6.6	0	0	0	0	6.6
NW	4.84	0.15	0	0	0	4.99
NNW	5.43	0	0	0	0	5.43
Summary	100	0.15	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

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

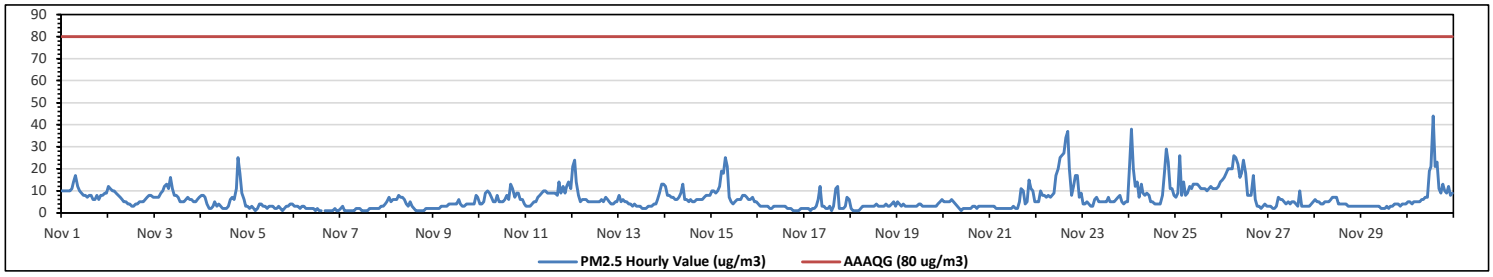
Alberta Ambient Air Quality Guideline (AAAQG): 1-Hour 80 µg/m3, Alberta Ambient Air Quality Objective (AAAQO): 24-Hour 29 µg/m3

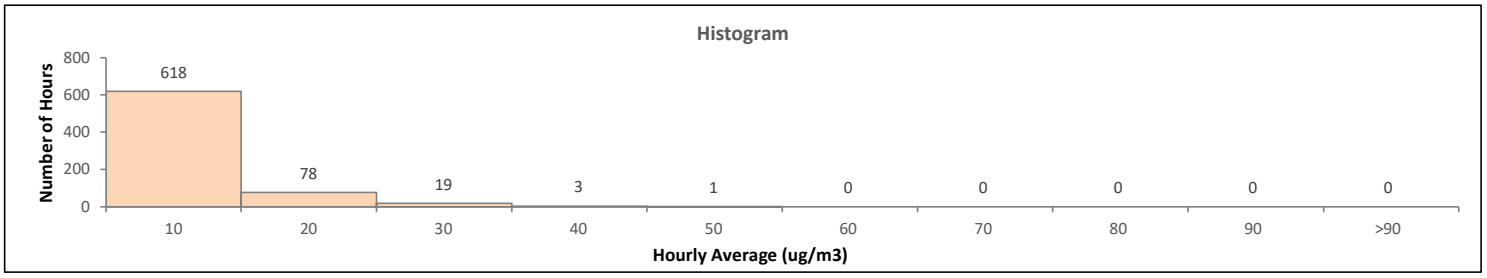
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0
Maximum Hourly Value:	44 µg/m^3 on Nov 30 at hr 13	Hours in Service:	720
Maximum Daily Value:	14.6 µg/m^3 on Nov 22	Hours of Data:	719
Minimum Hourly Value:	1 µg/m^3 on Nov 5 at hr 4	Hours of Missing Data:	0
Minimum Daily Value:	2 µg/m^3 on Nov 6	Hours of Calibration:	1
Monthly Average:	6.3 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			
Nov 1	10	10	10	10	10	11	14	17	12	10	9	8	8	7	8	8	6	6	8	6	8	8	9	9	6	17	9.3
Nov 2	12	11	10	10	9	8	7	6	5	5	4	4	3	3	4	4	5	5	5	6	7	8	8	7	3	12	6.5
Nov 3	7	7	7	9	10	12	13	11	16	11	8	8	7	5	5	5	6	7	6	6	5	5	6	7	5	16	7.9
Nov 4	8	8	7	4	2	2	3	5	3	4	3	2	2	2	3	6	7	6	11	25	18	9	6	3	2	25	6.2
Nov 5	3	2	3	2	1	2	4	4	3	3	2	3	3	3	2	2	3	2	1	2	3	3	4	4	**1**	4	2.7
Nov 6	3	3	3	2	3	3	2	2	2	2	2	1	2	1	1	**C**	1	1	1	1	1	2	1	1	**1**	3	**1.8**
Nov 7	2	3	1	1	1	1	1	1	2	2	2	1	1	1	1	2	2	2	2	2	2	3	3	4	**1**	4	1.8
Nov 8	5	7	5	6	6	6	8	7	7	6	4	3	5	3	2	1	1	1	1	1	2	2	2	2	**1**	8	3.9
Nov 9	2	2	2	2	3	3	3	3	4	4	4	4	4	6	4	3	3	4	4	4	4	4	8	7	2	8	3.8
Nov 10	4	4	5	9	10	9	7	5	5	8	5	5	5	6	8	6	13	11	7	9	9	6	6	4	4	13	6.9
Nov 11	3	3	3	4	5	5	7	8	9	10	10	9	9	9	9	9	8	14	9	12	9	12	14	11	3	14	8.4
Nov 12	21	24	14	8	5	6	6	6	5	5	5	5	5	5	5	6	5	7	6	5	4	4	5	5	4	24	7.2
Nov 13	8	5	6	5	5	4	4	3	4	3	3	3	2	2	2	3	3	3	4	4	6	9	13	13	2	13	4.9
Nov 14	12	8	8	7	7	6	6	7	9	13	6	6	5	6	5	5	6	6	6	6	7	8	8	8	5	13	7.1
Nov 15	10	10	9	10	12	19	18	25	21	7	5	4	5	6	6	6	8	8	7	6	6	7	5	5	4	25	9.4
Nov 16	4	3	3	3	3	3	2	2	3	3	3	3	3	3	3	2	2	2	1	1	1	1	2	2	**1**	4	2.4
Nov 17	2	2	2	1	2	2	3	6	12	3	3	2	2	3	1	3	11	12	2	2	2	3	7	6	**1**	12	3.9
Nov 18	2	1	1	1	1	2	3	3	3	3	3	3	3	4	3	3	3	3	4	3	3	4	5	3	**1**	5	2.8
Nov 19	5	4	3	4	3	3	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	4	5	6	3	6	3.5
Nov 20	5	5	5	5	6	5	4	3	2	1	2	2	2	2	2	3	3	2	3	3	3	3	3	3	**1**	6	3.2
Nov 21	3	3	3	2	2	2	2	2	2	2	2	2	3	2	2	5	11	10	4	5	15	11	10	5	2	15	4.6
Nov 22	5	5	10	8	8	7	8	7	8	9	17	20	25	26	27	34	37	20	8	12	17	17	7	9	5	37	**14.6**
Nov 23	4	4	5	4	3	3	6	7	5	5	5	5	5	7	5	5	5	6	7	8	5	4	5	5	3	8	5.1
Nov 24	21	38	20	12	14	7	13	9	8	9	8	5	5	4	4	4	4	8	18	29	23	11	11	8	4	38	12.2
Nov 25	7	9	26	8	14	8	9	12	11	13	13	13	12	11	11	11	10	11	12	11	11	11	12	14	7	26	11.7
Nov 26	15	16	18	20	20	20	26	25	22	16	18	24	18	8	8	8	17	6	3	3	2	3	4	3	2	26	13.5
Nov 27	3	3	2	2	3	7	6	6	5	4	5	4	5	5	4	3	10	3	3	3	3	3	4	5	2	10	4.2
Nov 28	6	5	5	4	4	5	5	5	6	7	7	7	4	4	4	4	4	3	3	3	3	3	3	3	3	7	4.5
Nov 29	3	3	3	3	3	3	3	3	3	3	2	2	2	3	2	3	3	4	4	4	3	4	4	4	2	4	3.1
Nov 30	5	5	4	5	5	5	5	6	6	7	7	19	21	**44**	21	23	11	9	13	10	9	12	8	9	4	**44**	11.2
Diurnal Maximum	21	38	26	20	20	20	26	25	22	16	18	24	25	44	27	34	37	20	18	29	23	17	14	14			
Diurnal Average	6.7	7.1	6.8	5.7	6.0	6.0	6.7	7.0	6.9	6.0	5.7	6.0	6.0	6.5	5.5	6.2	7.0	6.2	5.5	6.5	6.5	6.1	6.3	5.8			

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.





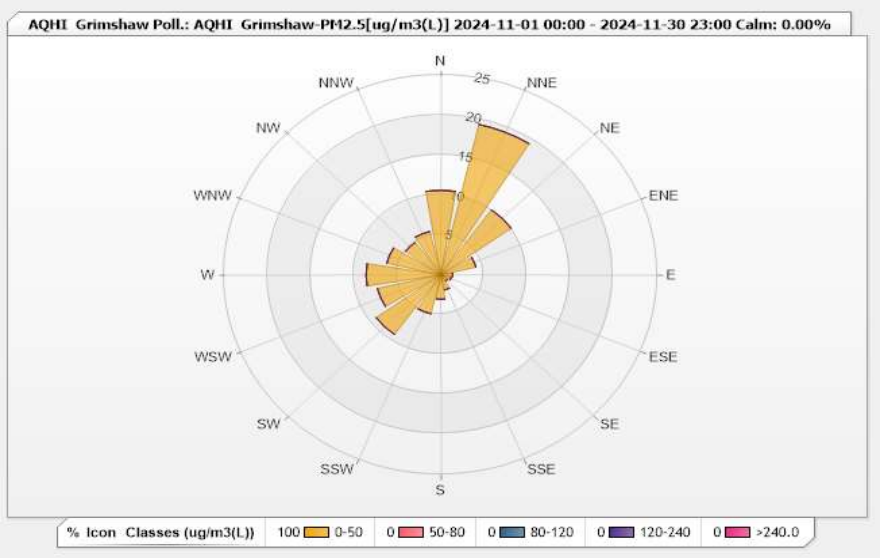
Station: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 11-2024

.)]

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

Calm: 0.00% Valid Data: 99.86% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	10.57	0	0	0	0	10.57
NNE	19.33	0	0	0	0	19.33
NE	10.01	0	0	0	0	10.01
ENE	4.17	0	0	0	0	4.17
E	1.39	0	0	0	0	1.39
ESE	1.25	0	0	0	0	1.25
SE	0.97	0	0	0	0	0.97
SSE	1.95	0	0	0	0	1.95
S	3.06	0	0	0	0	3.06
SSW	5.01	0	0	0	0	5.01
SW	9.18	0	0	0	0	9.18
WSW	7.51	0	0	0	0	7.51
W	8.62	0	0	0	0	8.62
WNW	6.4	0	0	0	0	6.4
NW	5.01	0	0	0	0	5.01
NNW	5.56	0	0	0	0	5.56
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

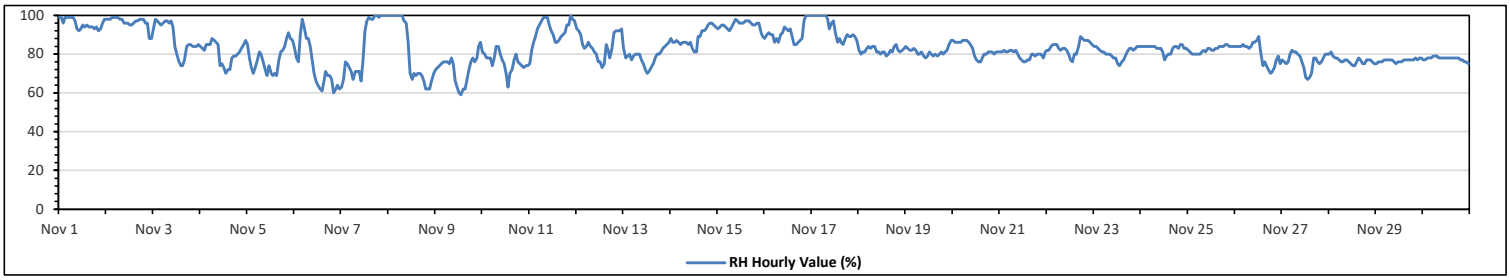
Maximum Hourly Value:	100	%	on Nov 7 at hr 17	Hours in Service:	720	
Maximum Daily Value:	96.5	%	on Nov 2	Hours of Data:	720	
Minimum Hourly Value:	59	%	on Nov 9 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	72.4	%	on Nov 9	Hours of Calibration:	0	
Monthly Average:	83.0	%		Operational Uptime:	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
Nov 1	99	99	96	99	99	99	99	99	97	93	92	93	95	94	95	94	94	94	93	94	92	93	96	98	92	99	95.7
Nov 2	98	98	98	99	99	99	99	98	98	96	96	96	95	95	96	97	97	98	98	98	96	96	88	88	88	99	**96.5**
Nov 3	93	98	97	96	95	96	97	97	96	97	94	84	80	76	74	74	77	84	85	85	84	84	84	85	74	98	88.0
Nov 4	84	83	82	85	85	85	88	87	86	85	74	75	73	70	72	72	78	79	79	80	81	83	85	87	70	88	80.8
Nov 5	85	78	73	70	73	77	81	80	76	72	69	74	70	69	70	69	77	81	82	84	88	91	88	87	69	91	77.7
Nov 6	83	78	76	90	98	94	88	88	84	77	70	66	64	62	61	66	71	69	69	67	60	62	64	62	60	98	73.7
Nov 7	63	67	76	75	73	71	67	71	71	71	66	77	92	97	99	98	98	**100**	**100**	99	**100**	**100**	**100**	**100**	63	**100**	84.6
Nov 8	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	97	96	86	70	67	70	69	70	70	69	66	62	62	62	66	70	62	**100**	81.3
Nov 9	72	73	74	75	76	76	76	75	78	75	66	63	60	**59**	62	62	66	72	76	78	76	78	84	86	**59**	86	**72.4**
Nov 10	81	80	78	78	78	74	78	84	84	80	77	75	70	63	70	72	77	80	76	75	74	73	74	74	63	84	76.0
Nov 11	75	82	86	89	93	95	97	99	99	99	95	92	90	86	86	87	89	90	91	95	95	**100**	98	97	75	**100**	91.9
Nov 12	93	92	90	85	83	84	86	84	83	81	80	76	76	73	75	85	82	78	83	91	92	92	92	93	73	93	84.5
Nov 13	83	78	79	80	77	79	80	80	80	77	75	72	70	71	73	75	78	80	80	81	83	84	85	86	70	86	78.6
Nov 14	88	86	86	87	86	85	86	86	86	85	86	83	81	81	89	89	92	92	93	95	96	96	95	94	81	96	88.5
Nov 15	93	94	95	95	94	93	92	94	96	98	97	96	96	96	97	97	97	96	95	95	96	96	91	89	89	98	94.9
Nov 16	88	90	91	90	90	86	88	86	90	91	94	93	92	93	89	85	85	86	87	88	97	**100**	**100**	**100**	85	**100**	90.8
Nov 17	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	93	96	97	91	86	88	86	85	88	90	89	89	90	89	87	85	**100**	93.4
Nov 18	82	80	81	81	83	84	83	84	84	81	81	80	81	81	79	80	82	81	84	85	82	81	82	83	79	85	81.9
Nov 19	84	83	82	82	83	82	80	80	81	79	78	79	81	80	79	80	79	80	81	80	81	82	85	87	78	87	81.2
Nov 20	87	86	86	86	86	87	87	87	86	85	83	79	77	76	76	78	80	80	81	81	81	80	81	81	76	87	82.4
Nov 21	81	81	82	81	81	82	82	81	82	80	78	77	76	76	77	77	80	80	79	80	80	80	78	81	76	82	79.7
Nov 22	82	82	84	85	85	85	83	82	83	83	82	80	77	76	80	80	84	89	88	87	87	87	86	85	76	89	83.4
Nov 23	84	84	83	82	81	81	80	80	80	79	78	78	75	74	76	77	79	81	83	83	82	83	84	84	74	84	80.5
Nov 24	84	84	84	84	84	84	84	84	83	83	83	81	77	79	80	80	83	84	84	83	85	85	83	83	77	85	82.8
Nov 25	82	81	80	80	80	80	80	81	82	81	83	83	82	82	83	83	84	84	84	85	85	84	84	84	80	85	82.4
Nov 26	84	84	84	84	85	84	84	83	84	86	86	87	89	81	74	76	74	72	70	71	73	77	79	75	70	89	80.3
Nov 27	77	76	75	76	80	82	81	81	80	79	76	73	68	67	68	70	78	78	76	75	76	78	80	80	67	82	76.3
Nov 28	80	81	79	78	78	77	76	76	77	77	76	75	74	74	76	78	77	75	75	77	77	77	76	75	74	81	76.7
Nov 29	75	76	76	76	77	77	77	77	77	76	75	76	76	76	77	77	77	77	77	77	78	77	78	78	75	78	76.7
Nov 30	77	77	78	78	78	79	79	79	78	78	78	78	78	78	78	78	78	78	78	77	77	76	76	75	75	79	77.7
Diurnal Maximum	100	100	100	100	100	100	100	100	99	99	97	97	96	97	99	98	98	100	100	99	100	100	100	100			
Diurnal Average	84.6	84.4	84.4	84.9	85.3	85.2	85.3	85.4	85.2	83.8	81.7	80.3	79.1	78.0	78.9	79.7	81.6	82.5	82.8	83.2	83.5	84.2	84.4	84.5			

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

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

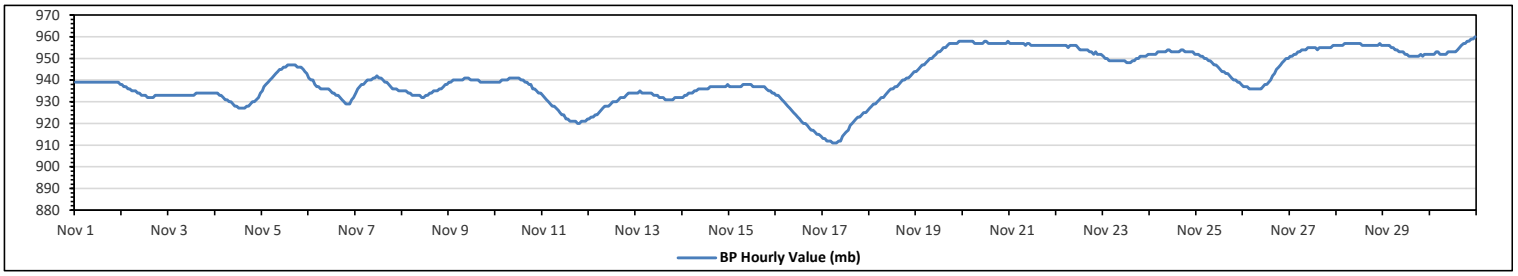
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	960	mb	on Nov 30 at hr 23	Hours in Service:	720	
Maximum Daily Value:	957	mb	on Nov 20	Hours of Data:	720	
Minimum Hourly Value:	911	mb	on Nov 17 at hr 5	Hours of Missing Data:	0	
Minimum Daily Value:	917	mb	on Nov 17	Hours of Calibration:	0	
Monthly Average:	941	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
Nov 1	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	938	938	939	939
Nov 2	938	937	937	936	936	935	935	935	934	934	933	933	933	932	932	932	932	933	933	933	933	933	933	933	932	938	934
Nov 3	933	933	933	933	933	933	933	933	933	933	933	933	933	933	934	934	934	934	934	934	934	934	934	934	933	934	933
Nov 4	934	934	933	933	932	931	931	930	930	929	928	928	927	927	927	927	928	928	929	930	930	931	932	934	927	934	930
Nov 5	935	937	938	939	940	941	942	943	944	945	945	946	946	947	947	947	947	947	946	946	946	945	944	943	935	947	944
Nov 6	941	940	940	938	937	937	936	936	936	936	936	935	934	934	933	933	932	931	930	929	929	929	931	932	929	941	934
Nov 7	934	936	937	938	938	939	940	940	940	941	941	942	941	941	940	939	939	938	937	936	936	936	935	935	934	942	938
Nov 8	935	935	935	934	934	933	933	933	933	933	932	932	933	933	934	934	935	935	935	936	936	937	938	938	932	938	934
Nov 9	939	939	940	940	940	940	940	940	941	941	941	940	940	940	940	940	939	939	939	939	939	939	939	939	939	941	940
Nov 10	939	939	939	940	940	940	940	941	941	941	941	941	941	940	940	939	939	938	938	936	936	935	934	934	934	941	939
Nov 11	933	932	931	930	929	928	928	927	926	925	924	924	922	922	921	921	921	921	920	920	921	921	921	922	920	933	925
Nov 12	922	923	923	924	924	925	926	927	928	928	928	929	930	930	930	931	932	932	932	933	934	934	934	934	922	934	929
Nov 13	934	934	935	934	934	934	934	934	934	933	933	933	932	932	932	931	931	931	931	931	932	932	932	932	931	935	933
Nov 14	932	933	933	934	934	934	935	935	936	936	936	936	936	936	937	937	937	937	937	937	937	937	937	938	932	938	936
Nov 15	937	937	937	937	937	937	937	938	938	938	938	938	937	937	937	937	937	937	937	936	935	935	934	934	934	938	937
Nov 16	933	933	932	931	930	929	928	927	926	925	924	923	922	921	920	920	919	918	917	917	916	915	915	914	914	933	923
Nov 17	913	913	912	912	912	**911**	**911**	**911**	912	912	914	915	916	917	919	920	921	922	923	923	924	925	925	926	**911**	926	**917**
Nov 18	927	928	929	929	930	931	932	932	933	934	935	936	936	937	937	938	939	940	940	941	941	942	943	944	927	944	936
Nov 19	944	945	946	947	947	948	949	950	950	951	952	953	953	954	955	955	956	957	957	957	957	957	958	958	944	958	952
Nov 20	958	958	958	958	958	958	957	957	957	957	957	958	958	957	957	957	957	957	957	957	957	957	957	958	957	958	**957**
Nov 21	957	957	957	957	957	957	957	957	956	957	957	956	956	956	956	956	956	956	956	956	956	956	956	956	956	957	956
Nov 22	956	956	956	956	956	956	955	956	956	956	956	955	954	954	954	954	954	953	953	952	953	952	952	952	952	956	954
Nov 23	951	950	950	949	949	949	949	949	949	949	949	949	948	948	948	949	949	950	950	951	951	951	951	952	948	952	950
Nov 24	952	952	952	952	953	953	953	953	953	954	954	953	953	953	953	953	954	954	953	953	953	953	953	952	952	954	953
Nov 25	952	952	951	951	950	950	949	949	948	947	947	946	945	944	944	943	943	942	941	940	940	939	939	938	938	952	945
Nov 26	937	937	937	936	936	936	936	936	936	936	937	938	938	939	940	942	943	945	946	947	948	949	950	950	936	950	941
Nov 27	951	951	952	952	953	953	954	954	954	955	955	955	955	955	954	955	955	955	955	955	955	955	956	956	951	956	954
Nov 28	956	956	956	956	957	957	957	957	957	957	957	957	957	956	956	956	956	956	956	956	956	956	957	956	956	957	956
Nov 29	956	956	956	956	955	955	954	954	953	953	953	952	952	951	951	951	951	951	951	952	951	952	952	952	951	956	953
Nov 30	952	952	952	953	953	952	952	952	952	953	953	953	953	953	954	955	956	957	957	958	958	959	959	**960**	952	**960**	955
Diurnal Maximum	958	958	958	958	958	958	957	957	957	957	957	958	958	957	957	957	957	957	957	958	958	959	959	960			
Diurnal Average	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941			

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

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

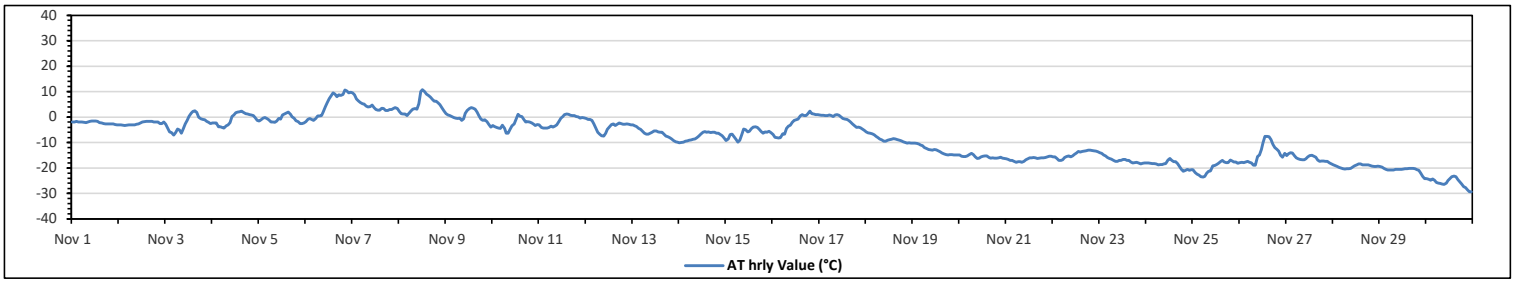
Maximum Hourly Value:	10.8	°C	on Nov 8 at hr 12	Hours in Service:	720	
Maximum Daily Value:	4.9	°C	on Nov 8	Hours of Data:	720	
Minimum Hourly Value:	-29.4	°C	on Nov 30 at hr 22	Hours of Missing Data:	0	
Minimum Daily Value:	-25.7	°C	on Nov 30	Hours of Calibration:	0	
Monthly Average:	-8.2	°C		Operational 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
Nov 1	-2	-2	-1.7	-2	-2	-2	-2.1	-2.2	-1.9	-1.6	-1.5	-1.5	-1.5	-1.6	-2.2	-2.3	-2.5	-2.6	-2.6	-2.7	-2.7	-2.7	-2.9	-3	-3.0	-1.5	-2.2
Nov 2	-3	-3.1	-3.2	-3.3	-3.2	-3	-3	-3	-3	-2.8	-2.7	-2.4	-2	-1.8	-1.7	-1.6	-1.6	-1.7	-1.9	-2	-1.9	-2.5	-2.5	-2	-3.3	-1.6	-2.5
Nov 3	-2.8	-4.3	-5.8	-6.1	-7.1	-6.1	-4.7	-5.1	-6.3	-4.6	-2.7	-1.3	0.3	1.6	2.2	2.5	1.8	0	-0.7	-1	-1.1	-1.7	-2.1	-2.5	-7.1	2.5	-2.4
Nov 4	-2.4	-2.3	-2.3	-3.8	-3.8	-4.1	-4.3	-3.4	-3.1	-2.2	0.2	0.8	1.7	1.9	2.1	2.3	1.8	1.4	1.2	1	0.8	0.5	-0.3	-1.3	-4.3	2.3	-0.7
Nov 5	-1.5	-1.1	-0.4	-0.1	-0.5	-1.1	-1.9	-2	-2.1	-1.5	-0.5	-0.8	0.8	1.3	1.6	2	1.1	0.1	-0.4	-1.4	-1.8	-2.5	-2.5	-2.4	-2.5	2.0	-0.7
Nov 6	-1.8	-1	-0.6	-1	-1.2	-0.5	0.4	0.4	0.6	1.9	4.1	5.7	7.2	8.4	9.5	9	8	8.7	8.5	8.9	10.7	10.3	9.5	9.7	-1.8	10.7	4.8
Nov 7	9.5	8.8	7.1	6.4	5.7	5.3	5.1	4.3	4	4.1	4.7	3.8	2.9	2.8	2.8	3.5	3.4	2.6	2.6	2.9	2.9	3.3	3.8	3.3	2.6	9.5	4.4
Nov 8	2.2	1.4	1.2	1.2	0.6	1.5	2.3	3.1	3.3	3.1	5.2	10	**10.8**	10	9	8.5	7.9	6.9	6.3	6.2	5.6	4.9	3.5	2.4	0.6	**10.8**	**4.9**
Nov 9	1.4	0.9	0.5	0.2	-0.1	-0.4	-0.6	-0.4	-1.2	-0.7	1.5	2.6	3.3	3.7	3.5	3.1	1.9	0.4	-0.8	-1.3	-1.1	-1.8	-2.9	-3.9	-3.9	3.7	0.3
Nov 10	-3.3	-3.7	-4	-4.3	-4.4	-3.2	-4.5	-6.4	-6.4	-4.9	-3.4	-2.7	-0.8	1.1	0.3	0.2	-0.9	-1.9	-1.8	-2	-2.3	-2.8	-3.3	-2.9	-6.4	1.1	-2.8
Nov 11	-3	-4	-4.3	-4.3	-4.3	-4.1	-3.6	-3.9	-3.6	-3	-1.6	-0.4	0.2	1	1.2	1.1	0.7	0.5	0.5	0.2	0.1	-0.4	-0.2	-0.3	-4.3	1.2	-1.5
Nov 12	-0.5	-1	-1	-1.3	-2.6	-4.3	-5.9	-6.7	-7.4	-7.5	-6.4	-4.8	-3.9	-2.9	-2.7	-3.3	-2.8	-2.4	-2.5	-2.8	-2.8	-2.7	-2.8	-3	-7.5	-0.5	-3.5
Nov 13	-3	-3.4	-3.7	-4.4	-4.8	-5.6	-6.4	-6.7	-6.7	-6.3	-6	-5.4	-5.4	-5.8	-5.9	-5.9	-6.7	-7.5	-7.7	-8.1	-8.6	-9.2	-9.7	-9.9	-9.9	-3.0	-6.4
Nov 14	-10.1	-10	-9.9	-9.5	-9.3	-9.1	-9	-8.8	-8.6	-8	-7.5	-6.7	-5.9	-5.7	-5.9	-5.8	-6.1	-6	-6	-6.4	-6.4	-6.8	-7.3	-8.2	-10.1	-5.7	-7.6
Nov 15	-9.2	-8.6	-6.8	-6.7	-7.8	-8.8	-9.9	-9.1	-6.9	-4.7	-5	-5.8	-5.5	-4.6	-3.9	-3.8	-4	-4.9	-5.7	-6.3	-5.8	-6	-5.5	-6.1	-9.9	-3.8	-6.3
Nov 16	-6.8	-7.9	-8	-8.2	-8.1	-6.5	-6.7	-4.5	-3.6	-3.2	-2.1	-1.3	-1.1	-0.8	0.4	1	0.6	0.5	1.2	2.3	1.4	1.2	1	1	-8.2	2.3	-2.4
Nov 17	0.9	0.7	0.7	0.5	0.6	0.8	0.5	0.2	0.9	1	0.7	0.1	-0.6	-0.8	-1	-1.3	-1.9	-2.6	-3.5	-4	-3.9	-4.2	-4.7	-5.2	-5.2	1.0	-1.1
Nov 18	-5.8	-6.2	-6.4	-6.6	-6.9	-7.6	-8.1	-8.6	-9	-9.4	-9.4	-9.1	-8.9	-8.7	-8.5	-8.6	-8.9	-9.1	-9.3	-9.7	-10	-10.2	-10.1	-10.2	-10.2	-5.8	-8.6
Nov 19	-10.2	-10.3	-10.4	-10.6	-10.9	-11.2	-12	-12.4	-12.8	-12.9	-13	-12.8	-12.9	-13.2	-13.6	-14.1	-14.5	-14.7	-14.8	-14.7	-14.7	-14.8	-14.9	-14.9	-14.9	-10.2	-13.0
Nov 20	-14.9	-15.4	-15.5	-15.5	-15.3	-14.7	-14.3	-14.7	-15.6	-16.2	-16.1	-15.7	-15.4	-15.3	-15.3	-15.9	-16.1	-16	-16.1	-16.1	-16	-15.8	-16.1	-16.2	-16.2	-14.3	-15.6
Nov 21	-16.4	-16.7	-17	-17	-17.4	-17.7	-17.5	-17.5	-17.8	-17.3	-16.8	-16.4	-16	-16	-15.9	-16	-16.2	-16.1	-16	-16	-15.9	-15.6	-15.4	-15.4	-17.8	-15.4	-16.5
Nov 22	-15.6	-15.6	-16.2	-17	-17.1	-16.8	-15.9	-15.5	-15.3	-15.7	-15.3	-14.6	-14.2	-13.5	-13.7	-13.5	-13.3	-13.2	-13	-13	-13.1	-13.2	-13.4	-13.6	-17.1	-13.0	-14.6
Nov 23	-14	-14.3	-14.8	-15.3	-15.9	-16.2	-16.5	-17.1	-17.3	-17.3	-17.1	-17	-16.7	-16.7	-17.1	-17	-17.6	-18.1	-17.9	-17.7	-18	-18.4	-18.2	-18	-18.4	-14.0	-16.8
Nov 24	-18.1	-18.1	-18.2	-18.3	-18.3	-18.4	-18.7	-18.6	-18.6	-18.5	-18.3	-16.9	-16.3	-17.1	-17.5	-17.5	-18.3	-19.4	-20.6	-21.3	-21	-20.5	-20.9	-20.7	-21.3	-16.3	-18.8
Nov 25	-20.7	-21.8	-22.5	-22.8	-23.4	-23.6	-23.3	-22.1	-21.3	-21.2	-19.1	-19	-18.6	-18.2	-17.5	-17	-17.6	-17.9	-17.9	-16.9	-17.2	-17.6	-17.6	-18.2	-23.6	-16.9	-19.7
Nov 26	-17.9	-17.7	-17.9	-17.6	-17.3	-17.7	-18	-18.9	-18.9	-15.5	-14.9	-12.7	-10.1	-7.6	-7.6	-7.7	-8.9	-10.7	-12	-12.6	-13.3	-15	-15.8	-14.3	-18.9	-7.6	-14.2
Nov 27	-15.1	-14.4	-14	-14.2	-15.1	-16	-16.4	-16.7	-16.8	-16.8	-16.4	-15.7	-15.1	-15	-15.4	-15.8	-16.9	-17.3	-17.2	-17.2	-17.3	-17.4	-18	-18.5	-18.5	-14.0	-16.2
Nov 28	-18.8	-19	-19.4	-19.8	-20	-20.3	-20.4	-20.3	-20.3	-20.1	-19.7	-19.2	-18.8	-18.5	-18.5	-18.7	-18.8	-18.8	-18.8	-19	-19.3	-19.4	-19.4	-19.3	-20.4	-18.5	-19.4
Nov 29	-19.4	-19.7	-20.1	-20.5	-20.8	-20.8	-20.8	-20.8	-20.6	-20.6	-20.6	-20.6	-20.4	-20.2	-20.2	-20.1	-20.1	-20.1	-20.3	-20.7	-20.9	-22	-23.3	-24.1	-24.1	-19.4	-20.7
Nov 30	-24.1	-24.4	-24.8	-24.3	-24.8	-25.7	-25.9	-26.1	-26.4	-26.5	-25.9	-24.9	-24.1	-23.4	-23.2	-23.5	-24.5	-25.4	-26.3	-27.3	-27.7	-28.6	**-29.4**	-29.3	**-29.4**	-23.2	**-25.7**
Diurnal Maximum	9.5	8.8	7.1	6.4	5.7	5.3	5.1	4.3	4.0	4.1	5.2	10.0	10.8	10.0	9.5	9.0	8.0	8.7	8.5	8.9	10.7	10.3	9.5	9.7			
Diurnal Average	-8.2	-8.5	-8.6	-8.9	-9.2	-9.3	-9.4	-9.5	-9.4	-9.0	-8.2	-7.5	-6.9	-6.5	-6.5	-6.5	-7.0	-7.5	-7.8	-8.0	-8.0	-8.4	-8.7	-8.9			

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.



