Peace River Area Monitoring Program

APRIL 2023

Monthly Ambient Air Quality Monitoring Report

PRAMP-202304

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

May 26, 2023

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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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Edmonton, AB, T5K 2J6

May 26, 2023

RE: PRAMP – April 2023 Monthly Ambient Air Quality Monitoring Report

Enclosed is the April 2023 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 April 2023 were submitted to Alberta's Ambient Air Data Warehouse through ETS for the 986-C station, 842-B station, Reno-B station, PRC station and AQHI-Grimshaw station.

Monitoring Notes during the Month of April 2023

986-C Station

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

842-B Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except precipitation (85.4%). ***EPA reference #: 413785***.
- **THC/CH4/NMHC**: Due to multiple bad injection events, the analyzer failed the shut-down calibrations on both April 3 and April 24. The Thermo 55i HC analyzer, s/n: 12208316589, was removed on April 25, and the Thermo 55i HC analyzer, s/n: 1314057759, was installed on April 26. A successful installation calibration was completed on April 27. A total of one hundred and five hours of downtime were recorded due to these events.

Reno-B Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- **All gas parameters**: The scheduled daily zero-span check did not execute corrected on April 2 at hour 10. As the issue was corrected itself, troubleshooting could not be performed, and the root cause could not be determined.

PRC Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- **Datalogge**r: On April 18, the BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.
- **THC/CH4/NMHC**: On April 18, the BV-supplied Thermo 55i HC analyzer, s/n: 1022143392, was removed, and the CNRL-owned Thermo 55i HC analyzer, s/n: 1034745845, was installed. One hour of downtime was recorded due to this event.

AQHI – Grimshaw Station

- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except THC/CH4/NMHC (89.3%). ***EPA reference #: 413787***.
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM2.5. One one-

hour PM2.5 exceedance was recorded on April 14 at hour 6, at concentration of 111 ug/m3. ***EPA reference #: 411705***.

- **THC/CH4/MHC:**
    - Due to multiple bad injection events, the analyzer failed the shut-down calibrations on April 4. Maintenance was performed on April 4, and the post-repair calibration was completed on April 5. Data recorded between April 1 and April 4 were reviewed and discarded if data quality was affected by injection issues. Twenty-nine hours of downtime were recorded due to this event.
    - Persistent high NMHC values started being recorded on April 6. Maintenance was performed on April 7, and the post-repair calibration was completed on April 8. After reviewing diagnostic records, it was determined that data collected from April 6 hour 11 to April 8 hour 7 were invalid and therefore were discarded. Forty-eight hours of downtime were recorded due to this event.

VOCs Canister Sampling Program

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

Revisions to Alberta's Ambient Air Quality Data Warehouse

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

Deviations from Authorized Monitoring Methods

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

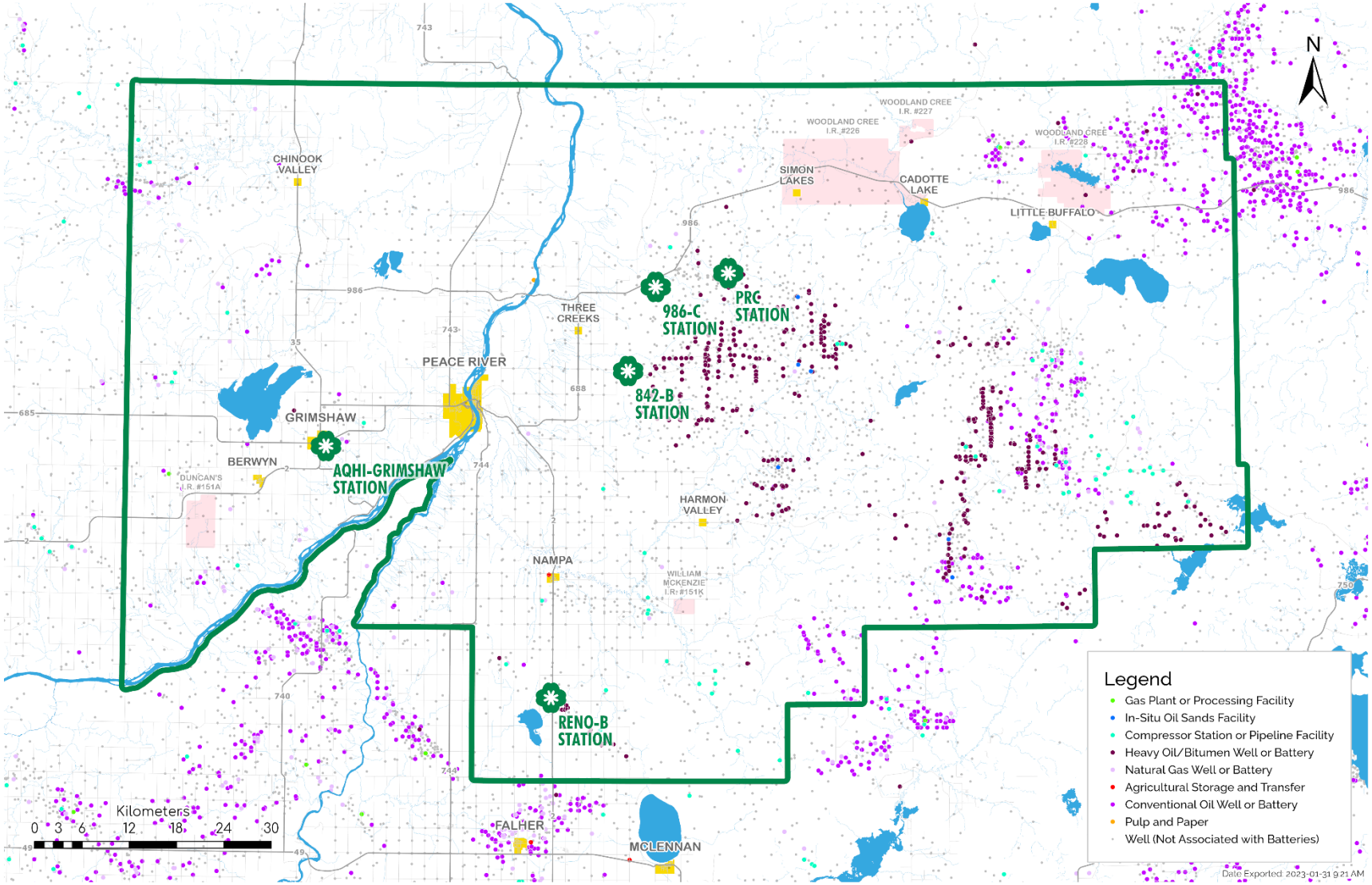
This report was reviewed by Michael Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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 Alberta's Ambient Air Quality Data Warehouse as required by the AMD. Uploading of VOC data from the canister sampling program was not required at the time of completing this report.

Michael Bisaga, Technical Program Manager, PRAMP Airshed

May 26, 2023

Map of PRAMP Continuous Monitoring Network



CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

986 -C Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43iQTL #1193585646	• A successful monthly calibration was performed on April 19. • Four hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
TRS Thermo 43iQTL #1191833341 TRS convertor CD Nova CDN-101 #552 (BV-supplied)	• A successful monthly calibration was performed on April 19. • Four hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
THC/CH4/NMHC Thermo 55i #1433563261	• A successful monthly calibration was performed on April 19. • Four hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
RH Rotronic HC2-S3 #20626912	• The RH probe was checked on April 19. The probe passed the check requirements. • Five hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
BP MetOne 092 #Y23358	• The BP sensor was checked on April 19. The sensor passed the check requirements. • Five hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
AT Rotronic HC2-S3 #20626912	• The AT probe was checked on on April 19. The probe passed the check requirements. • Five hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
ST COMET #18961918	• No operational issues were identified this month. • Five hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.

Parameter	Equipment Operational Summary
Precipitation RM Young 52202 #TB 16325	• The precipitation gauge was checked on April 19. The unit passed the check requirements. • Four hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
WS/ WD RM Young 05305AQ #180340	• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on August 5, 2022. • The anemometer sensors were check on April 19. The wind system passed the check requirements. • Five hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.

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	Apr 5 at hr 13	13.7	SW	0.2	Apr 16	99.4	94.6
TRS (ppb)	-	-	-	-	-	-	0.3	0	1	Apr 30 at hr 23	15	ESE	0.5	Apr 8	99.4	94.6
THC (ppm)	-	-	-	-	-	-	2.05	1.99	2.27	Apr 14 at hr 6	4.3	SE	2.10	Apr 30	99.4	94.7
CH4 (ppm)	-	-	-	-	-	-	2.05	1.99	2.27	Apr 14 at hr 6	4.3	SE	2.10	Apr 30	99.4	94.7
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Apr 1 at hr 0	5.7	SE	0.00	Apr 1	99.4	94.7
RH (%)	-	-	-	-	-	-	55.2	18	98	Apr 5 at hr 4	5.2	SE	78.1	Apr 23	99.3	99.3
BP (millibar)	-	-	-	-	-	-	938	921	955	Apr 21 at hr 6	6.3	E	953	Apr 20	99.3	99.3
Ext. Temp. (°C)	-	-	-	-	-	-	5.1	-7.8	24.8	Apr 30 at hr 16	10	SE	16.8	Apr 30	99.3	99.3
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.8	23.9	Apr 1 at hr 13	9.5	W	23.0	Apr 28	99.3	99.3
Precipitation (mm)*	-	-	-	-	-	-	6.1	0.0	1.9	Apr 17 at hr 11	13.8	SE	4.1	Apr 17	99.4	99.4
WSV (km/hr)	-	-	-	-	-	-	4.0	0.7	36.0	Apr 10 at hr 11	36	WSW	25.0	Apr 10	99.3	99.3
WDV (sector)	-	-	-	-	-	-	164 (SSE)	-	-	-	-	-	-	-	99.3	99.3

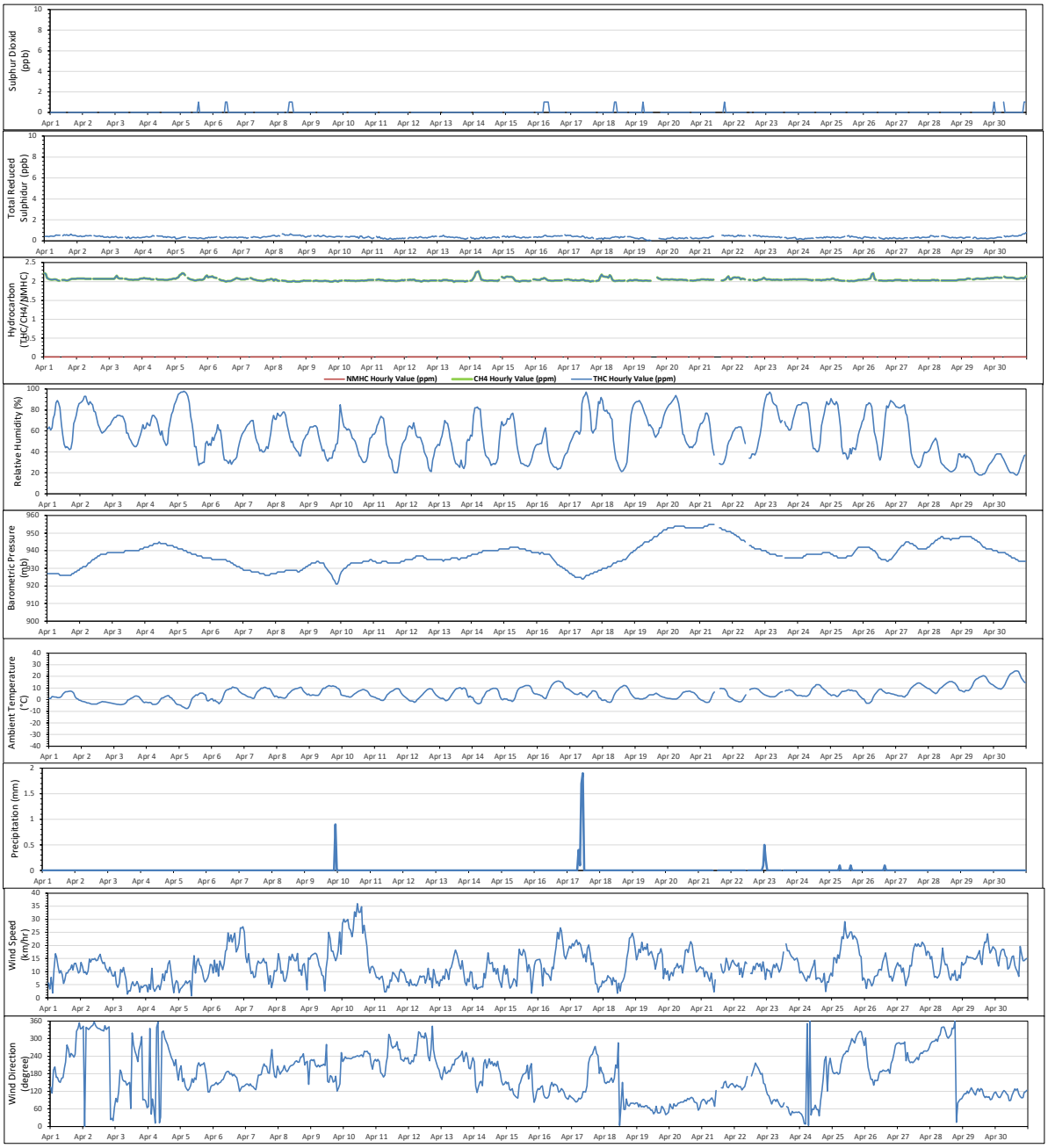
1- Date/ Time given is the first minimum and maximum value that was recorded

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Apr 2023 - 986-C Station



842-B Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43iQTL #1200736629	• A successful monthly calibration was performed on April 4.
TRS Thermo 43iQTL #1200736630 TRS Convertor CD Nova CDN-101 #583	• A successful monthly calibration was performed on April 4.
THC/CH4/NMHC Thermo 55i #12208316589 #1314057759 H2 Generator HG300 #190567058	• Multiple bad injections started being recorded on April 2. On April 3, a shut-down calibration was attempted but aborted as the analyzer failed to achieve the 15 minutes stability requirement at the high point check. Maintenance was performed and the analyzer was allowed time to stabilize overnight. A successful post-repair calibration was completed on April 4. Data collected between April 1 and 3 were reviewed and were discarded if data quality was affected by injection issues. Four hours of data were invalidated as a result. Sixteen hours of downtime were also recorded due to the maintenance activity. • Multiple bad injections started being recorded again on April 20. On April 24, a shut-down calibration was attempted but aborted as the analyzer failed to achieve the 15 minutes stability requirement at the mid point check. Maintenance was performed, but issues could not be solved in the field. The PRAMP-owned Thermo 55i HC analyzer, s/n: 12208316589, was removed on April 25. The BV-supplied Thermo 55i HC analyzer, s/n: 1314057759, was installed on April 26. The analyzer was allowed time to stabilize overnight. A successful installation calibration was completed on April 27. Eighty-five hours of downtime were recorded due to this event.
RH Rotronic HC2-S3 #20370767	• The RH probe was checked on April 4. The probe passed the check requirements.
BP MetOne 092 #Y23362	• The BP sensor was checked on April 4. The sensor passed the check requirements

Parameter	Equipment Operational Summary
AT Rotronic HC2-S3 #20370767	• The AT probe was checked on April 4. The probe passed the check requirements.
ST COMET #20790297	• No operational issues were identified this month.
Precipitation RM Young 52202 #TB 15878	• The precipitation gauge was checked on April 4. The sensor passed the check requirements.
WS/ WD RM Young 05305AQ #174802	• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on August 3, 2022. • The anemometer sensors were check on April 4. Both the wind speed sensor and wind direction sensor passed the check requirements.

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	Apr 5 at hr 10	10.5	WSW	0.3	Apr 21	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.47	0.19	0.68	Apr 7 at hr 4	9.5	SE	0.59	Apr 14	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.01	1.93	2.37	Apr 14 at hr 3	2.5	ESE	2.07	Apr 5	85.4	81.1
CH4 (ppm)	-	-	-	-	-	-	2.01	1.93	2.37	Apr 14 at hr 3	2.5	ESE	2.07	Apr 5	85.4	81.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Apr 1 at hr 0	6.4	SE	0.00	Apr 1	85.4	81.1
RH (%)	-	-	-	-	-	-	56.7	18	100	Apr 5 at hr 0	0.7	SE	80.8	Apr 23	100.0	100.0
BP (millibar)	-	-	-	-	-	-	937	920	954	Apr 21 at hr 7	5	ENE	952	Apr 21	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	5.6	-9.0	25.4	Apr 30 at hr 16	6.3	ESE	17.7	Apr 30	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.3	20.2	23.8	Apr 24 at hr 19	0.4	S	22.6	Apr 27	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	5.1	0.0	1.8	Apr 17 at hr 10	7.3	ESE	2.6	Apr 17	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	2.6	0.3	33.9	Apr 10 at hr 13	33.9	WSW	22.8	Apr 10	100.0	100.0
WDV (sector)	-	-	-	-	-	-	189 (S)	-	-	-	-	-	-	-	100.0	100.0