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

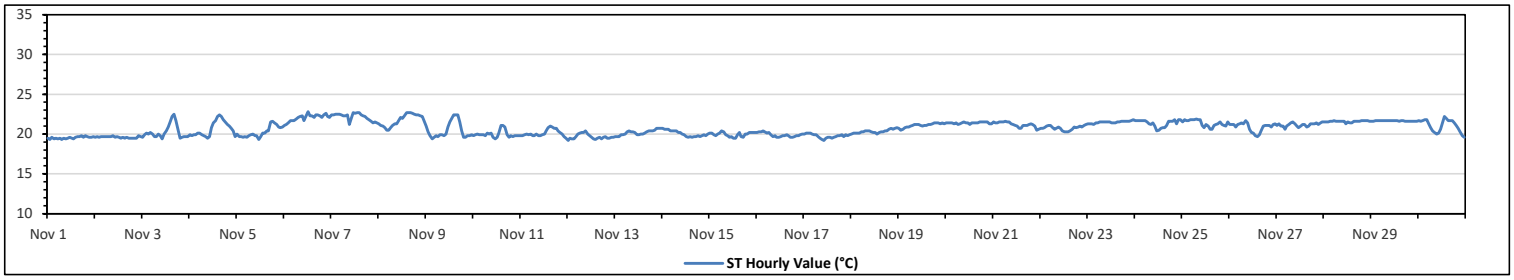
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	22.8	°C	on Nov 6 at hr 12	Hours in Service:	720	
Maximum Daily Value:	22.2	°C	on Nov 7	Hours of Data:	720	
Minimum Hourly Value:	19.2	°C	on Nov 12 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	19.6	°C	on Nov 1	Hours of Calibration:	0	
Monthly Average:	20.7	°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
Nov 1	19.5	19.3	19.6	19.4	19.5	19.4	19.5	19.3	19.5	19.4	19.5	19.6	19.5	19.4	19.6	19.7	19.7	19.8	19.6	19.8	19.7	19.6	19.6	19.7	19.3	19.8	**19.6**
Nov 2	19.6	19.7	19.6	19.7	19.7	19.7	19.7	19.7	19.7	19.8	19.6	19.7	19.6	19.5	19.6	19.5	19.6	19.5	19.5	19.5	19.5	19.5	19.8	19.7	19.5	19.8	19.6
Nov 3	19.6	19.9	20.1	20.0	20.2	20.0	19.7	19.7	20.0	19.8	19.4	20.0	20.4	20.9	21.5	22.2	22.5	21.7	20.5	19.5	19.6	19.7	19.7	19.7	19.4	22.5	20.3
Nov 4	19.9	19.8	19.9	19.9	20.1	20.1	19.9	19.8	19.7	19.5	19.7	20.8	21.4	21.7	22.2	22.4	22.2	21.8	21.5	21.2	21.0	20.7	20.4	19.7	19.5	22.4	20.6
Nov 5	20.0	19.7	19.7	19.6	19.7	19.6	19.8	19.9	20.0	19.8	19.8	19.3	19.7	20.1	20.1	20.4	20.4	21.5	21.6	21.4	21.2	20.9	20.8	20.9	19.3	21.6	20.2
Nov 6	21.1	21.2	21.4	21.7	21.7	21.7	21.9	22.1	22.2	22.3	21.7	22.2	**22.8**	22.3	22.3	22.1	22.4	22.4	22.3	22.1	22.4	22.6	22.2	22.1	21.1	**22.8**	22.1
Nov 7	22.4	22.4	22.5	22.5	22.5	22.4	22.3	22.3	22.4	21.2	22.0	22.7	22.6	22.7	22.7	22.4	22.3	22.2	22.0	21.8	21.6	21.4	21.5	21.4	21.2	22.7	**22.2**
Nov 8	21.3	21.1	21.0	20.8	20.5	20.5	20.8	21.1	21.3	21.3	21.7	22.1	22.0	22.3	22.7	22.7	22.7	22.6	22.5	22.4	22.4	22.3	22.2	21.6	20.5	22.7	21.7
Nov 9	21.0	20.3	19.8	19.4	19.6	19.8	19.7	19.9	19.9	19.8	20.0	20.9	21.5	22.0	22.4	22.4	22.4	21.5	20.4	19.6	19.6	19.8	19.8	19.9	19.4	22.4	20.5
Nov 10	19.8	19.9	20.0	19.9	19.9	19.9	19.8	20.1	20.0	20.1	19.6	19.4	19.6	20.1	21.1	21.1	20.9	19.9	19.6	19.8	19.7	19.8	19.8	19.8	19.4	21.1	20.0
Nov 11	19.8	19.8	19.9	20.0	19.9	20.0	19.8	19.8	20.0	19.8	19.8	19.9	20.0	20.4	20.8	21.0	20.9	20.7	20.7	20.4	20.2	20.0	19.7	19.5	19.5	21.0	20.1
Nov 12	**19.2**	19.5	19.4	19.4	19.7	20.0	20.1	20.2	20.2	20.4	20.0	19.8	19.6	19.4	19.3	19.5	19.6	19.4	19.6	19.7	19.5	19.5	19.6	19.6	**19.2**	20.4	19.7
Nov 13	19.7	19.7	19.7	19.9	19.9	20.0	20.3	20.4	20.3	20.3	20.2	19.9	19.9	20.0	20.0	20.1	20.3	20.4	20.4	20.4	20.5	20.7	20.7	20.7	19.7	20.7	20.2
Nov 14	20.7	20.6	20.6	20.6	20.4	20.4	20.4	20.4	20.2	20.2	20.0	19.9	19.7	19.6	19.7	19.6	19.7	19.7	19.8	19.7	19.8	19.9	19.8	20.0	19.6	20.7	20.1
Nov 15	20.1	20.1	19.9	19.8	20.0	20.1	20.4	20.3	19.9	19.8	19.6	19.7	19.5	19.5	19.9	20.2	19.7	19.6	20.0	20.0	20.2	20.2	20.2	20.2	19.5	20.4	20.0
Nov 16	20.2	20.3	20.3	20.4	20.3	20.1	20.2	19.9	19.7	19.8	19.6	19.6	19.7	19.8	19.8	19.9	19.8	19.6	19.6	19.7	19.8	19.8	19.9	20.0	19.6	20.4	19.9
Nov 17	20.0	20.1	20.1	20.1	20.0	19.9	19.9	19.7	19.5	19.3	**19.2**	19.5	19.6	19.6	19.5	19.6	19.7	19.8	19.8	19.9	19.7	19.9	19.8	19.9	**19.2**	20.1	19.8
Nov 18	20.0	20.1	20.1	20.1	20.1	20.3	20.3	20.4	20.4	20.4	20.3	20.2	20.2	20.0	20.2	20.3	20.3	20.4	20.4	20.6	20.7	20.6	20.7	20.8	20.0	20.8	20.3
Nov 19	20.7	20.5	20.6	20.8	20.9	20.9	21.0	21.1	21.2	21.2	21.2	21.1	21.0	21.1	21.1	21.2	21.2	21.3	21.4	21.4	21.4	21.3	21.4	21.3	20.5	21.4	21.1
Nov 20	21.4	21.4	21.4	21.4	21.3	21.4	21.2	21.3	21.4	21.5	21.4	21.4	21.2	21.4	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.3	21.3	21.2	21.5	21.4
Nov 21	21.5	21.4	21.4	21.5	21.5	21.5	21.6	21.5	21.5	21.3	21.2	21.1	21.0	20.7	20.7	21.1	21.1	21.1	21.2	21.3	21.2	21.0	20.5	20.6	20.5	21.6	21.2
Nov 22	20.7	20.7	20.8	21.0	21.1	21.1	20.8	20.6	20.7	20.9	20.7	20.4	20.3	20.3	20.3	20.4	20.6	20.9	20.8	20.9	21.0	20.9	21.1	21.2	20.3	21.2	20.8
Nov 23	21.3	21.3	21.3	21.2	21.4	21.4	21.5	21.5	21.5	21.5	21.5	21.5	21.4	21.4	21.4	21.5	21.5	21.6	21.6	21.6	21.6	21.6	21.7	21.8	21.2	21.8	21.5
Nov 24	21.7	21.7	21.7	21.7	21.7	21.7	21.5	21.3	21.2	21.4	21.0	20.4	20.5	20.7	20.8	20.8	21.1	21.6	21.6	21.6	21.8	21.3	21.8	21.8	20.4	21.8	21.4
Nov 25	21.5	21.8	21.7	21.7	21.8	21.8	21.8	21.9	21.8	21.8	21.1	20.8	21.2	21.0	20.6	20.6	21.1	21.2	21.3	21.5	21.2	21.1	21.0	21.5	20.6	21.9	21.4
Nov 26	21.2	21.2	21.2	20.9	21.2	21.3	21.4	21.3	21.7	21.4	20.6	20.2	20.1	19.8	19.7	19.9	20.5	21.0	21.1	21.1	21.1	20.9	21.2	21.3	19.7	21.7	20.9
Nov 27	21.1	21.3	21.0	21.0	20.6	21.0	21.2	21.4	21.5	21.3	21.0	20.8	21.0	21.2	21.2	20.9	21.0	21.3	21.3	21.3	21.4	21.2	21.4	21.5	20.6	21.5	21.2
Nov 28	21.5	21.5	21.5	21.6	21.6	21.7	21.6	21.6	21.6	21.6	21.6	21.3	21.5	21.4	21.4	21.6	21.6	21.6	21.6	21.7	21.7	21.7	21.7	21.6	21.3	21.7	21.6
Nov 29	21.6	21.6	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.6	21.7	21.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.7	21.7
Nov 30	21.7	21.6	21.7	21.8	21.8	21.3	20.8	20.4	20.2	20.0	20.1	20.6	21.4	22.2	22.0	21.7	21.7	21.7	21.4	21.1	20.7	20.3	19.8	19.6	19.6	22.2	21.1
Diurnal Maximum	22.4	22.4	22.5	22.5	22.5	22.4	22.3	22.3	22.4	22.3	22.0	22.7	22.8	22.7	22.7	22.7	22.7	22.6	22.5	22.4	22.4	22.6	22.2	22.1			
Diurnal Average	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.6	20.5	20.6	20.7	20.7	20.9	20.9	21.0	21.0	20.9	20.8	20.8	20.7	20.7	20.7			

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

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

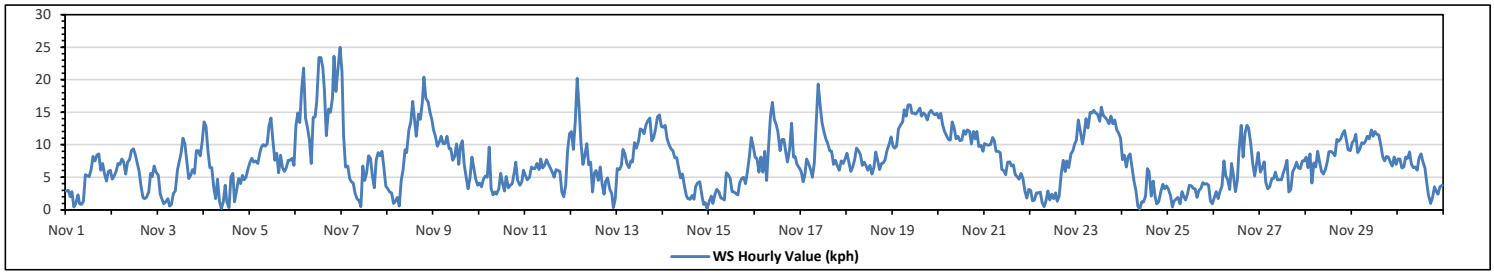
VECTOR WIND SPEED (VWS) in km/hr

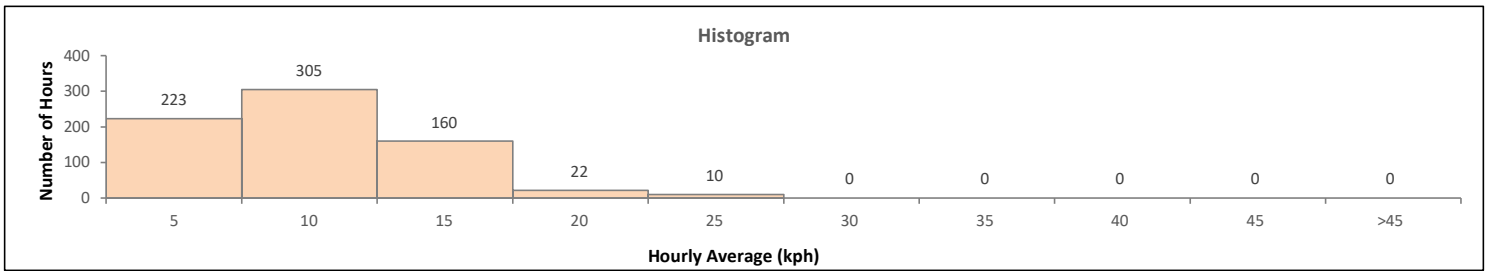
Maximum Hourly Value:	25.0	kph	on Nov 6 at hr 23	Hours in Service:	720	
Maximum Daily Value:	16.9	kph	on Nov 6	Hours of Data:	720	
Minimum Hourly Value:	0.1	kph	on Nov 24 at hr 9	Hours of Missing Data:	0	
Minimum Daily Value:	2.5	kph	on Nov 25	Hours of Calibration:	0	
Monthly Average:	7.5	kph		Operational 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
Nov 1	2.9	3.0	2.0	2.8	0.4	1.0	2.3	0.9	0.8	1.3	5.4	5.2	5.1	6.2	8.2	7.5	8.4	8.6	6.1	7.1	5.5	4.4	5.9	6.1	0.4	8.6	4.5
Nov 2	4.7	5.2	5.9	7.1	7.0	7.8	7.3	5.5	7.3	7.7	9.1	9.4	8.7	7.2	5.9	3.6	1.9	1.7	1.9	2.7	5.6	5.1	6.7	5.8	1.7	9.4	5.9
Nov 3	5.3	2.4	1.7	0.9	1.2	1.7	0.6	0.8	2.5	2.9	6.2	7.3	8.7	11.0	10.2	7.5	4.8	5.3	6.2	5.6	9.1	9.1	8.3	10.4	0.6	11.0	5.4
Nov 4	13.5	12.8	9.1	6.5	6.5	3.5	1.7	4.7	1.3	0.2	1.2	3.8	1.2	0.3	5.1	5.6	1.2	2.8	4.8	4.0	5.3	4.6	5.0	6.4	0.2	13.5	4.6
Nov 5	7.4	7.9	7.3	7.5	7.1	8.7	9.6	10.0	9.8	10.1	12.9	14.1	10.7	7.6	8.7	5.7	8.4	6.5	5.9	6.5	7.6	7.6	7.9	6.8	5.7	14.1	8.4
Nov 6	12.9	14.9	13.4	18.6	21.8	14.1	12.7	10.8	7.1	14.2	14.3	16.7	23.4	23.4	21.9	18.4	11.4	15.5	15.0	17.1	23.6	18.2	22.0	**25.0**	7.1	**25.0**	**16.9**
Nov 7	21.2	11.4	6.6	6.7	4.8	4.3	4.1	2.5	1.7	1.4	0.5	6.7	4.5	5.7	8.3	7.9	5.2	3.4	7.7	8.8	8.3	9.0	6.4	3.6	0.5	21.2	6.3
Nov 8	3.2	2.7	2.6	1.0	1.3	1.9	0.6	4.5	6.2	9.2	8.8	12.3	13.5	16.7	13.7	11.3	14.7	13.9	16.5	20.4	17.1	16.6	15.0	13.8	0.6	20.4	9.9
Nov 9	12.3	11.3	9.8	10.5	11.3	10.2	10.2	11.3	9.4	9.4	7.6	8.2	10.1	7.0	9.8	10.6	7.0	5.0	3.2	4.9	8.1	6.4	4.7	3.8	3.2	12.3	8.4
Nov 10	4.1	3.5	4.7	5.2	5.0	9.6	3.2	2.3	2.7	2.4	3.2	5.6	4.0	2.9	5.1	3.4	3.8	4.0	5.7	7.3	4.5	3.8	4.3	6.1	2.3	9.6	4.4
Nov 11	5.3	4.6	5.0	6.6	6.3	6.3	7.1	6.2	7.8	6.4	6.8	7.7	6.9	6.4	5.8	5.0	6.2	6.0	5.9	2.7	2.0	3.8	9.1	11.7	2.0	11.7	6.2
Nov 12	12.0	9.3	13.6	20.2	15.6	10.2	7.0	8.4	10.2	6.9	7.3	2.7	5.7	6.0	4.5	6.6	3.9	2.4	4.4	4.9	3.1	2.5	0.3	1.7	0.3	20.2	7.1
Nov 13	6.3	6.2	6.8	9.3	8.6	7.1	6.5	7.5	7.4	10.3	9.5	10.6	12.4	12.3	11.7	13.1	13.7	14.1	10.6	11.1	12.5	14.3	14.6	12.8	6.2	14.6	10.4
Nov 14	12.7	13.0	10.9	10.0	9.4	9.1	8.0	8.0	6.4	4.9	5.5	3.7	2.2	1.7	1.6	2.2	1.6	3.5	4.1	4.3	2.4	0.8	1.1	0.2	0.2	13.0	5.3
Nov 15	1.4	2.1	1.0	2.3	3.1	2.7	1.8	1.7	1.5	5.7	5.4	4.8	2.8	2.7	2.5	2.3	4.2	4.8	5.0	4.0	5.9	8.2	11.1	9.8	1.0	11.1	4.0
Nov 16	8.1	7.8	5.8	8.1	5.8	9.0	4.5	8.9	14.4	16.5	13.9	13.1	12.0	9.1	10.8	10.8	8.8	7.4	9.4	13.3	8.1	8.2	7.0	6.4	4.5	16.5	9.5
Nov 17	5.9	4.3	5.2	7.8	7.0	6.1	5.0	7.2	13.5	19.3	15.7	13.4	12.0	10.9	10.2	9.1	9.0	7.0	7.6	6.7	6.1	7.5	7.1	7.8	4.3	19.3	8.8
Nov 18	8.7	7.3	5.9	6.6	7.7	9.5	9.1	8.5	6.8	7.3	6.7	6.1	6.8	5.5	6.4	8.9	7.8	6.2	7.1	7.2	7.7	9.1	10.1	11.2	5.5	11.2	7.7
Nov 19	9.8	9.5	9.8	12.4	13.1	13.5	15.4	14.4	16.1	16.1	14.8	14.9	14.7	15.1	15.6	14.4	14.9	14.6	13.8	14.9	15.3	14.8	14.6	14.8	9.5	16.1	14.1
Nov 20	14.1	14.8	13.1	12.0	11.4	10.8	10.7	13.5	12.6	10.9	11.3	10.6	10.7	12.2	11.6	12.3	12.1	10.1	12.0	10.9	12.0	9.7	9.9	9.0	9.0	14.8	11.6
Nov 21	10.2	10.0	9.9	10.0	11.1	10.7	9.0	9.0	8.8	6.2	6.0	5.4	7.3	7.4	6.7	6.9	5.4	5.1	4.7	5.6	4.8	2.9	1.8	3.1	1.8	11.1	7.0
Nov 22	3.0	1.4	1.5	2.6	2.6	2.7	1.1	0.5	1.4	2.9	1.5	2.4	1.7	2.6	1.3	2.1	5.7	7.6	5.9	7.5	6.5	8.6	9.1	10.2	0.5	10.2	3.9
Nov 23	10.7	13.8	11.9	10.1	11.6	14.0	12.6	15.0	14.9	15.3	14.9	14.7	13.6	15.8	14.5	14.2	13.8	13.2	14.4	13.2	13.8	12.3	11.8	11.0	10.1	15.8	13.4
Nov 24	7.7	8.4	6.6	8.2	8.6	6.4	4.4	3.0	0.6	**0.1**	1.2	1.2	2.1	6.3	5.9	2.1	4.4	2.0	0.9	1.2	2.8	3.9	3.2	3.7	**0.1**	8.6	4.0
Nov 25	3.2	2.2	0.4	1.3	1.6	1.9	0.9	2.8	2.1	1.5	2.4	3.8	3.7	3.3	3.2	1.9	3.0	3.3	4.2	3.9	4.0	3.8	1.3	0.9	0.4	4.2	**2.5**
Nov 26	1.9	2.8	1.7	2.9	3.6	7.5	5.2	4.6	3.1	7.1	5.2	2.8	4.5	9.0	13.0	8.1	11.8	13.0	12.6	10.1	7.1	5.2	6.7	8.8	1.7	13.0	6.6
Nov 27	5.8	6.5	7.4	4.2	3.2	3.5	4.8	4.8	5.8	4.6	4.6	4.6	5.6	6.4	7.6	2.7	3.1	5.9	6.4	7.3	6.4	6.3	7.5	7.5	2.7	7.6	5.5
Nov 28	8.1	6.5	8.6	4.1	7.2	6.6	9.0	7.3	5.9	5.5	6.2	7.4	8.9	9.0	8.7	8.3	10.8	10.5	10.9	11.7	12.2	10.6	9.2	9.1	4.1	12.2	8.4
Nov 29	10.3	10.7	11.6	8.8	9.2	10.3	10.2	10.5	11.3	10.9	12.3	11.3	12.0	11.6	11.5	9.7	8.2	7.5	8.2	8.1	7.3	6.7	8.1	7.0	6.7	12.3	9.7
Nov 30	7.8	7.8	6.4	6.6	8.1	7.9	8.9	7.0	6.5	6.6	6.1	8.0	8.6	7.4	6.5	4.1	2.3	1.0	1.9	3.5	2.8	2.4	3.5	3.8	1.0	8.9	5.6
Diurnal Maximum	21.2	14.9	13.6	20.2	21.8	14.1	15.4	15.0	16.1	19.3	15.7	16.7	23.4	23.4	21.9	18.4	14.9	15.5	16.5	20.4	23.6	18.2	22.0	25.0			
Diurnal Average	8.0	7.5	6.9	7.4	7.4	7.3	6.5	6.7	6.9	7.5	7.6	8.0	8.1	8.3	8.6	7.5	7.3	7.1	7.4	7.9	7.9	7.5	7.8	7.9			

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.



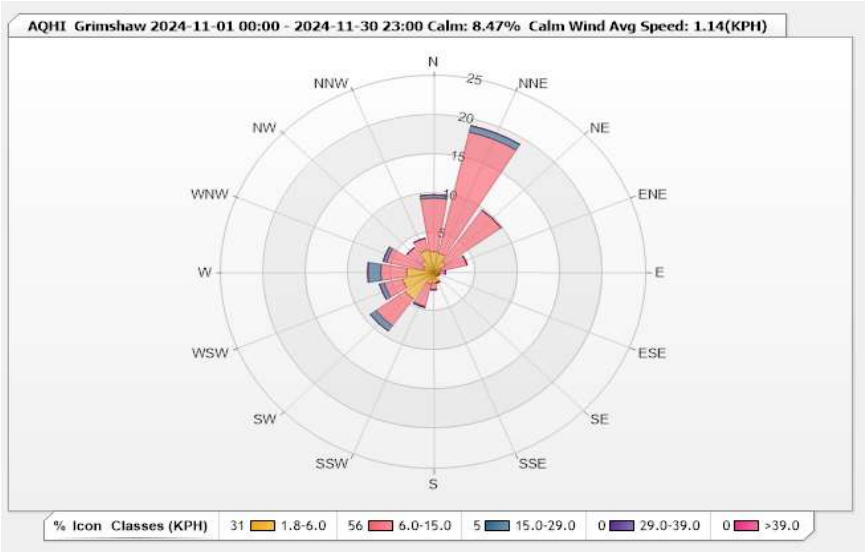


Station: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 11-2024

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	2.64	6.81	0.42	0	0	9.87
NNE	2.5	15.83	0.83	0	0	19.16
NE	1.67	8.06	0	0	0	9.73
ENE	0.83	3.19	0	0	0	4.02
E	0.56	0.83	0	0	0	1.39
ESE	0.69	0	0	0	0	0.69
SE	0.56	0	0	0	0	0.56
SSE	1.25	0.14	0	0	0	1.39
S	1.39	0.83	0	0	0	2.22
SSW	1.53	2.92	0.14	0	0	4.59
SW	4.17	4.17	0.83	0	0	9.17
WSW	3.75	2.22	0.56	0	0	6.53
W	3.19	3.06	1.53	0	0	7.78
WNW	1.25	4.44	0.42	0	0	6.11
NW	1.81	2.08	0	0	0	3.89
NNW	2.92	1.53	0	0	0	4.45
Summary	30.71	56.11	4.73	0	0	91.55



Peace River Area Monitoring Program

AQHI - Grimshaw Station - November 2024

Summary of Hourly Averages

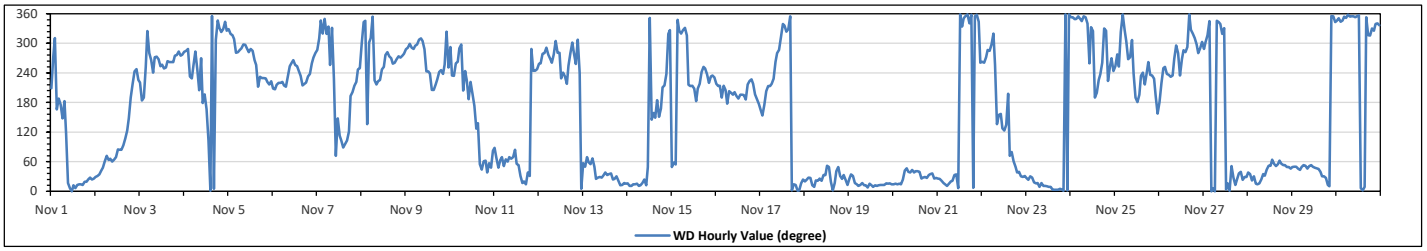
WIND DIRECTION (VWD) in sector

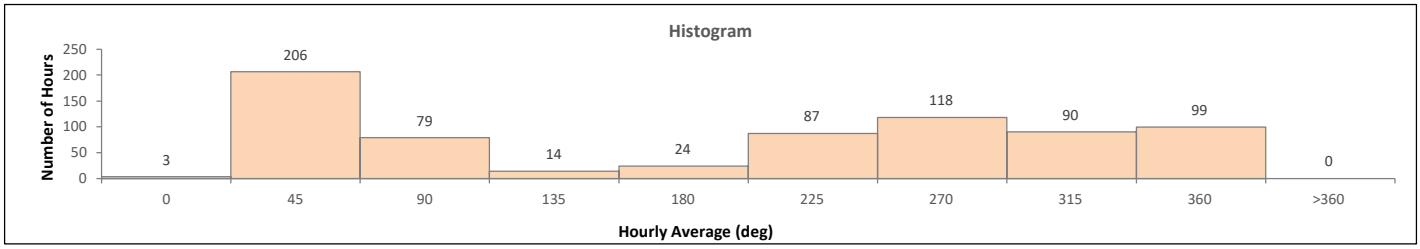
Monthly Average:	334 (NNW) degree	Hours in Service:	720
		Hours of Data:	720
		Hours of Missing Data:	0
		Hours of Calibration:	0
		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Nov 1	SSW	W	NW	SSE	S	S	SE	S	ESE	NNE	N	N	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	20	NNE
Nov 2	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	ESE	ESE	SE	S	SW	WSW	WSW	SW	80	E
Nov 3	SW	S	S	WSW	NW	W	W	WSW	W	W	W	WSW	WSW	WSW	WSW	W	W	W	W	W	WNW	W	W		260	WSW
Nov 4	W	WNW	WNW	SW	SW	WSW	WNW	WSW	SSW	W	S	SSW	SSE	ESE	N	N	N	NW	NNW	NNW	NW	NNW	NNW	NW	290	WNW
Nov 5	NNW	NW	NW	NW	W	W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	W	WSW	SSW	SW	SW	SW	SW	SW	SW	SW	270	W
Nov 6	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SW	WSW	WSW	W	WSW	WSW	WSW	SW	SSW	SW	SW	SW	SW	WSW	W	W	236	SW
Nov 7	WNW	NW	NNW	NW	N	NW	NNW	WSW	NNW	SW	ENE	SE	ESE	ESE	E	E	ESE	ESE	S	SSW	SSW	SW	WSW	WSW	250	WSW
Nov 8	WNW	NNW	NNW	SE	WNW	NW	N	SW	SW	SW	SW	WSW	WSW	W	W	W	W	WSW	W	W	W	W	W	W	272	W
Nov 9	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WSW	WSW	WSW	SSW	SSW	SW	SW	WSW	WSW	SW	WSW	NW	WSW	267	W
Nov 10	WNW	SW	SW	WSW	W	WNW	WNW	SSW	WSW	SW	S	SW	SSW	S	SE	SE	NE	NE	ENE	ENE	NE	ENE	NE	E	206	SSW
Nov 11	E	ENE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	NE	NE	NNE	NNE	NNE	NNE	NE	NNE	WNW	WSW	WSW	WSW	48	NE
Nov 12	WSW	WSW	W	W	WNW	W	W	W	W	WNW	W	W	SW	WSW	SW	SW	WSW	W	WNW	W	WSW	NW	WSW	N	271	W
Nov 13	ENE	NE	ENE	ENE	NE	ENE	NE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	35	NE
Nov 14	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	N	SE	SSE	SSE	S	SSE	SSE	SSW	SSW	SW	NW	NW	20	NNE
Nov 15	NE	ENE	NE	NNW	NW	NW	NW	NNW	NW	SW	SSW	SSW	SSW	S	SSW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	252	WSW
Nov 16	SW	SSW	SSW	S	SSW	SSW	S	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	S	SW	SW	SW	SW	SSW	S	S	201	SSW
Nov 17	SSE	SSE	S	SSW	SSW	SSW	SW	SW	W	W	WNW	NW	NNW	NNW	NW	NNW	N	N	NNE	NNE	N	N	NNE	NNE	310	NW
Nov 18	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	N	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	26	NNE
Nov 19	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	15	NNE
Nov 20	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	NNE	30	NNE
Nov 21	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	N	N	NNW	N	N	N	NNW	N	N	N	N	NNW	W	5	N
Nov 22	W	W	W	WNW	WNW	WNW	NW	WSW	SE	SSE	SSE	SE	ESE	SE	SSW	ENE	E	ENE	NE	NE	NE	NNE	NNE	NNE	55	NE
Nov 23	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	N	N	N	11	NNE
Nov 24	N	N	NNW	N	N	N	NNW	N	N	NNW	WSW	NNW	NW	S	SSW	SW	SW	W	NNW	NW	SW	WSW	W	WSW	306	NW
Nov 25	WSW	W	WSW	NW	N	NW	WNW	W	W	NW	WSW	S	S	SSW	SW	WSW	SW	WSW	W	SW	SW	SW	S	SSE	248	WSW
Nov 26	S	SW	WSW	WSW	SW	SW	SW	SW	W	WNW	W	SW	W	WNW	W	WNW	N	NNW	NW	NW	WNW	W	WNW	WNW	273	W
Nov 27	WNW	WNW	NW	NNW	N	N	N	NNW	NNW	NNW	NW	NNW	N	NNE	N	NE	NNE	NNE	NNE	NE	NE	NNE	NNE	NNE	1	N
Nov 28	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	NE	NE	ENE	NE	NE	NE	ENE	NE	NE	NE	NE	NE	NE	42	NE
Nov 29	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	N	N	N	NNW	36	NE
Nov 30	NNW	N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	NW	NW	NNW	NW	NNW	NNW	NNW	348	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 - November 2024

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	25.0	kph	on Nov 6 at hr 23	Hours in Service:	720
Maximum Daily Value:	16.9	kph	on Nov 6	Hours of Data:	720
Minimum Hourly Value:	0.1	kph	on Nov 24 at hr 9	Hours of Missing Data:	0
Minimum Daily Value:	2.5	kph	on Nov 25	Hours of Calibration:	0
Monthly Average:	7.5	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 334 degree (NNW)

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			
Nov 1	2.9	3.0	2.0	2.8	0.4	1.0	2.3	0.9	0.8	1.3	5.4	5.2	5.1	6.2	8.2	7.5	8.4	8.6	6.1	7.1	5.5	4.4	5.9	6.1	0.4	8.6	4.5
	SSW	W	NW	SSE	S	S	SE	S	ESE	NNE	N	N	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			20(NNE)
Nov 2	4.7	5.2	5.9	7.1	7.0	7.8	7.3	5.5	7.3	7.7	9.1	9.4	8.7	7.2	5.9	3.6	1.9	1.7	1.9	2.7	5.6	5.1	6.7	5.8	1.7	9.4	5.9
	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	ESE	ESE	SE	S	SW	WSW	WSW	SW			80(E)
Nov 3	5.3	2.4	1.7	0.9	1.2	1.7	0.6	0.8	2.5	2.9	6.2	7.3	8.7	11.0	10.2	7.5	4.8	5.3	6.2	5.6	9.1	9.1	8.3	10.4	0.6	11.0	5.4
	SW	S	S	WSW	NW	W	W	WSW	W	W	W	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WNW	W	W			260(WSW)
Nov 4	13.5	12.8	9.1	6.5	6.5	3.5	1.7	4.7	1.3	0.2	1.2	3.8	1.2	0.3	5.1	5.6	1.2	2.8	4.8	4.0	5.3	4.6	5.0	6.4	0.2	13.5	4.6
	W	WNW	WNW	SW	SW	WSW	WNW	WSW	SSW	W	S	SSW	SSE	ESE	N	N	N	NW	NNW	NNW	NW	NNW	NNW	NW			290(WNW)
Nov 5	7.4	7.9	7.3	7.5	7.1	8.7	9.6	10.0	9.8	10.1	12.9	14.1	10.7	7.6	8.7	5.7	8.4	6.5	5.9	6.5	7.6	7.6	7.9	6.8	5.7	14.1	8.4
	NNW	NW	NW	NW	W	W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	W	WSW	SSW	SW	SW	SW	SW	SW	SW	SW			270(W)
Nov 6	12.9	14.9	13.4	18.6	21.8	14.1	12.7	10.8	7.1	14.2	14.3	16.7	23.4	23.4	21.9	18.4	11.4	15.5	15.0	17.1	23.6	18.2	22.0	**25.0**	7.1	**25.0**	**16.9**
	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SW	WSW	WSW	W	WSW	WSW	WSW	SW	SSW	SW	SW	SW	SW	WSW	W	W			236(SW)
Nov 7	21.2	11.4	6.6	6.7	4.8	4.3	4.1	2.5	1.7	1.4	0.5	6.7	4.5	5.7	8.3	7.9	5.2	3.4	7.7	8.8	8.3	9.0	6.4	3.6	0.5	21.2	6.3
	WNW	NW	NNW	NW	N	NW	NNW	WSW	NNW	SW	ENE	SE	ESE	ESE	E	E	ESE	ESE	S	SSW	SSW	SW	WSW	WSW			250(WSW)
Nov 8	3.2	2.7	2.6	1.0	1.3	1.9	0.6	4.5	6.2	9.2	8.8	12.3	13.5	16.7	13.7	11.3	14.7	13.9	16.5	20.4	17.1	16.6	15.0	13.8	0.6	20.4	9.9
	WNW	NNW	NNW	SE	WNW	NW	N	SW	SW	SW	SW	WSW	WSW	W	W	W	W	WSW	W	W	W	W	W	W			272(W)
Nov 9	12.3	11.3	9.8	10.5	11.3	10.2	10.2	11.3	9.4	9.4	7.6	8.2	10.1	7.0	9.8	10.6	7.0	5.0	3.2	4.9	8.1	6.4	4.7	3.8	3.2	12.3	8.4
	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WSW	WSW	WSW	SSW	SSW	SW	SW	WSW	WSW	SW	WSW	NW	WSW			267(W)
Nov 10	4.1	3.5	4.7	5.2	5.0	9.6	3.2	2.3	2.7	2.4	3.2	5.6	4.0	2.9	5.1	3.4	3.8	4.0	5.7	7.3	4.5	3.8	4.3	6.1	2.3	9.6	4.4
	WNW	SW	SW	WSW	W	WNW	WNW	SSW	WSW	SW	S	SW	SSW	S	SE	SE	NE	NE	ENE	ENE	NE	ENE	NE	E			206(SSW)
Nov 11	5.3	4.6	5.0	6.6	6.3	6.3	7.1	6.2	7.8	6.4	6.8	7.7	6.9	6.4	5.8	5.0	6.2	6.0	5.9	2.7	2.0	3.8	9.1	11.7	2.0	11.7	6.2
	E	ENE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	NE	NE	NNE	NNE	NNE	NNE	NE	NNE	WNW	WSW	WSW	WSW			48(NE)
Nov 12	12.0	9.3	13.6	20.2	15.6	10.2	7.0	8.4	10.2	6.9	7.3	2.7	5.7	6.0	4.5	6.6	3.9	2.4	4.4	4.9	3.1	2.5	0.3	1.7	0.3	20.2	7.1
	WSW	WSW	W	W	WNW	W	W	W	W	WNW	W	W	SW	WSW	SW	SW	WSW	W	WNW	W	WSW	NW	WSW	N			271(W)
Nov 13	6.3	6.2	6.8	9.3	8.6	7.1	6.5	7.5	7.4	10.3	9.5	10.6	12.4	12.3	11.7	13.1	13.7	14.1	10.6	11.1	12.5	14.3	14.6	12.8	6.2	14.6	10.4
	ENE	NE	ENE	ENE	NE	ENE	NE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			35(NE)
Nov 14	12.7	13.0	10.9	10.0	9.4	9.1	8.0	8.0	6.4	4.9	5.5	3.7	2.2	1.7	1.6	2.2	1.6	3.5	4.1	4.3	2.4	0.8	1.1	0.2	0.2	13.0	5.3
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	N	SE	SSE	SSE	S	SSE	SSE	SSW	SSW	SW	NW	NW			20(NNE)
Nov 15	1.4	2.1	1.0	2.3	3.1	2.7	1.8	1.7	1.5	5.7	5.4	4.8	2.8	2.7	2.5	2.3	4.2	4.8	5.0	4.0	5.9	8.2	11.1	9.8	1.0	11.1	4.0
	NE	ENE	NE	NNW	NW	NW	NW	NNW	NW	SW	SSW	SSW	SSW	S	SSW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW			252(WSW)
Nov 16	8.1	7.8	5.8	8.1	5.8	9.0	4.5	8.9	14.4	16.5	13.9	13.1	12.0	9.1	10.8	10.8	8.8	7.4	9.4	13.3	8.1	8.2	7.0	6.4	4.5	16.5	9.5
	SW	SSW	SSW	S	SSW	SSW	S	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	S	SW	SW	SW	SW	SSW	S	S			201(SSW)
Nov 17	5.9	4.3	5.2	7.8	7.0	6.1	5.0	7.2	13.5	19.3	15.7	13.4	12.0	10.9	10.2	9.1	9.0	7.0	7.6	6.7	6.1	7.5	7.1	7.8	4.3	19.3	8.8
	SSE	SSE	S	SSW	SSW	SSW	SW	SW	W	W	WNW	NW	NNW	NNW	NW	NNW	N	N	NNE	NNE	N	N	NNE	NNE			310(NW)
Nov 18	8.7	7.3	5.9	6.6	7.7	9.5	9.1	8.5	6.8	7.3	6.7	6.1	6.8	5.5	6.4	8.9	7.8	6.2	7.1	7.2	7.7	9.1	10.1	11.2	5.5	11.2	7.7
	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	N	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE			26(NNE)
Nov 19	9.8	9.5	9.8	12.4	13.1	13.5	15.4	14.4	16.1	16.1	14.8	14.9	14.7	15.1	15.6	14.4	14.9	14.6	13.8	14.9	15.3	14.8	14.6	14.8	9.5	16.1	14.1
	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			15(NNE)
Nov 20	14.1	14.8	13.1	12.0	11.4	10.8	10.7	13.5	12.6	10.9	11.3	10.6	10.7	12.2	11.6	12.3	12.1	10.1	12.0	10.9	12.0	9.7	9.9	9.0	9.0	14.8	11.6
	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	NNE			30(NNE)
Nov 21	10.2	10.0	9.9	10.0	11.1	10.7	9.0	9.0	8.8	6.2	6.0	5.4	7.3	7.4	6.7	6.9	5.4	5.1	4.7	5.6	4.8	2.9	1.8	3.1	1.8	11.1	7.0
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	N	N	NNW	N	N	N	NNW	N	N	N	N	NNW	W			5(N)
Nov 22	3.0	1.4	1.5	2.6	2.6	2.7	1.1	0.5	1.4	2.9	1.5	2.4	1.7	2.6	1.3	2.1	5.7	7.6	5.9	7.5	6.5	8.6	9.1	10.2	0.5	10.2	3.9
	W	W	W	WNW	WNW	WNW	NW	WSW	SE	SSE	SSE	SE	ESE	SE	SSW	ENE	E	ENE	NE	NE	NE	NNE	NNE	NNE			55(NE)
Nov 23	10.7	13.8	11.9	10.1	11.6	14.0	12.6	15.0	14.9	15.3	14.9	14.7	13.6	15.8	14.5	14.2	13.8	13.2	14.4	13.2	13.8	12.3	11.8	11.0	10.1	15.8	13.4
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	N	N	N			11(NNE)
Nov 24	7.7	8.4	6.6	8.2	8.6	6.4	4.4	3.0	0.6	**0.1**	1.2	1.2	2.1	6.3	5.9	2.1	4.4	2.0	0.9	1.2	2.8	3.9	3.2	3.7	**0.1**	8.6	4.0
	N	N	NNW	N	N	N	NNW	N	N	NNW	WSW	NNW	NW	S	SSW	SW	SW	W	NNW	NW	SW	WSW	W	WSW			306(NW)
Nov 25	3.2	2.2	0.4	1.3	1.6	1.9	0.9	2.8	2.1	1.5	2.4	3.8	3.7	3.3	3.2	1.9	3.0	3.3	4.2	3.9	4.0	3.8	1.3	0.9	0.4	4.2	**2.5**
	WSW	W	WSW	NW	N	NW	WNW	W	W	NW	WSW	S	S	SSW	SW	WSW	SW	WSW	W	SW	SW	SW	S	SSE			248(WSW)
Nov 26	1.9	2.8	1.7	2.9	3.6	7.5	5.2	4.6	3.1	7.1	5.2	2.8	4.5	9.0	13.0	8.1	11.8	13.0	12.6	10.1	7.1	5.2	6.7	8.8	1.7	13.0	6.6
	S	SW	WSW	WSW	SW	SW	SW	SW	W	WNW	W	SW	W	WNW	W	WNW	N	NNW	NW	NW	WNW	W	WNW	WNW			273(W)
Nov 27	5.8	6.5	7.4	4.2	3.2	3.5	4.8	4.8	5.8	4.6	4.6	4.6	5.6	6.4	7.6	2.7	3.1	5.9	6.4	7.3	6.4	6.3	7.5	7.5	2.7	7.6	5.5
	WNW	WNW	NW	NNW	N	N	N	NNW	NNW	NNW	NW	NNW	N	NNE	N	NE	NNE	NNE	NNE	NE	NE	NNE	NNE	NNE			1(N)
Nov 28	8.1	6.5	8.6	4.1	7.2	6.6	9.0	7.3	5.9	5.5	6.2	7.4	8.9	9.0	8.7	8.3	10.8	10.5	10.9	11.7	12.2	10.6	9.2	9.1	4.1	12.2	8.4
	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NE	NE	NE	ENE	NE	NE	NE	ENE	NE	NE	NE	NE	NE	NE			42(NE)
Nov 29	10.3	10.7	11.6	8.8	9.2	10.3	10.2	10.5	11.3	10.9	12.3	11.3	12.0	11.6	11.5	9.7	8.2	7.5	8.2	8.1	7.3	6.7	8.1	7.0	6.7	12.3	9.7
	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	N	N	N	NNW			36(NE)
Nov 30	7.8	7.8	6.4	6.6	8.1	7.9	8.9	7.0	6.5	6.6	6.1	8.0	8.6	7.4	6.5	4.1	2.3	1.0	1.9	3.5	2.8	2.4	3.5	3.8	1.0	8.9	5.6
	NNW	N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	NW	NW	NNW	NW	NNW	NNW	NNW			348(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 November 2024 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