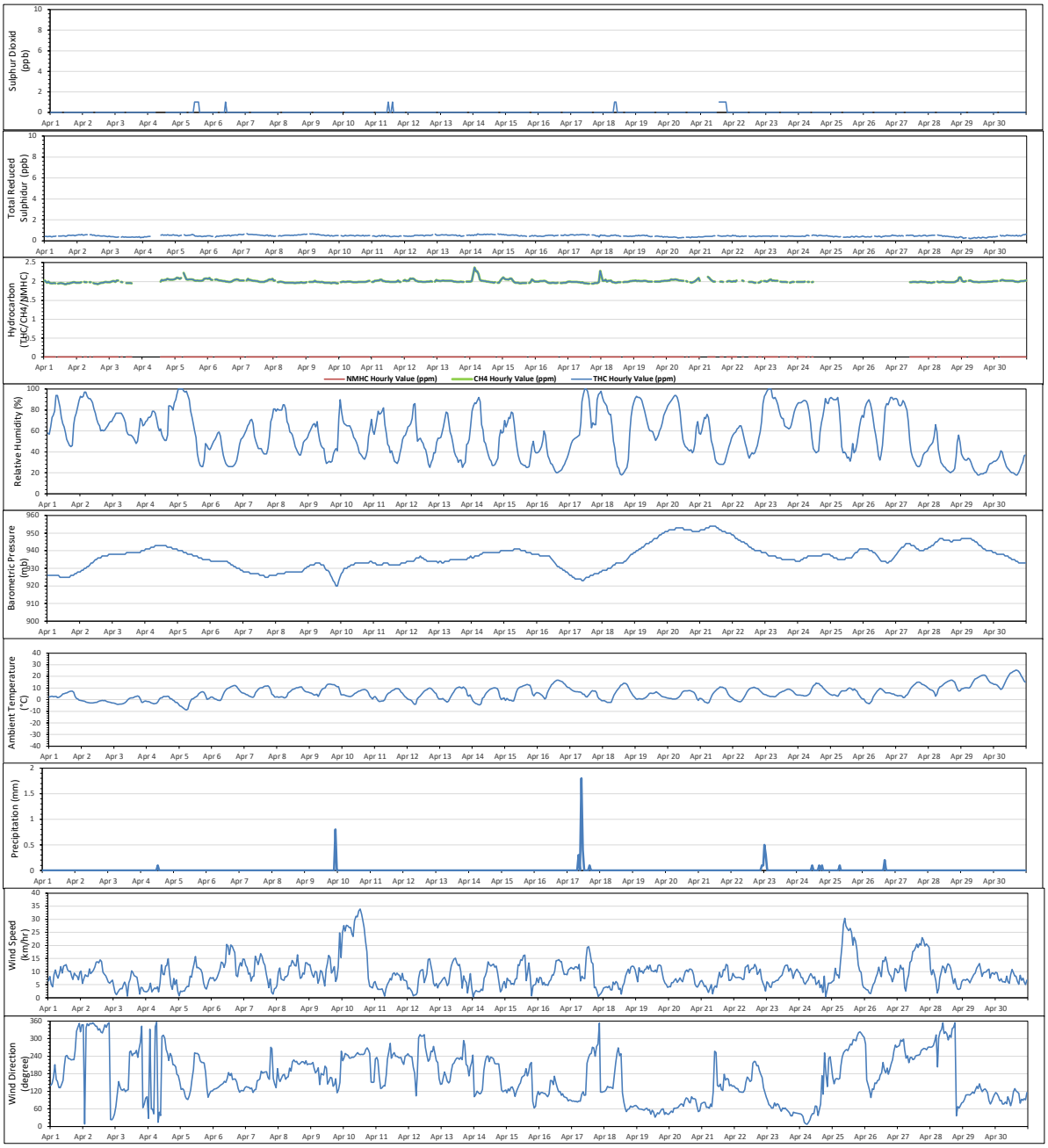
1- Date/ Time given is the first minimum and maximum value that was recorded

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Apr 2023 - 842-B Station



Reno-B Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43iQTL #12101910505	• The scheduled daily zero-span check did not execute correctly on April 2 at hour 10. During the next regularly scheduled zero-span check on April 3, the system self-corrected and executed properly. Therefore, troubleshooting could not be performed, and the root cause could not be determined. This was an isolated incident that did not repeat. • A successful monthly calibration was performed on April 20. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded.
TRS Thermo 43iQTL #12101910504 **TRS Convertor** CD Nova CDN-101 #590	• The scheduled daily zero-span check did not execute correctly on April 2 at hour 10. During the next regularly scheduled zero-span check on April 3, the system self-corrected and executed properly. Therefore, troubleshooting could not be performed, and the root cause could not be determined. This was an isolated incident that did not repeat. • A successful monthly calibration was performed on April 20. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded.
THC/CH4/NMHC Thermo 55i #1505664392	• The scheduled daily zero-span check did not execute correctly on April 2 at hour 10. During the next regularly scheduled zero-span check on April 3, the system self-corrected and executed properly. Therefore, troubleshooting could not be performed, and the root cause could not be determined. This was an isolated incident that did not repeat. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded.
RH Rotronic HC2-S3 #20467597	• The RH probe was checked on April 20. The probe passed the check requirements. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded. • Two hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.

Parameter	Equipment Operational Summary
BP MetOne 092 #A17940	• The BP sensor was checked on April 20. The sensor passed the check requirements. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded. • Two hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
AT Rotronic HC2-S3 #20467597	• The AT probe was checked on April 20. The probe passed the check requirements. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded. • Two hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
ST COMET #NA	• Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded.
Precipitation RM Young 52202 #TB 15877	• The precipitation gauge was checked and tested on April 20. The unit passed the check requirements. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded. • One hour of downtime was recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.
WS/ WD RM Young 05305AQ #174795	• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on November 23, 2022. • The anemometer sensors were check on April 20. Both the wind speed sensor and wind direction sensor passed the check requirements. • Hourly data collected on April 1 at hour 13 and hour 14 were invalid due to COMMS issue. The root cause is unknown at this point. Two hours of downtime were recorded. • Windows and Ultimate datalogger was updated on April 20 hour 9. This update was to try to fix the intermittent polling issue. One hour of downtime was recorded. • Two hours of downtime were recorded as the hourly data completeness requirements were not met, which was caused by intermittent polling issues.

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	Apr 1 at hr 22	6.3	N	0.2	Apr 13	99.7	95.0
TRS (ppb)	-	-	-	-	-	-	0.18	0.10	1.61	Apr 5 at hr 20	14.9	ESE	0.42	Apr 5	99.7	95.0
THC (ppm)	-	-	-	-	-	-	2.02	1.94	2.27	Apr 7 at hr 20	1.6	N	2.07	Apr 4	99.7	95.0
CH4 (ppm)	-	-	-	-	-	-	2.02	1.94	2.27	Apr 7 at hr 20	1.6	N	2.07	Apr 4	99.7	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	Apr 1 at hr 0	15.3	SE	0.00	Apr 1	99.7	95.0
RH (%)	-	-	-	-	-	-	56.3	15	100	Apr 17 at hr 10	21	SW	81.8	Apr 2	99.6	99.6
BP (millibar)	-	-	-	-	-	-	936	920	954	Apr 21 at hr 8	11.4	SE	952	Apr 21	99.6	99.6
Ext. Temp. (°C)	-	-	-	-	-	-	5.0	-5.4	24.9	Apr 30 at hr 16	11	ESE	17.4	Apr 30	99.6	99.6
Stn. Temp. (°C)	-	-	-	-	-	-	23.3	21.1	24.6	Apr 9 at hr 12	17.4	ESE	23.6	Apr 14	99.9	99.9
Precipitation (mm)*	-	-	-	-	-	-	5.3	0.0	2.4	Apr 9 at hr 22	49.9	W	2.4	Apr 9	99.7	99.7
WSV (km/hr)	-	-	-	-	-	-	4.1	0.2	49.9	Apr 9 at hr 22	49.9	W	27.1	Apr 25	99.3	99.3
WDV (sector)	-	-	-	-	-	-	157 (SSE)	-	-	-	-	-	-	-	99.3	99.3

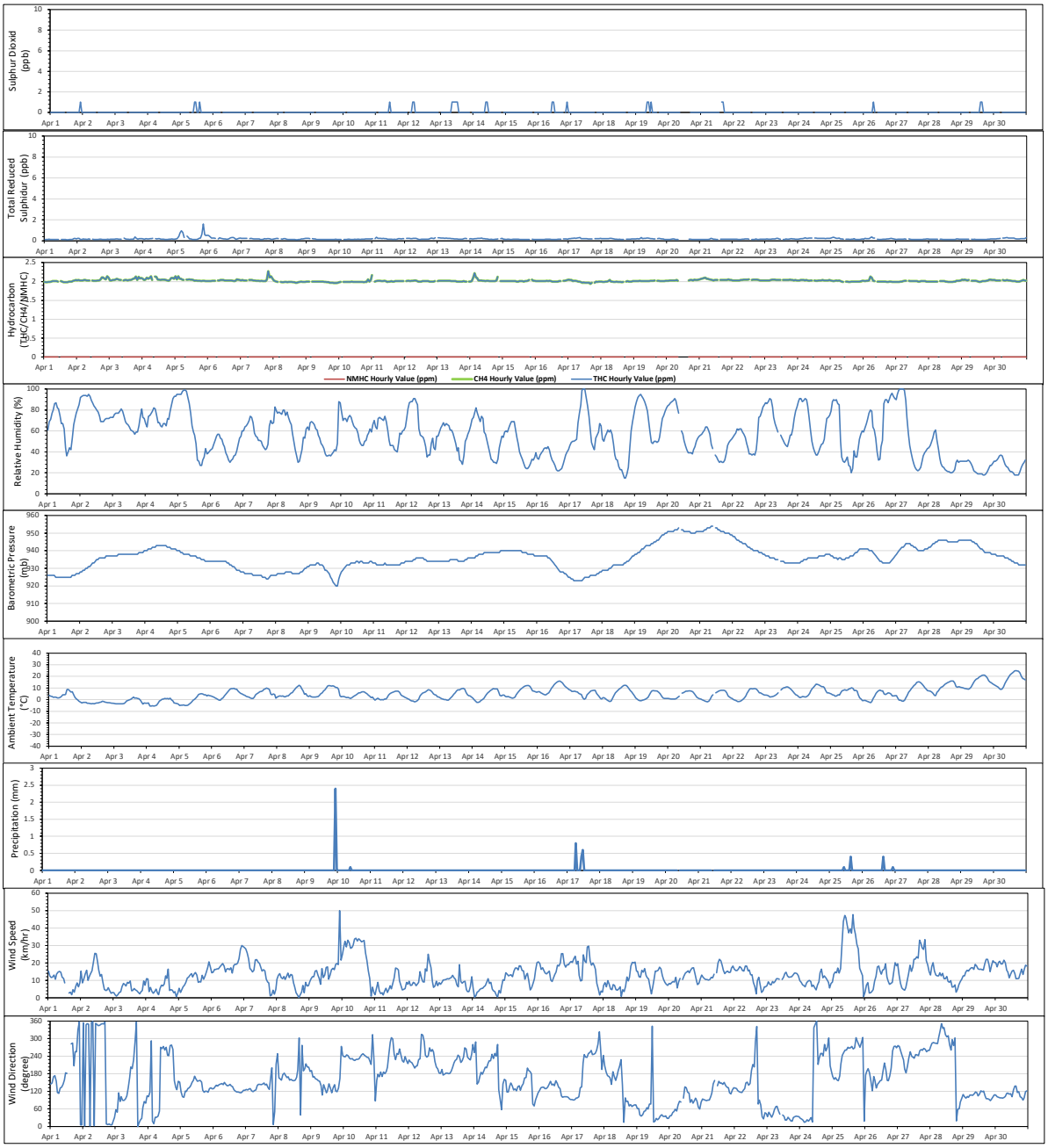
1- Date/ Time given is the first minimum and maximum value that was recorded

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Apr 2023 - Reno-B Station



PRC Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Thermo 43i #1034746225	• The analyzer spanned high between April 12 and April 17 due to unstable oven temperature for the permeation tube. This issue was corrected during the April 18 monthly calibration. As the issue was in the daily zero-span system and the analyzer passed the April 18 monthly calibration, data quality was not affected. No data were invalidated as a result. • A successful monthly calibration was performed on April 18. • The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.
H2S Thermo 450i #1308857354	• The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event. • The monthly calibration was attempted but aborted on April 18 due to an issue with the calibration system (failed cylinder regulator). Hourly data collected on April 18 at hour 10, 11 and 13 were impacted. Three hours of downtime were recorded as a result. • A successful monthly calibration was performed on April 19.
TRS Thermo 450i #1034746224 TRS Convertor CD Nova CDN-101 #506	• The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event. • The monthly calibration was attempted but aborted on April 18 due to an issue with the calibration system (failed cylinder regulator). Hourly data collected on April 18 at hour 10, 11 and 13 were impacted. Three hours of downtime were recorded as a result. • A successful monthly calibration was performed on April 19.
THC/CH4/NMHC Thermo 55i #1022143392 #1034745845	• The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event. • On April 18, the BV-supplied Thermo 55i HC analyzer, s/n: 1022143392, was removed, and the PRAMP-owned Thermo 55i HC analyzer, s/n: 1034745845, was installed. One hour of downtime was recorded due to this event.

Parameter	Equipment Operational Summary
RH Rotronic HC2-S3 #20558318	• The RH sensor was checked on April 18. The sensor passed the check requirements. • The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.
BP MetOne 092 #B19577	• The BP sensor was checked on April 18. The sensor passed the check requirements. • The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.
AT Rotronic HC2-S3 #20558318	• The AT sensor was checked on April 18. The sensor passed the check requirements. • The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.
ST Canadian Natural #NA	• No operational issues were identified this month. • The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.
WS/ WD RM Young 05305VK #129612	• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on August 17, 2022. • The anemometer sensors were checked on April 18. Both the wind speed sensor and wind direction sensor passed the check requirements. • The channel was put offline on April 18 at hour 8 and hour 9 fir the datalogger swap. The BV-supplied Ultimate datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP-owned Ultimate datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded due to this event.

Monitored Data Summary for Peace River Complex (PRC) Station

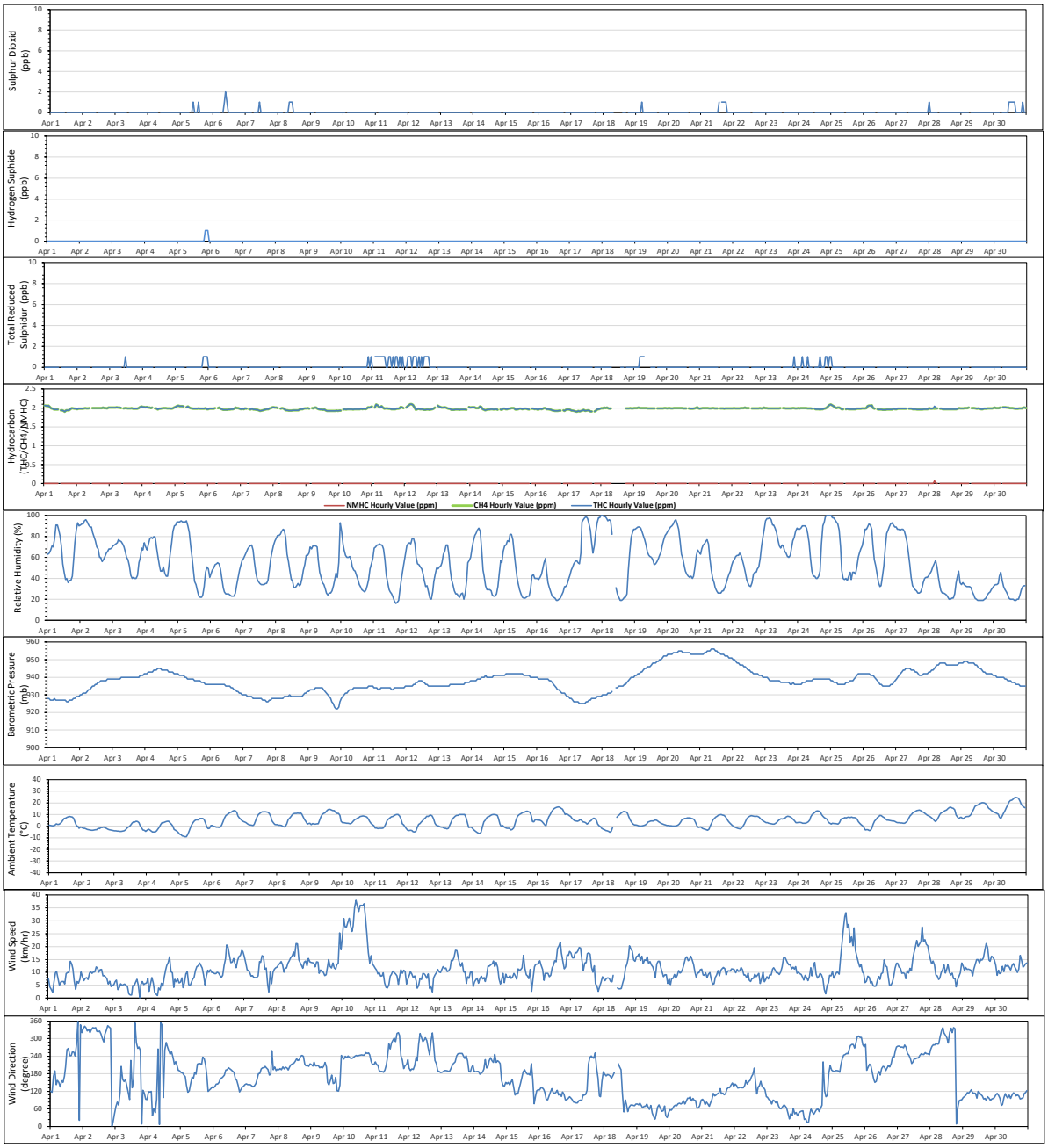
Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	2	Apr 6 at hr 9	12.7	S	0.3	Apr 30	99.7	94.8
H2S (ppb)	10	3	-	0	0	-	0.0	0	1	Apr 5 at hr 20	8.5	ESE	0.0	Apr 1	99.3	94.4
TRS (ppb)	-	-	-	-	-	-	0.1	0	1	Apr 3 at hr 11	1.7	SW	0.7	Apr 11	99.3	94.4
THC (ppm)	-	-	-	-	-	-	1.98	1.90	2.10	Apr 12 at hr 4	7.9	SSW	2.01	Apr 5	99.6	94.6
CH4 (ppm)	-	-	-	-	-	-	1.98	1.90	2.10	Apr 12 at hr 4	7.9	SSW	2.01	Apr 5	99.6	94.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.07	Apr 28 at hr 4	9	WNW	0.00	Apr 28	99.6	94.6
RH (%)	-	-	-	-	-	-	55.2	16	100	Apr 17 at hr 23	8.3	S	79.4	Apr 23	99.7	99.7
BP (millibar)	-	-	-	-	-	-	938	922	956	Apr 21 at hr 8	5.4	ESE	954	Apr 20	99.7	99.7
Ext. Temp. (°C)	-	-	-	-	-	-	4.8	-9.2	24.8	Apr 30 at hr 16	9.9	ESE	16.7	Apr 30	99.7	99.7
Stn. Temp. (°C)	-	-	-	-	-	-	22.4	19.8	24.7	Apr 4 at hr 14	10.9	W	24.2	Apr 10	99.7	99.7
WSV (km/hr)	-	-	-	-	-	-	3.8	0.1	38.0	Apr 10 at hr 10	38	WSW	27.9	Apr 10	99.7	99.7
WDV (sector)	-	-	-	-	-	-	175 (S)	-	-	-	-	-	-	-	99.7	99.7

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

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances

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

Timeseries Chart of Hourly Average for the month of Apr 2023 - Peace River Complex (PRC) Station



AQHI – Grimshaw Station

Equipment Operation Summary

Parameter	Equipment Operational Summary
SO2 Teledyne T100 #722	• A successful monthly calibration was performed on April 5.
TRS Thermo 43i-TLE #1152940011 TRS Convertor CD Nova CDN-101 #576	• A successful monthly calibration was performed on April 5.
NOx/NO/NO2 Teledyne T200 #837	• A successful monthly calibration was performed on April 5.
O3 Teledyne T400 #824	• A successful monthly calibration was performed on April 5.
THC/CH4/NMHC Thermo 55i #1191032505 H2 Generator AMA HG300 #190567059	• Due to multiple bad injection events, the analyzer failed the shut-down calibrations on April 4. Maintenance was performed on April 4, and the post-repair calibration was completed on April 5. Data recorded between April 1 and April 4 were reviewed and discarded if data quality was affected by injection issues. Twenty-nine hours of downtime were recorded due to this event. • Persistent high NMHC values started being recorded on April 6. Maintenance was performed on April 7, including actuator adjustment and column conditioning. A successful post-repair calibration was completed on April 7. After reviewing the diagnostic records, it was determined that data collected from April 6 hour 11 to April 8 hour 7 were invalid and therefore were discarded. Forty-eight hours of downtime were recorded due to this event.
PM2.5 Teledyne T640 #3189	• A successful annual audit/maintenance was completed on April 5.
RH Vaisala HMP155 #N2910506	• The RH probe was checked on April 5. The Probe passed the check requirements.