NOVEMBER 2024

Ambient Air Monitoring Calibration Report

- 842-B STATION-

CAL-PRAMP-202411-01561

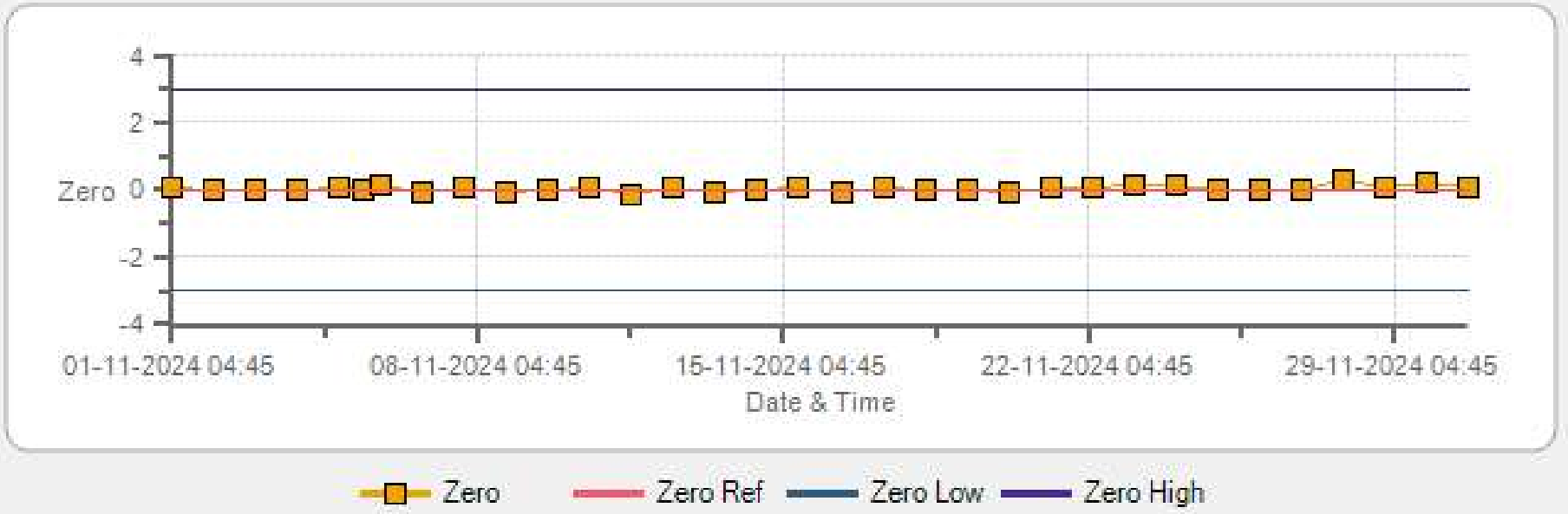
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

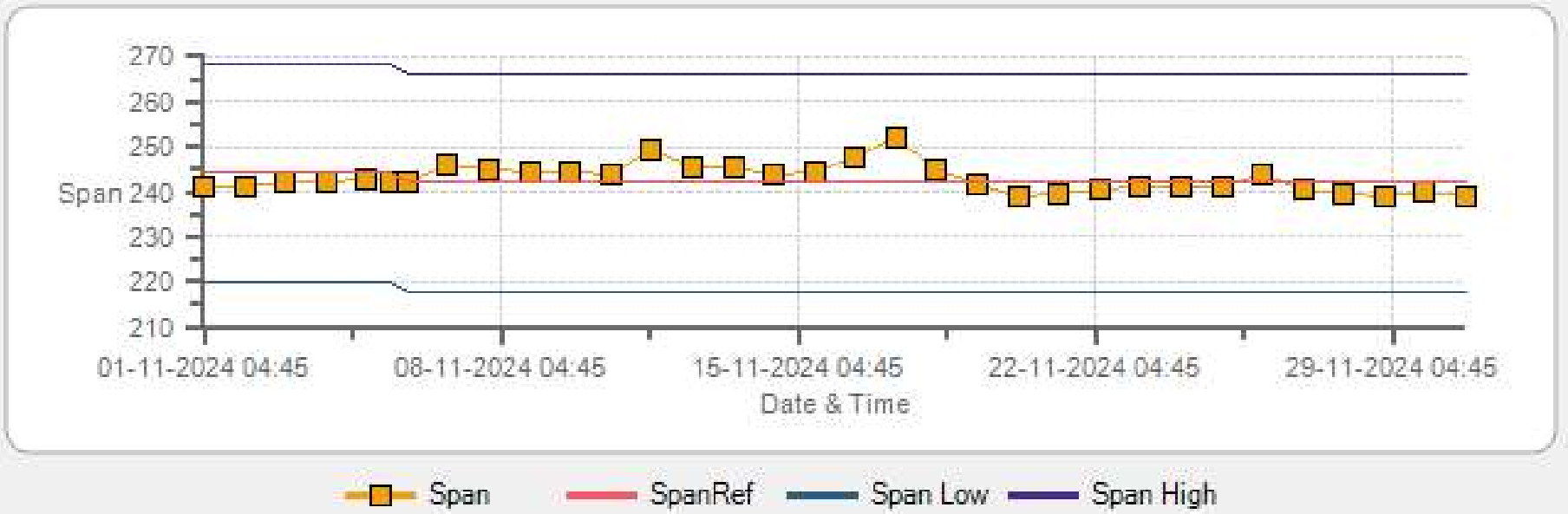
December 4, 2024

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

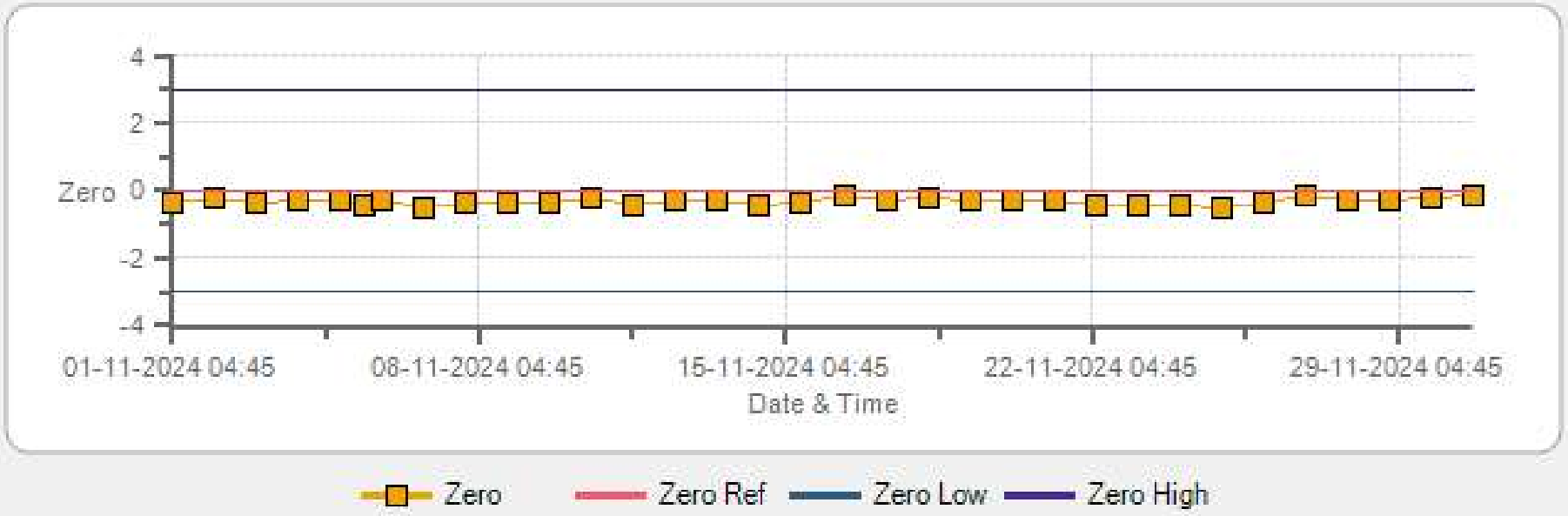
SO2[ppb] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Zero



SO2[ppb] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Span

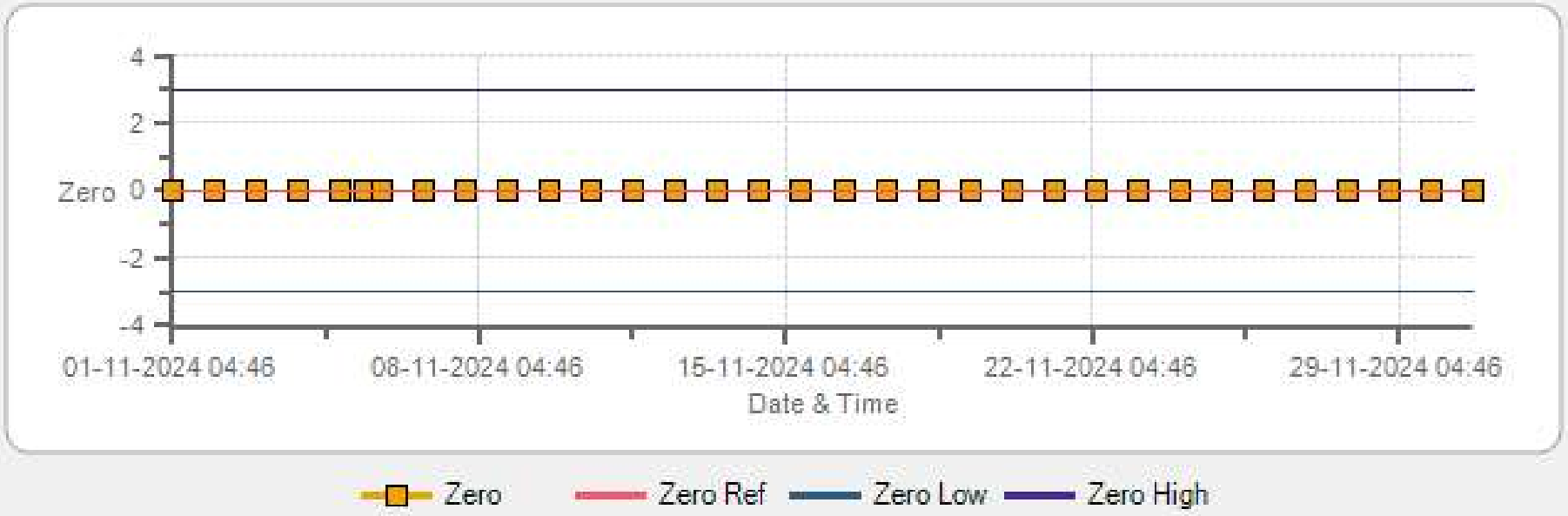


TRS[ppb] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Zero

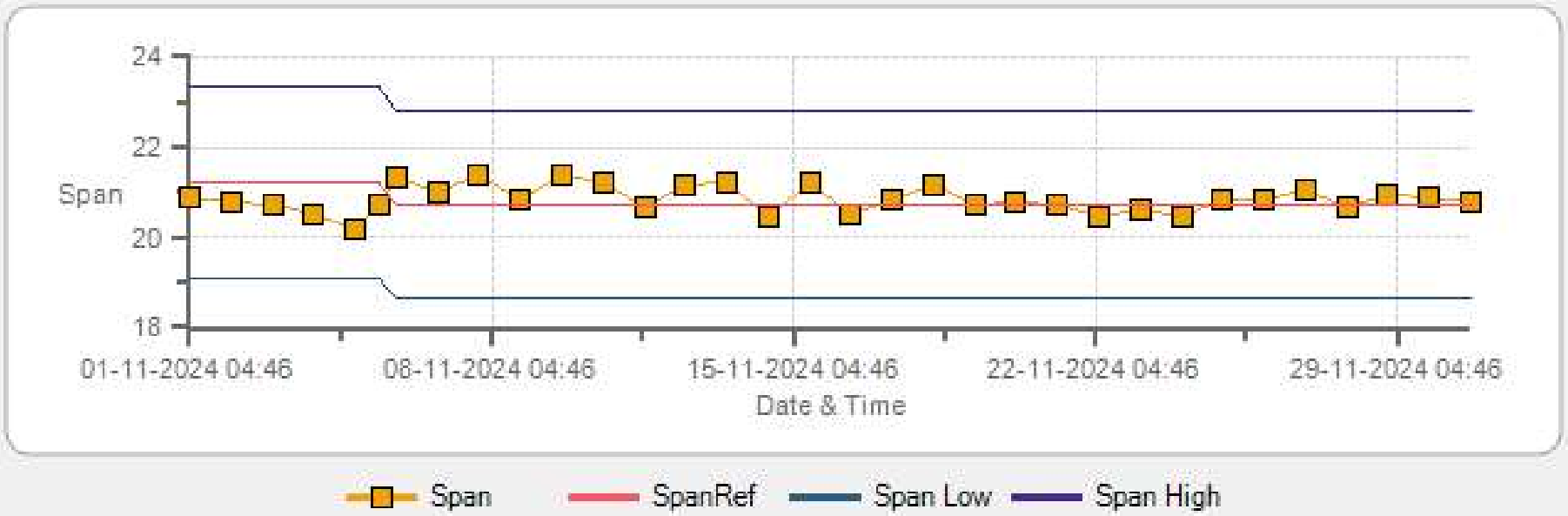


TRS[ppb] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Span

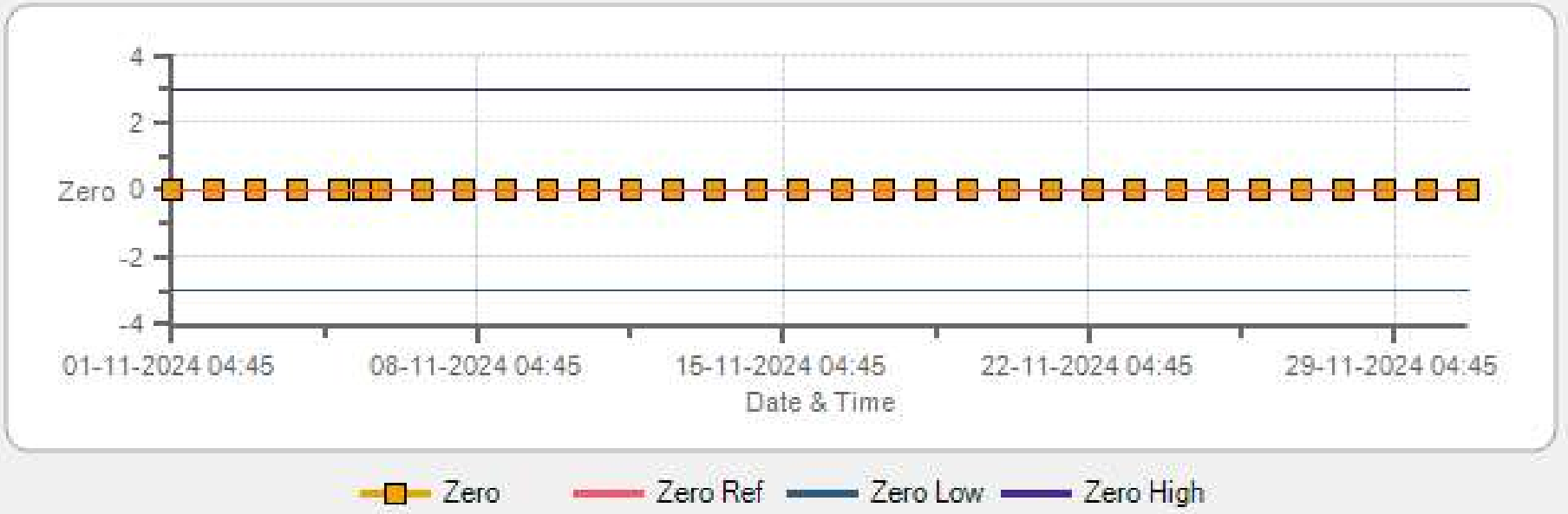
THC55[ppm] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Zero



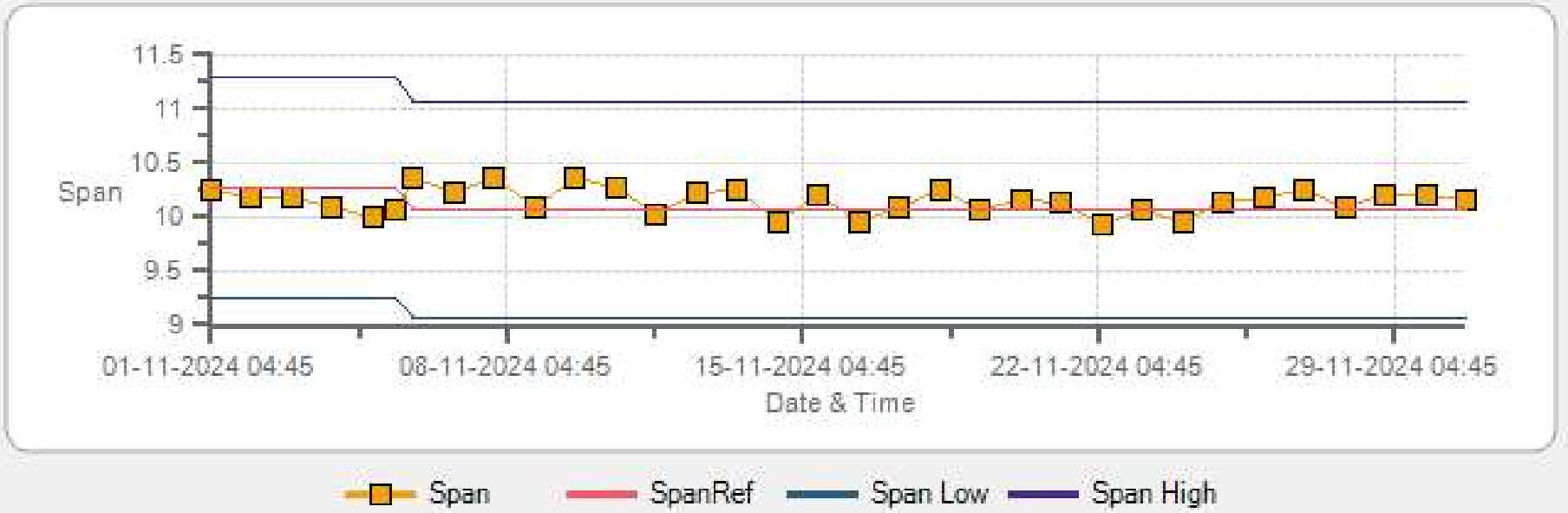
THC55[ppm] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Span



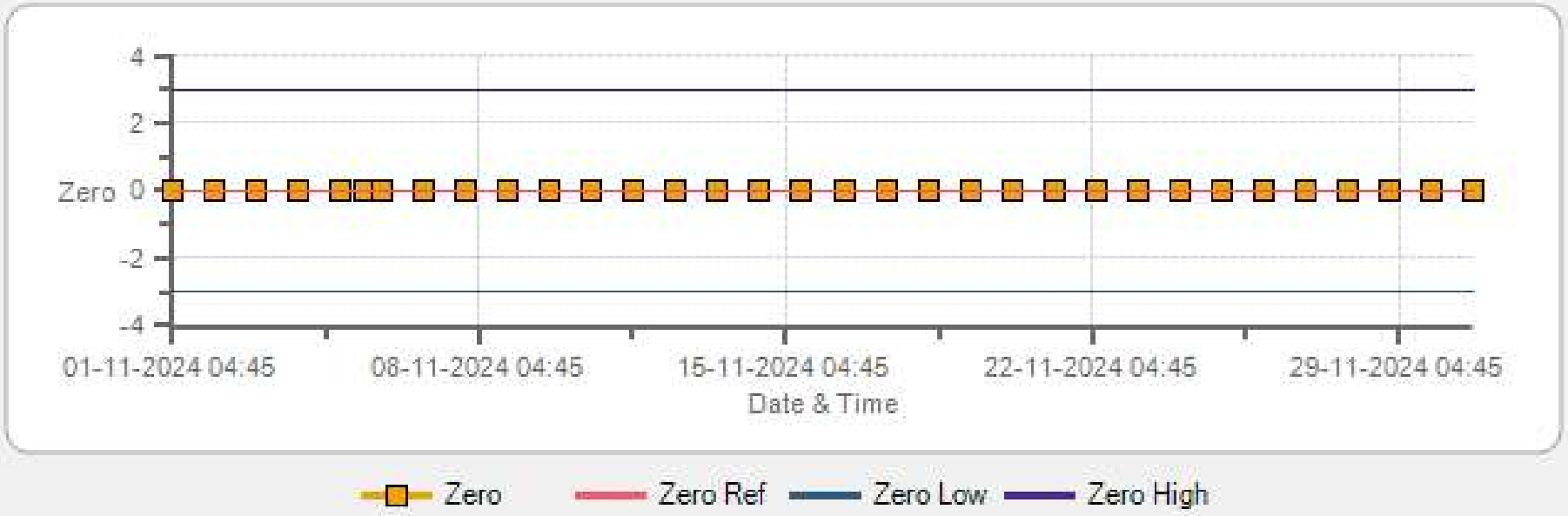
CH4[ppm] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Zero



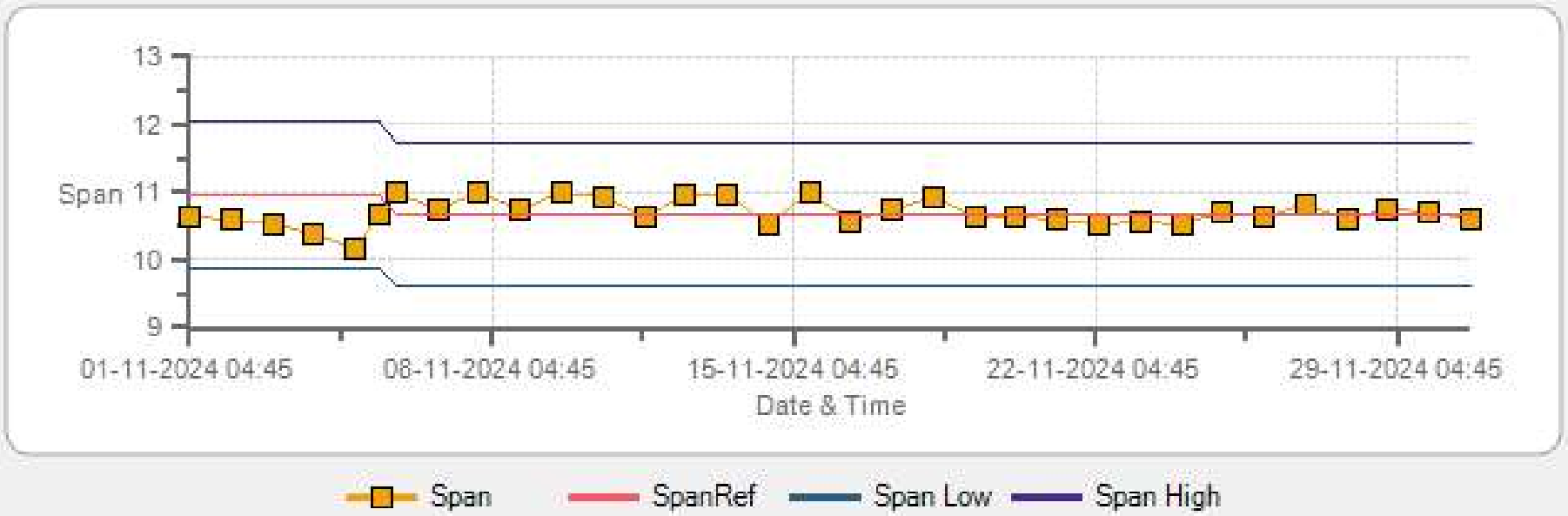
CH4[ppm] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 11-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	05-Nov-2024	PREVIOUS CALIBRATION DATE:	01-Oct-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.002
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	10:01
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:52

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	9	BKG/OFFSET	9
COEF/SLOPE	1.121	COEF/SLOPE	1.134
Expected (reference) Value	244.1	Expected (reference) Value	242.1

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	0		
3938	60.60	3999	380.36	375.4	381	1.013	0.998
3970	28.70	3999	180.14	n/a	182.6	n/a	0.987
3986	14.40	4000	90.36	n/a	91.2	n/a	0.991

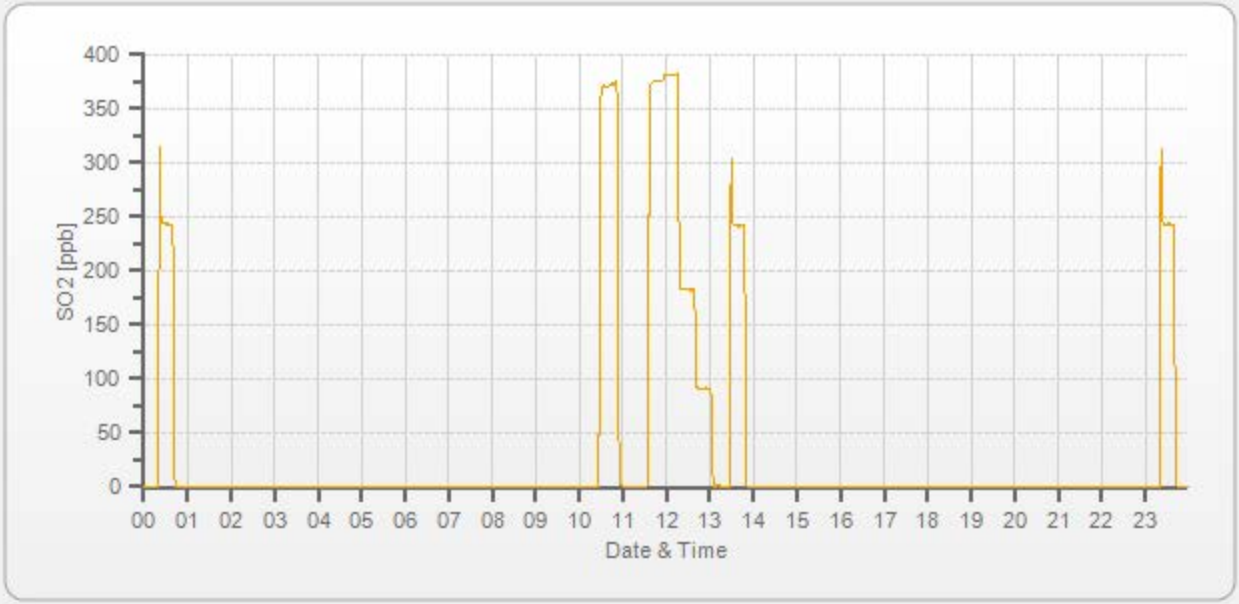
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.1%

COMMENTS:

Sample Filter Changed

Shaping a world of trust


SO2[ppb] Station: PRAMP 842-B Daily: 2024-11-05 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:	05-Nov-2024	PREVIOUS CALIBRATION DATE:	01-Oct-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	10:01
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:52

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	378
INITIAL		FINAL	
BKG/OFFSET	15.9	BKG/OFFSET	16.4
COEF/SLOPE	0.957	COEF/SLOPE	0.948
Expected (reference) Value	50.27	Expected (reference) Value	49.5

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	-0.17	0		
3968	30.90	3999	77.96	77.35	78.01	1.006	0.999
3984	15.10	3999	38.10	n/a	37.92	n/a	1.005
3993	7.50	4000	18.92	n/a	19.21	n/a	0.985

LINEAR REGRESSION ANALYSIS:

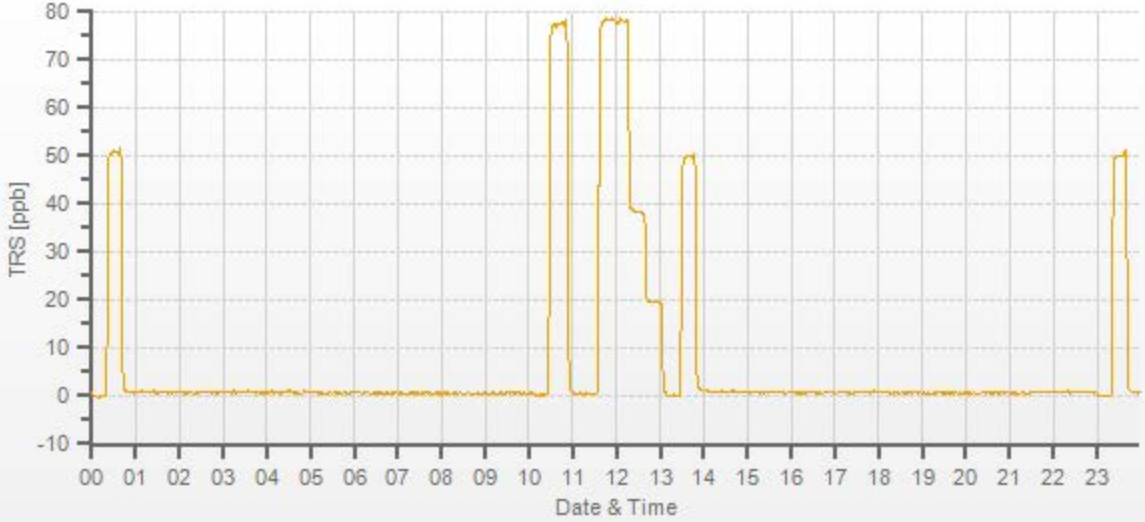
	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample Filter Changed
TRS Converter CDNOVA CDN #552

Shaping a World of Trust

TRS[ppb] Station: PRAMP 842-B Daily: 2024-11-05 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	05-Nov-2024	PREVIOUS CALIBRATION DATE:	11-Oct-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	23.7
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	10:01
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:52

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12208316589	1092
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	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?	Yes

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.27	10.96	21.23		10.07	10.67	20.73

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	14.50	12.92	27.42	14.55	13.42	27.97	1.004	1.040	1.021	1.000	1.001	1.001
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
3488	14.20	3502	3.64	3.36	6.99	n/a	n/a	n/a	3.66	3.39	7.06	n/a	n/a	n/a	0.994	0.990	0.991

LINEAR REGRESSION ANALYSIS:

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

Comments:

Sample filter changed

Station: PRAMP 842-B Daily: 2024-11-05 Type: AVG 1 Min. [1 Min.]

Meteorological System Checklist

Date:	November 5, 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

PRECIPITATION SENSOR CHECK

Checklist:	**Reply:**	**Comments:**
Previous check date:	October 1, 2024	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	test time-13:31-13:35
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:	October 1, 2024
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 181341226 expires July 24, 2025
Reference Temperature (^{o}C):	1.0
Station - Ambient Temperature (^{o}C):	0.8
Temperature Difference (^{o}C):	0.2

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	October 1, 2024	
Reference Barometer ID:	Brunton 05535 Expires July 24,2025	
Reference Pressure - Units/Reading:	millibar	945
Station Pressure - Units/Reading:	millibar	945
Pressure Tolerance +/- 15% of error:	803 - 1087	0.00%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	October 1, 2024	
Reference Hygrometer ID:	F.S. 181341226 expires July 24, 2025	
Reference Hygrometer % RH- Reading:	65.10	
Station Hygrometer % RH- Reading:	69.20	
RH Tolerance +/- 15% of difference:	55.34 - 74.87	-6.3%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	7.2	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass

Comments

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

NOVEMBER 2024

Ambient Air Monitoring Calibration Report

- 986-C STATION-

CAL-PRAMP-202411-01562

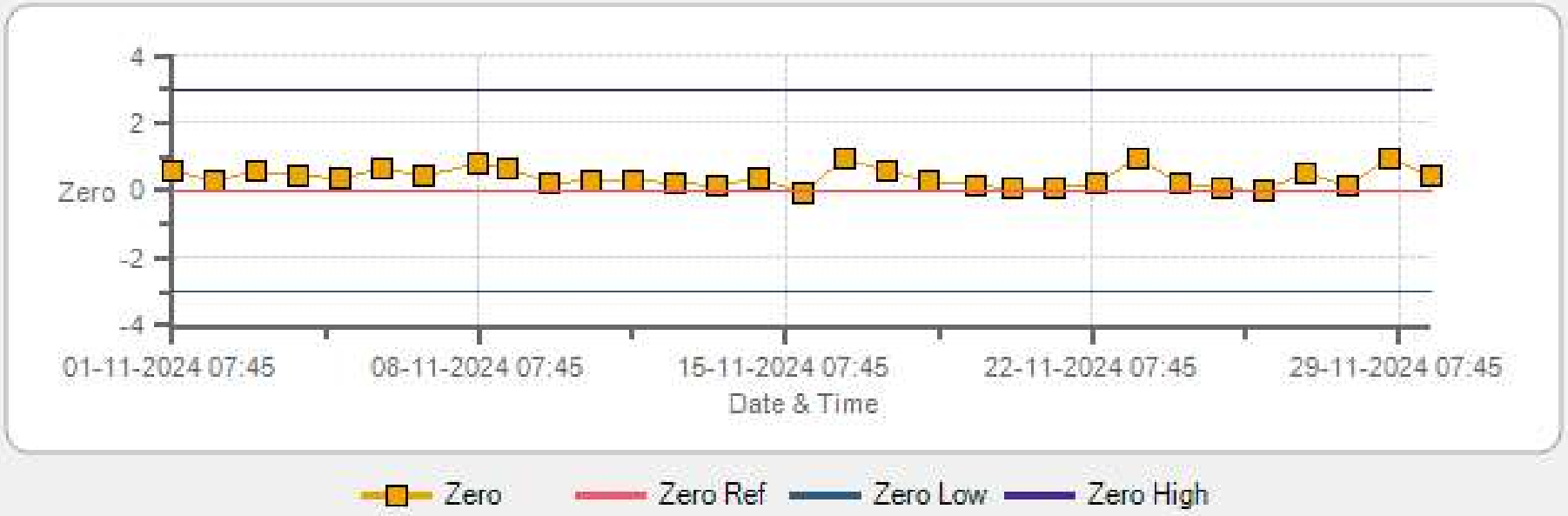
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

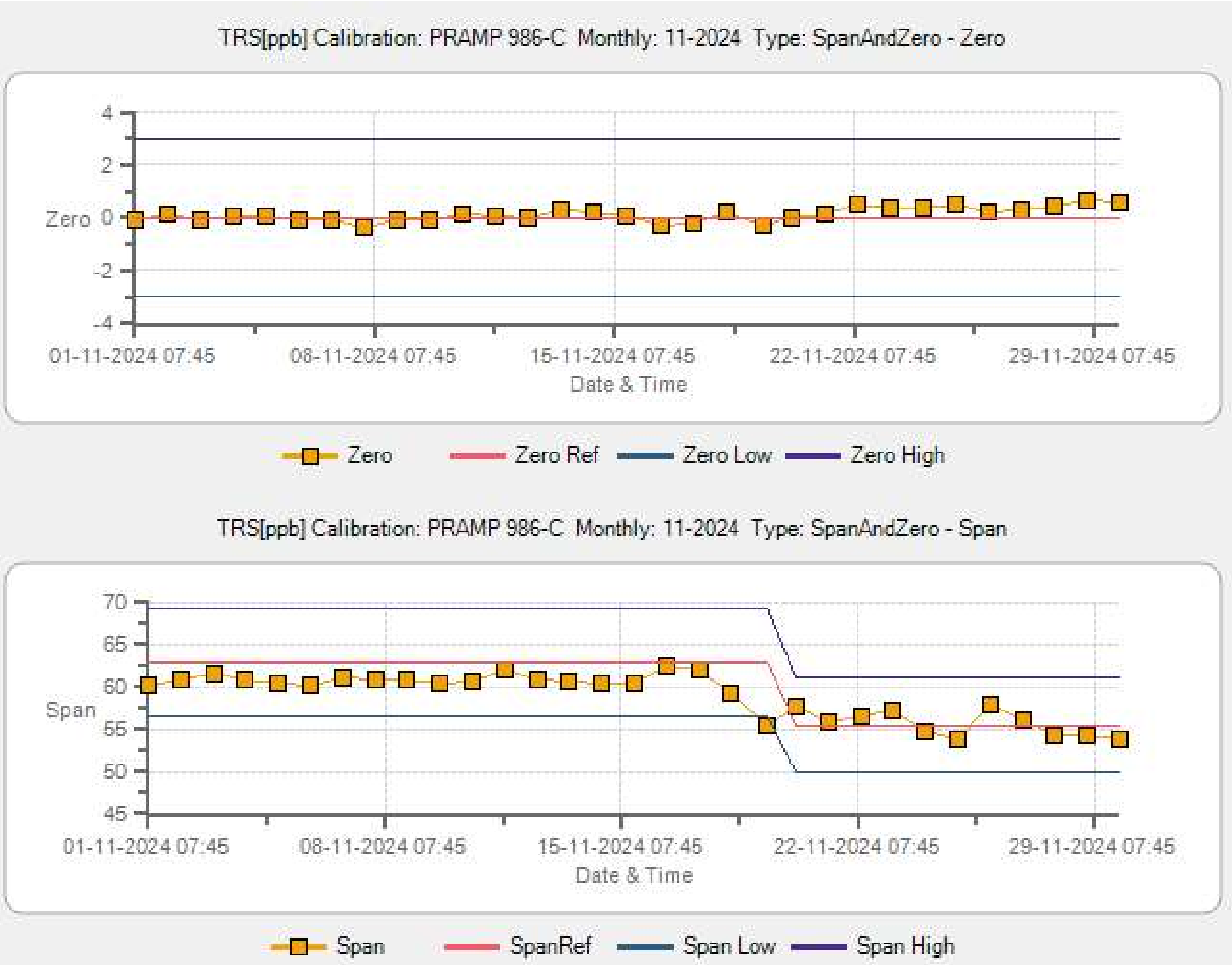
December 4, 2024

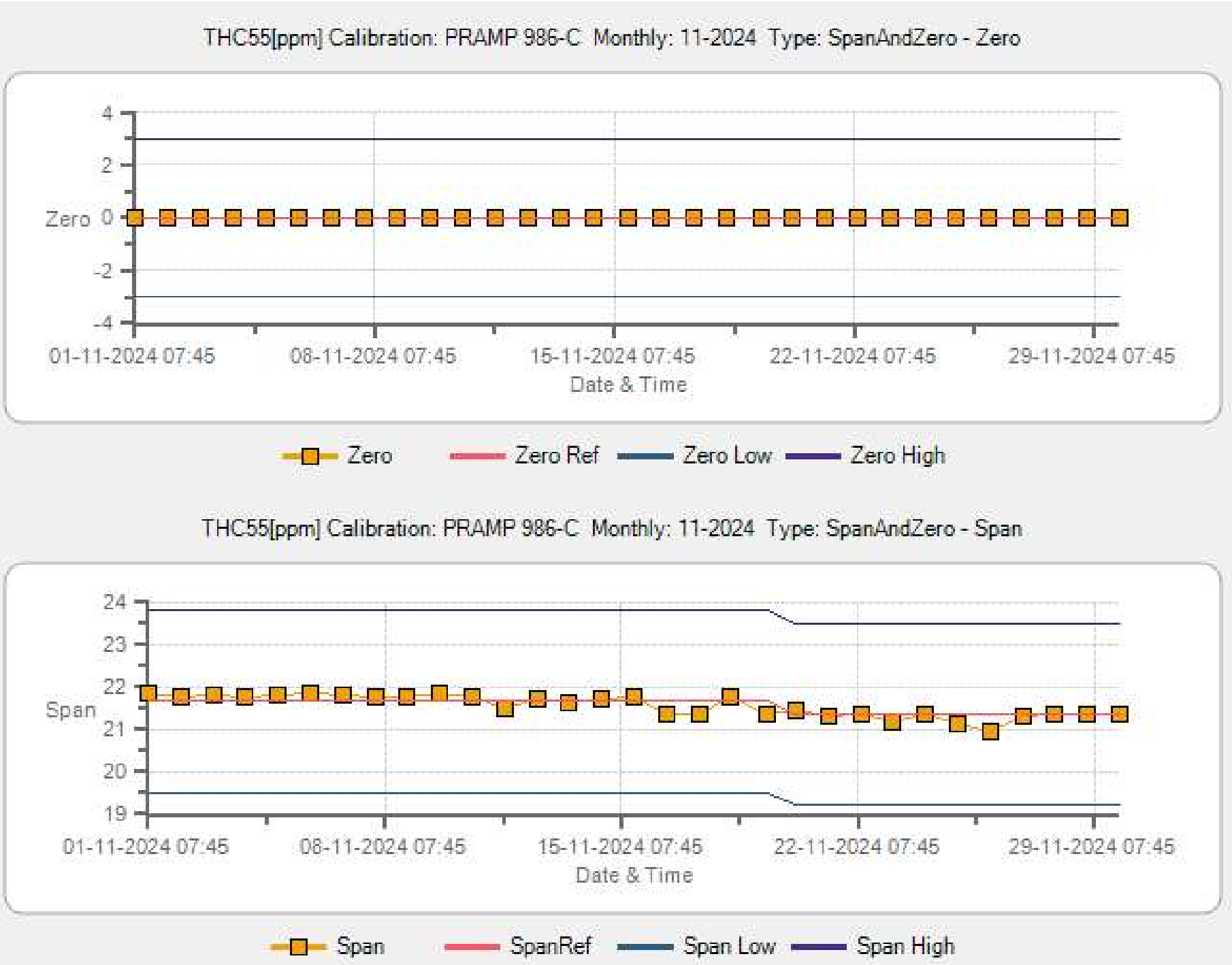
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Zero

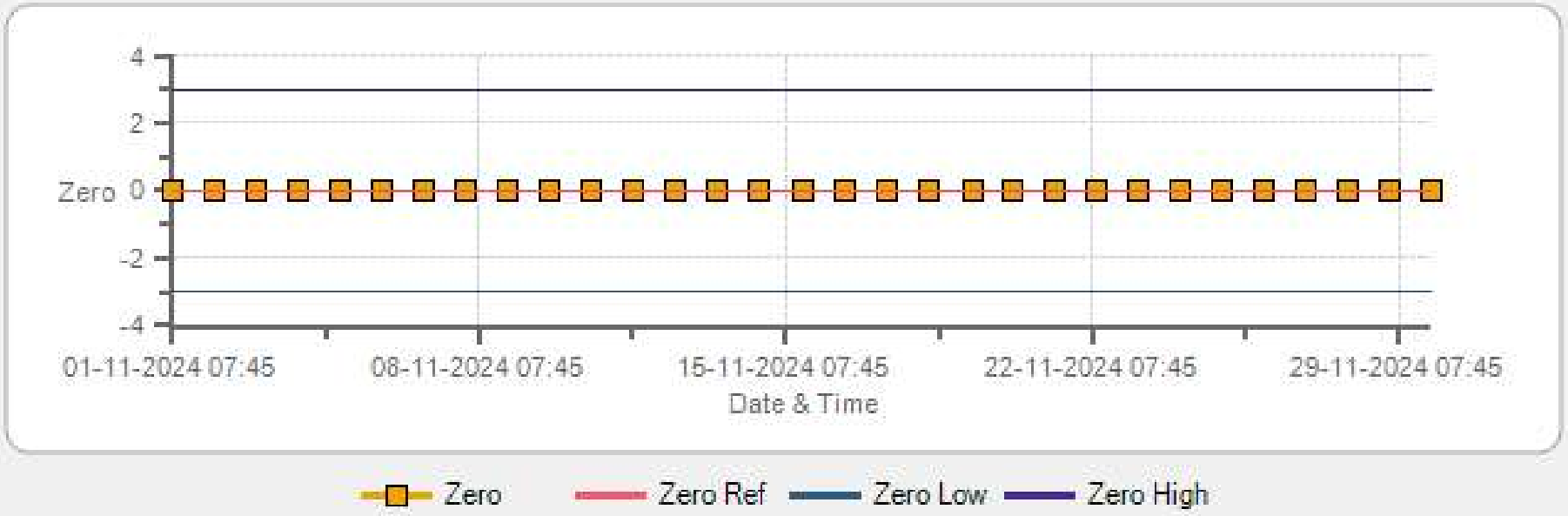


SO2[ppb] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Span

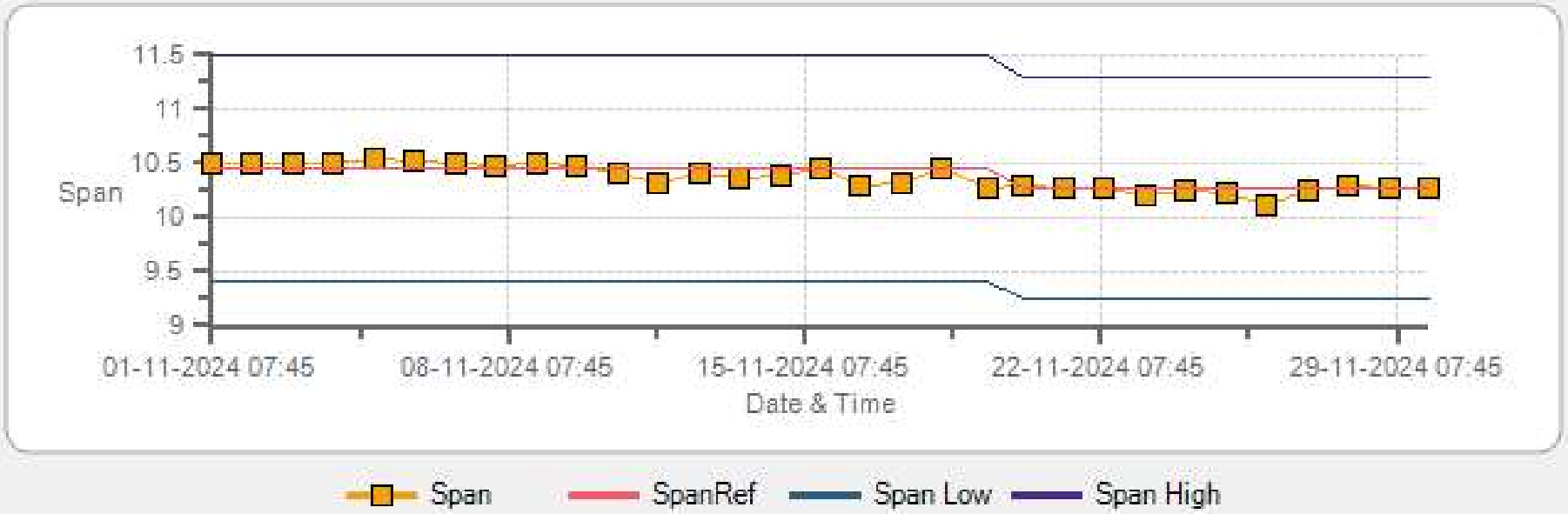

TRS[ppb] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
01-11-2024 07:45
08-11-2024 07:45
15-11-2024 07:45
22-11-2024 07:45
29-11-2024 07:45
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Span
70
65
60
Span
55
50
45
01-11-2024 07:45
08-11-2024 07:45
15-11-2024 07:45
22-11-2024 07:45
29-11-2024 07:45
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
01-11-2024 07:45
08-11-2024 07:45
15-11-2024 07:45
22-11-2024 07:45
29-11-2024 07:45
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Span
24
23
22
Span
21
20
19
01-11-2024 07:45
08-11-2024 07:45
15-11-2024 07:45
22-11-2024 07:45
29-11-2024 07:45
Date & Time
Span
SpanRef
Span Low
Span High

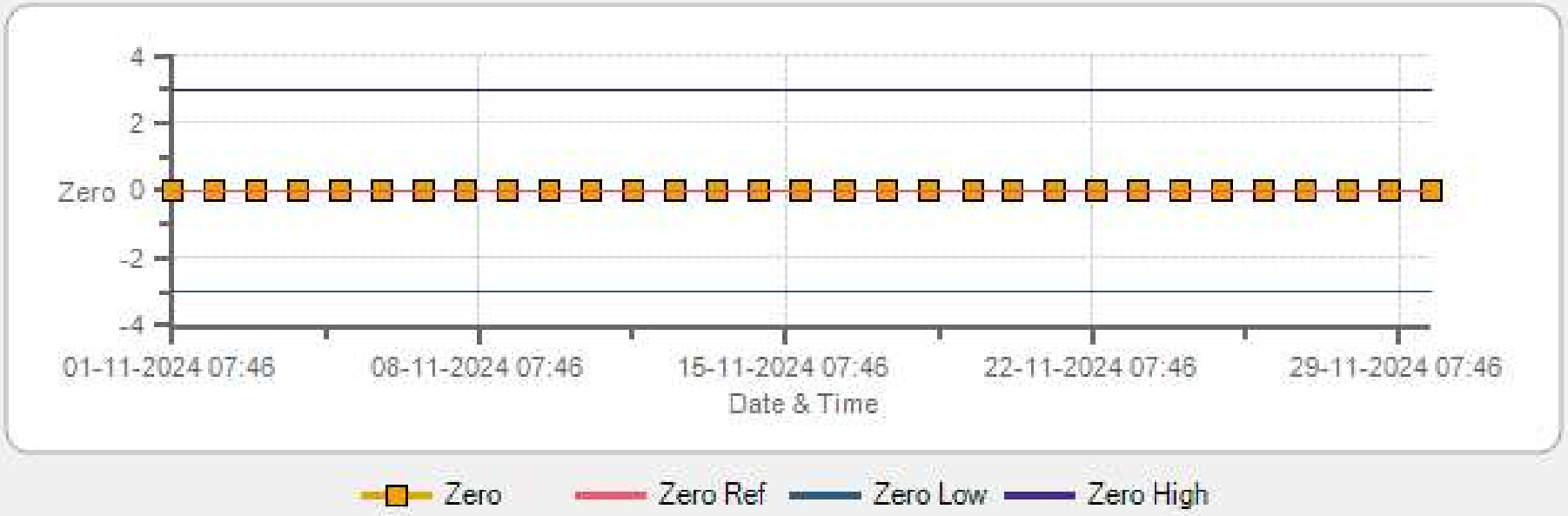
CH4[ppm] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Zero



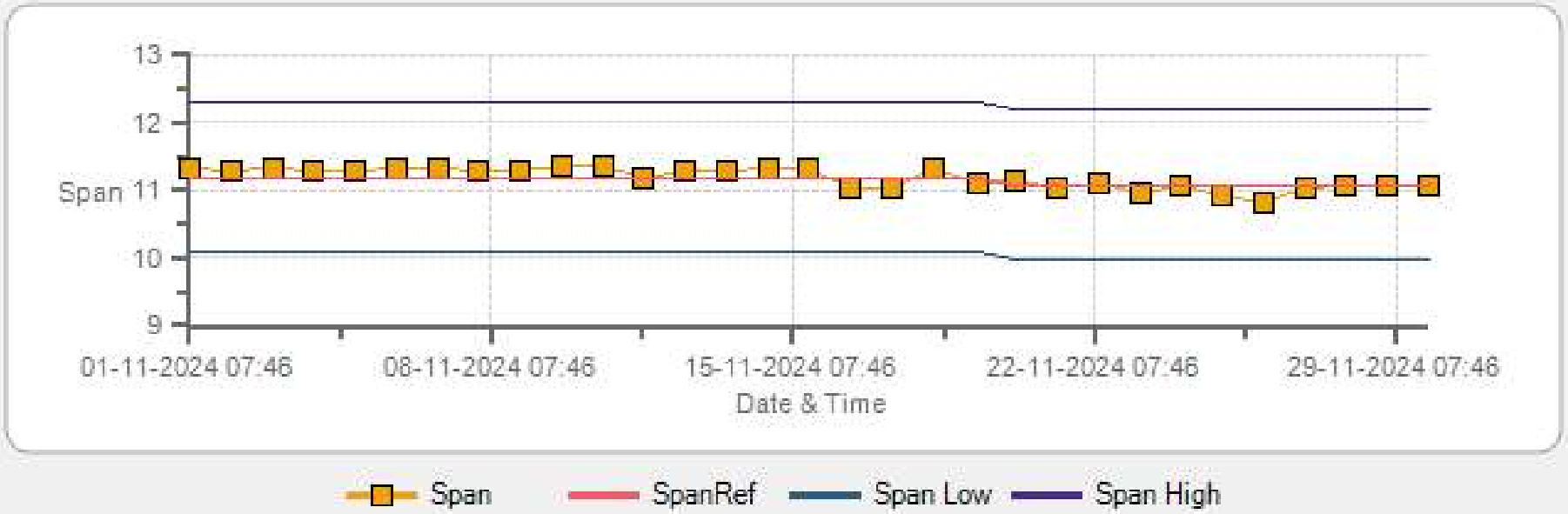
CH4[ppm] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 11-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	19-Nov-2024	PREVIOUS CALIBRATION DATE:	16-Oct-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.002
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	986C	BAROMETRIC (mBar):	951
PURPOSE	Routine	START TIME (MST):	10:44
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:26

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	434
INITIAL		FINAL	
BKG/OFFSET	20	BKG/OFFSET	19.9
COEF/SLOPE	1.028	COEF/SLOPE	1.026
Expected (reference) Value	347.1	Expected (reference) Value	329.7

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	377.9	380.9	1.007	0.998
3972	28.70	4001	180.05	n/a	182.7	n/a	0.985
3992	14.40	4006	90.22	n/a	91	n/a	0.991

LINEAR REGRESSION ANALYSIS:

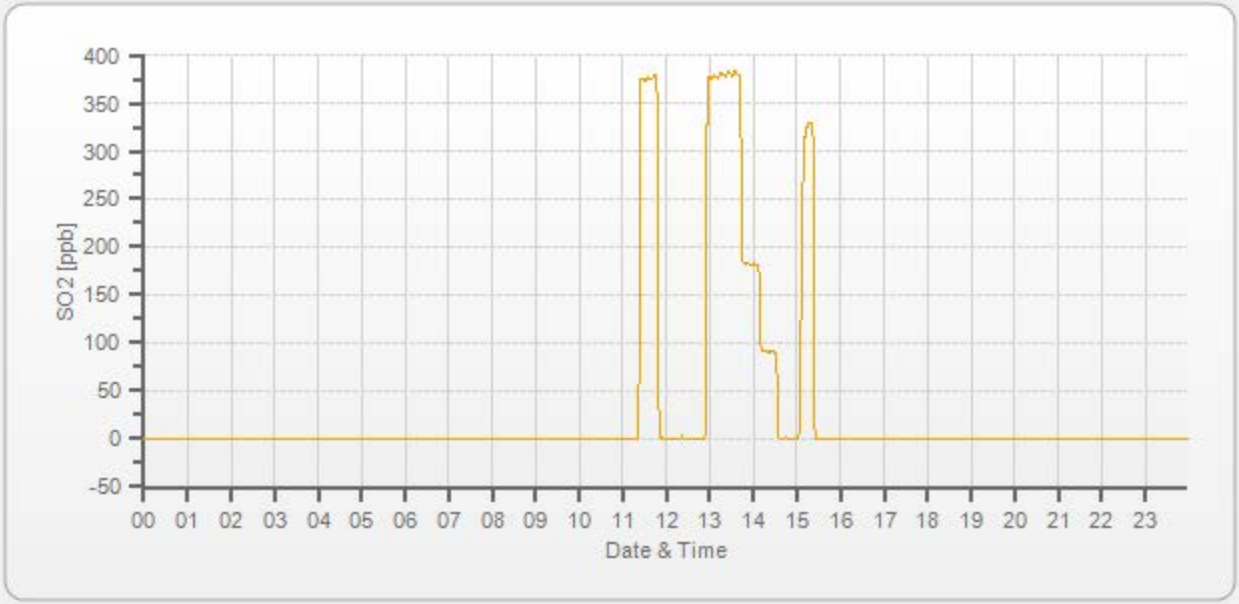
	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.2%

COMMENTS:

Sample Filter Changed
12:00-12:20 = Daily ZS. Adjusted zero restarts

Shaping a world of trust

SO2[ppb] Station: PRAMP 986-C Daily: 2024-11-19 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	19-Nov-2024	PREVIOUS CALIBRATION DATE:	16-Oct-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	986C	BAROMETRIC (mBar):	951
PURPOSE	Routine	START TIME (MST):	10:43
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:26

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	18.9	BKG/OFFSET	19.2
COEF/SLOPE	1.065	COEF/SLOPE	1.078
Expected (reference) Value	62.96	Expected (reference) Value	55.52

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		
3999		3999	0.00	0.06	0		
3969	30.90	4000	77.95	76.74	77.79	1.017	1.002
3986	15.10	4001	38.08	n/a	38.35	n/a	0.993
3992	7.50	3999	18.92	n/a	19.13	n/a	0.989

LINEAR REGRESSION ANALYSIS:

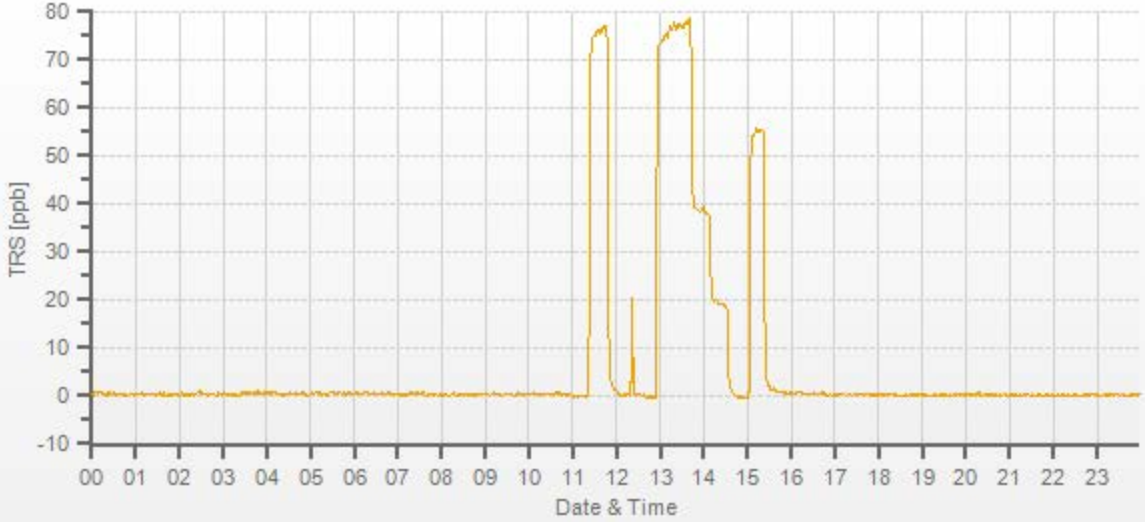
	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.997	0.2%

COMMENTS:

Sample Filter Changed
12:00-12:20 = Daily ZS. Adjusted zero restarts

Shaping a World of Trust

TRS[ppb] Station: PRAMP 986-C Daily: 2024-11-19 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	19-Nov-2024	PREVIOUS CALIBRATION DATE:	16-Oct-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	986C	BAROMETRIC (mBar):	951
PURPOSE	Routine	START TIME (MST):	10:44
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:03

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1022143392	1008
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
	10.45	11.20	21.66		10.27	11.09	21.36

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	14.51	13.64	28.15	14.58	13.42	28.00	1.003	0.985	0.994	0.998	1.001	1.000
3473	28.40	3501	7.28	6.71	13.99	n/a	n/a	n/a	7.33	6.69	14.01	n/a	n/a	n/a	0.993	1.004	0.999
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.67	3.33	7.00	n/a	n/a	n/a	0.991	1.008	0.999

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	0.1%
NMHC	1.000	0.999	-0.1%
THC	1.000	1.000	0.0%

Comments:

Sample Filter Changed
12:00-12:20 = Daily ZS. Adjusted zero restart

Station: PRAMP 986-C Daily: 2024-11-19 Type: AVG 1 Min. [1 Min.]

Meteorological System Checklist

Date:	November 19, 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:	October 16, 2024	Tested:14:17-14:29
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:	October 16, 2024	
Parameter:	Temperature @ 2 metres	
Reference Thermometer ID:	F.S. 181341226 expires July 24, 2025	
Reference Temperature (^{o}C):	-12.5	
Station - Ambient Temperature (^{o}C):	-12.9	
Temperature Difference (^{o}C):	0.4	

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	October 16, 2024	
Reference Barometer ID:	Brunton 05535 Expires July 24,2025	
Reference Pressure - Units/Reading:	millibar	954
Station Pressure - Units/Reading:	millibar	954.3
Pressure Tolerance +/- 15% of error:	811 - 1097	-0.03%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	October 16, 2024	
Reference Hygrometer ID:	F.S. 181341226 expires July 24, 2025	
Reference Hygrometer % RH- Reading:	89.10	
Station Hygrometer % RH- Reading:	91.60	
RH Tolerance +/- 15% of difference:	75.74 - 102.47	-2.8%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	September 18, 2024	Previous check date:	September 18, 2024
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	NE
Wind speed on Data Logger (kph):	19.7	Wind Direction on Data Logger:	NE
		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

NOVEMBER 2024

Ambient Air Monitoring Calibration Report

- RENO-B STATION-

CAL-PRAMP-202411-01563

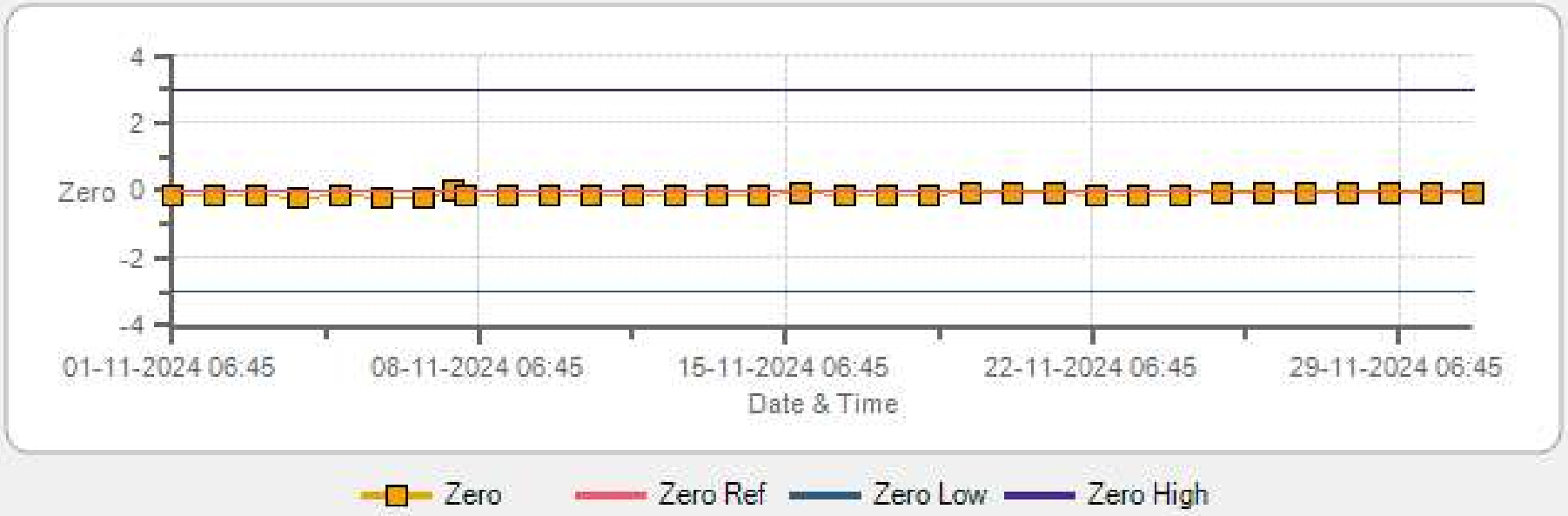
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

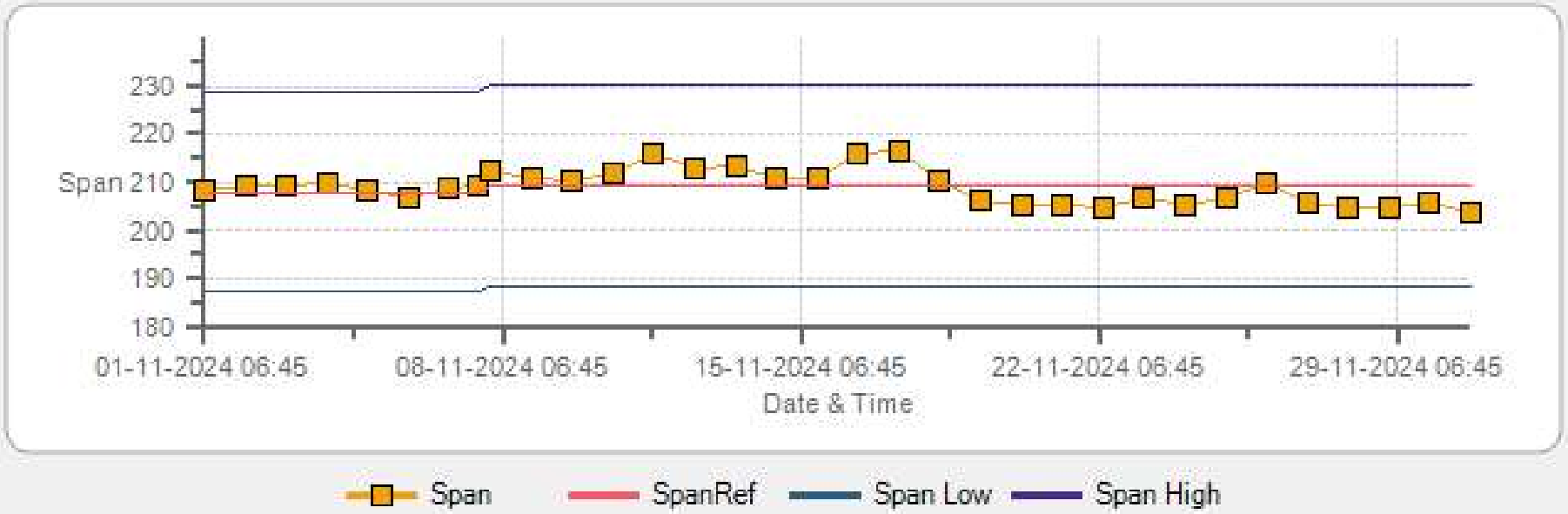
December 4, 2024

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

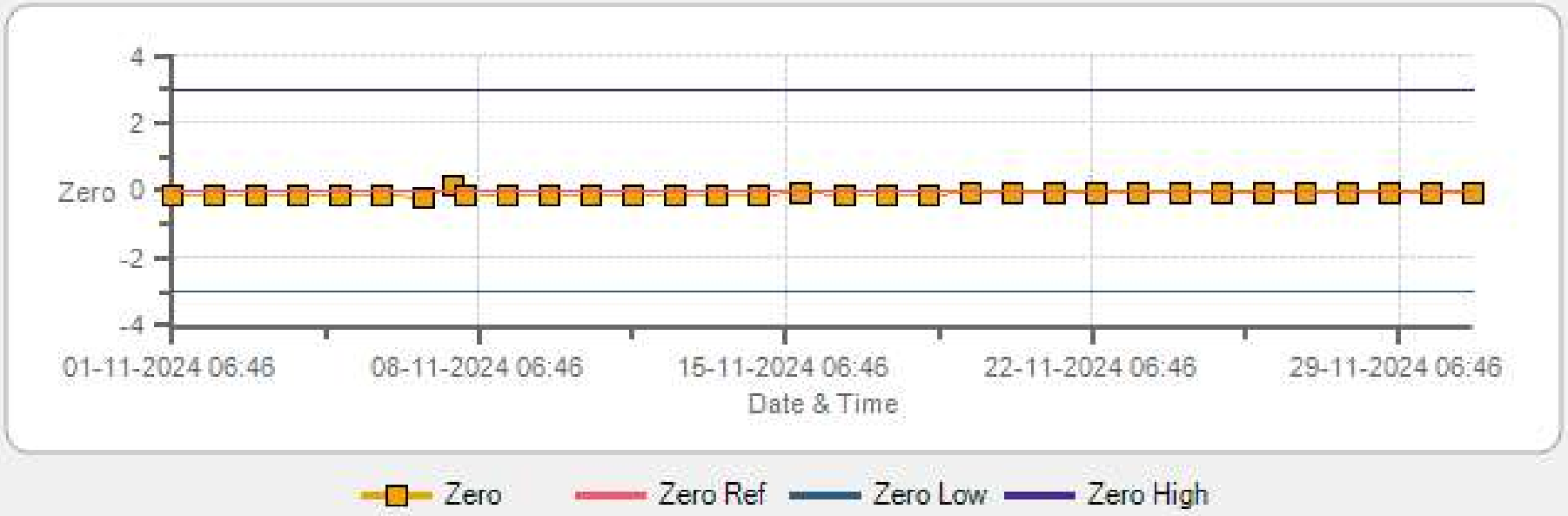
SO2[ppb] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Zero



SO2[ppb] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Span

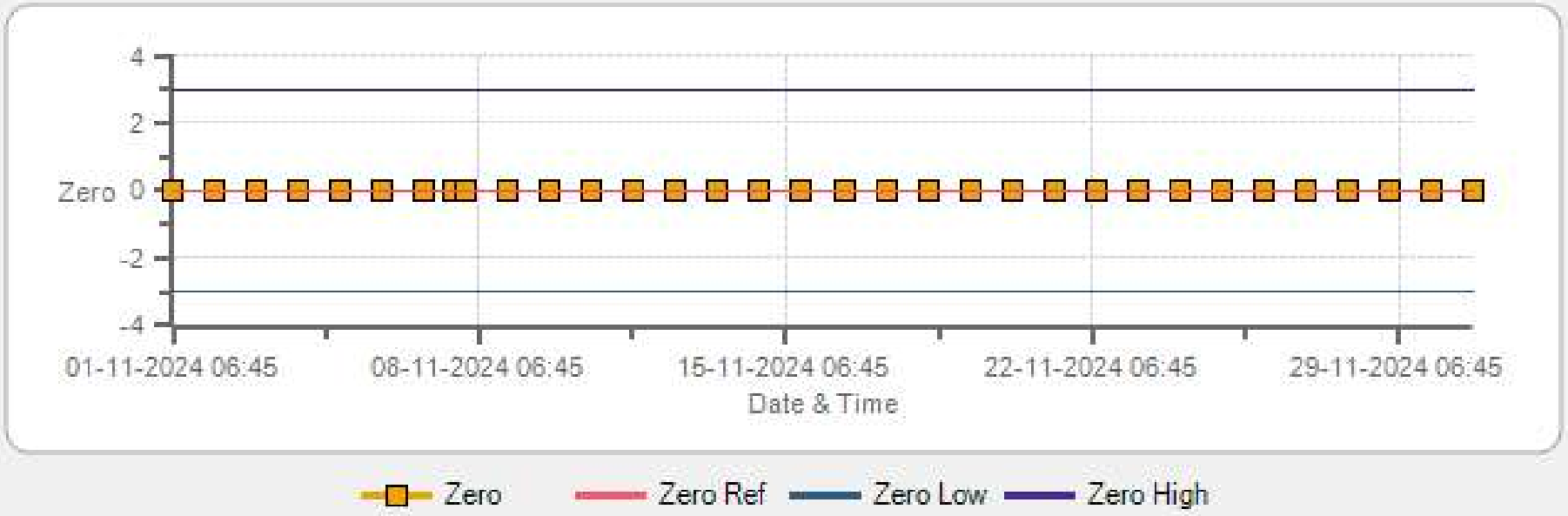


TRS[ppb] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Zero

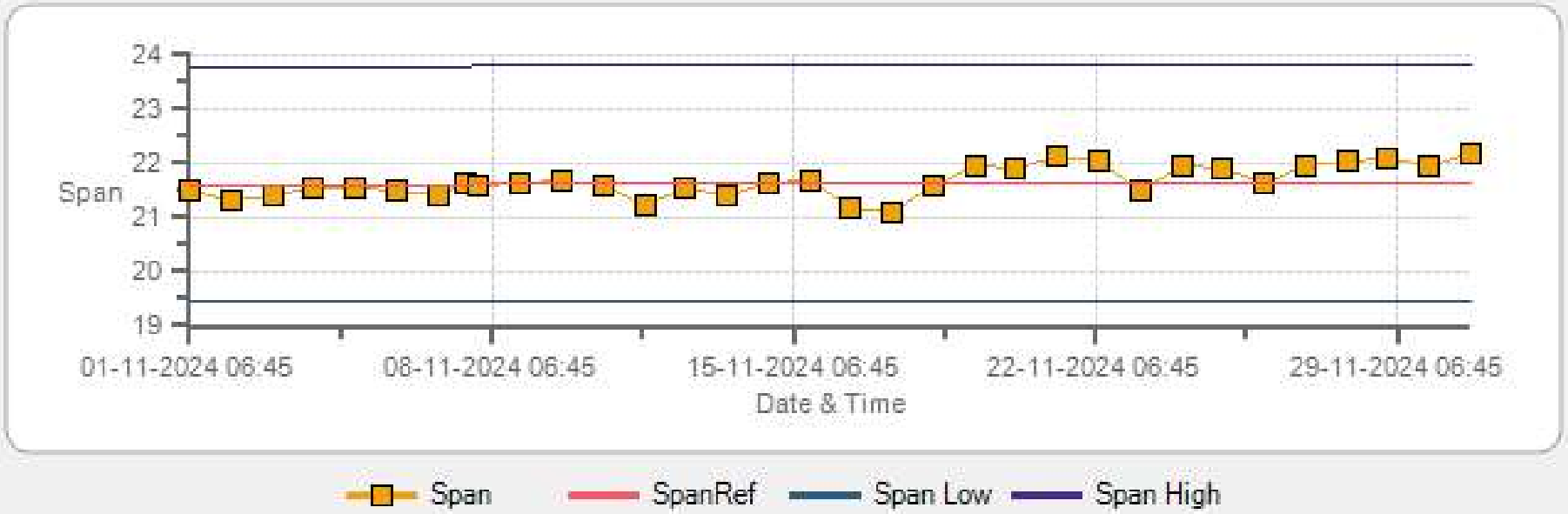


TRS[ppb] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Span

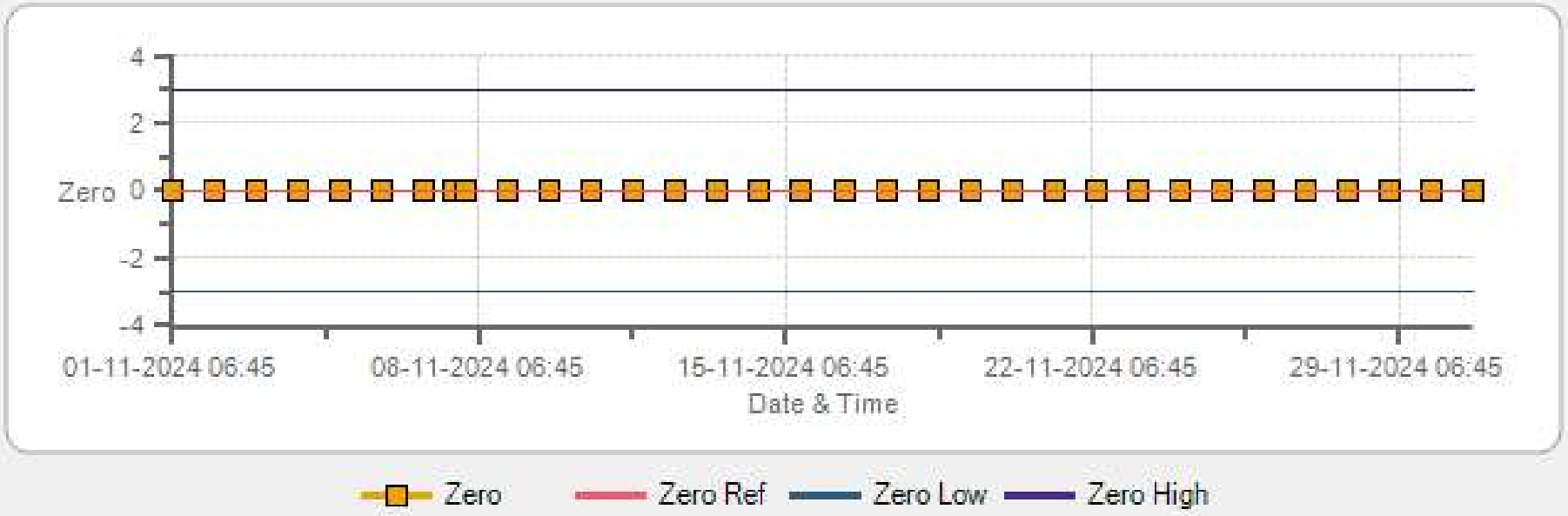
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Zero



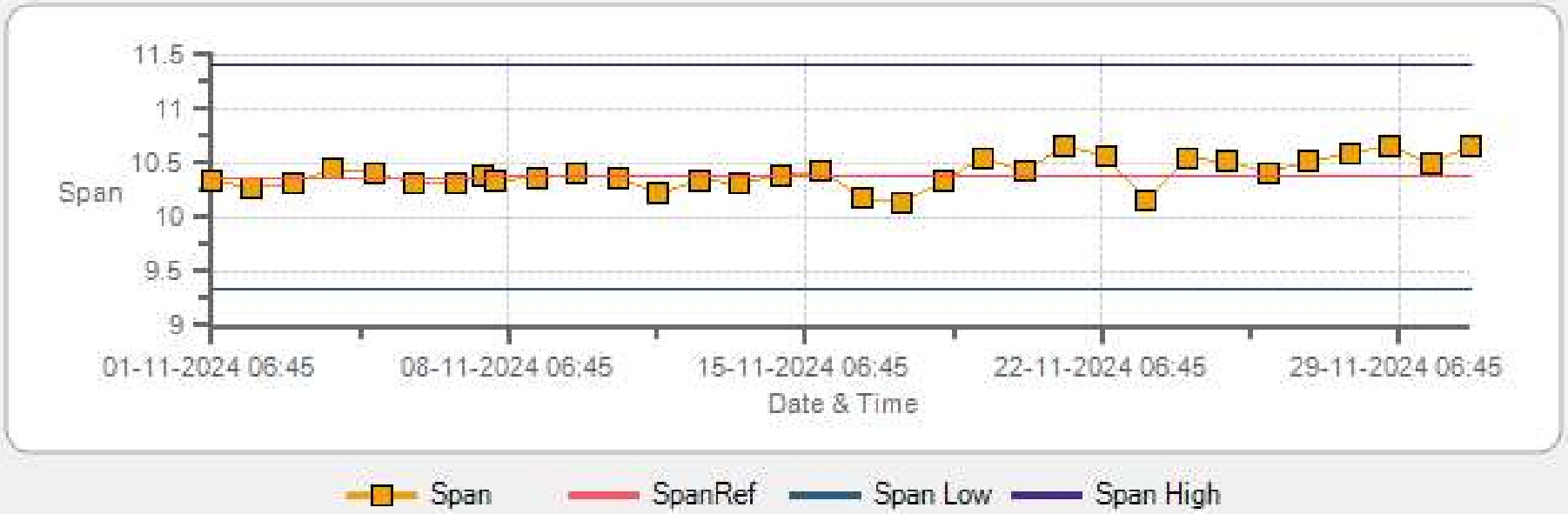
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Span