Parameter	Equipment Operational Summary
BP MetOne 092 #A2397	• The BP sensor was checked on April 5. The sensor passed the check requirements.
AT Vaisala HMP155 #N2910506	• The AT prober was checked on April 5. The probe passed the check requirements.
ST COMET #NA	• No operational issues were identified this month.
WS/ WD RM Young 05305AQ #174801	• Wind direction data contained in this report represents where the wind is coming from. • The last annual wind system calibration was completed on July 12, 2022. • The anemometer sensors were check on April 5. Both the wind speed sensor and wind direction sensor passed the check requirements.

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	0.1	0	2	Apr 18 at hr 9	3.1	SE	0.4	Apr 18	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.3	0	6	Apr 30 at hr 1	7.6	E	1.1	Apr 30	100.0	95.1
NOx (ppb)	-	-	-	-	-	-	3.4	0	40	Apr 14 at hr 6	2.1	W	7.1	Apr 18	100.0	94.7
NO (ppb)	-	-	-	-	-	-	0.6	0	21	Apr 18 at hr 5	2.4	WNW	1.7	Apr 18	100.0	94.7
NO2 (ppb)	159	-	-	0	-	-	2.9	0	26	Apr 14 at hr 6	2.1	W	5.9	Apr 15	100.0	94.7
O3 (ppb)	76	-	-	0	-	-	33.8	4.5	49.6	Apr 30 at hr 17	6.1	E	39.9	Apr 28	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.06	1.90	2.74	Apr 18 at hr 6	3	N	2.15	Apr 15	89.3	85.0
CH4 (ppm)	-	-	-	-	-	-	2.06	1.92	2.51	Apr 18 at hr 6	3	N	2.12	Apr 15	89.3	85.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.23	Apr 18 at hr 6	3	N	0.03	Apr 15	89.3	85.0
PM2.5 (µg/m3)	80	29	-	1	0	-	5.0	1	111	Apr 14 at hr 6	2.1	W	11.5	Apr 30	100.0	99.7
RH (%)	-	-	-	-	-	-	54.6	18	96	Apr 5 at hr 8	2.7	ESE	74.8	Apr 23	100.0	100.0
BP (millibar)	-	-	-	-	-	-	938	922	956	Apr 21 at hr 6	3.5	NNE	954	Apr 21	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	5.2	-6.7	25.0	Apr 30 at hr 17	6.1	E	17.0	Apr 30	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.1	21.0	23.8	Apr 4 at hr 17	10.1	SSW	23.2	Apr 8	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	8.7	0.0	34.6	Apr 25 at hr 9	34.6	WSW	21.5	Apr 10	100.0	100.0
WDV (sector)	-	-	-	-	-	-	143 (SE)	-	-	-	-	-	-	-	100.0	100.0

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

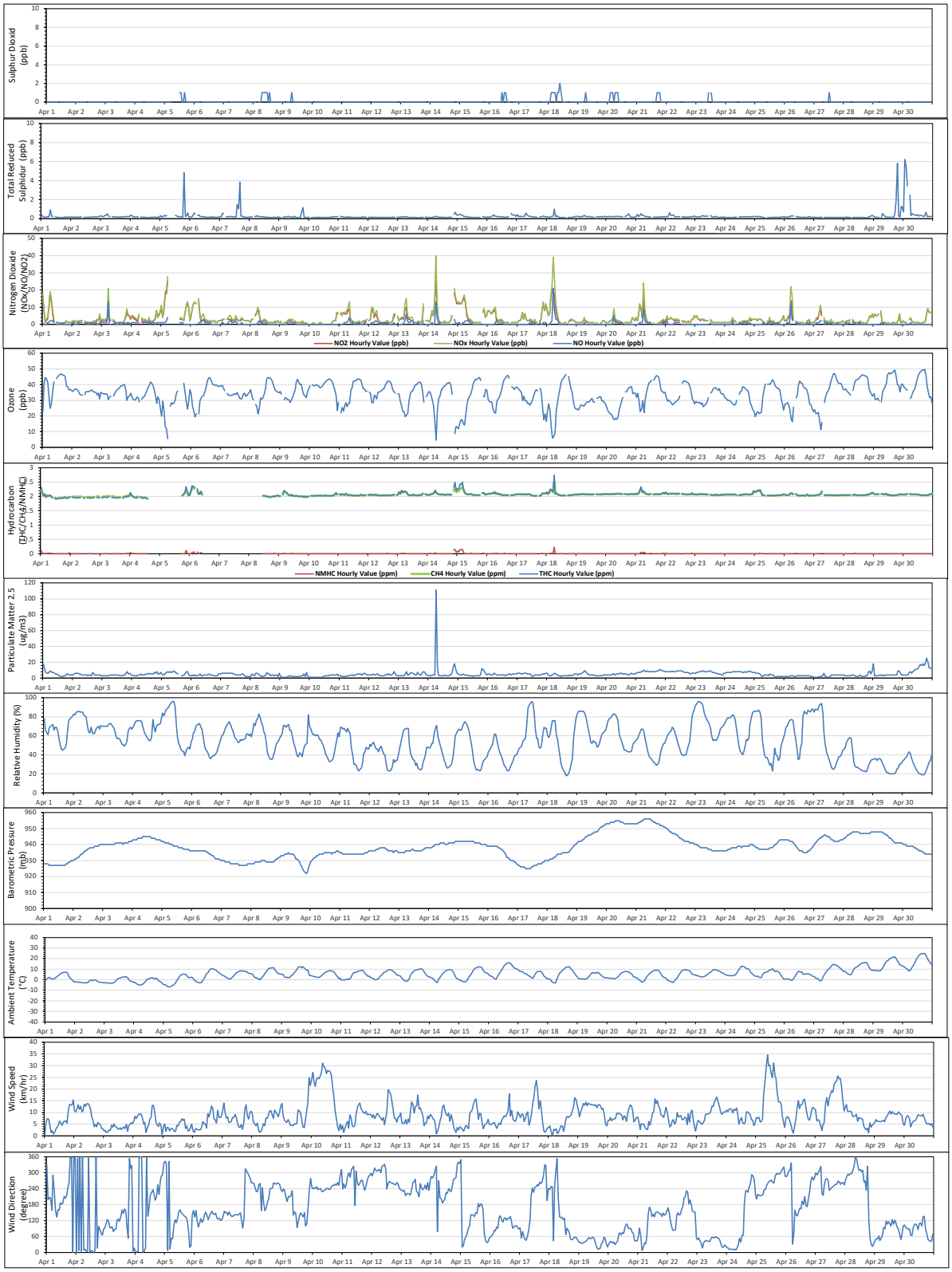
Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances

The following exceedance of AAAQOs was observed at the AQHI - Grimshaw Station.

Date	Time (MST)	Parameter	Average Period	AAAQOs / AAAQGs	Concentration	Wind speed	Wind Direction	Reference #
Apr 14	6	PM2.5	1-Hour	80 µg/m3	111 µg/m3	2.1 km/hr	270° (W)	411705

• The exceedance of the PM2.5 objective on April 14 was believed to be the result of local buildup of emissions, given the low wind speeds recorded at the time.