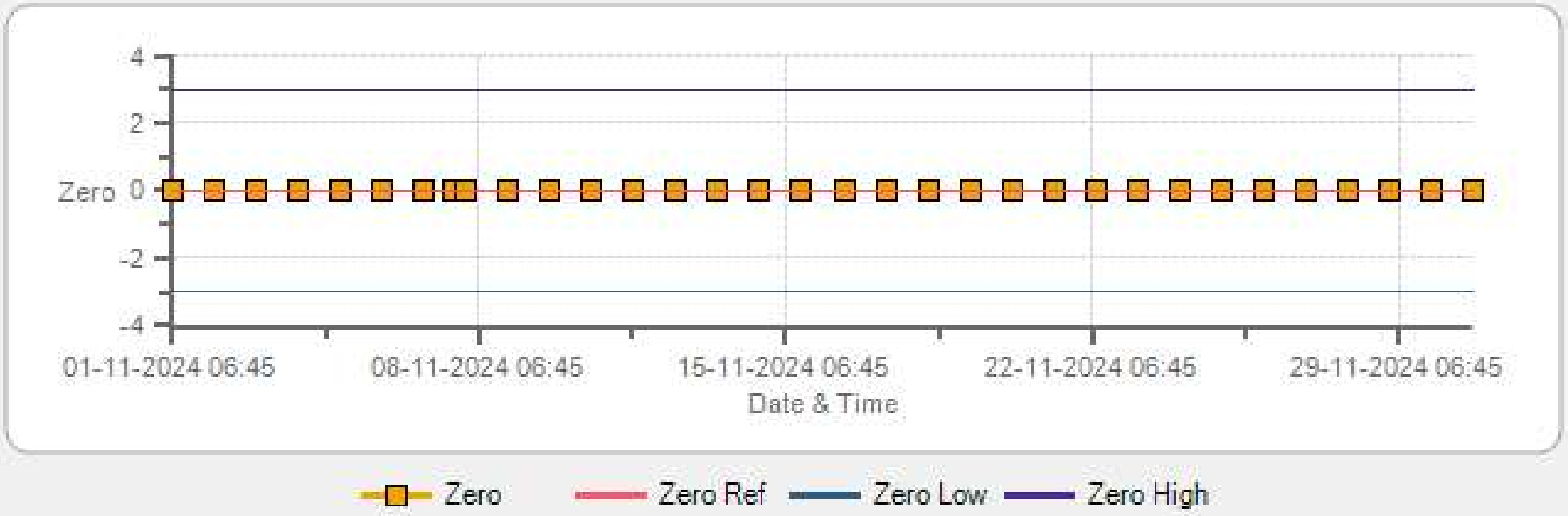
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Zero



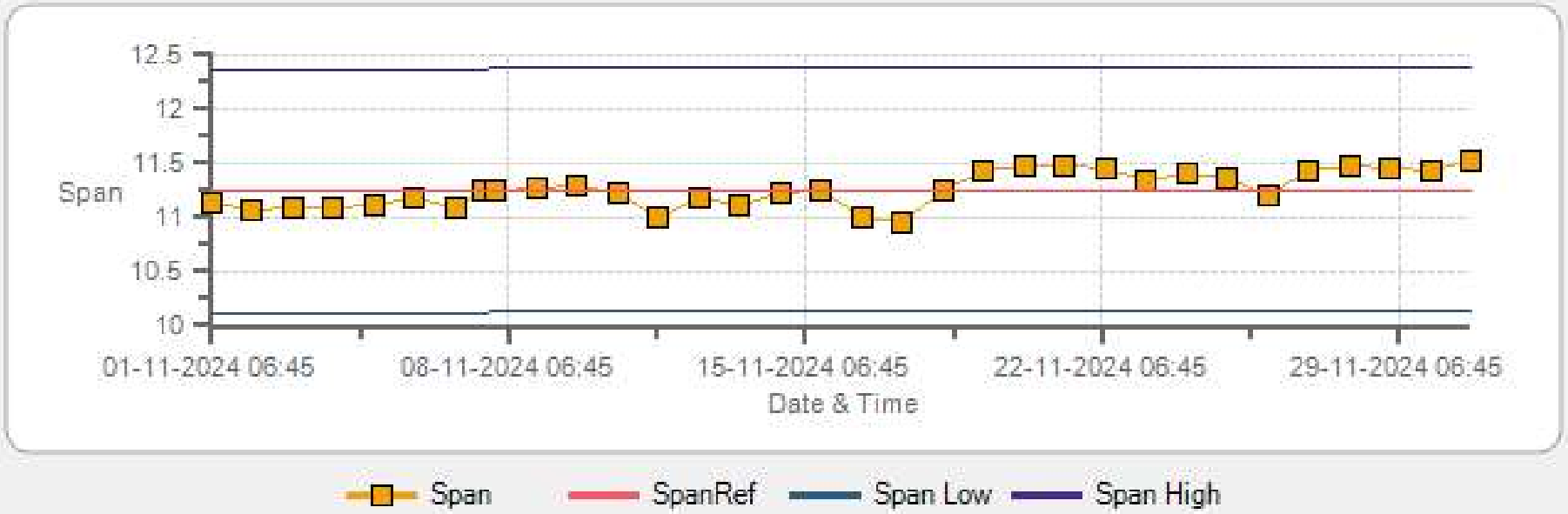
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 11-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	07-Nov-2024	PREVIOUS CALIBRATION DATE:	03-Oct-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Reno-B	BAROMETRIC (mBar):	939
PURPOSE	Routine	START TIME (MST):	12:41
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	16:48

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	436
INITIAL		FINAL	
BKG/OFFSET	1.38	BKG/OFFSET	1.37
COEF/SLOPE	0.884	COEF/SLOPE	0.891
Expected (reference) Value	207.7	Expected (reference) Value	209.3

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		
3998		3998	0.00	0	0		
3939	60.60	4000	380.27	374.5	380.9	1.015	0.998
3971	28.70	4000	180.09	n/a	182.2	n/a	0.988
3985	14.40	3999	90.38	n/a	90.7	n/a	0.997

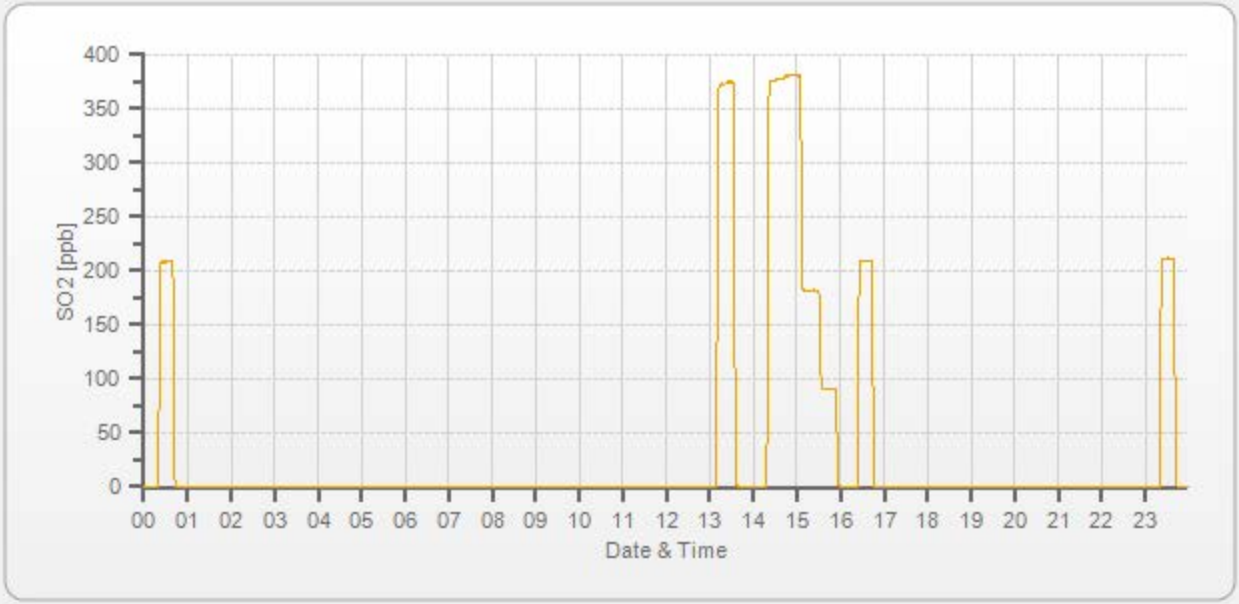
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.1%

COMMENTS:

Sample filter changed

SO2[ppb] Station: PRAMP RENO-B Daily: 2024-11-07 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	07-Nov-2024	PREVIOUS CALIBRATION DATE:	03-Oct-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Reno-B	BAROMETRIC (mBar):	939
PURPOSE	Routine	START TIME (MST):	12:41
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	16:48

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	387
INITIAL		FINAL	
BKG/OFFSET	1.23	BKG/OFFSET	1.19
COEF/SLOPE	0.919	COEF/SLOPE	0.929
Expected (reference) Value	38.46	Expected (reference) Value	38.32

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		
3998		3998	0.00	-0.1	0		
3969	30.90	4000	77.95	76.97	78.15	1.011	0.997
3985	15.10	4000	38.09	n/a	38.09	n/a	1.000
3992	7.50	3999	18.92	n/a	19.27	n/a	0.982

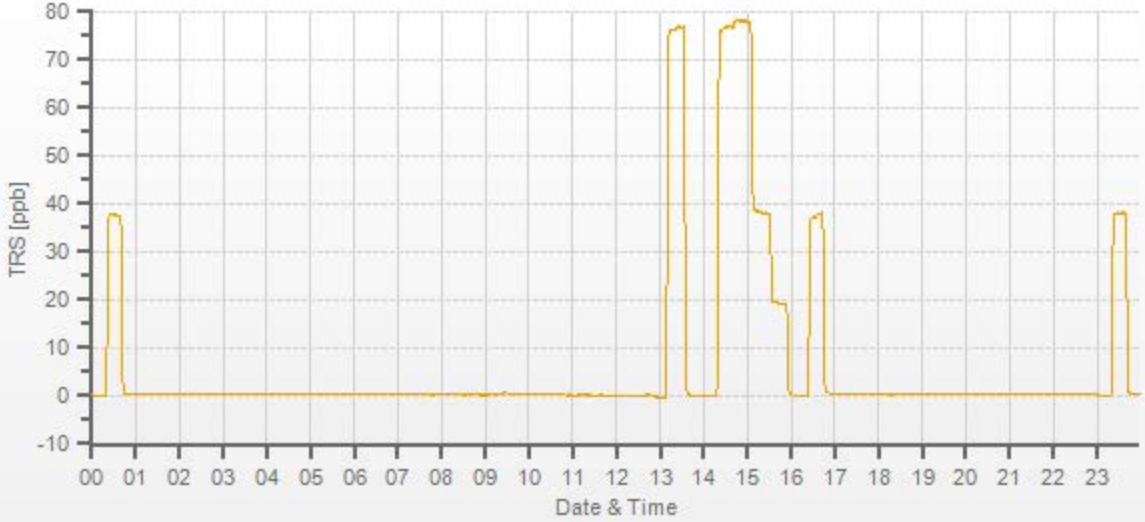
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.1%

COMMENTS:

Sample filter changed

TRS[ppb] Station: PRAMP RENO-B Daily: 2024-11-07 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	07-Nov-2024	PREVIOUS CALIBRATION DATE:	03-Oct-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Reno-B	BAROMETRIC (mBar):	939
PURPOSE	Routine	START TIME (MST):	12:41
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	16:38

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1193585652	1033
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	1.002	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?	Yes

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.37	11.24	21.61		10.38	11.26	21.64

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	14.66	13.28	27.93	14.55	13.42	27.97	0.993	1.012	1.002	1.000	1.001	1.001
3472	28.40	3500	7.28	6.72	14.00	n/a	n/a	n/a	7.22	6.72	13.94	n/a	n/a	n/a	1.008	0.999	1.004
3487	14.20	3501	3.64	3.36	7.00	n/a	n/a	n/a	3.62	3.36	6.98	n/a	n/a	n/a	1.005	0.999	1.002

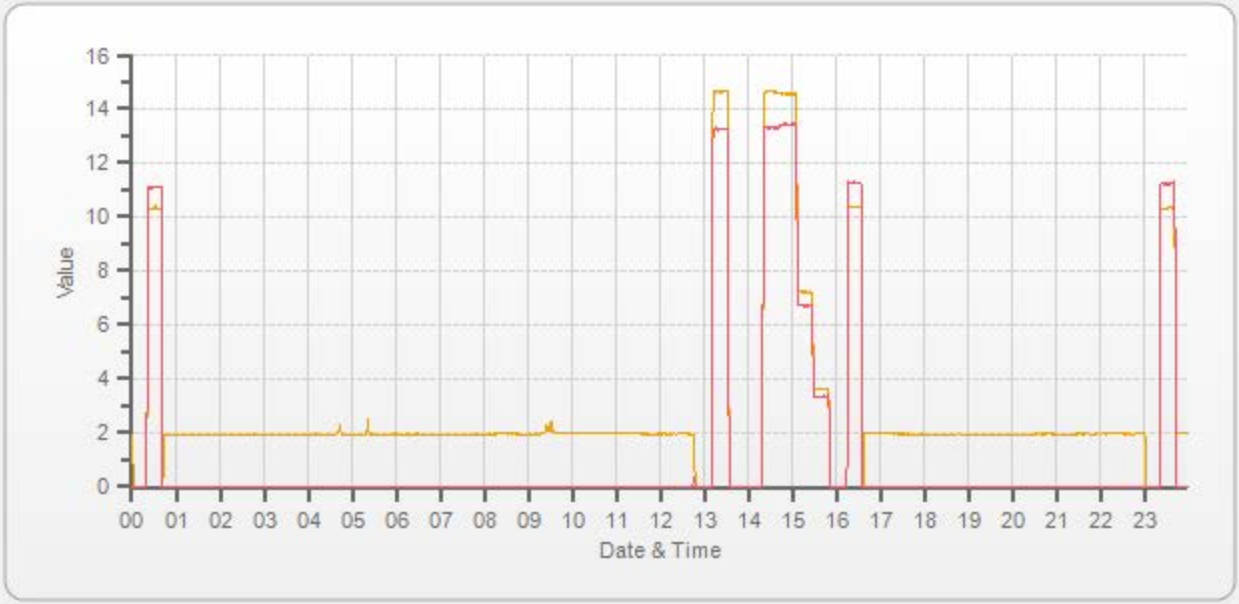
LINEAR REGRESSION ANALYSIS:

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

Comments:

Sample filter Changed

Station: PRAMP RENO-B Daily: 2024-11-07 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	November 7, 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:	October 3, 2024	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Audit:16:06-16:11
Is the screen on the housing? (screen should be on between July and September	yes	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	October 3, 2024
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	FS 181341226 expires July 24, 2025
Reference Temperature (^{o}C):	5.0
Station - Ambient Temperature (^{o}C):	4.7
Temperature Difference (^{o}C):	0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	October 3, 2024	
Reference Barometer ID:	Brunton 05535 Expires July 24,2025	
Reference Pressure - Units/Reading:	millibar	936.1
Station Pressure - Units/Reading:	millibar	936.6
Pressure Tolerance +/- 15% of error:	796 - 1077	-0.05%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	October 3, 2024	
Reference Hygrometer ID:	FS 181341226 expires July 24, 2025	
Reference Hygrometer % RH- Reading:	87.10	
Station Hygrometer % RH- Reading:	95.20	
RH Tolerance +/- 15% of difference:	74.04 - 100.17	-9.3%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:		Previous check date:	
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	13.5	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass

Comments

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

NOVEMBER 2024

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202411-01689

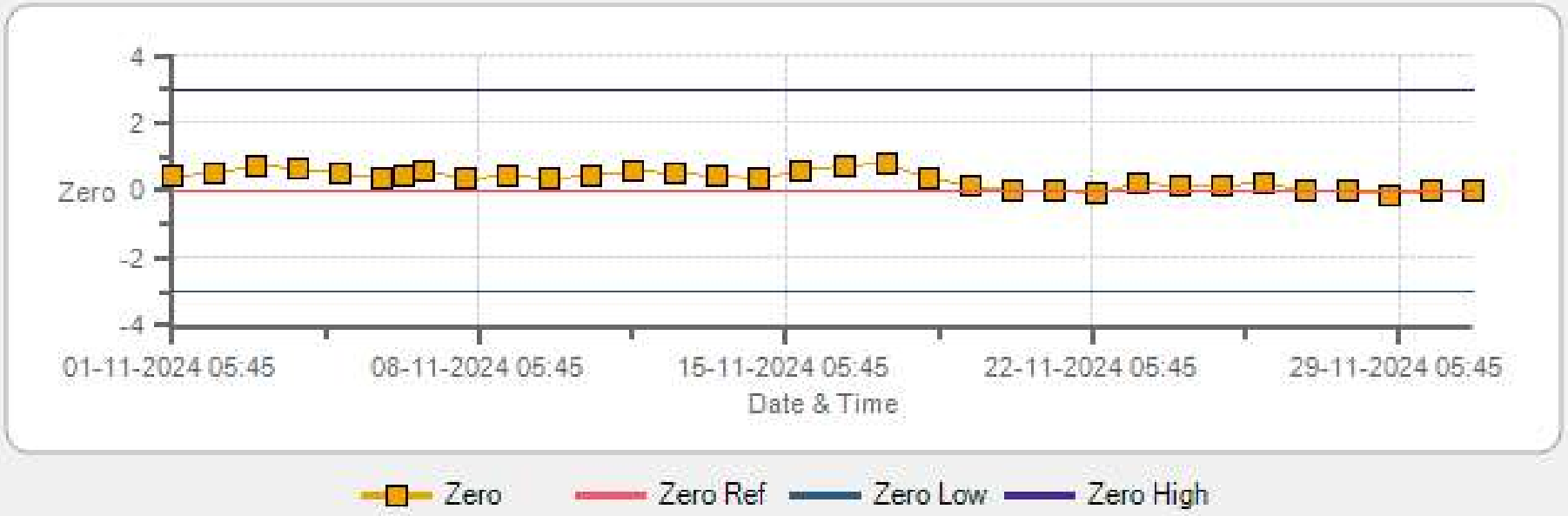
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

December 4, 2024

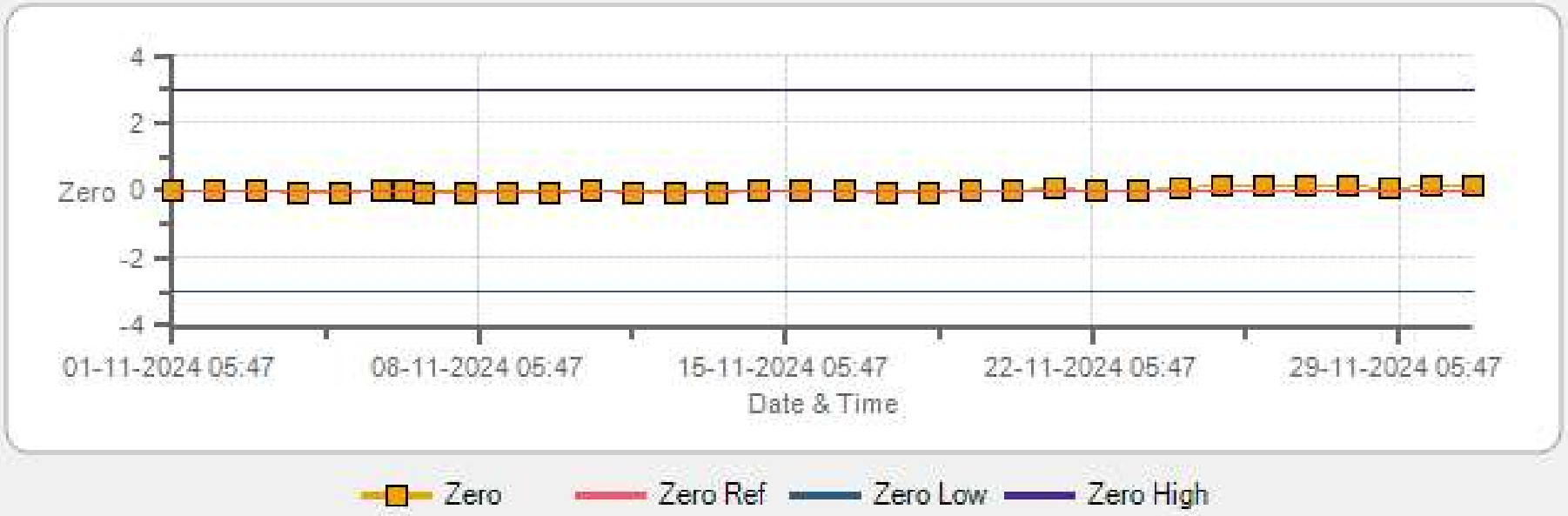
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero

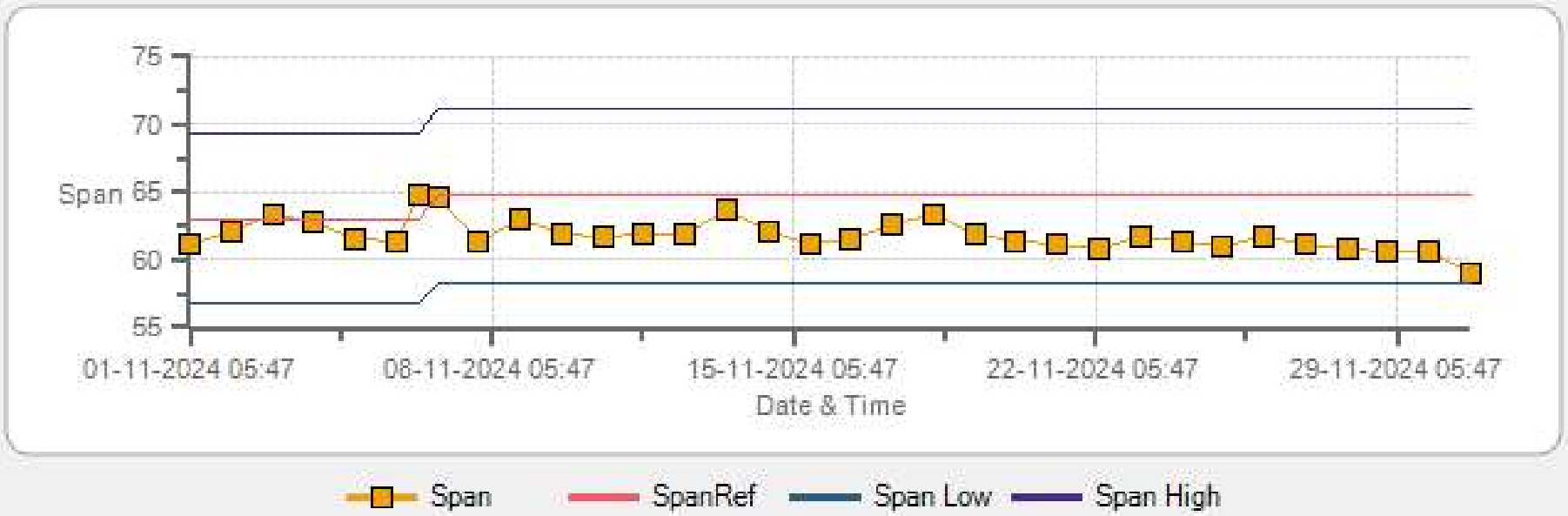


SO2[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span

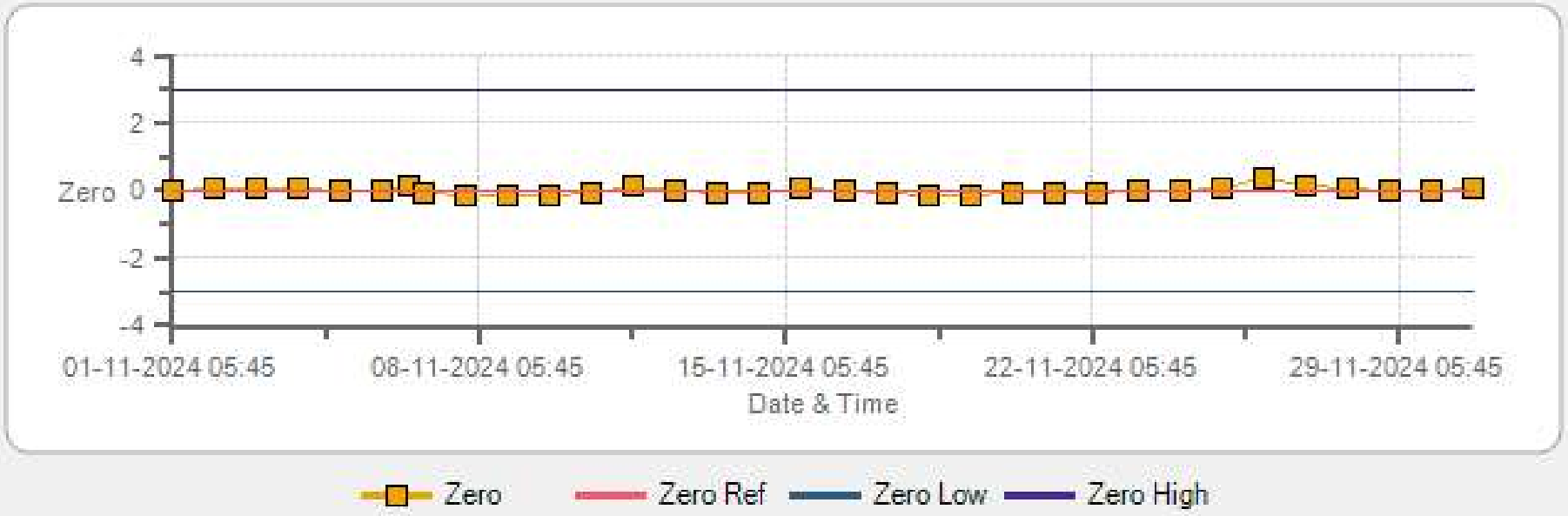
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero



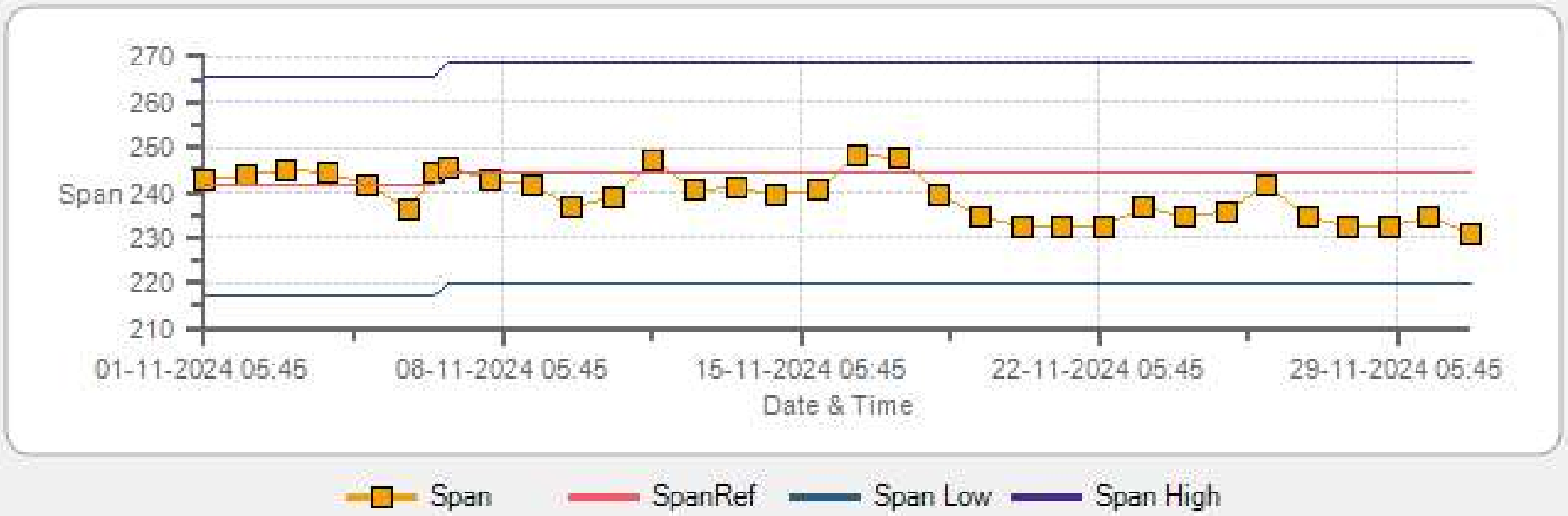
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span



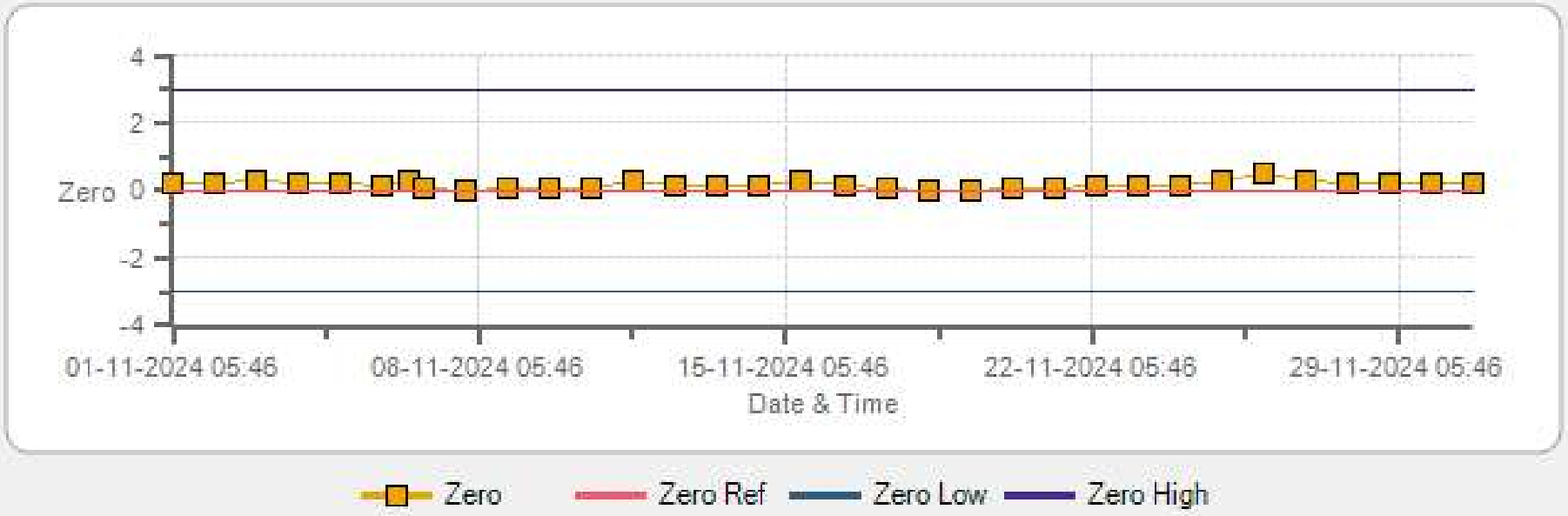
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero



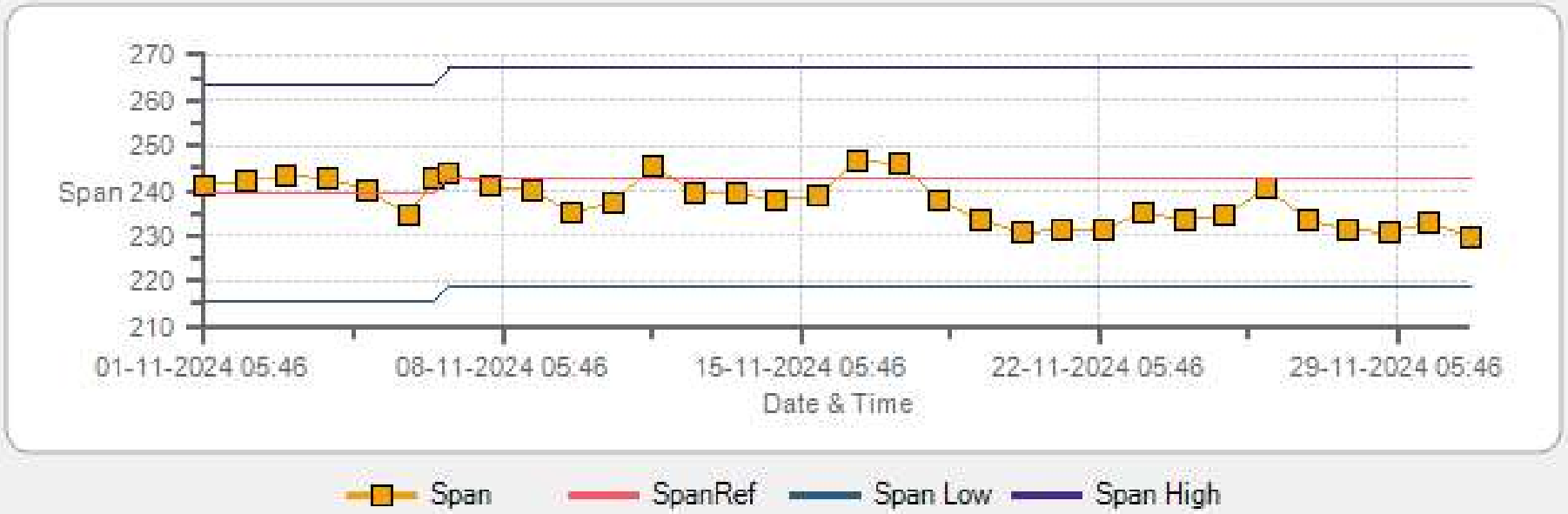
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span



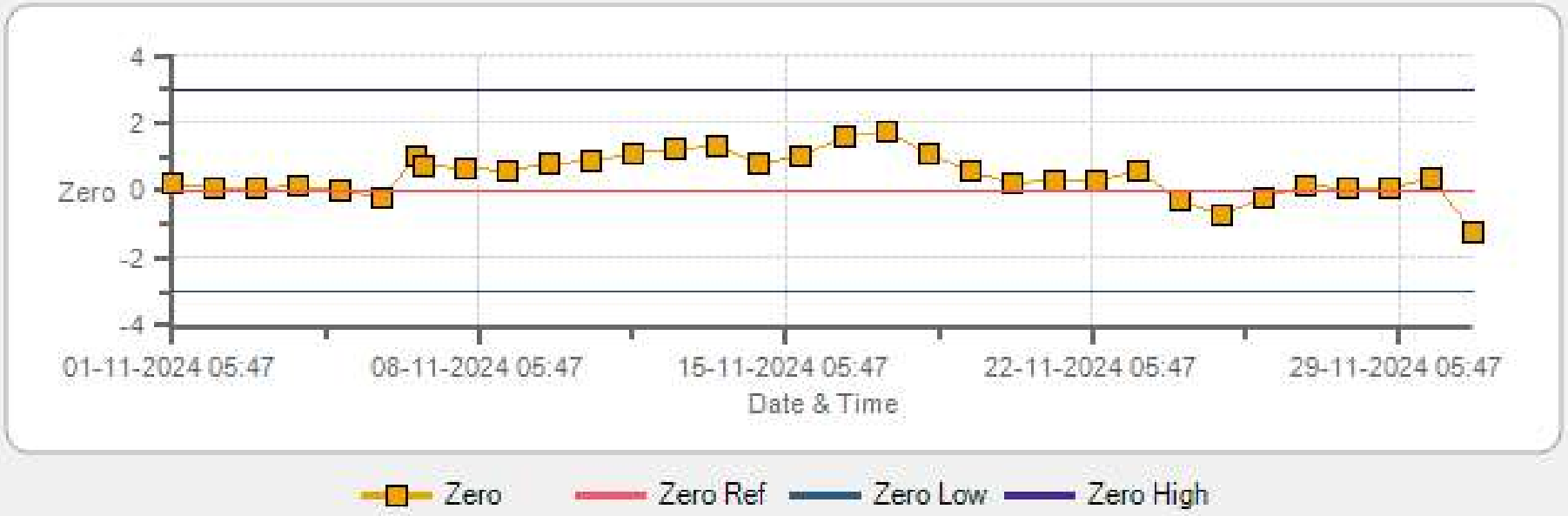
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero



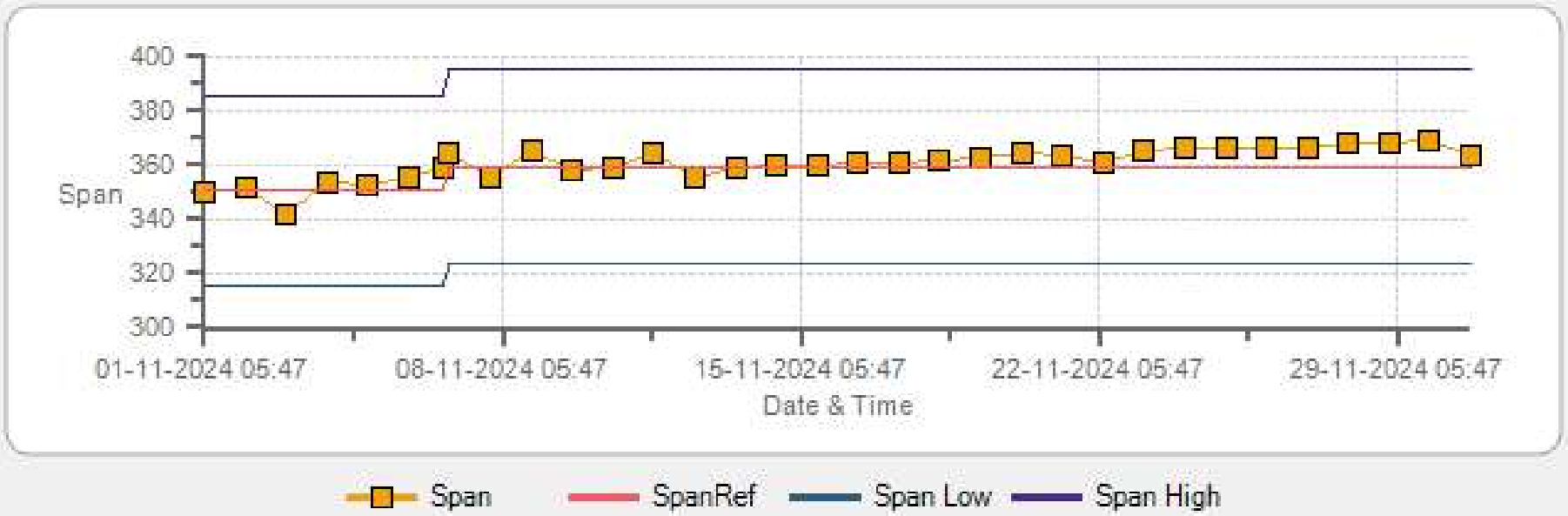
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span



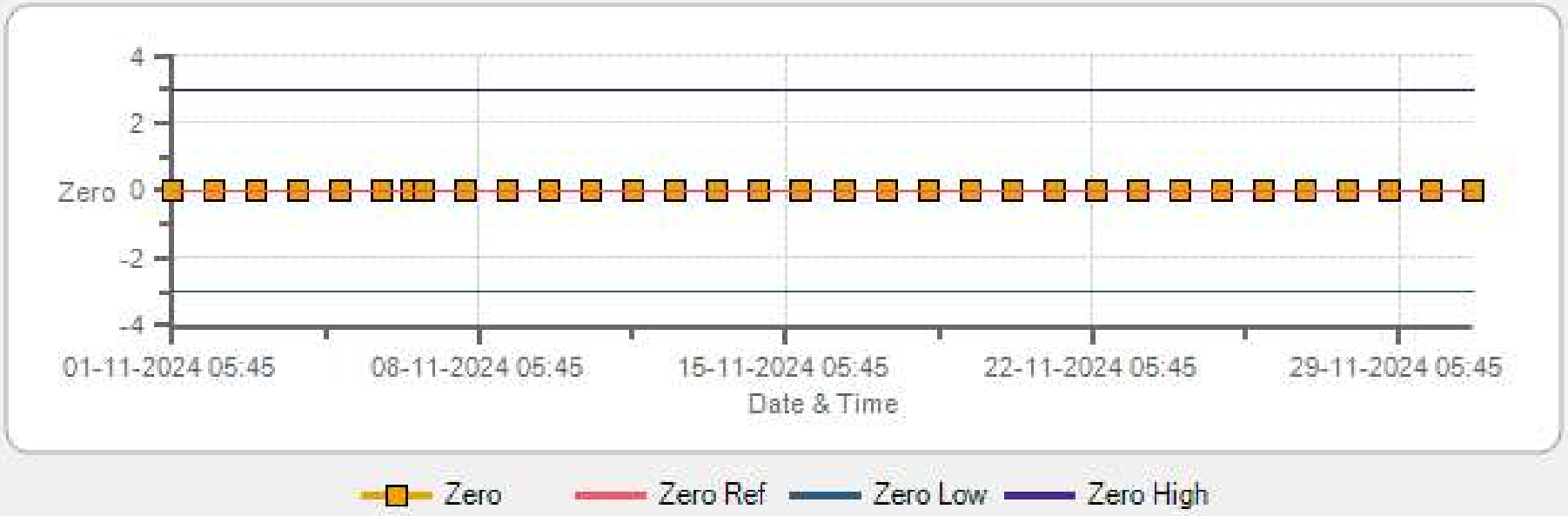
O3[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero



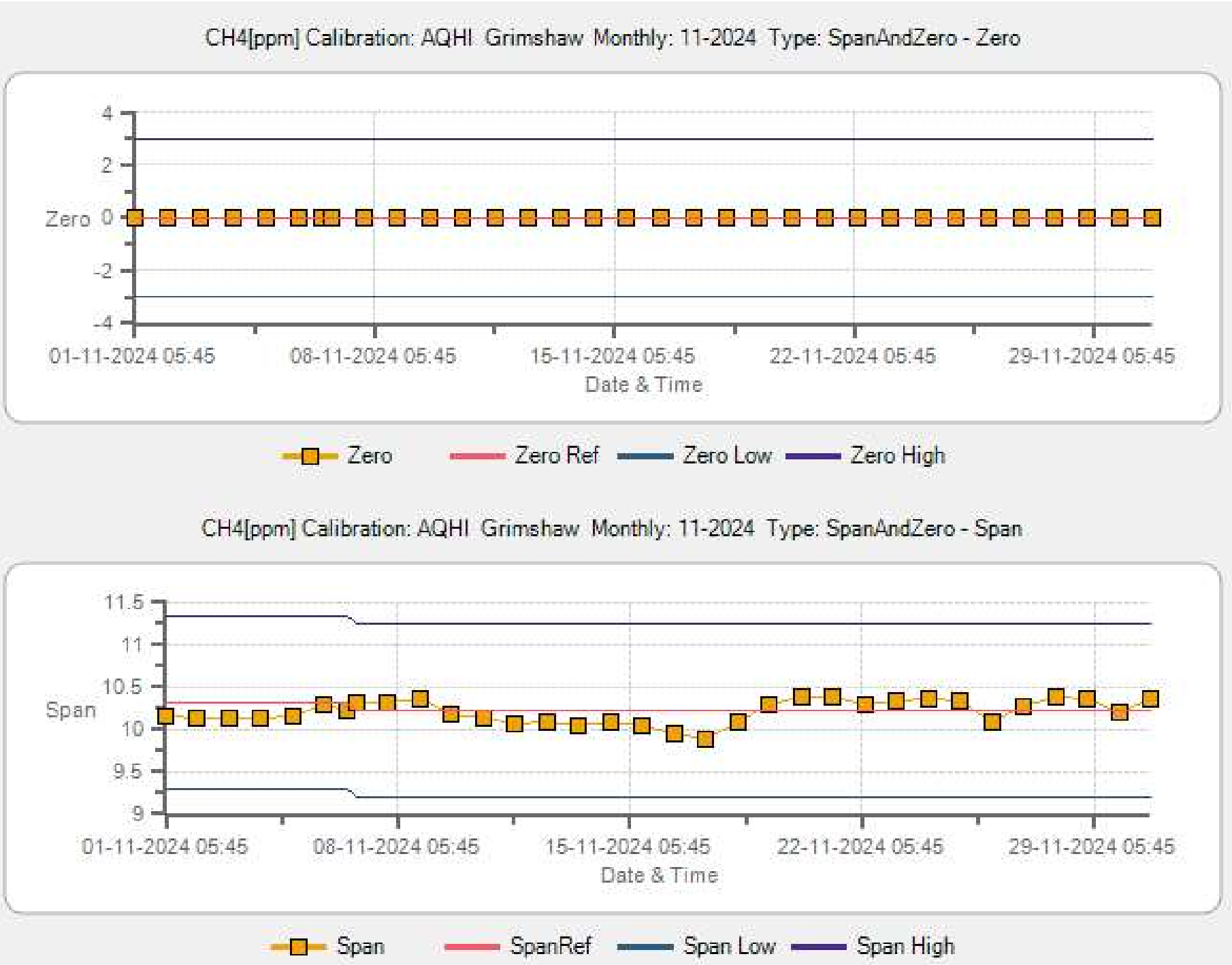
O3[ppb] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span



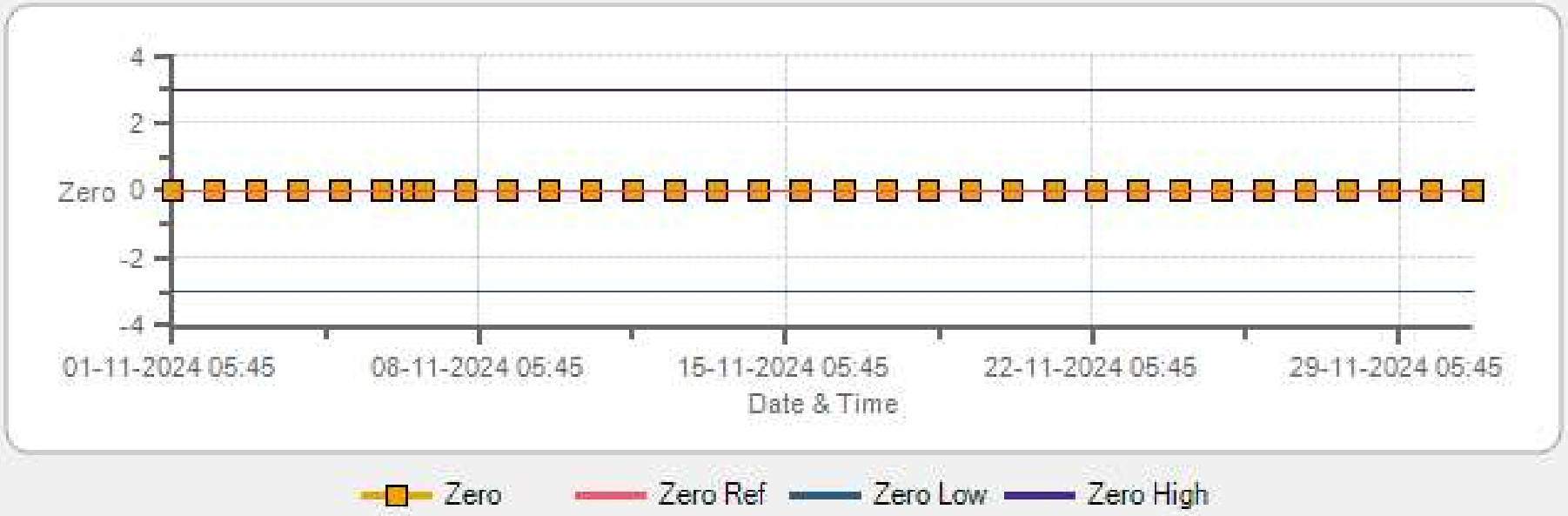
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero



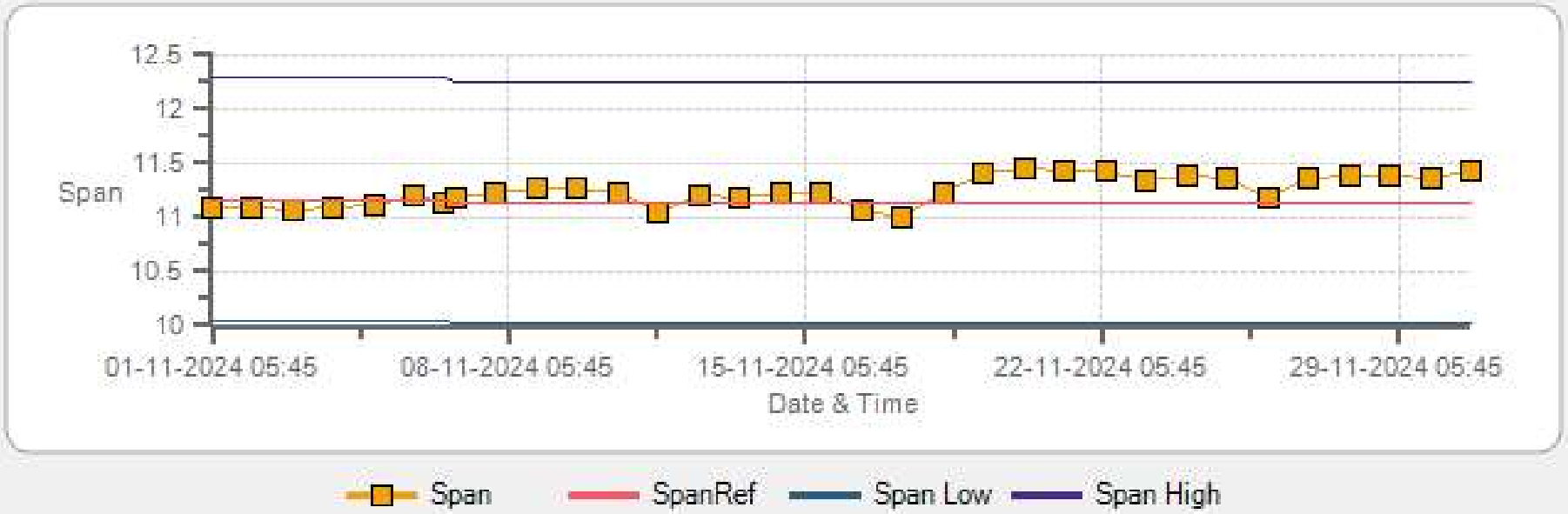
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span


CH4[ppm] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
01-11-2024 05:45
08-11-2024 05:45
15-11-2024 05:45
22-11-2024 05:45
29-11-2024 05:45
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span
11.5
11
10.5
Span
10
9.5
9
01-11-2024 05:45
08-11-2024 05:45
15-11-2024 05:45
22-11-2024 05:45
29-11-2024 05:45
Date & Time
Span
SpanRef
Span Low
Span High

NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 11-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	06-Nov-2024	PREVIOUS CALIBRATION DATE:	02-Oct-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Grimshaw	BAROMETRIC (mBar):	936
PURPOSE	Routine	START TIME (MST):	09:28
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:21

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	456
INITIAL		FINAL	
BKG/OFFSET	35.9	BKG/OFFSET	36.1
COEF/SLOPE	0.911	COEF/SLOPE	0.909
Expected (reference) Value	263.4	Expected (reference) Value	266.0

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:

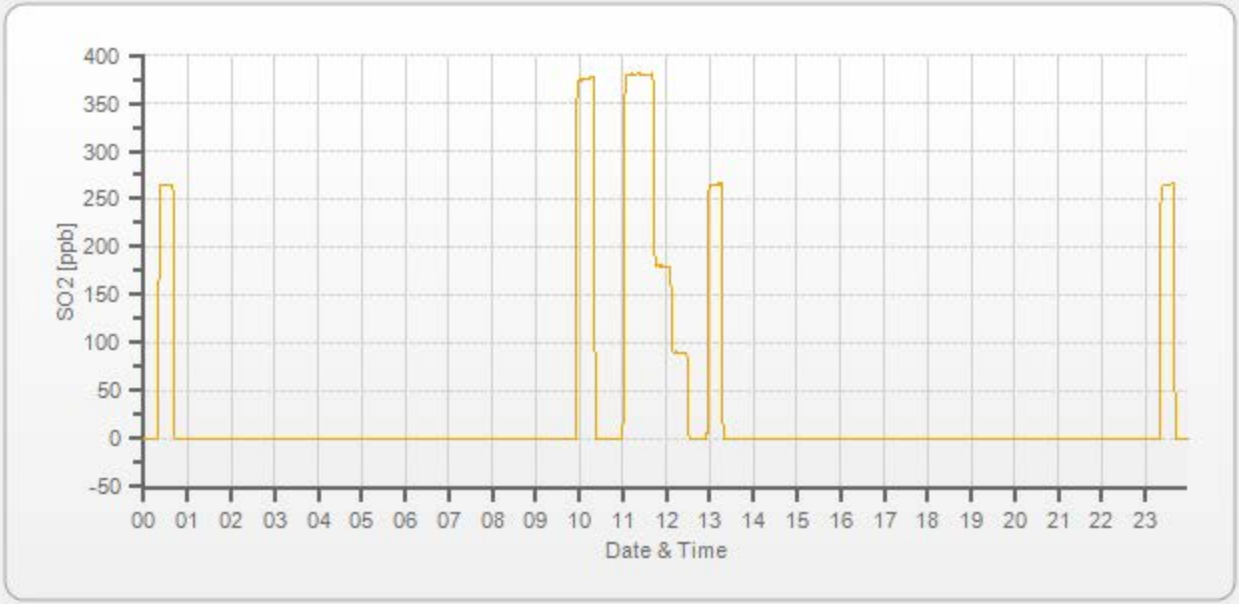
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4000		4000	0.00	0.3	0		
3939	60.60	4000	380.27	375.8	380.7	1.013	0.999
3971	28.70	4000	180.09	n/a	180.6	n/a	0.997
3986	14.30	4000	89.73	n/a	90.7	n/a	0.989

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed


SO2[ppb] Station: AQHI Grimshaw Daily: 2024-11-06 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:	06-Nov-2024	PREVIOUS CALIBRATION DATE:	02-Oct-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.996
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Grimshaw	BAROMETRIC (mBar):	936
PURPOSE	Routine	START TIME (MST):	09:27
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:21

ANALYZER:

MAKE/MODEL	Thermo 43iQ-TL	RANGE	100 ppb
SERIAL #	12409233394	FLOW (mL/min)	364
INITIAL		FINAL	
BKG/OFFSET	1.57	BKG/OFFSET	1.63
COEF/SLOPE	1.102	COEF/SLOPE	1.104
Expected (reference) Value	63.09	Expected (reference) Value	64.79

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	-0.03	0		
3967	30.90	3998	77.98	76.7	78.13	1.016	0.998
3985	15.10	4000	38.09	n/a	38.15	n/a	0.998
3993	7.50	4000	18.92	n/a	19.2	n/a	0.985

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.1%

COMMENTS:

Sample filter changed

TRS[ppb] Station: AQHI Grimshaw Daily: 2024-11-06 Type: AVG 1 Min. [1 Min.]

NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

				ANALYZER:			
DATE:	06-Nov-2024	PREVIOUS CALIBRATION DATE:	02-Oct-2024	MAKE/MODEL:	Thermo 42iQ	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3	SERIAL #:	12409233392	NOx	1.000
LOCATION:	Grimshaw	BAROMETRIC (mBar):	936	FLOW (mL/min)	650	NO	0.999
PURPOSE	Routine	START TIME (MST):	09:28	RANGE (ppb)	500	NO2	1.001
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	15:16	GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	EY0001716		HIGH ID:	n/a
MODEL:	2010	MODEL:	T701	NO/NOx (PPM):	49.2	49.4	HIGH EXPIRY:	n/a
ID:	26701218	ID:	80	CYLINDER (psi):	300		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Sep-2024	OXIDIZER ID:	n/a	EXPIRY DATE	11-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	1.6	1.5	n/a	BKG/OFFSET:	1.7	1.6	n/a
SLOPE/COEF/CE:	1.003	1.261	0.996	SLOPE/COEF/CE:	1.003	1.288	0.966

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	241.4	1.8	239.6		244.5	1.6	242.9

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
5000		5000	0.0	0.0	0.0	-0.1	0.0	0.1	0.0	0.0	0.0						
4961	40.10	5001	394.5	396.1	1.6	380.9	382.4	1.6	394.9	396.1	1.2	1.035	1.036		0.999	1.000	
4982	18.30	5000	180.1	180.8	0.7	n/a	n/a	n/a	178.5	179.1	0.6	n/a	n/a		1.009	1.010	
4992	9.10	5001	89.5	89.9	0.4	n/a	n/a	n/a	88.8	89.2	0.4	n/a	n/a		1.008	1.008	

GPT CALIBRATION:

Point	CALIBRATOR			INDICATED (ppb)			NO DROP / O3 Conc (ppb)	NO2 GAIN (ppb)	NO2 Corr. FACTOR	CONV. EFFICIENCY
	GAS	TOTAL	O3 SETPOINT	NO	NOx	NO2				
REFERENCE	40.10	5000	0	394.5	395.6	1.1				
AS-FOUND HIGH	40.10	5000	260	140.4	396.3	255.9	254.1	254.8	0.997	100.28%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
MID	40.10	5000	154	244.3	395.9	151.6	150.2	150.5	0.998	100.20%
LOW	40.10	5000	54	342.1	396.2	54.1	52.4	53	0.989	101.15%
NO2 adjustment not required.									AVERAGE:	100.54%

LINEAR REGRESSION ANALYSIS:

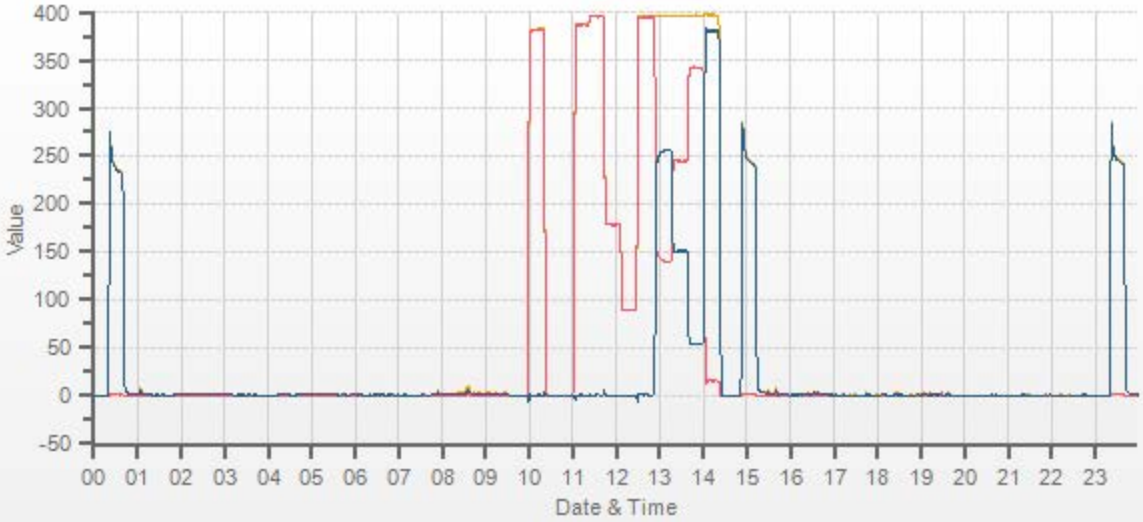
	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.001	-0.14%
NOx	1.000	1.000	-0.13%
NO2	1.000	1.001	0.09%

COMMENTS:

Extra GPT point for O3: Setting = 380, O3 drop = 378.9
Sample filter changed

Shaping a world of trust

Station: AQHI Grimshaw Daily: 2024-11-06 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	06-Nov-2024	PREVIOUS CALIBRATION DATE:	02-Oct-2024
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	933
PURPOSE	Routine	START TIME (MST):	14:54
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	19:44

ANALYZER:

MAKE/MODEL	Thermo 49iQ	RANGE	500 ppb
SERIAL #	12326230141	FLOW (mL/min)	1230
INITIAL		FINAL	
BKG/OFFSET	4.9	BKG/OFFSET	4.2
COEF/SLOPE	1.01	COEF/SLOPE	1.02
Expected (reference) Value	350.8	Expected (reference) Value	359.5

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:	06-Nov-2024	GPT END TIME:	14:30

CALIBRATION PARAMETERS:

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

CALIBRATION:

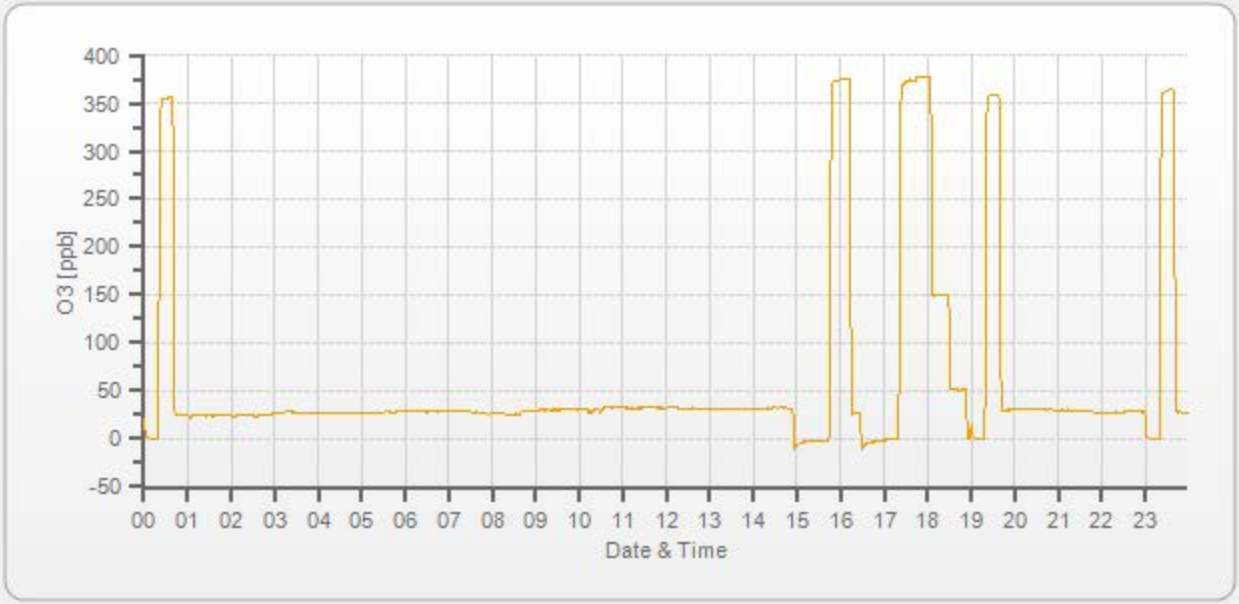
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
5000		5000	0.0	-0.4	0.0		
5000		5000	378.9	376.0	378.4	1.007	1.001
5000		5000	150.2	n/a	151.2	n/a	0.993
5000		5000	52.4	n/a	52.3	n/a	1.002

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed


O3[ppb] Station: AQHI Grimshaw Daily: 2024-11-06 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:	06-Nov-2024	PREVIOUS CALIBRATION DATE:	02-Oct-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	Grimshaw	BAROMETRIC (mBar):	934
PURPOSE	Routine	START TIME (MST):	12:43
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	17:20

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12101910497	1041
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	1.000	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:	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?	No
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
	10.32	11.17	21.50		10.22	11.14	21.36

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	14.52	13.45	27.98	14.57	13.44	28.01	1.003	0.999	1.001	0.999	1.000	0.999
3075	25.20	3100	7.29	6.73	14.02	n/a	n/a	n/a	7.33	6.79	14.13	n/a	n/a	n/a	0.995	0.991	0.992
3087	12.60	3100	3.65	3.36	7.01	n/a	n/a	n/a	3.68	3.45	7.13	n/a	n/a	n/a	0.991	0.975	0.983

LINEAR REGRESSION ANALYSIS:

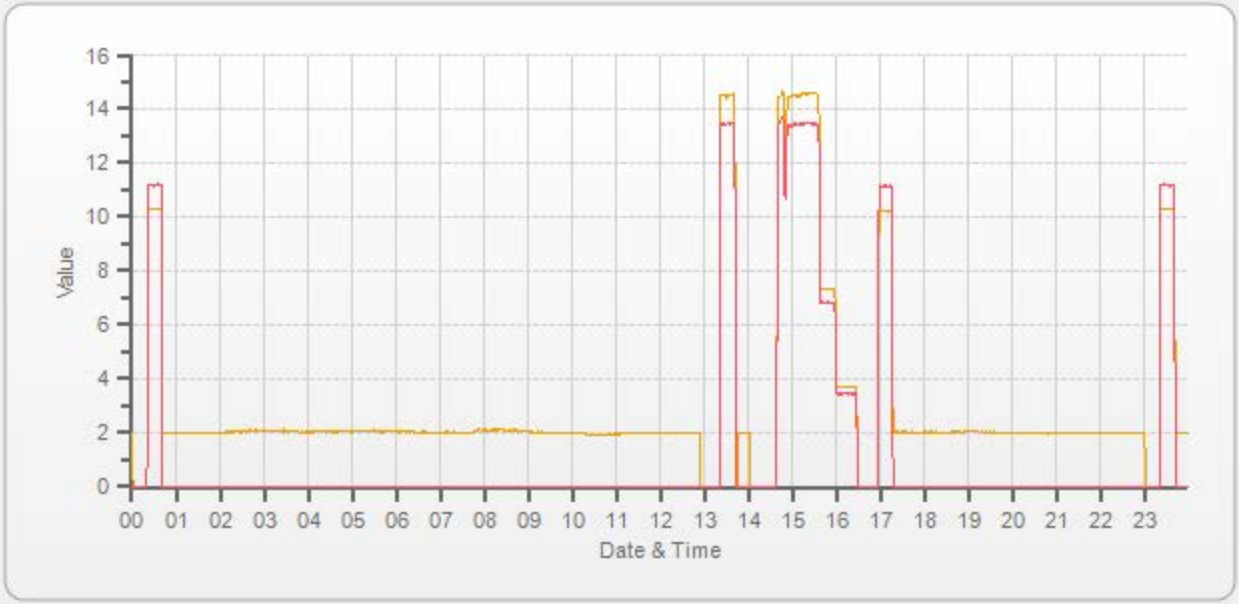
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.1%
NMHC	1.000	0.999	0.2%
THC	1.000	1.000	0.2%

Comments:

Sample filter changed

14:48-14:53 = User error, adjusted high restarts

Station: AQHI Grimshaw Daily: 2024-11-06 Type: AVG 1 Min. [1 Min.]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	November 6, 2024	October 2, 2024	**Weather Conditions:**	Clear	
Company:	PRAMP		**Start Time (mst):**	15:12	
Station:	Grimshaw		**End Time (mst):**	15:39	
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 #206578, Exp Nov 27, 2024	**Temperature:**	Deltacal DC1 #206578, Exp Nov 27, 2024
Digital Manometer:	Deltacal DC1 #206578, Exp Nov 27, 2024	**Pressure:**	Deltacal DC1 #206578, Exp Nov 27, 2024

DIAGNOSTICS:

Ambient Pressure (mmHg)	699.7	Ambient Temp (°C)	10.2	ASC Heater Duty (%)	0.0
Box Temp (°C)	24.7	Current PMT HV (V)	1540	LED Temp (°C)	33.18
P3 Value	49	PMT Setting (V)	1547	Pump PWM (%)	61
Sample Flow (L/min)	5.02	Sample RH (%RH)	28.8	Sample Temp (°C)	23.0

Item:	**As-found**		**As-left**		**Tolerance**
	Reference	**T640x**	**Reference**	**T640x**	
Zero Test (Leak Check)	PM10	0.0	0	0.0	0.0 to 0.2
	PM2.5	0.0	0	0.0	
Ambient Pressure (mmHg)	699.1	699.7	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	8.90	10.1	n/a		+/- 2°C
Sample Flow (L/min)	5.04	5.02	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

Quarterly Audit/Calibration:

SpanDust™ Standard	**Peak at Channel**	**Lot No:**	**Expiry:**
	10.9	100128-050-046	5-10-2025

Item:	**Verification:**		**Calibration (if needed):**		**Tolerance**
	Reference	**T640x**	**Reference**	**T640x**	
Peak Channel	10.9	11.1	n/a	n/a	± 0.5
PMT Setting (V)	n/a	1547	n/a	n/a	n/a
Peak Channel Counts:	n/a	3239	n/a	n/a	n/a

Comments:

Alert: 10/30/24: Perform span dust check

Meteorological System Checklist

Date:	November 6, 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:	October 2, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	FS 181341226 expires July 24, 2025		
Reference Temperature (°C):	8.1		
Station - Ambient Temperature (°C):	7.7		
Temperature Difference (°C):	0.4		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	October 2, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 24,2025		
Reference Pressure - Units/Reading:	millibar	932	
Station Pressure - Units/Reading:	millibar	931	
Pressure Tolerance +/- 15% of error:	792 - 1072	0.11%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	October 2, 2024		
Reference Hygrometer ID:	FS 181341226 expires July 24, 2025		
Reference Hygrometer % RH- Reading:	70.10		
Station Hygrometer % RH- Reading:	71.30		
RH Tolerance +/- 15% of difference:	59.59 - 80.62	-1.7%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	October 2, 2024	Previous check date:	October 2, 2024
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	13.5	Wind Direction on Data Logger:	SW
		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

NOVEMBER 2024

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

CAL-PRAMP-202411-01698

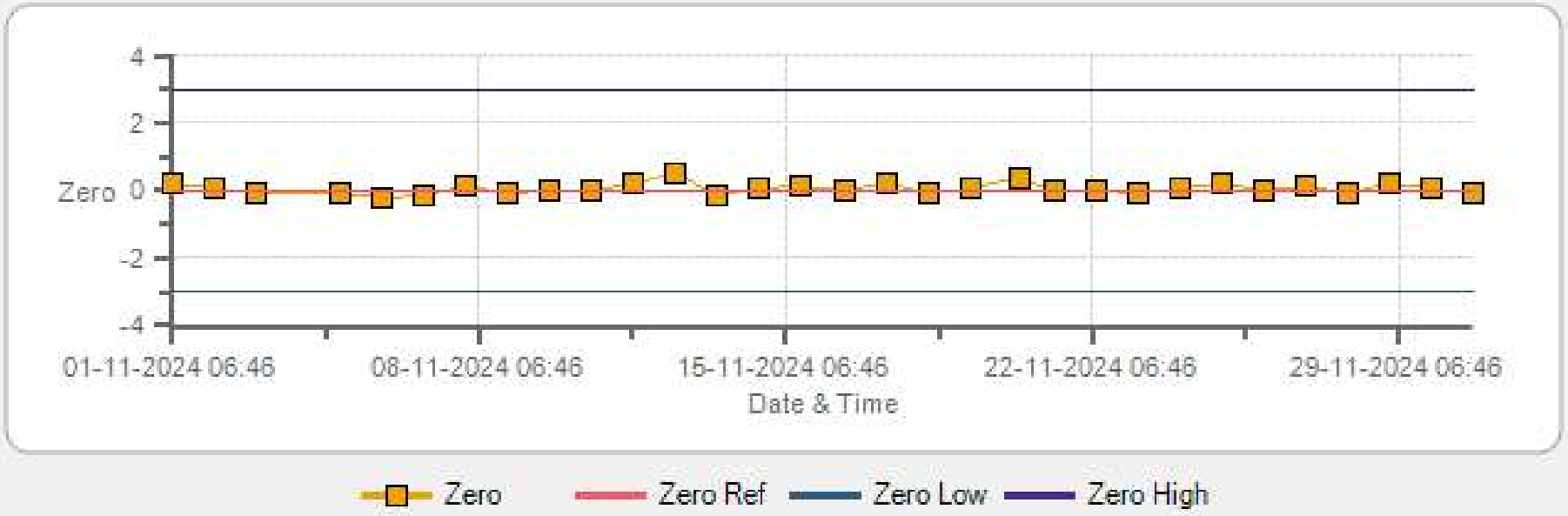
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

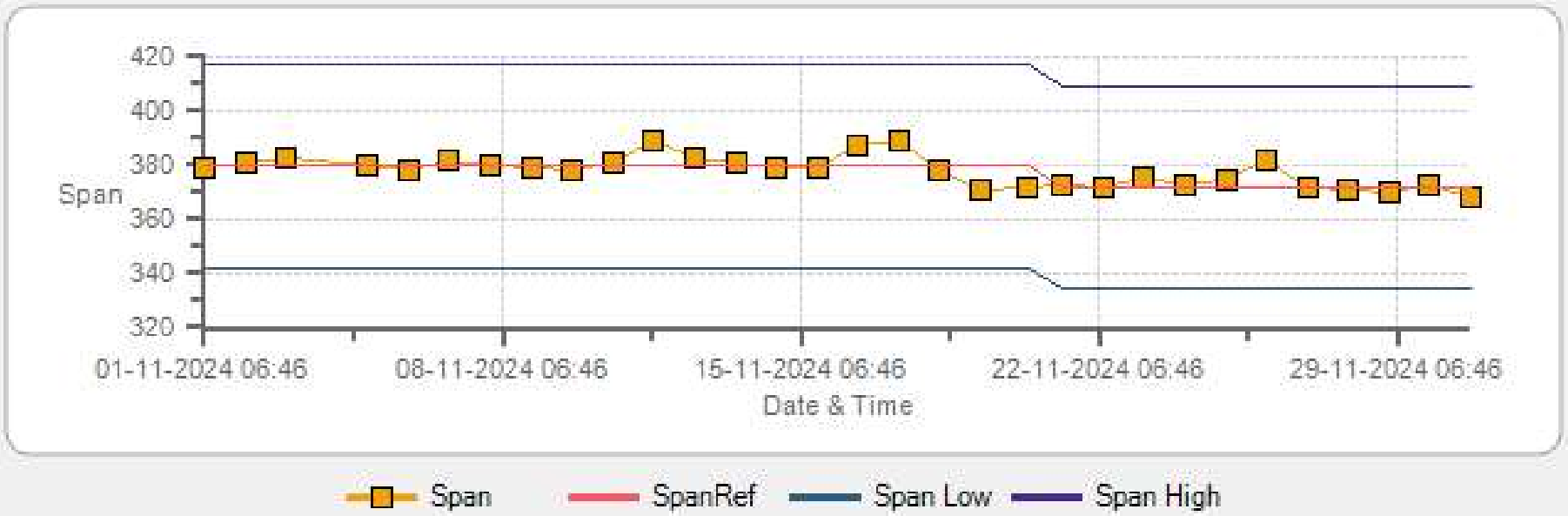
December 4, 2024

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

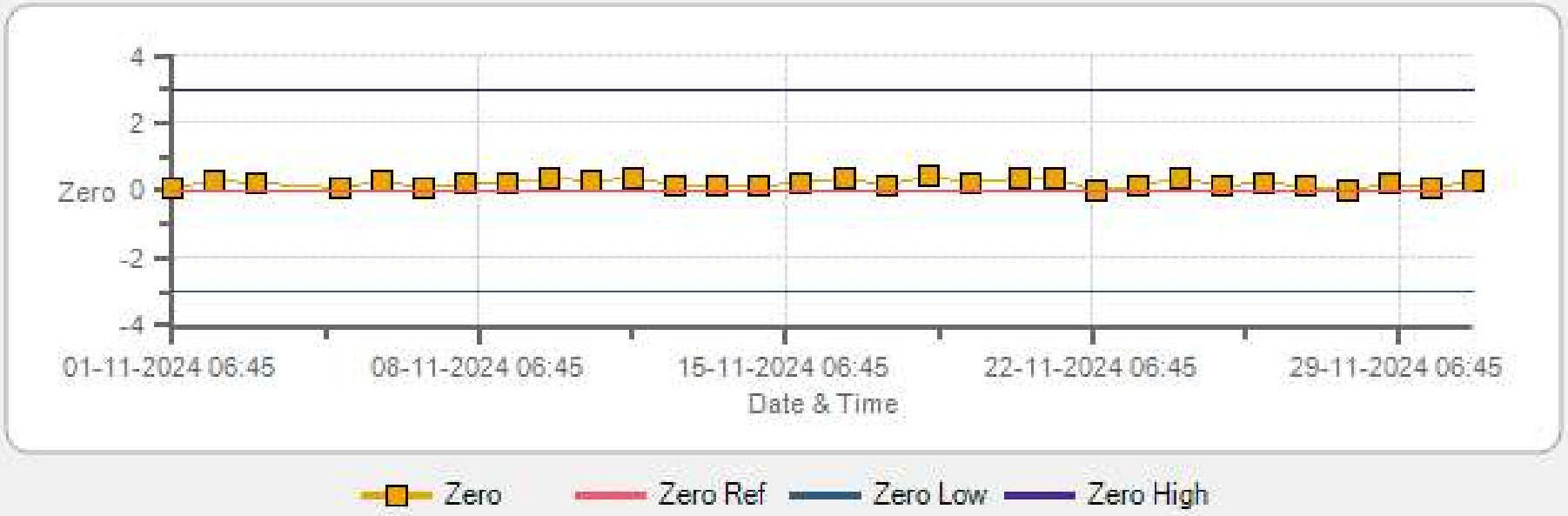
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Zero



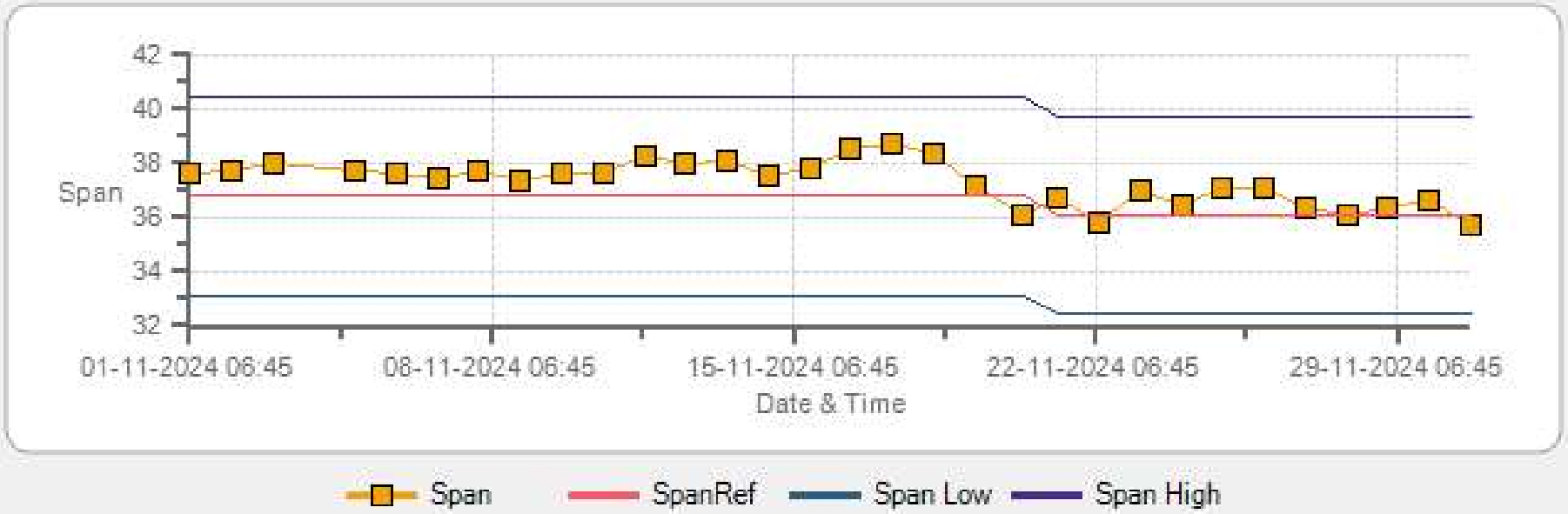
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Span