Timeseries Chart of Hourly Average for the month of Apr 2023 - AQHI - Grimshaw Station



TABLES, CHARTS AND WIND ROSES

986-C STATION

Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

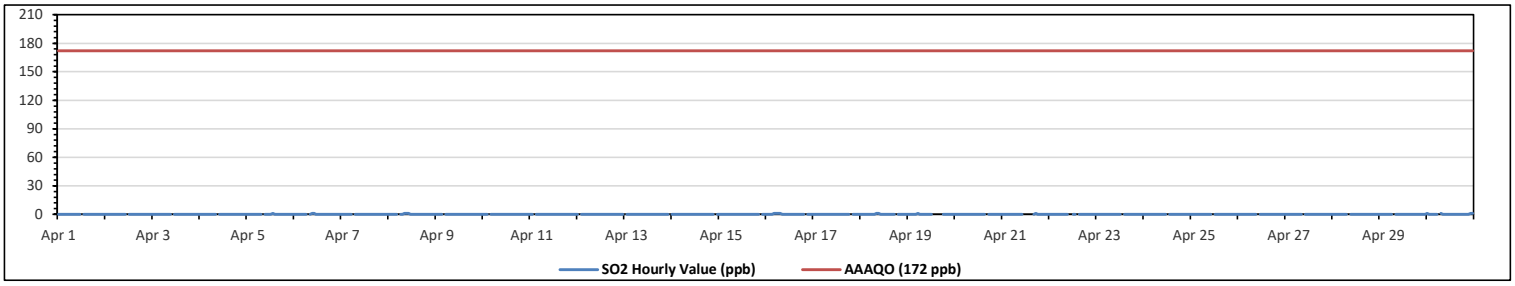
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

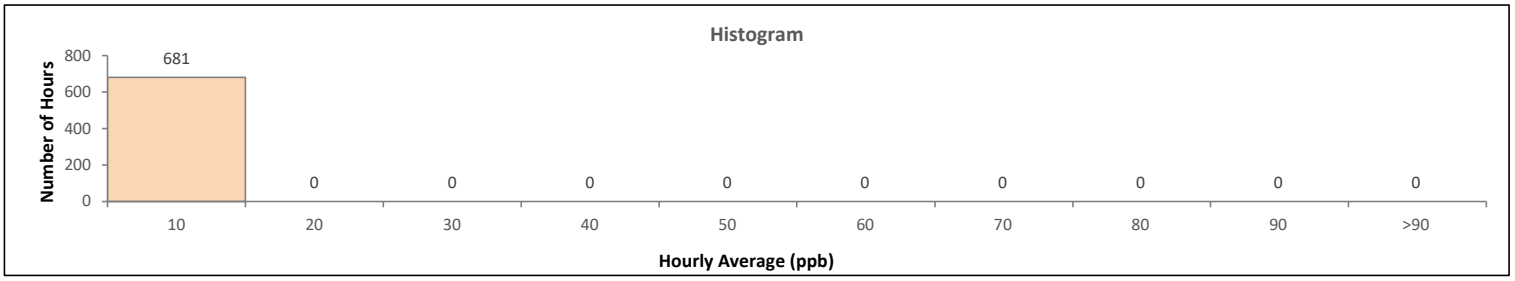
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1 ppb	on Apr 5 at hr 13		Hours in Service:	720	
Maximum Daily Value:	0.2 ppb	on Apr 16		Hours of Data:	681	
Minimum Hourly Value:	0 ppb	on Apr 1 at hr 0		Hours of Missing Data:	4	
Minimum Daily Value:	0.0 ppb	on Apr 1		Hours of Calibration:	35	
Monthly Average:	0.0 ppb			Operational Uptime:	99.4	

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



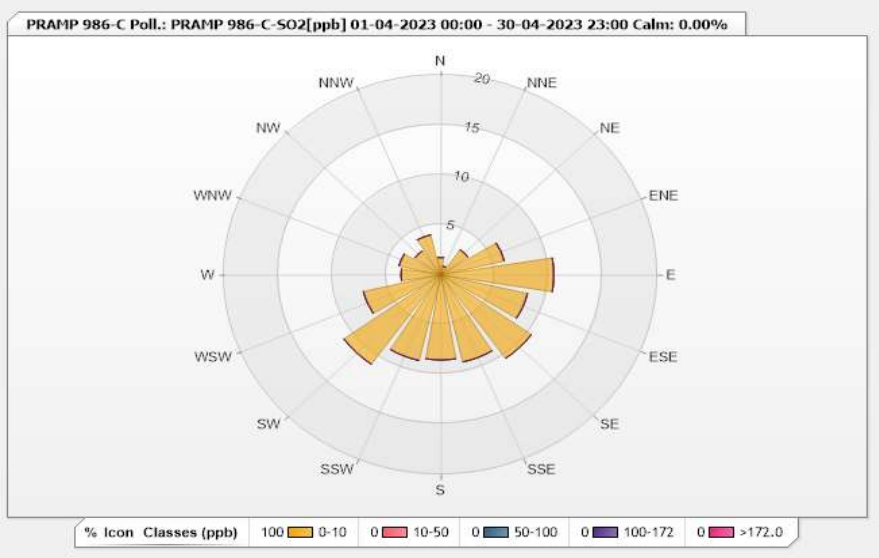


Station: PRAMP 986-C Poll.: PRAMP 986-C-SO2[ppb] Monthly: 04-2023

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

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

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	1.76	0	0	0	0	1.76
NNE	0.88	0	0	0	0	0.88
NE	3.08	0	0	0	0	3.08
ENE	6.02	0	0	0	0	6.02
E	10.43	0	0	0	0	10.43
ESE	8.22	0	0	0	0	8.22
SE	10.28	0	0	0	0	10.28
SSE	8.96	0	0	0	0	8.96
S	8.52	0	0	0	0	8.52
SSW	8.81	0	0	0	0	8.81
SW	11.01	0	0	0	0	11.01
WSW	7.34	0	0	0	0	7.34
W	3.67	0	0	0	0	3.67
WNW	3.96	0	0	0	0	3.96
NW	2.94	0	0	0	0	2.94
NNW	4.11	0	0	0	0	4.11
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

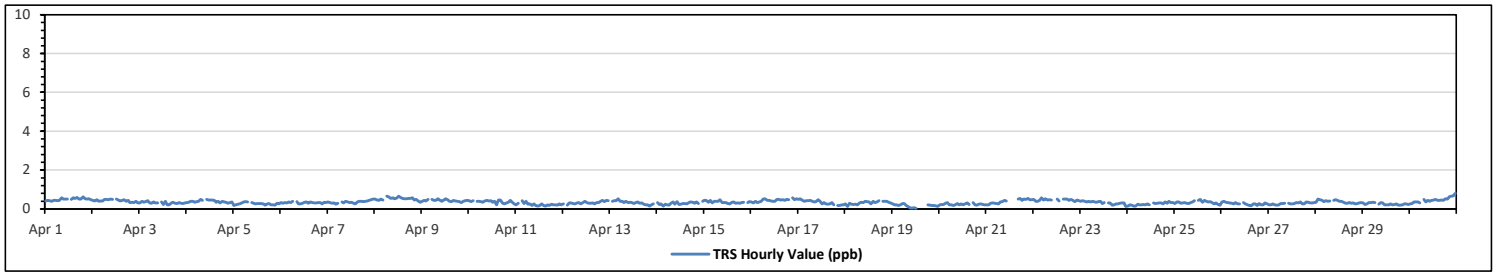
TOTAL REDUCED SULPHUR (TRS) in ppb

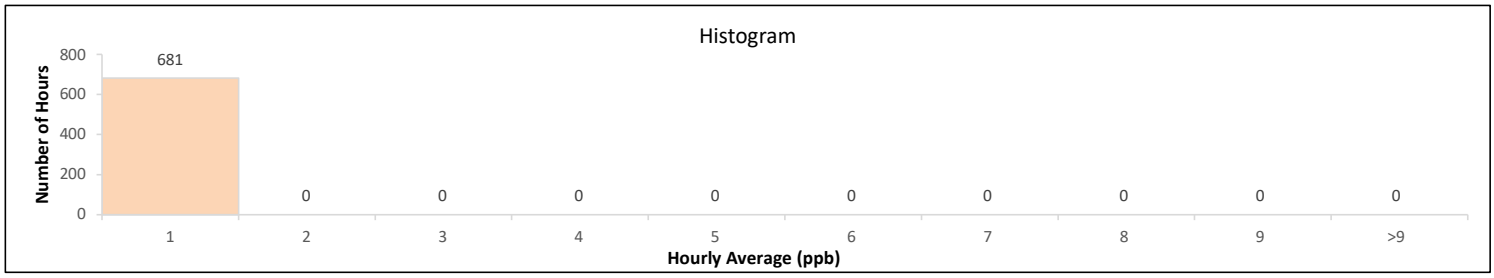
Maximum Hourly Value:	0.80	ppb	on Apr 30 at hr 23	Hours in Service:	720	
Maximum Daily Value:	0.52	ppb	on Apr 8	Hours of Data:	681	
Minimum Hourly Value:	0.02	ppb	on Apr 19 at hr 12	Hours of Missing Data:	4	
Minimum Daily Value:	0.17	ppb	on Apr 19	Hours of Calibration:	35	
Monthly Average:	0.34	ppb		Operational Uptime:	99.4	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.41	0.43	0.42	0.39	0.45	0.44	0.42	0.45	0.56	0.51	0.51	0.51	S	0.48	0.57	0.54	0.59	0.5	0.51	0.62	0.53	0.5	0.52	0.47	0.39	0.62	0.49
Apr 2	0.43	0.41	0.47	0.39	0.41	0.41	0.49	0.48	0.47	0.5	0.48	S	0.5	0.46	0.41	0.45	0.47	0.4	0.45	0.32	0.34	0.33	0.4	0.31	0.31	0.50	0.43
Apr 3	0.31	0.39	0.34	0.37	0.42	0.31	0.29	0.35	0.3	0.3	S	0.35	0.23	0.39	0.22	0.22	0.31	0.34	0.29	0.28	0.33	0.29	0.28	0.31	0.22	0.42	0.31
Apr 4	0.32	0.34	0.38	0.38	0.34	0.37	0.39	0.49	0.44	S	0.48	0.46	0.46	0.46	0.45	0.34	0.4	0.31	0.38	0.36	0.34	0.29	0.33	0.36	0.29	0.49	0.39
Apr 5	0.18	0.2	0.24	0.25	0.3	0.35	0.37	0.36	S	0.33	0.29	0.27	0.28	0.28	0.28	0.26	0.19	0.25	0.28	0.22	0.2	0.19	0.29	0.25	0.18	0.37	0.27
Apr 6	0.33	0.29	0.32	0.3	0.35	0.33	0.39	S	0.37	0.27	0.26	0.29	0.34	0.35	0.29	0.35	0.32	0.3	0.3	0.33	0.32	0.25	0.34	0.33	0.25	0.39	0.32
Apr 7	0.35	0.33	0.29	0.3	0.24	0.29	S	0.35	0.31	0.38	0.36	0.32	0.34	0.29	0.27	0.35	0.39	0.38	0.37	0.38	0.41	0.43	0.47	0.5	0.24	0.50	0.35
Apr 8	0.51	0.46	0.43	0.5	0.46	S	0.65	0.63	0.54	0.56	0.52	0.55	0.65	0.59	0.54	0.53	0.53	0.54	0.54	0.56	0.46	0.49	0.41	0.34	0.34	0.65	**0.52**
Apr 9	0.38	0.44	0.41	0.49	S	0.49	0.45	0.44	0.53	0.46	0.4	0.46	0.52	0.47	0.39	0.37	0.43	0.41	0.38	0.37	0.33	0.39	0.42	0.43	0.33	0.53	0.43
Apr 10	0.42	0.37	0.42	S	0.39	0.4	0.37	0.34	0.41	0.43	0.41	0.42	0.34	0.4	0.22	0.46	0.46	0.29	0.27	0.31	0.34	0.43	0.34	0.27	0.22	0.46	0.37
Apr 11	0.2	0.29	S	0.42	0.28	0.38	0.24	0.25	0.18	0.25	0.18	0.14	0.17	0.27	0.18	0.15	0.2	0.17	0.24	0.21	0.22	0.19	0.26	0.2	0.14	0.42	0.23
Apr 12	0.27	S	0.19	0.3	0.3	0.28	0.25	0.31	0.32	0.27	0.32	0.4	0.33	0.29	0.29	0.3	0.27	0.33	0.33	0.39	0.45	0.37	0.44	0.42	0.19	0.45	0.32
Apr 13	S	0.39	0.42	0.42	0.52	0.39	0.4	0.33	0.4	0.33	0.34	0.32	0.28	0.33	0.35	0.29	0.31	0.24	0.22	0.21	0.15	0.2	0.26	S	0.15	0.52	0.32
Apr 14	0.33	0.23	0.25	0.15	0.24	0.21	0.19	0.29	0.35	0.24	0.37	0.23	0.24	0.28	0.28	0.26	0.32	0.36	0.34	0.29	0.36	0.28	S	0.4	0.15	0.40	0.28
Apr 15	0.44	0.43	0.34	0.44	0.31	0.39	0.39	0.4	0.47	0.32	0.32	0.32	0.28	0.27	0.34	0.36	0.29	0.3	0.29	0.32	0.34	S	0.33	0.37	0.27	0.47	0.35
Apr 16	0.36	0.31	0.38	0.32	0.36	0.38	0.5	0.53	0.43	0.43	0.41	0.4	0.4	0.48	0.48	0.46	0.47	0.44	0.48	0.47	S	0.57	0.47	0.53	0.31	0.57	0.44
Apr 17	0.49	0.52	0.43	0.38	0.42	0.42	0.44	0.38	0.36	0.37	0.47	0.38	0.26	0.33	0.27	0.24	0.25	0.32	0.22	S	0.18	0.17	0.22	0.2	0.17	0.52	0.34
Apr 18	0.27	0.12	0.29	0.24	0.23	0.24	0.21	0.29	0.34	0.33	0.4	0.37	0.36	0.27	0.38	0.32	0.35	0.42	S	0.39	0.38	0.38	0.34	0.3	0.12	0.42	0.31
Apr 19	0.27	0.22	0.22	0.18	0.22	0.28	0.28	0.17	0.11	0.05	0.05	0.06	0.02	C	C	C	C	S	0.22	0.19	0.18	0.18	0.16	0.13	0.02	0.28	0.17
Apr 20	0.22	0.23	0.23	0.29	0.33	0.22	0.22	0.17	0.22	0.28	0.22	0.27	0.2	0.26	0.3	0.23	S	0.32	0.22	0.19	0.24	0.27	0.23	0.2	0.17	0.33	0.24
Apr 21	0.22	0.22	0.29	0.3	0.29	0.28	0.25	0.35	0.37	0.44	0.41	K	0.43	K	0.45	S	0.51	0.54	0.45	0.5	0.48	0.54	0.47	0.47	0.22	0.54	0.39
Apr 22	0.49	0.4	0.4	0.44	0.56	0.46	0.52	0.46	0.47	0.46	K	K	0.51	0.41	S	0.5	0.51	0.5	0.44	0.49	0.45	0.37	0.46	0.42	0.37	0.56	0.46
Apr 23	0.38	0.42	0.38	0.36	0.4	0.36	0.38	0.36	0.34	0.37	0.4	0.28	0.33	S	0.3	0.31	0.19	0.22	0.26	0.26	0.29	0.3	0.3	0.12	0.12	0.42	0.32
Apr 24	0.15	0.2	0.19	0.15	0.14	0.24	0.2	0.22	0.23	0.22	0.27	0.22	S	0.3	0.28	0.29	0.3	0.3	0.27	0.36	0.29	0.39	0.33	0.32	0.14	0.39	0.25
Apr 25	0.28	0.36	0.36	0.29	0.3	0.33	0.29	0.28	0.33	0.36	0.42	S	0.45	0.49	0.34	0.44	0.38	0.36	0.37	0.33	0.25	0.3	0.23	0.19	0.19	0.49	0.34
Apr 26	0.35	0.39	0.34	0.33	0.31	0.29	0.27	0.32	0.25	0.27	S	0.33	0.25	0.22	0.17	0.16	0.25	0.26	0.18	0.28	0.22	0.22	0.31	0.25	0.16	0.39	0.27
Apr 27	0.21	0.21	0.27	0.22	0.19	0.2	0.28	0.28	0.29	S	0.29	0.27	0.26	0.28	0.32	0.31	0.36	0.27	0.27	0.35	0.34	0.3	0.3	0.33	0.19	0.36	0.28
Apr 28	0.34	0.5	0.47	0.45	0.37	0.42	0.39	0.41	S	0.45	0.47	0.45	0.38	0.38	0.34	0.29	0.29	0.32	0.29	0.3	0.26	0.28	0.31	0.32	0.26	0.50	0.37
Apr 29	0.31	0.23	0.25	0.33	0.33	0.34	0.32	S	0.24	0.32	0.3	0.21	0.21	0.22	0.27	0.22	0.23	0.27	0.19	0.19	0.22	0.27	0.26	0.23	0.19	0.34	0.26
Apr 30	0.27	0.28	0.35	0.35	0.35	0.31	S	0.48	0.36	0.44	0.4	0.43	0.46	0.49	0.45	0.45	0.46	0.44	0.52	0.5	0.61	0.65	0.67	**0.8**	0.27	**0.80**	0.46
Diurnal Maximum	0.51	0.52	0.47	0.50	0.56	0.49	0.65	0.63	0.56	0.56	0.52	0.55	0.65	0.59	0.57	0.54	0.59	0.54	0.54	0.62	0.61	0.65	0.67	0.80			
Diurnal Average	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.36	0.36	0.36	0.36	0.34	0.34	0.36	0.34	0.34	0.36	0.35	0.33	0.34	0.33	0.34	0.35	0.34			

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

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



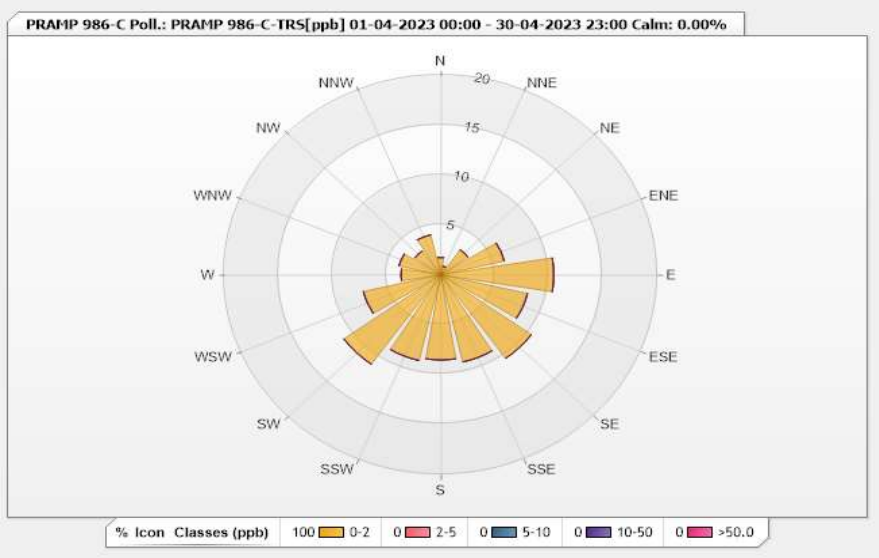


Station: PRAMP 986-C Poll.: PRAMP 986-C-TRS[ppb] Monthly: 04-2023

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

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

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	1.76	0	0	0	0	1.76
NNE	0.88	0	0	0	0	0.88
NE	3.08	0	0	0	0	3.08
ENE	6.02	0	0	0	0	6.02
E	10.43	0	0	0	0	10.43
ESE	8.22	0	0	0	0	8.22
SE	10.28	0	0	0	0	10.28
SSE	8.96	0	0	0	0	8.96
S	8.52	0	0	0	0	8.52
SSW	8.81	0	0	0	0	8.81
SW	11.01	0	0	0	0	11.01
WSW	7.34	0	0	0	0	7.34
W	3.67	0	0	0	0	3.67
WNW	3.96	0	0	0	0	3.96
NW	2.94	0	0	0	0	2.94
NNW	4.11	0	0	0	0	4.11
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