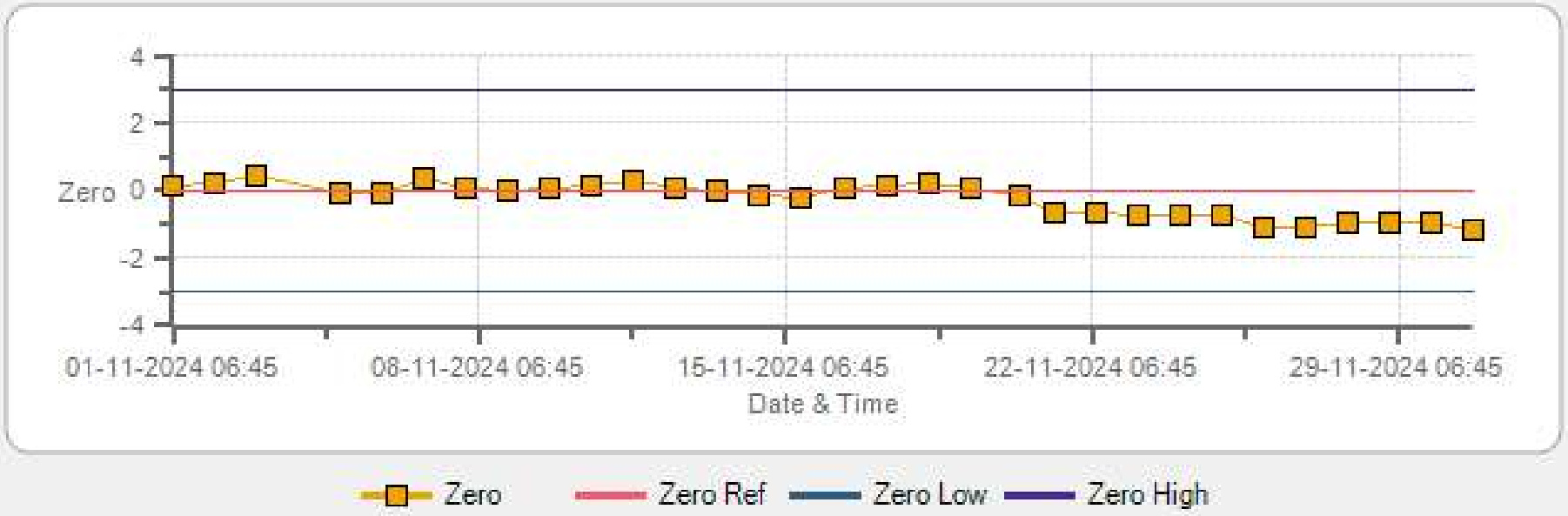
H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Zero



H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Span

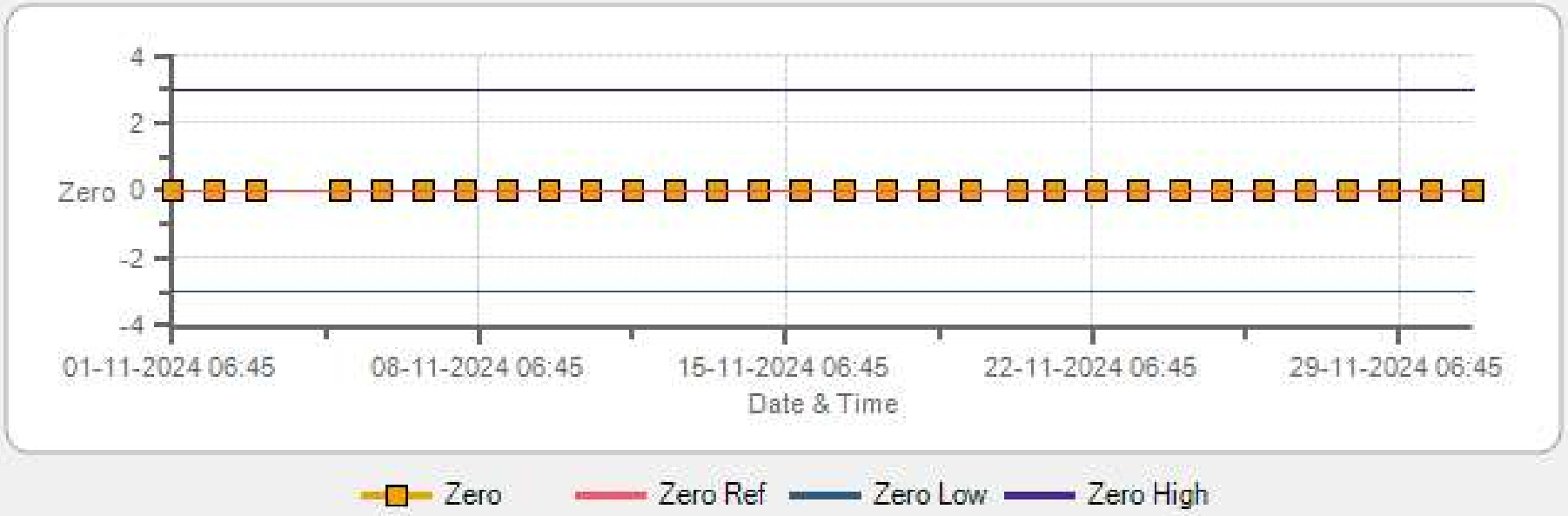


TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Zero

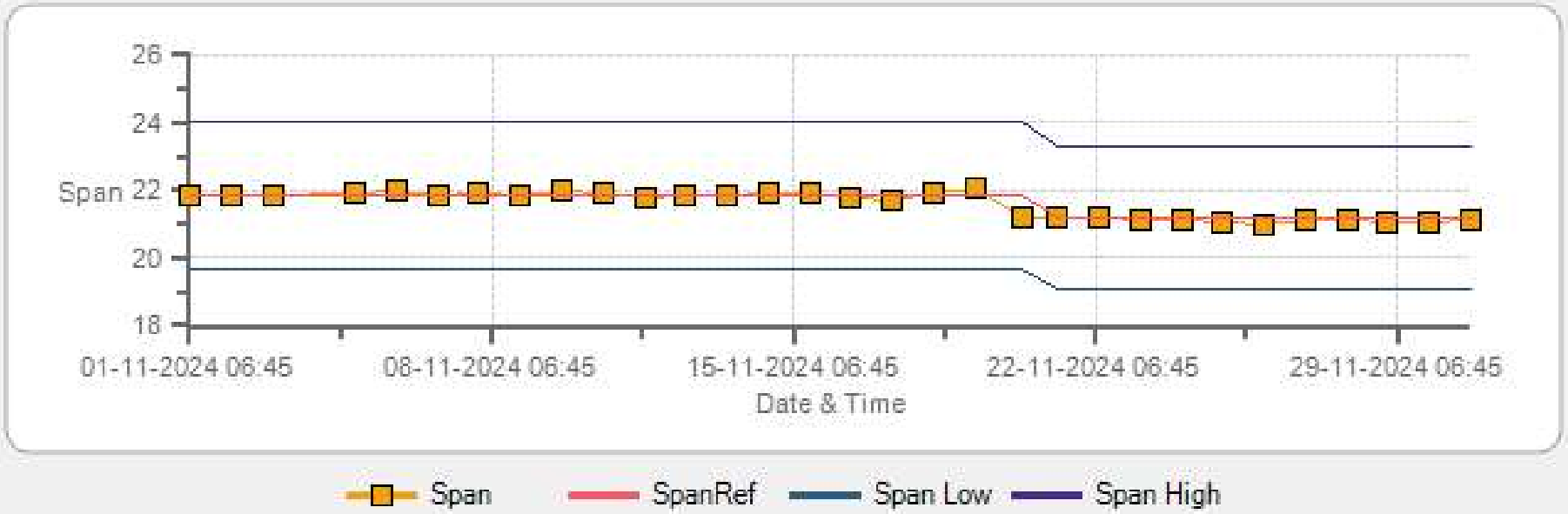


TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Span

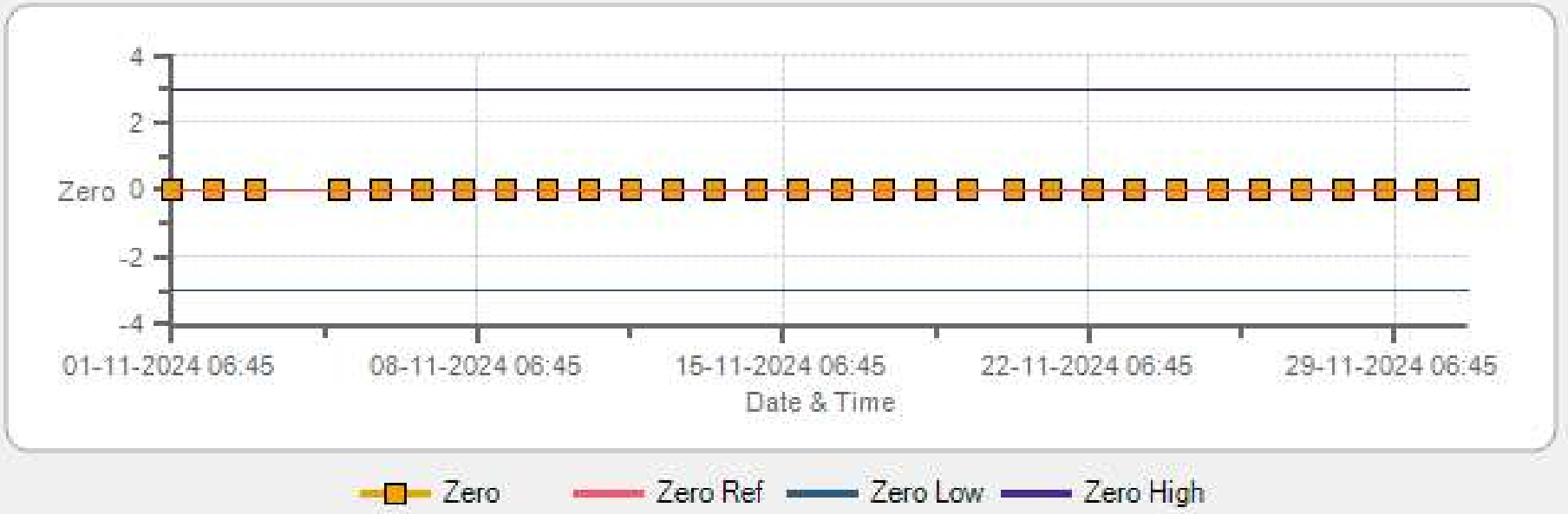
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Zero



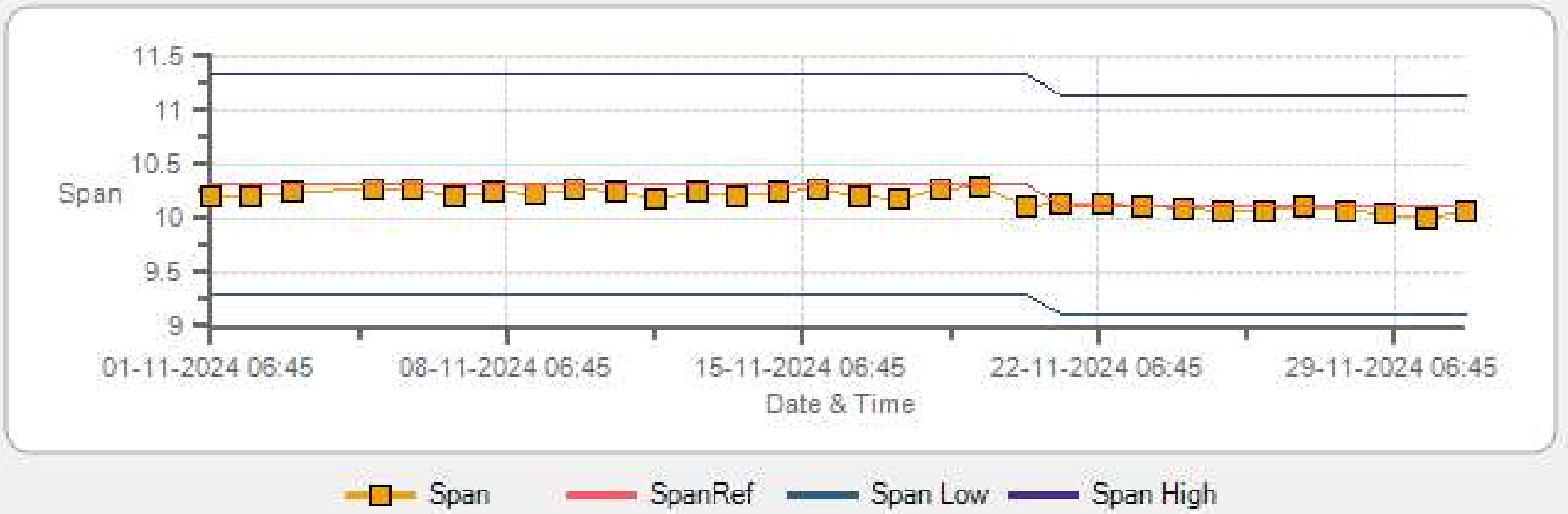
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Span



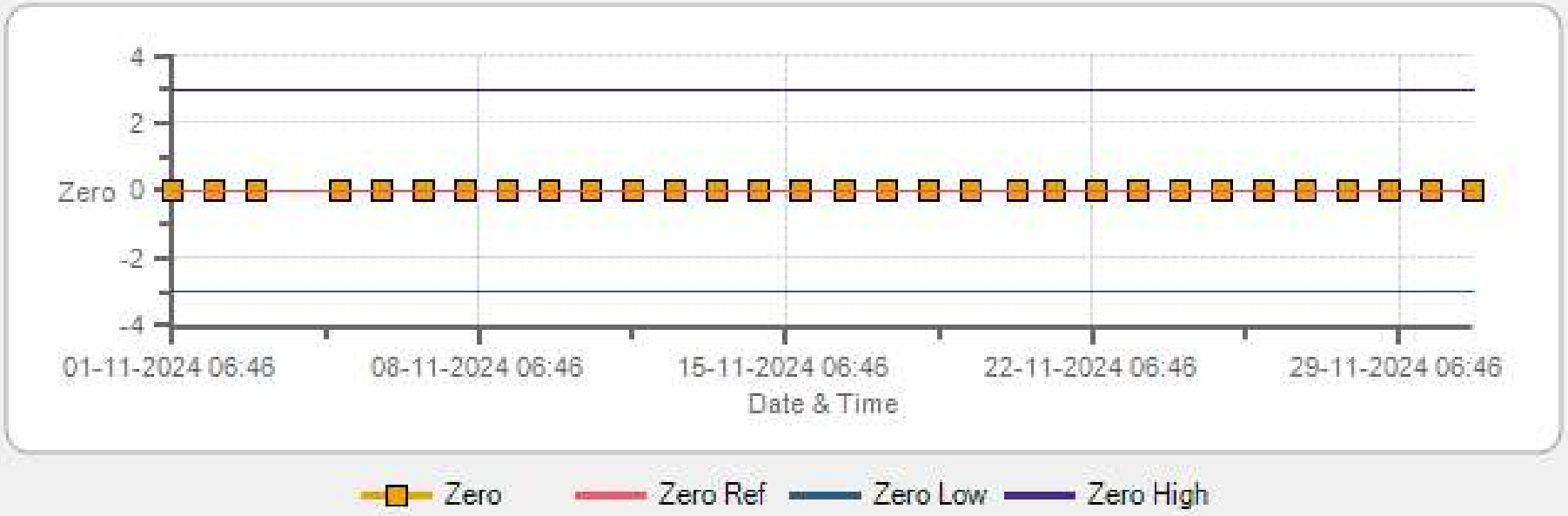
CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Zero



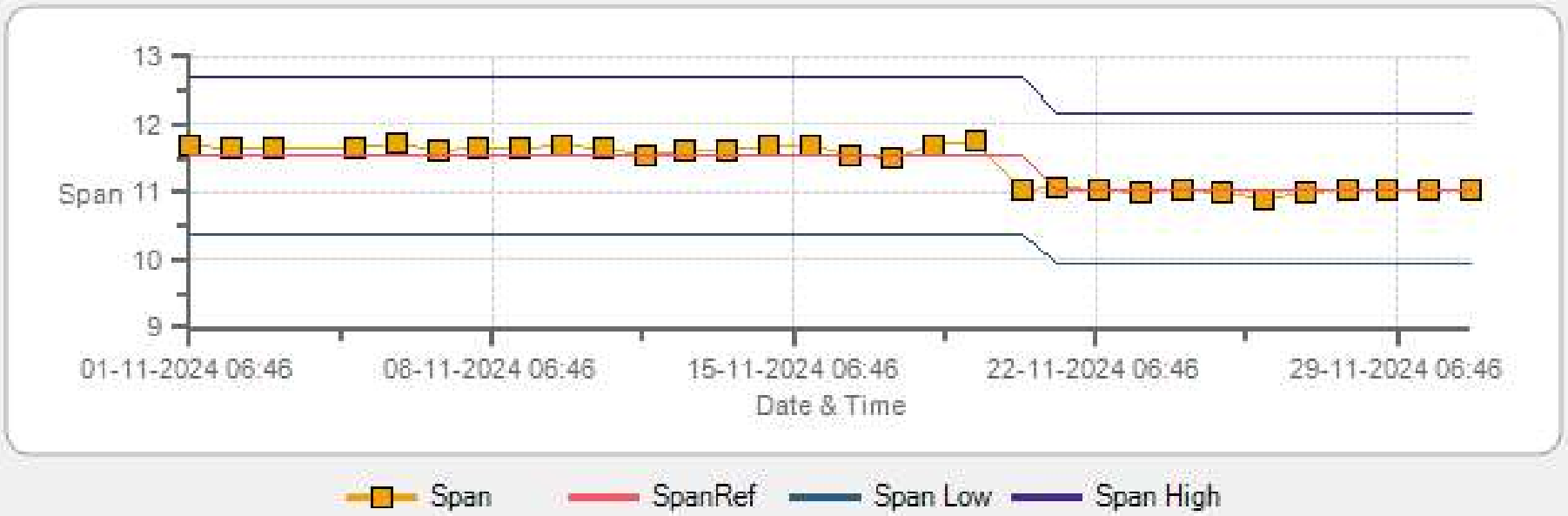
CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Span



NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 11-2024 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	20-Nov-2024	PREVIOUS CALIBRATION DATE:	10-Oct-2024
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.997
CLIENT:	PRAMP	TEMPERATURE (°C):	20.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	10:13
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:41

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	449
INITIAL		FINAL	
BKG/OFFSET	19.6	BKG/OFFSET	19.8
COEF/SLOPE	1.107	COEF/SLOPE	1.12
Expected (reference) Value	379.6	Expected (reference) Value	371.9

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		
4001		4001	0.00	0.1	0		
3939	60.60	4000	380.27	375.4	380.5	1.013	0.999
3970	28.70	3999	180.14	n/a	181.1	n/a	0.995
3984	14.40	3998	90.41	n/a	91.3	n/a	0.990

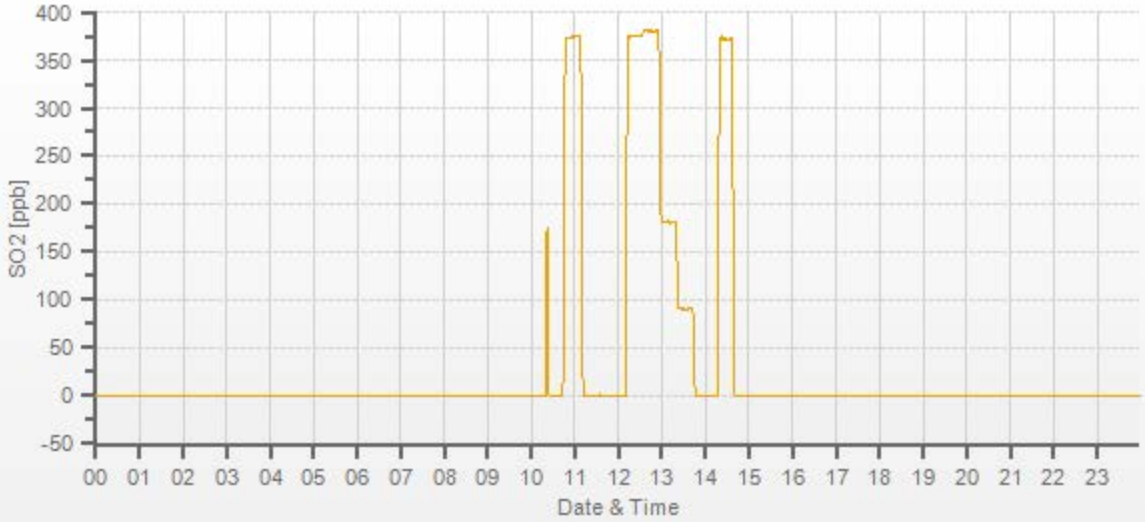
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample Filter Changed

SO2[ppb] Station: Peace River Complex [PRC] Daily: 2024-11-20 Type: AVG 1 Min. [1 Min.]



H2S Analyzer Calibration by Dilution

DATE:	20-Nov-2024	PREVIOUS CALIBRATION DATE:	10-Oct-2024
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	20.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	10:13
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:41

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	935
INITIAL		FINAL	
BKG/OFFSET	16.6	BKG/OFFSET	16.2
COEF/SLOPE	1.111	COEF/SLOPE	1.086
Expected (reference) Value	36.8	Expected (reference) Value	36.1

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:	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		
4001		4001	0.00	0.2	0		
3969	30.90	4000	77.95	78.6	78.3	0.994	0.995
3984	15.10	3999	38.10	n/a	38.1	n/a	1.000
3991	7.50	3998	18.93	n/a	19.5	n/a	0.971

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.2%

COMMENTS:

Sample filter changed

H2S[ppb] Station: Peace River Complex [PRC] Daily: 2024-11-20 Type: AVG 1 Min. [1 Min.]

TRS Analyzer Calibration by Dilution

DATE:	19-Nov-2024	PREVIOUS CALIBRATION DATE:	10-Oct-2024
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	19.5
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	955
PURPOSE	Removal/Shut-down	START TIME (MST):	16:57
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	19:20

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	697
INITIAL		FINAL	
BKG/OFFSET	30.5	BKG/OFFSET	n/a
COEF/SLOPE	1.092	COEF/SLOPE	n/a
Expected (reference) Value	51.11	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):	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:	17:24	SO2 Conc (ppb)	380
END TIME:	17:39	Analyzer Response (ppb)	-0.4

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	-0.15	n/a		
3969	30.90	4000	77.95	77.4	n/a	1.005	n/a
3984	15.10	3999	38.10	37.65	n/a	1.008	n/a
3991	7.50	3998	18.93	19.07	n/a	0.985	n/a

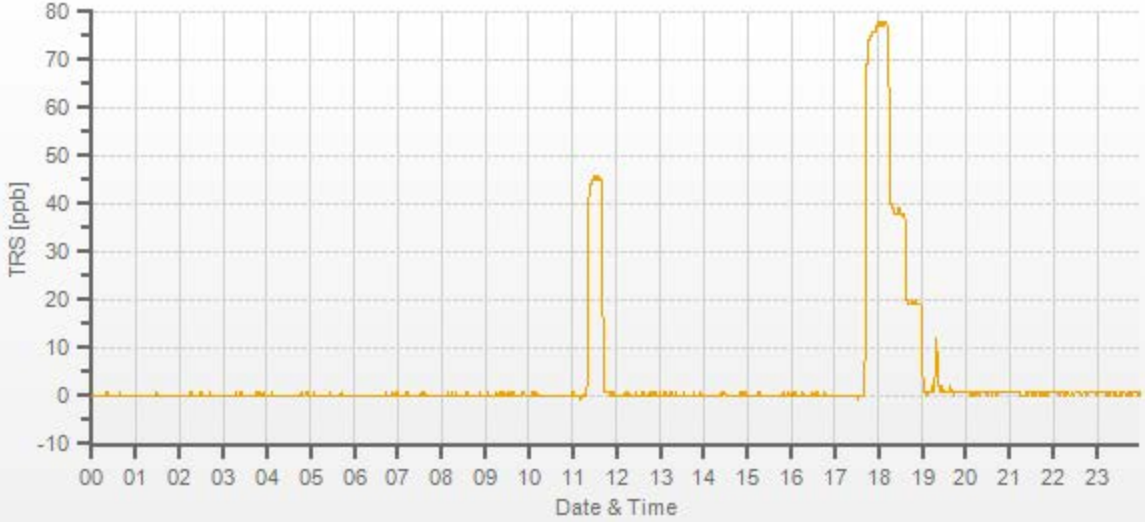
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.993	0.0%

COMMENTS:

TRS Converter CDNOVA CDN-101 #516
Scrubber beads renewed.

TRS[ppb] Station: Peace River Complex [PRC] Daily: 2024-11-19 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	20-Nov-2024	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	20.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	956
PURPOSE	Install/Post-Repair	START TIME (MST):	11:11
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	14:41

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	699
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	30.2
COEF/SLOPE	n/a	COEF/SLOPE	1.074
Expected (reference) Value	n/a	Expected (reference) Value	45.45

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:	11:16	SO2 Conc (ppb)	380
END TIME:	11:31	Analyzer Response (ppb)	0.2

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	77.65	n/a	1.004
3984	15.10	3999	38.10	n/a	37.56	n/a	1.014
3991	7.50	3998	18.93	n/a	18.8	n/a	1.007

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.996	-0.1%

COMMENTS:

Sample filter changed

TRS[ppb] Station: Peace River Complex [PRC] Daily: 2024-11-20 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
80
70
60
50
40
30
20
10
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
TRS [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	20-Nov-2024	PREVIOUS CALIBRATION DATE:	17-Oct-2024
CLIENT:	PRAMP	TEMPERATURE (°C):	20.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	10:13
PERFORMED BY:	Kevin Sebastian	END TIME (MST):	13:47

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1034745845	1102
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.995	0.998	0.997

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
	10.32	11.55	21.86		10.12	11.05	21.18

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			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	14.73	13.94	28.67	14.57	13.46	28.03	0.988	0.964	0.976	0.999	0.998	0.999
3471	28.40	3499	7.28	6.72	14.00	n/a	n/a	n/a	7.28	6.72	14.00	n/a	n/a	n/a	1.000	1.000	1.000
3486	14.20	3500	3.64	3.36	7.00	n/a	n/a	n/a	3.64	3.36	7.00	n/a	n/a	n/a	1.000	0.999	1.000

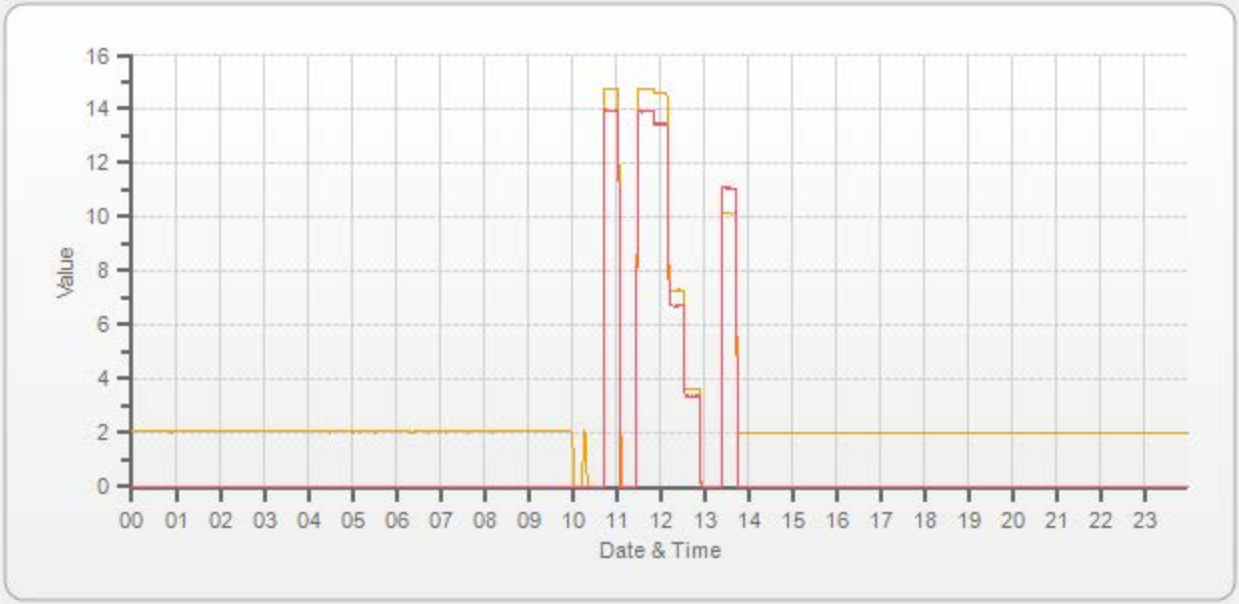
LINEAR REGRESSION ANALYSIS:

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

Comments:

Sample Filter Changed

Station: Peace River Complex [PRC] Daily: 2024-11-20 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	November 20, 2024		
Technician:	Kevin Sebastian		
Station:	Peace River Compliance		
Unit:	**Make:**	**Model:**	**Serial #:**
Precipitation Sampler:	RM Young	52202	TB 16325
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:	October 17, 2024		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 181341226 expires July 17, 2024		
Reference Temperature (°C):	-15.8		
Station - Ambient Temperature (°C):	-16.5		
Temperature Difference (°C):	0.7		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	October 17, 2024		
Reference Barometer ID:	Brunton 05535 Expires July 17, 2024		
Reference Pressure - Units/Reading:	millibar	956	
Station Pressure - Units/Reading:	millibar	957	
Pressure Tolerance +/- 15% of error:	813 - 1099	-0.10%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	October 17, 2024		
Reference Hygrometer ID:	F.S. 181341226 expires July 17, 2024		
Reference Hygrometer % RH- Reading:	88.90		
Station Hygrometer % RH- Reading:	90.70		
RH Tolerance +/- 15% of difference:	75.57 - 102.24	-2.0%	

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	October 17, 2024	Previous check date:	October 17, 2024
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	E
Wind speed on Data Logger (kph):	12.4	Wind Direction on Data Logger:	E
		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

NOVEMBER 2024

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202411-INTEGRATED

December 12, 2024

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Peace River Area Monitoring Program
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Phone #: 780-226-7068 / 587-225-2248
E-mail: pramptech@prampairshed.ca
www.prampairshed.ca

December 12, 2024

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

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

Enclosed is the November 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 November 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.
  - One NMHC canister event was recorded this month.

Station	Date	Time of Concentration Reached Trigger Point	NMHC 5-minute Concentration (ppm)	Time of Canister Triggered
Reno-B	22-Nov	05:00	0.33	05:05

- **Passive Polycyclic Aromatic Compounds (PACs) Sampling Program**
  - The PAC sampling program began in November 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 are scheduled to be removed by the end of December.

- **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 1 and were removed on November 29.

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).

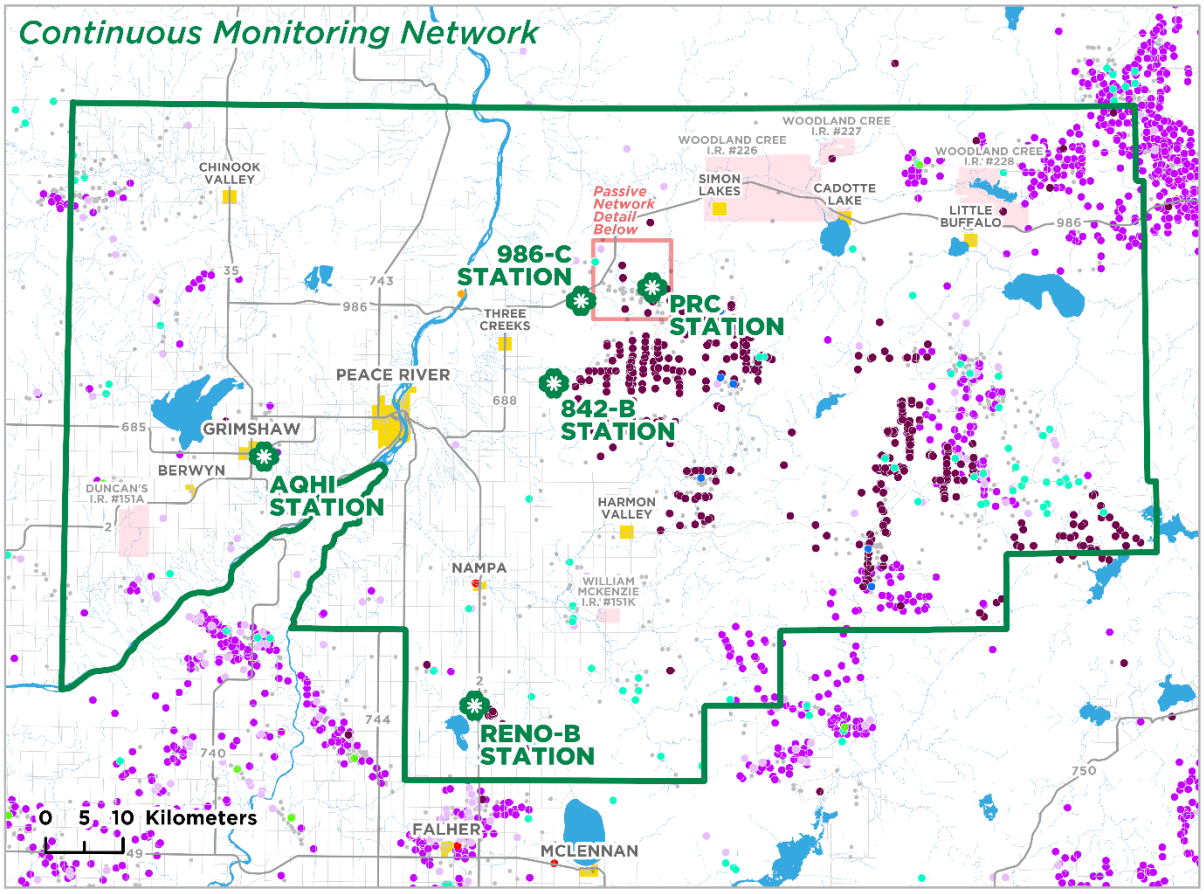
Lily Lin, Technical Program Manager, PRAMP Airshed

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

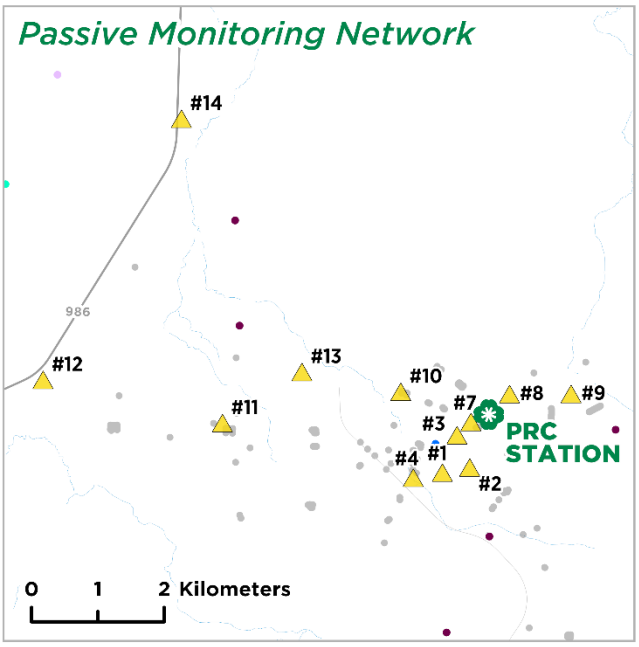


Legend

- 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**

Sample Date/Time	2024-11-22 @05:05							
Canister Sample	Non-methane Hydrocarbon							
Canister ID	32250							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	Result (ppmv)	RDL (ppmv)	Maximum Reading (ppmv)	Result (ppbv)	RDL (ppbv)	Maximum Reading (ppmv)	Result (ppbv)	RDL (ppbv)
	2.9	Methane		3.0	Carbonyl sulphide		16.0	n-Butane

Sample Date/Time	2024-11-22 @05:05							
Canister Sample	Non-methane Hydrocarbon - BLANK							
Canister ID	A47802							
Method	NA-025		Method	NA-024		Method	AC-058	
Maximum Reading (ppmv)	Result (ppmv)	RDL (ppmv)	Maximum Reading (ppmv)	Result (ppbv)	RDL (ppbv)	Maximum Reading (ppmv)	Result (ppbv)	RDL (ppbv)
	-	-		-	-		-	-

- **Passive analytical results**

	H_2S		SO_2	
Minimum (ppb)	<0.02	#7	<0.1	#12
Maximum (ppb)	0.21	#9	1.0	#8
Average (ppb)	0.07	-	0.25	-

ANALYTICAL SAMPLING RESULTS

NMHC Canisters – VOCs

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - November 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2024-11-22 @05:05								
Canister Sample	Non-methane Hydrocarbon								
Canister ID	32250								
Method	**NA-025**		**Method**	**NA-024**		**Method**		**AC-058**	
Maximum Reading (ppmv)	**2.9**	**Methane**	**Maximum Reading (ppmv)**	**3.0**	**Carbonyl sulphide**	**Maximum Reading (ppmv)**		**16.0**	**n-Butane**
Parameter	**Result (ppmv)**	**RDL (ppmv)**	**Parameter**	**Result (ppbv)**	**RDL (ppbv)**	**Parameter**	**AAAQOs (ppb**	**Result (ppbv)**	**RDL (ppbv)**
1-Butene	< 0.10	0.1	2,5-Dimethylthiophene	< 0.5	0.3	1,1,1-Trichloroethane		< 0.02	0.02
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.3	0.2	1,1,2,2-Tetrachloroethane		< 0.02	0.02
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.3	0.2	1,1,2-Trichloroethane		< 0.02	0.02
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.5	0.3	1,1-Dichloroethane		< 0.02	0.02
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.5	0.3	1,1-Dichloroethylene		< 0.02	0.02
Ethylene	< 0.07	0.07	Carbon disulphide	< 0.3	0.2	1,2,3-Trimethylbenzene		< 0.05	0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	**3.0**	0.3	1,2,4-Trichlorobenzene		< 0.3	0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.3	0.2	1,2,4-Trimethylbenzene		< 0.03	0.03
Methane	**2.9**	0.1	Dimethyl sulphide	< 0.3	0.2	1,2-Dibromoethane		< 0.02	0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.5	0.3	1,2-Dichlorobenzene		< 0.03	0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.5	0.3	1,2-Dichloroethane		< 0.03	0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.2	0.1	1,2-Dichloropropane		< 0.03	0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.5	0.3	1,3,5-Trimethylbenzene		< 0.03	0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.2	0.1	1,3-Butadiene		< 0.03	0.03
			Methyl mercaptan	< 0.3	0.2	1,3-Dichlorobenzene		< 0.4	0.4
			Pentyl mercaptan	< 0.6	0.4	1,4-Dichlorobenzene		< 0.4	0.4
			Propyl mercaptan	< 0.6	0.4	1,4-Dioxane		< 0.5	0.5
			tert-Butyl mercaptan	< 0.5	0.3	1-Butene/Isobutylene		< 0.06	0.06
			Thiophene	< 0.3	0.2	1-Hexene/2-Methyl-1-pentene		< 0.07	0.07
						1-Pentene		< 0.03	0.03
						2,2,4-Trimethylpentane		< 0.02	0.02
						2,2-Dimethylbutane		< 0.02	0.02
						2,3,4-Trimethylpentane		< 0.02	0.02
						2,3-Dimethylbutane		< 0.09	0.09
						2,3-Dimethylpentane		< 0.02	0.02
						2,4-Dimethylpentane		< 0.03	0.03
						2-Methylheptane		< 0.02	0.02
						2-Methylhexane		< 0.03	0.03
						2-Methylpentane		0.19	0.02
						3-Methylheptane		< 0.03	0.03
						3-Methylhexane		0.03	0.02
						3-Methylpentane		0.09	0.02
						Acetone	2400	< 0.4	0.4
						Acrolein	1.9	**< 0.3**	0.3
						Benzene	9.0	0.11	0.03
						Benzyl chloride		< 0.3	0.3
						Bromodichloromethane		< 0.03	0.03
						Bromoform		< 0.02	0.02
						Bromomethane		< 0.02	0.02
						Carbon disulfide	10	< 0.02	0.02
						Carbon tetrachloride		0.07	0.02
						Chlorobenzene		< 0.02	0.02
						Chloroethane		< 0.02	0.02
						Chloroform		< 0.02	0.02
						Chloromethane		0.57	0.04
						cis-1,2-Dichloroethene		< 0.02	0.02
						cis-1,3-Dichloropropene		< 0.03	0.03
						cis-2-Butene		< 0.03	0.03
						cis-2-Pentene		< 0.02	0.02
						Cyclohexane		< 0.04	0.04
						Cyclopentane		0.07	0.02
						Dibromochloromethane		< 0.02	0.02
						Ethanol		0.6	0.5
						Ethyl acetate		< 0.3	0.3
						Ethylbenzene	460	< 0.03	0.03
						Freon-11		0.24	0.02
						Freon-113		0.06	0.02
						Freon-114		< 0.03	0.03

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - November 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2024-11-22 @05:05								
Canister Sample	Non-methane Hydrocarbon								
Canister ID	32250								
Method	NA-025		Method	NA-024		Method		AC-058	
Maximum Reading (ppmv)	2.9	Methane	Maximum Reading (ppmv)	3.0	Carbonyl sulphide	Maximum Reading (ppmv)		16.0	n-Butane
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAAQOs (ppb	Result (ppbv)	RDL (ppbv)
						Freon-12		0.64	0.03
						Hexachloro-1,3-butadiene		< 0.3	0.3
						Isobutane		10.2	0.03
						Isopentane		2.41	0.04
						Isoprene		< 0.02	0.02
						Isopropyl alcohol		< 0.3	0.3
						Isopropylbenzene		< 0.04	0.04
						m,p-Xylene		< 0.04	0.04
						m-Diethylbenzene		< 0.02	0.02
						m-Ethyltoluene		< 0.03	0.03
						Methyl butyl ketone		< 0.4	0.4
						Methyl ethyl ketone		< 0.3	0.3
						Methyl isobutyl ketone		< 0.3	0.3
						Methyl methacrylate		< 0.08	0.08
						Methyl tert butyl ether		< 0.03	0.03
						Methylcyclohexane		0.03	0.02
						Methylcyclopentane		0.06	0.05
						Methylene chloride		< 0.3	0.3
						n-Butane		**16.0**	0.02
						n-Decane		< 0.06	0.06
						n-Dodecane		< 0.3	0.3
						n-Heptane		< 0.04	0.04
						n-Hexane	5960	0.1	0.03
						n-Nonane		< 0.04	0.04
						n-Octane		< 0.02	0.02
						n-Pentane		1.5	0.04
						n-Propylbenzene		< 0.06	0.06
						n-Undecane		< 0.5	0.5
						Naphthalene		< 0.3	0.3
						o-Ethyltoluene		< 0.02	0.02
						o-Xylene		< 0.03	0.03
						p-Diethylbenzene		< 0.02	0.02
						p-Ethyltoluene		< 0.04	0.04
						Styrene	52.0	< 0.04	0.04
						Tetrachloroethylene		< 0.02	0.02
						Tetrahydrofuran		< 0.3	0.3
						Toluene	499	< 0.03	0.03
						trans-1,2-Dichloroethylene		< 0.06	0.06
						trans-1,3-Dichloropropylene		< 0.02	0.02
						trans-2-Butene		< 0.03	0.03
						trans-2-Pentene		< 0.02	0.02
						Trichloroethylene		< 0.02	0.02
						Vinyl acetate		< 0.3	0.3
						Vinyl chloride	51	< 0.02	0.02

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - November 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2024-11-22 @05:05							
Canister Sample	Non-methane Hydrocarbon - BLANK							
Canister ID	A47802							
Method	**NA-025**		**Method**	**NA-024**		**Method**		**AC-058**
Maximum Reading (ppmv)	-	-	**Maximum Reading (ppmv)**	-	-	**Maximum Reading (ppmv)**	-	-
Parameter	**Result (ppmv)**	**RDL (ppmv)**	**Parameter**	**Result (ppbv)**	**RDL (ppbv)**	**Parameter**	**AAAQOs (ppb**	**Result (ppbv)**	**RDL (ppbv)**
1-Butene	< 0.10	0.1	2,5-Dimethylthiophene	< 0.3	0.3	1,1,1-Trichloroethane		< 0.02	0.02
Acetylene	< 0.08	0.08	2-Ethylthiophene	< 0.2	0.2	1,1,2,2-Tetrachloroethane		< 0.02	0.02
cis-2-Butene	< 0.04	0.04	2-Methylthiophene	< 0.2	0.2	1,1,2-Trichloroethane		< 0.02	0.02
Ethane	< 0.1	0.1	3-Methylthiophene	< 0.3	0.3	1,1-Dichloroethane		< 0.02	0.02
Ethylacetylene	< 0.06	0.06	Butyl mercaptan	< 0.3	0.3	1,1-Dichloroethylene		< 0.02	0.02
Ethylene	< 0.07	0.07	Carbon disulphide	< 0.2	0.2	1,2,3-Trimethylbenzene		< 0.05	0.05
Isobutane	< 0.1	0.1	Carbonyl sulphide	< 0.3	0.3	1,2,4-Trichlorobenzene		< 0.3	0.3
Isobutylene	< 0.1	0.1	Dimethyl disulphide	< 0.2	0.2	1,2,4-Trimethylbenzene		< 0.03	0.03
Methane	< 0.1	0.1	Dimethyl sulphide	< 0.2	0.2	1,2-Dibromoethane		< 0.02	0.02
n-Butane	< 0.2	0.2	Ethyl mercaptan	< 0.3	0.3	1,2-Dichlorobenzene		< 0.03	0.03
n-Propane	< 0.07	0.07	Ethyl sulphide	< 0.3	0.3	1,2-Dichloroethane		< 0.03	0.03
Propylene	< 0.1	0.1	Hydrogen sulphide	< 0.1	0.1	1,2-Dichloropropane		< 0.03	0.03
Propyne	< 0.1	0.1	Isobutyl mercaptan	< 0.3	0.3	1,3,5-Trimethylbenzene		< 0.03	0.03
trans-2-Butene	< 0.09	0.09	Isopropyl mercaptan	< 0.1	0.1	1,3-Butadiene		< 0.03	0.03
			Methyl mercaptan	< 0.2	0.2	1,3-Dichlorobenzene		< 0.4	0.4
			Pentyl mercaptan	< 0.4	0.4	1,4-Dichlorobenzene		< 0.4	0.4
			Propyl mercaptan	< 0.4	0.4	1,4-Dioxane		< 0.5	0.5
			tert-Butyl mercaptan	< 0.3	0.3	1-Butene/Isobutylene		< 0.06	0.06
			Thiophene	< 0.2	0.2	1-Hexene/2-Methyl-1-pentene		< 0.07	0.07
						1-Pentene		< 0.03	0.03
						2,2,4-Trimethylpentane		< 0.02	0.02
						2,2-Dimethylbutane		< 0.02	0.02
						2,3,4-Trimethylpentane		< 0.02	0.02
						2,3-Dimethylbutane		< 0.09	0.09
						2,3-Dimethylpentane		< 0.02	0.02
						2,4-Dimethylpentane		< 0.03	0.03
						2-Methylheptane		< 0.02	0.02
						2-Methylhexane		< 0.03	0.03
						2-Methylpentane		< 0.02	0.02
						3-Methylheptane		< 0.03	0.03
						3-Methylhexane		< 0.02	0.02
						3-Methylpentane		< 0.02	0.02
						Acetone	2400	< 0.4	0.4
						Acrolein	1.9	< 0.3	0.3
						Benzene	9.0	< 0.03	0.03
						Benzyl chloride		< 0.3	0.3
						Bromodichloromethane		< 0.03	0.03
						Bromoform		< 0.02	0.02
						Bromomethane		< 0.02	0.02
						Carbon disulfide	10	< 0.02	0.02
						Carbon tetrachloride		< 0.02	0.02
						Chlorobenzene		< 0.02	0.02
						Chloroethane		< 0.02	0.02
						Chloroform		< 0.02	0.02
						Chloromethane		< 0.04	0.04
						cis-1,2-Dichloroethene		< 0.02	0.02
						cis-1,3-Dichloropropene		< 0.03	0.03
						cis-2-Butene		< 0.03	0.03
						cis-2-Pentene		< 0.02	0.02
						Cyclohexane		< 0.04	0.04
						Cyclopentane		< 0.02	0.02
						Dibromochloromethane		< 0.02	0.02
						Ethanol		< 0.5	0.5
						Ethyl acetate		< 0.3	0.3
						Ethylbenzene	460	< 0.03	0.03
						Freon-11		< 0.02	0.02
						Freon-113		< 0.02	0.02
						Freon-114		< 0.03	0.03

PEACE RIVER AREA MONITORING PROGRAM

Reno-B Station - November 2024

Volatile Organic Compounds (VOCs) Results

Sample Date/Time	2024-11-22 @05:05								
Canister Sample	Non-methane Hydrocarbon - BLANK								
Canister ID	A47802								
Method	NA-025		Method	NA-024		Method		AC-058	
Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)	-	-	Maximum Reading (ppmv)		-	-
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	AAAQOs (ppb	Result (ppbv)	RDL (ppbv)
						Freon-12		< 0.03	0.03
						Hexachloro-1,3-butadiene		< 0.3	0.30
						Isobutane		< 0.03	0.03
						Isopentane		< 0.04	0.04
						Isoprene		< 0.02	0.02
						Isopropyl alcohol		< 0.3	0.3
						Isopropylbenzene		< 0.04	0.04
						m,p-Xylene		< 0.04	0.04
						m-Diethylbenzene		< 0.02	0.02
						m-Ethyltoluene		< 0.03	0.03
						Methyl butyl ketone		< 0.4	0.40
						Methyl ethyl ketone		< 0.3	0.3
						Methyl isobutyl ketone		< 0.3	0.3
						Methyl methacrylate		< 0.08	0.08
						Methyl tert butyl ether		< 0.03	0.03
						Methylcyclohexane		< 0.02	0.02
						Methylcyclopentane		< 0.05	0.05
						Methylene chloride		< 0.3	0.3
						n-Butane		< 0.02	0.02
						n-Decane		< 0.06	0.06
						n-Dodecane		< 0.3	0.3
						n-Heptane		< 0.04	0.04
						n-Hexane	5960	< 0.03	0.03
						n-Nonane		< 0.04	0.04
						n-Octane		< 0.02	0.02
						n-Pentane		< 0.04	0.0
						n-Propylbenzene		< 0.06	0.06
						n-Undecane		< 0.5	0.5
						Naphthalene		< 0.3	0.3
						o-Ethyltoluene		< 0.02	0.02
						o-Xylene		< 0.03	0.03
						p-Diethylbenzene		< 0.02	0.02
						p-Ethyltoluene		< 0.04	0.04
						Styrene	52.0	< 0.04	0.04
						Tetrachloroethylene		< 0.02	0.02
						Tetrahydrofuran		< 0.3	0.3
						Toluene	499	< 0.03	0.03
						trans-1,2-Dichloroethylene		< 0.06	0.06
						trans-1,3-Dichloropropylene		< 0.02	0.02
						trans-2-Butene		< 0.03	0.03
						trans-2-Pentene		< 0.02	0.02
						Trichloroethylene		< 0.02	0.02
						Vinyl acetate		< 0.3	0.3
						Vinyl chloride	51	< 0.02	0.02

Passives

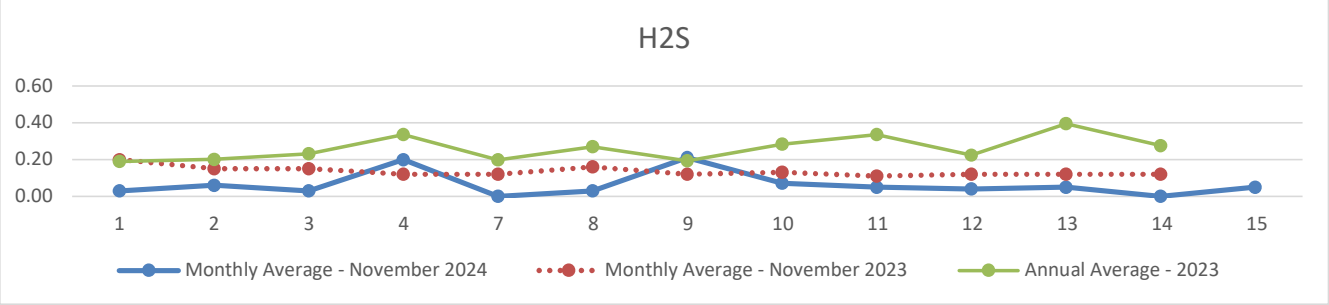
PEACE RIVER AREA MONITORING PROGRAM

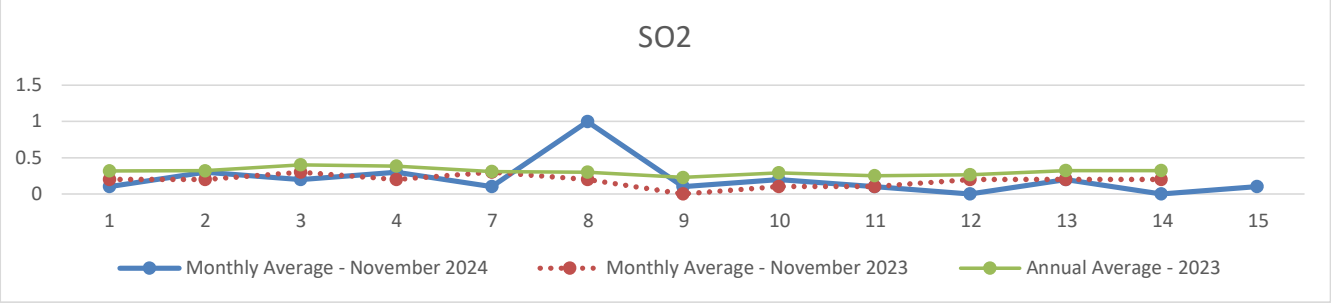
PRC Site - November 2024

Passive Results

	H_2S		SO_2	
Minimum (ppb)	<0.02	#7	<0.1	#12
Maximum (ppb)	0.21	#9	1.0	#8
Average (ppb)	0.07	-	0.25	-

No.	Calculated Value	Calculated Value
1	0.03	0.1
2	0.06	0.3
3	0.03	0.2
4	0.20	0.3
7	<0.02	0.1
8	0.03	1.0
9	0.21	0.1
10	0.07	0.2
11	0.05	0.1
12	0.04	<0.1
13	0.05	0.2
14	<0.02	<0.1
15	0.05	0.1
Reportable Detection Limit (RDL)	**0.02**	**0.1**





End of Report

Peace River Area Monitoring Program

NOVEMBER 2024

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202411

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

December 4, 2024

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NMHC Canister Analytical Results

InnoTech ALBERTA

Highway 16A & 75 Street
PO Bag 4000
Vegreville, AB, T9C 1T4
Environmental Analytical Services
Phone: (780) 632-8403 Fax: (780) 632-8620

EAS CANISTER CHAIN OF CUSTODY FORM

Sample ID: 24110219-001 **Priority:** Normal

Customer ID: PRAMP
Cust Samp ID: PRAMP_Reno-20241122

Date Received- Lab Use Only

RECEIVED
NOV 26 2024

Client Contact Details:

Contact: Karla Ressor, Michael Bisaga/ Lily Lin
Company: PRAMP Airshed
PO#: □ 842b Station □ 986c Station ☒ Reno Station
Address: □ 842b (Lat. 56.27406N, Long. 116.98129W)
□ 986c (Lat. 56.36988N, Long. 116.925636W)
☒ Reno (Lat. 55.86936N, Long. 117.05739W)
Telephone: 403-8072995, 780-2667068/587-2252248
Email: karla@prampairshed.ca, pramptech@prampairshed.ca

RUSH (Surcharge) ☐

Invoice Instructions:
Send to: officemanager@prampairshed.ca, karla@prampairshed.ca, pramptech@prampairshed.ca Attention: PRAMP Office Manager
Any correspondence related to canister analysis, send the information to karla@prampairshed.ca and pramptech@prampairshed.ca

InnoTech Contact: Graham Knox Phone: 780-632-8403 Cell: 780-632-1519
Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP_station_yyyymmdd) (Find Sample ID from BV's email)	Canister ID (Find canister ID from canister tag)	Sample Description	Date/Time Canister Triggered (Find Date/Time from BV's email)		Analysis Requested
			Date (yyyy/mm/dd)	Time (24 Hr) (MST)	
PRAMP_842b-		□ Methane Trigger			* C1C4 Air, VOC Full, RSC Air
		☒ NMHC Trigger			* Unknowns to be reported
PRAMP_986c-		□ Methane Blank			* Carbon Isotopic Analysis (if sample is collected from Methane trigger)
PRAMP_Reno- 20241122	32250	□ NMHC Blank	20241122	0505	
cooler: 16-036		□ Expired Canister – No further analysis is required.			

Sample Collection:

Collected By JM **(Name) of** PRAMP **(Company) on** 11222024 / 1540 **(Date/Time) (MST).**

InnoTech ALBERTA

Highway 16A & 75 Street
PO Bag 4000
Vegreville, AB, T9C 1T4
Environmental Analytical Services
Phone: (780) 632-8403 Fax: (780) 632-8620

EAS CANISTER

Sample ID: 24110219-002 **Priority:** Normal

Customer ID: PRAMP
Cust Samp ID: PRAMP_Reno-20241122-Blank

Date Received- Lab Use Only: RECEIVED NOV 26 2024

Client Contact Details:

Contact: Karla Ressor, Michael Bisaga/ Lily Lin
Company: PRAMP Airshed
PO#: □ 842b Station □ 986c Station ☒ Reno Station
Address: □ 842b (Lat. 56.27406N, Long. 116.98129W)
□ 986c (Lat. 56.36988N, Long. 116.925636W)
☒ Reno (Lat. 55.86936N, Long. 117.05739W)
Telephone: 403-8072995, 780-2667068/587-2252248
Email: karla@prampairshed.ca, pramptech@prampairshed.ca

RUSH (Surcharge) ☐

Invoice Instructions:
Send to: officemanager@prampairshed.ca, karla@prampairshed.ca, pramptech@prampairshed.ca Attention: PRAMP Office Manager
Any correspondence related to canister analysis, send the information to karla@prampairshed.ca and pramptech@prampairshed.ca

InnoTech Contact: Graham Knox Phone: 780-632-8403 Cell: 780-632-1519
Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP_station_yyyymmdd) (Find Sample ID from BV's email)	Canister ID (Find canister ID from canister tag)	Sample Description	Date/Time Canister Triggered (Find Date/Time from BV's email)		Analysis Requested
			Date (yyyy/mm/dd)	Time (24 Hr) (MST)	
PRAMP_842b-		□ Methane Trigger			* C1C4 Air, VOC Full, RSC Air
		□ NMHC Trigger			* Unknowns to be reported
PRAMP_986c-		□ Methane Blank			* Carbon Isotopic Analysis (if sample is collected from Methane trigger)
PRAMP_Reno- 20241122	A47802	☒ NMHC Blank	20241122	0505	
		□ Expired Canister – No further analysis is required.			

Sample Collection:

Collected By JM **(Name) of** PRAMP **(Company) on** 11.22.24/1540 **(Date/Time) (MST).**

InnoTech ALBERTA

Canister ID: 32250

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ on: SEP 09 2024

Evacuated: NOV 07 2024 Recertified: _____

(Use within: 3 months from evacuation or recertification date)

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP

Sampled By: _____

-4 "Hg JMP

Starting Vacuum: -27.1 "Hg

End Vacuum: -6 "Hg/psig

InnoTech ALBERTA

Canister ID: A47802

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: ISQ on: SEP 09 2024

Evacuated: NOV 07 2024 Recertified: _____

(Use within: 3 months from evacuation or recertification date)

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP

Sampled By: _____

Starting Vacuum: -27.1 "Hg

End Vacuum: JMP -29 "Hg/psig

Sample ID: 24110219-001 **Priority:** Normal

Customer ID: PRAMP

Cust Samp ID: PRAMP_Reno-20241122

{00004818;6}

TERMS AND CONDITIONS

The attached document entitled **"Chain of Custody Form"** is subject to the following Terms and Conditions, unless otherwise specified on the Quotation. InnoTech Alberta's commencement of the Services shall be deemed acceptance of the terms and conditions by the Client.

1. Any proposal contained herein is prepared for the consideration of the Client only. Its contents may not be used or disclosed to any other party without prior written consent of the INNOTECH ALBERTA INC. (hereinafter referred to as "InnoTech Alberta").

2. InnoTech Alberta will perform the Services in accordance with normal professional standards.

3. The delivery time for performance of the Services (as set out on the front page of this Quotation) is approximate and may be changed by InnoTech Alberta giving written notice to the Client.

4. InnoTech Alberta will exercise due care and proficiency in testing items submitted by a Client. InnoTech Alberta shall not, however, be liable to the Client for any damage or loss caused to the item being tested or for any damage, loss or expense caused by any delay in carrying out the test, including any damage, loss or expense resulting from InnoTech Alberta's negligence. InnoTech Alberta shall not be responsible for any damage, which is a natural or necessary result of any testing procedure.

5. For the purposes of this Quotation, Intellectual Property means all information, data, artistic and literary works, concepts, designs, processes, software, algorithms and inventions, including, without limitation, those that could be the subject of patent, copyright, industrial design, trade secret or other forms of protection. Intellectual Property which was owned by either InnoTech Alberta or the Client prior to the signing of this Agreement remains the property of that party. Nothing in this Agreement shall operate as a license, permission or grant of any other rights to either InnoTech Alberta's or the Client's Intellectual Property.

6. All data, reports and other information relating to the Services shall be treated by InnoTech Alberta as the confidential property of the Client, and InnoTech Alberta will use reasonable efforts to ensure that its employees, contractors and agents will not disclose the same to any other person, firm or corporation during the term of this Agreement and for a period of five (5) years after the date of termination of the Agreement. The obligation of confidentiality set out herein shall not apply to any information that was in InnoTech Alberta's possession prior to receipt from the Client or which is or becomes part of the public domain through no act or failure on the part of InnoTech Alberta. The obligation of confidentiality set out in this Section shall not prevent the disclosure of information to any level of government having jurisdiction to make lawful demand therefor, or required to be disclosed by any applicable law. Any records required to be maintained by InnoTech Alberta pursuant to this Agreement are subject to the protection and access provisions of the Freedom of Information and Protection of Privacy Act (Alberta).

7. The reported results of any InnoTech Alberta tests or evaluations performed on samples or items provided by the Client shall be interpreted as being specific to the sample or item tested. InnoTech Alberta makes no representation that any similar or related untested samples or items would produce the same results.

8. The Client shall not use InnoTech Alberta's name in any advertising material, sale offer, news releases, public statements or announcements, whether written or oral relating to the Services or the results thereof, without the prior written consent of InnoTech Alberta.

9. Records, test data, reports and samples, except where shipped to the Client after completion of the work shall be retained by InnoTech Alberta according to InnoTech Alberta's approved Records Retention and Disposition Schedule.

10. Prices quoted are in Canadian Dollars unless otherwise stated in writing and are exclusive of any provincial, municipal, sales, use or goods and services tax.

11. Prices quoted do not include shipping, insurance or cost of consumables. The Client shall be responsible for all costs incurred by InnoTech Alberta in collecting any item for testing and returning the item to the Client after testing and shall be responsible for all necessary incidental costs incurred by InnoTech Alberta in providing the Services. InnoTech Alberta will not be responsible for any damage or loss to items during shipping and it is the responsibility of the Client to arrange and pay for any insurance it deems necessary.

12. Any test samples or other materials supplied by the Client to InnoTech Alberta may, at InnoTech Alberta's option, be returned by InnoTech Alberta to the Client. The Client shall:

(a) be responsible for all costs associated with the handling, transportation and disposal of such materials;

(b) reimburse InnoTech Alberta for any costs incurred by InnoTech Alberta associated with the handling, transportation and disposal of such materials; and

(c) indemnify and hold InnoTech Alberta harmless from any and all claims, damages or actions associated with the handling, transportation and disposal of such materials.

13. The Client shall pay all invoices rendered by InnoTech Alberta to the Client within thirty (30) days from the date of invoice, without deduction or set-off.

14. If the Client fails to pay any amount under this Agreement, such unpaid amount shall bear interest at a rate per month equal to one (1%) percent (or 12.6825% per annum) with interest on overdue interest at the same rate.

15. InnoTech Alberta makes no representation, warranties or conditions, either expressed or implied, statutory or otherwise and does not warrant the quality, state, merchantability or fitness for any purpose of any goods or products to be delivered pursuant to this Agreement. The Client accepts the results of these Services or items tested as is, and acknowledges that any use or interpretation of the information contained is at the Client's own risk.

16. In no event shall InnoTech Alberta be liable for any indirect or consequential damage or loss suffered by the Client, including loss of anticipated profits.

17. The Client shall indemnify and hold harmless InnoTech Alberta from any and all claims, demands, actions and costs (including legal costs on a solicitor-client basis) that may arise out of:

(a) any dangerous defect or content in the item being tested, whether apparent or not, which dangerous defect or content was not disclosed in writing to InnoTech Alberta by the Client at the time the item was submitted for testing;

(b) differences between those items actually tested and items previously or subsequently produced which are purported to be identical to the item tested; or

(c) any use of the tested item or any item incorporating the tested item, whether by the Client or a third party following its return to the Client.

The hold harmless shall survive this Agreement.

18. The Client shall, at its own expense and without limiting its liabilities herein, be responsible for insuring its operation in an amount not less than $2,000,000 inclusive per occurrence, insuring against bodily injury, and property damage including loss of use thereof. Further, the Client is responsible for insuring all owned property directly or indirectly related to this Agreement and InnoTech Alberta shall have no liability for any loss or damage to such property.

19. InnoTech Alberta shall maintain the following insurance: (i) commercial general liability insurance (including cross liability, severability of interests, non-owned automobile liability) in the amount of two million dollars ($2,000,000.00) per occurrence, and; (ii) professional liability and errors and omissions insurance in the amount of one million dollars ($1,000,000.00) per claim, and two million dollars ($2,000,000.00) in the aggregate. In addition, InnoTech Alberta shall maintain all workers' compensation coverage required by applicable laws. Notwithstanding the foregoing, InnoTech Alberta reserves the right to supplement or add insurance coverage from time to time as may be required in its sole discretion. InnoTech Alberta may provide certificates of insurance for coverages outlined in (i) and (ii) above.

20. The Client agrees to comply with all InnoTech Alberta Safety & Security regulations in effect while on InnoTech Alberta premises.

21. This Agreement represents the entire agreement between the parties and shall supersede all prior agreements relative to this transaction.

22. If a party's performance of any of its obligations under this Agreement (excepting only an obligation to pay) is delayed, rendered impossible or impractical, or prevented in whole or in part due to circumstances beyond its reasonable control, including but not limited to acts of God, war, terrorism, labour disputes, pandemics or epidemics, global health emergencies, or governmental action, that party will not be in breach of this Agreement due to the delay or failure in performance occasioned by such event..

23. InnoTech Alberta may assign this Quotation to an "affiliated" (as that term is defined at Section 2 of the Business Corporations Act (Alberta)) or successor entity on written notice to the Client.

24. This Quotation and rights and parties thereto shall be governed by and construed according to the laws of the Province of Alberta. The parties hereby submit to the jurisdiction of the Courts of Alberta.

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APPLIED CHEMISTRY SERVICES

TEST REPORT

RESULTS: Karla Reesor 403 807 2995
Peace River Area Monitoring Program Committee

INVOICE: Office Manager

CLIENT SAMPLE ID: PRAMP_Reno-20241122

Matrix: Ambient Air

CANISTER ID: 32250

PRIORITY: Normal

DESCRIPTION: NMHC Trigger

DATE SAMPLED: 22-Nov-24 5:05

DATE RECEIVED: 26-Nov-24

REPORT CREATED: 16-Dec-24

REPORT NUMBER: 24110219

VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-001	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	27-Nov-24
24110219-001	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	27-Nov-24
24110219-001	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	27-Nov-24
24110219-001	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	27-Nov-24
24110219-001	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-001	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	27-Nov-24
24110219-001	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	27-Nov-24
24110219-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-001	Methane		2.9	ppmv	0.1	NA-025	27-Nov-24
24110219-001	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	27-Nov-24
24110219-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-001	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	27-Nov-24
24110219-001	2,5-Dimethylthiophene	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024

Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122	32250	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-001	3-Methylthiophene	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Butyl mercaptan	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Carbon disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-001	Carbonyl sulphide		3.0	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Dimethyl disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-001	Dimethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-001	Ethyl mercaptan	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Ethyl sulphide	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Hydrogen sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-001	Isobutyl mercaptan	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Isopropyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-001	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-001	Pentyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	26-Nov-24
24110219-001	Propyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	26-Nov-24
24110219-001	tert-Butyl mercaptan	K, T, U	< 0.5	ppbv	0.5	NA-024	26-Nov-24
24110219-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-001	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	03-Dec-24
24110219-001	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	1,2,4-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122	32250	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-001	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-001	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-001	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	03-Dec-24
24110219-001	1-Butene/Isobutylene	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07	ppbv	0.07	AC-058	03-Dec-24
24110219-001	1-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	2,3-Dimethylbutane	K, T, U	< 0.09	ppbv	0.09	AC-058	03-Dec-24
24110219-001	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	2,4-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	2-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	2-Methylpentane		0.19	ppbv	0.02	AC-058	03-Dec-24
24110219-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	3-Methylhexane	I	0.03	ppbv	0.02	AC-058	03-Dec-24
24110219-001	3-Methylpentane	I	0.09	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-001	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122	32250	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-001	Benzene	I	0.11	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Benzyl chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Bromomethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Carbon disulfide	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Carbon tetrachloride	I	0.07	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Chloromethane		0.57	ppbv	0.04	AC-058	03-Dec-24
24110219-001	cis-1,2-Dichloroethene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	cis-1,3-Dichloropropene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Cyclohexane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	Cyclopentane	I	0.07	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Dibromochloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Ethanol	I	0.6	ppbv	0.5	AC-058	03-Dec-24
24110219-001	Ethyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Ethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Freon-11		0.24	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Freon-113	I	0.06	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Freon-12		0.64	ppbv	0.03	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122	32250	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-001	Hexachloro-1,3-butadiene	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Isobutane		10.2	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Isopentane		2.41	ppbv	0.04	AC-058	03-Dec-24
24110219-001	Isoprene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Isopropyl alcohol	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Isopropylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	m-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	m-Ethyltoluene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Methyl butyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-001	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Methyl isobutyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Methyl methacrylate	K, T, U	< 0.08	ppbv	0.08	AC-058	03-Dec-24
24110219-001	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	Methylcyclohexane	I	0.03	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Methylcyclopentane	I	0.06	ppbv	0.05	AC-058	03-Dec-24
24110219-001	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	n-Butane		16.0	ppbv	0.02	AC-058	03-Dec-24
24110219-001	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-001	n-Dodecane	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	n-Heptane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	n-Hexane	I	0.10	ppbv	0.03	AC-058	03-Dec-24
24110219-001	n-Octane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	n-Pentane		1.50	ppbv	0.04	AC-058	03-Dec-24
24110219-001	n-Propylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122	32250	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Trigger

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-001	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	03-Dec-24
24110219-001	Naphthalene	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	n-Nonane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	o-Ethyltoluene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	o-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	p-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	p-Ethyltoluene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	Styrene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-001	Tetrachloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Tetrahydrofuran	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Toluene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	trans-1,2-Dichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-001	trans-1,3-Dichloropropylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	trans-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-001	trans-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Trichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-001	Vinyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-001	Vinyl chloride	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122-Blank	A47802	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Blank

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-002	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	27-Nov-24
24110219-002	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	27-Nov-24
24110219-002	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	27-Nov-24
24110219-002	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	27-Nov-24
24110219-002	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-002	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	27-Nov-24
24110219-002	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	27-Nov-24
24110219-002	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-002	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-002	Methane	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-002	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	27-Nov-24
24110219-002	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-002	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	27-Nov-24
24110219-002	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	27-Nov-24
24110219-002	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024

Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122-Blank	A47802	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Blank

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-002	Hydrogen sulphide	K, T, U	< 0.1	ppbv	0.1	NA-024	26-Nov-24
24110219-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	Isopropyl mercaptan	K, T, U	< 0.1	ppbv	0.1	NA-024	26-Nov-24
24110219-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	26-Nov-24
24110219-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	26-Nov-24
24110219-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	26-Nov-24
24110219-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	26-Nov-24
24110219-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	03-Dec-24
24110219-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	1,2,4-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-002	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122-Blank	A47802	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Blank

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-002	1-Butene/Isobutylene	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07	ppbv	0.07	AC-058	03-Dec-24
24110219-002	1-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	2,3-Dimethylbutane	K, T, U	< 0.09	ppbv	0.09	AC-058	03-Dec-24
24110219-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	2,4-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	2-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	2-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	3-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Benzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Benzyl chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Bromomethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Carbon disulfide	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Carbon tetrachloride	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122-Blank	A47802	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Blank

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Chloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	cis-1,2-Dichloroethene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	cis-1,3-Dichloropropene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Cyclohexane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	Cyclopentane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Dibromochloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Ethanol	K, T, U	< 0.5	ppbv	0.5	AC-058	03-Dec-24
24110219-002	Ethyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Ethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Freon-11	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Freon-113	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Freon-12	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Isobutane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Isopentane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	Isoprene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Isopropyl alcohol	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Isopropylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	m-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122-Blank	A47802	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Blank

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-002	m-Ethyltoluene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Methyl butyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	03-Dec-24
24110219-002	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Methyl isobutyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Methyl methacrylate	K, T, U	< 0.08	ppbv	0.08	AC-058	03-Dec-24
24110219-002	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	Methylcyclohexane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Methylcyclopentane	K, T, U	< 0.05	ppbv	0.05	AC-058	03-Dec-24
24110219-002	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	n-Butane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-002	n-Dodecane	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	n-Heptane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	n-Hexane	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	n-Octane	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	n-Pentane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	n-Propylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-002	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	03-Dec-24
24110219-002	Naphthalene	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	n-Nonane	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	o-Ethyltoluene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	o-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	p-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	p-Ethyltoluene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24
24110219-002	Styrene	K, T, U	< 0.04	ppbv	0.04	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024 Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

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APPLIED CHEMISTRY SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20241122-Blank	A47802	Ambient Air	22-Nov-24 5:05

DESCRIPTION: NMHC Blank

REPORT NUMBER: 24110219 **REPORT CREATED:** 16-Dec-24 **VERSION:** Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
24110219-002	Tetrachloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Tetrahydrofuran	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Toluene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	03-Dec-24
24110219-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	trans-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	03-Dec-24
24110219-002	trans-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Trichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24
24110219-002	Vinyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	03-Dec-24
24110219-002	Vinyl chloride	K, T, U	< 0.02	ppbv	0.02	AC-058	03-Dec-24

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: December 16, 2024

Inquiries: (780) 632 8403 E-mail: EAS.Results@innotechalberta.ca

Revision History

Order ID	Ver	Date	Reason
24110219	01	16-Dec-24	Report created

Methods

Method	Description
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
NA-024	Analysis for Reduced Sulfur Compounds in Air Samples
NA-025	Determination of Light Hydrocarbons (C1C4) in Ambient Air by Gas Chromatography Flame Ionization Detector

List of Analytical Method IDs within InnoTech's ISO/IEC 17025:2017 CALA Scope of Accreditation

Method ID	Description
AC-013	Mercury in Waters by Cold Vapor Atomic Fluorescence Detection (CVAFS)
AC-020	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-021	Elemental Analysis Methodology of Filter-collected Airborne Particulate Matter (PM) by ICP-MS
AC-026	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-029	Procedure for the Equilibration and Weighing of Membrane Filters and PUFs on the Mettler Toledo Micro Balance
AC-035	Analysis of Glyphosate, Aminomethylphosphonic Acid and Glufosinate in Water
AC-038	Trace Metal Analysis of Water Samples by ICP-MS
AC-048	Specific Conductance (Conductivity Meter Method)
AC-049	pH (Meter Method)
AC-054	Alkalinity Total and Phenolphthalein
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
AC-060	Trace Metal Analysis of Soil Sediment and Industrial Waste Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-061	Trace Metal Analysis for Biological Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-065	Analysis of Naphthenic Acids in Water by HPLC-Orbitrap-MS analysis
AC-074	Pesticides in Water
AC-079	Alkylated PAH in Soil and Sediment
AC-080	Alkylated PAH in Water (SPE Extraction)
NA-006	Determination of BTEX, F1 Hydrocarbons and F2, F3 and F4 Hydrocarbons in Water
NA-024	Analysis of Reduced Sulfur Compounds in Air

Qualifiers

Data Qualifier	Translation
B	Blank contamination; Analyte detected above the method reporting limit in an associated blank
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J1	Reported value is estimated; Surrogate recoveries limits were exceeded
J2	Reported value is estimated; No known QC criteria for this component
J3	Reported value is estimated; The value failed to meet QC criteria for either precision or accuracy
J4	Reported value is estimated; The sample matrix interfered with the analysis
K	Off-scale low. Actual value is known to be less than the value given
L	Off-scale high. Actual value is known to be greater than value given
N	Non-target analyte; Tentatively identified compound (using mass spectroscopy)
Q	Sample held beyond the accepted holding time
R	Rejected data; Not suitable for the projects intended use
T	Value reported is less than the laboratory method detection limit
U	Compound was analyzed for but not detected
V	Analyte was detected in both the sample and the associated method blank

Order Comments

24110219

Report unknowns. Send results to pramptech@prampairshed.ca.

Sample Comments

Result Comments

Note:

1. Results relate only to items tested and apply to the sample as received.

2. This report shall not be reproduced, except in full, without the explicit approval of the laboratory.

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

Page ___ of ___

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	01/11/24	8:00	29/11/24	8:00		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 Guesin **Phone/Email** 618 1880 **Received By** Bo Guesin **Date/Time** Nov. 1-24 15502 15465 **Project #** ___

Date Shipped ___ **Signature** ___ **PO#** ___ AR 24-12-03 CC5100

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 #: 2024/11/01-2024/11/29
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: 2024/12/11
Report #: R3599356
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C498298
Received: 2024/12/03, 08:00

Sample Matrix: Air
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	13	2024/12/04	2024/12/11	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	13	2024/12/05	2024/12/11	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
12 Dec 2024 09:29:13

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

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

Bureau Veritas Job #: C498298
Report Date: 2024/12/11

Peace River Area Monitoring Program Committee
Client Project #: 2024/11/01-2024/11/29
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		DBK244	DBK245	DBK246	DBK247	DBK248	DBK249	DBK250		
Sampling Date		2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.03	0.06	0.03	0.20	<0.02 (1)	0.03	0.21	0.02	B628256
Calculated SO2	ppb	0.1	0.3	0.2	0.3	0.1	1.0	0.1	0.1	B629059

RDL = Reportable Detection Limit
(1) V7

Bureau Veritas ID		DBK251	DBK252	DBK253	DBK254	DBK255	DBK256		
Sampling Date		2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 08:00	2024/11/01 11:00		
	UNITS	10	11	12	13	14	15	RDL	QC Batch
Passive Monitoring									
Calculated H2S	ppb	0.07	0.05	0.04	0.05	<0.02 (1)	0.05	0.02	B628256
Calculated SO2	ppb	0.2	0.1	<0.1 (1)	0.2	<0.1 (1)	0.1	0.1	B629059

RDL = Reportable Detection Limit
(1) V7

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GENERAL COMMENTS

H2S parameter has high field blank results. Samples are blank subtracted. —YL6 20241211

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
B628256	YYA	Spiked Blank	Calculated H2S			101	%	90 - 110
B629059	OZ	Spiked Blank	Calculated SO2			102	%	90 - 110
B629059	OZ	Method Blank	Calculated SO2		<0.1		ppb	

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.

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VALIDATION SIGNATURE PAGE

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

Yang Liu

Yang Liu, Laboratory Supervisor

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End of Report