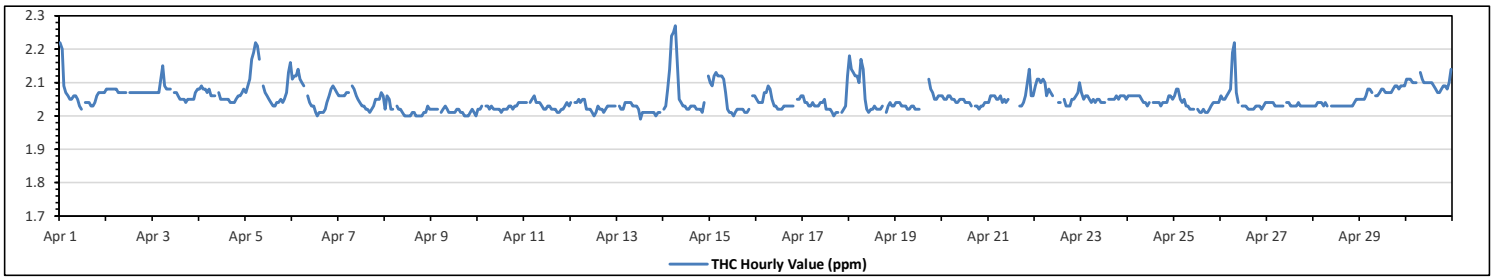
TOTAL HYDROCARBONS (THC) in ppm

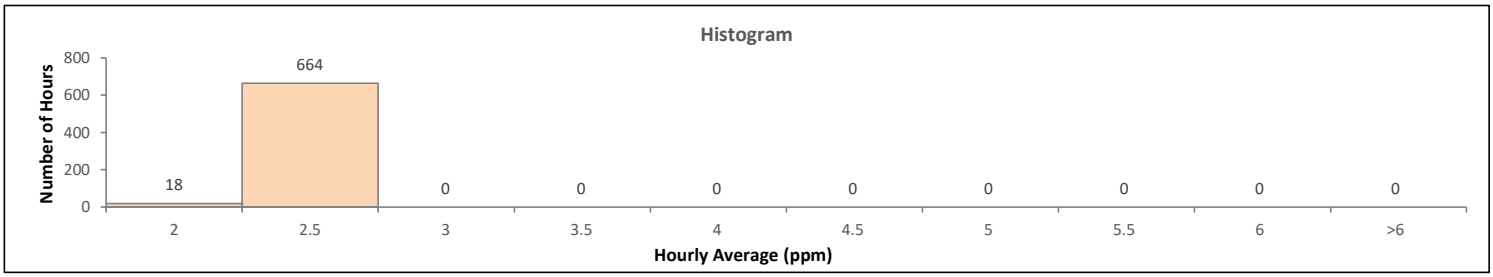
Maximum Hourly Value:	2.27	ppm	on Apr 14 at hr 6	Hours in Service:	720
Maximum Daily Value:	2.10	ppm	on Apr 30	Hours of Data:	682
Minimum Hourly Value:	1.99	ppm	on Apr 13 at hr 12	Hours of Missing Data:	4
Minimum Daily Value:	2.01	ppm	on Apr 9	Hours of Calibration:	34
Monthly Average:	2.05	ppm		Operational Uptime:	99.4

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.22	2.20	2.09	2.07	2.06	2.05	2.05	2.06	2.06	2.05	2.03	2.02	S	2.04	2.04	2.04	2.03	2.03	2.04	2.06	2.07	2.07	2.07	2.07	2.02	2.22	2.07
Apr 2	2.08	2.08	2.08	2.08	2.08	2.08	2.07	2.07	2.07	2.07	2.07	S	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.07
Apr 3	2.07	2.07	2.07	2.07	2.11	2.15	2.09	2.08	2.08	2.08	S	2.07	2.07	2.06	2.05	2.05	2.05	2.04	2.05	2.05	2.05	2.05	2.07	2.08	2.04	2.15	2.07
Apr 4	2.08	2.09	2.08	2.08	2.07	2.08	2.06	2.06	2.06	S	2.07	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.05	2.06	2.06	2.07	2.08	2.04	2.09	2.06
Apr 5	2.07	2.09	2.11	2.17	2.19	2.22	2.21	2.17	S	2.09	2.07	2.06	2.05	2.04	2.03	2.03	2.04	2.04	2.05	2.04	2.05	2.07	2.13	2.16	2.03	2.22	2.09
Apr 6	2.11	2.12	2.12	2.14	2.11	2.10	2.09	S	2.06	2.04	2.03	2.03	2.01	2.00	2.01	2.01	2.01	2.02	2.04	2.06	2.08	2.09	2.08	2.07	2.00	2.14	2.06
Apr 7	2.06	2.06	2.06	2.06	2.07	2.07	S	2.09	2.08	2.06	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.02	2.03	2.05	2.05	2.05	2.07	2.06	2.01	2.09	2.05
Apr 8	2.02	2.06	2.05	2.02	2.02	S	2.03	2.02	2.02	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.03	2.02	2.00	2.06	2.01
Apr 9	2.02	2.02	2.02	2.02	S	2.01	2.02	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.01	2.01	2.00	2.00	2.00	2.01	2.02	2.01	2.00	2.00	2.03	2.01
Apr 10	2.02	2.02	2.03	S	2.03	2.03	2.02	2.03	2.02	2.02	2.02	2.02	2.01	2.02	2.02	2.02	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.04	2.01	2.04	2.03
Apr 11	2.04	2.04	S	2.04	2.05	2.06	2.04	2.04	2.04	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.03	2.04	2.03	2.01	2.06	2.03
Apr 12	2.04	S	2.04	2.04	2.05	2.04	2.05	2.05	2.02	2.02	2.02	2.01	2.00	2.01	2.03	2.02	2.02	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.00	2.05	2.03
Apr 13	S	2.03	2.02	2.02	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.02	1.99	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.01	2.01	S	1.99	2.04	2.02
Apr 14	2.02	2.03	2.08	2.14	2.24	2.25	**2.27**	2.16	2.05	2.04	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.02	2.02	2.02	2.01	2.04	S	2.12	2.01	**2.27**	2.07
Apr 15	2.10	2.09	2.12	2.13	2.12	2.12	2.12	2.11	2.07	2.02	2.01	2.01	2.00	2.01	2.02	2.02	2.02	2.02	2.01	2.01	2.02	S	2.06	2.06	2.00	2.13	2.06
Apr 16	2.05	2.04	2.04	2.04	2.07	2.07	2.09	2.08	2.05	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	S	2.05	2.05	2.06	2.02	2.09	2.04
Apr 17	2.06	2.04	2.04	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.04	2.05	2.02	2.02	2.02	2.01	2.00	2.01	2.01	S	2.01	2.02	2.03	2.12	2.00	2.12	2.03
Apr 18	2.18	2.14	2.13	2.12	2.12	2.10	2.17	2.14	2.05	2.02	2.01	2.02	2.02	2.03	2.02	2.02	2.02	2.03	S	2.01	2.03	2.04	2.03	2.03	2.01	2.18	2.06
Apr 19	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	C	C	C	C	2.11	2.08	2.07	2.05	2.05	2.06	2.06	2.02	2.11	2.04
Apr 20	2.06	2.05	2.05	2.06	2.06	2.05	2.05	2.04	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.03	S	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.02	2.06	2.04
Apr 21	2.04	2.06	2.06	2.06	2.05	2.05	2.06	2.04	2.05	2.04	2.05	K	2.04	K	2.03	S	2.03	2.03	2.04	2.06	2.10	2.14	2.06	2.06	2.03	2.14	2.05
Apr 22	2.09	2.11	2.11	2.10	2.11	2.10	2.06	2.08	2.07	2.06	K	K	2.04	2.04	S	2.05	2.03	2.03	2.03	2.05	2.05	2.06	2.07	2.10	2.03	2.11	2.07
Apr 23	2.07	2.05	2.06	2.06	2.05	2.04	2.05	2.04	2.05	2.05	2.04	2.04	2.04	S	2.05	2.05	2.05	2.05	2.06	2.05	2.06	2.06	2.06	2.05	2.04	2.07	2.05
Apr 24	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.04	2.04	2.03	2.04	S	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.06	2.06	2.05	2.03	2.06	2.05
Apr 25	2.06	2.08	2.08	2.05	2.04	2.05	2.03	2.03	2.02	2.02	2.02	S	2.02	2.01	2.01	2.02	2.01	2.01	2.02	2.03	2.04	2.04	2.04	2.04	2.01	2.08	2.03
Apr 26	2.06	2.05	2.05	2.06	2.07	2.08	2.19	2.22	2.07	2.04	S	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.03	2.04	2.02	2.22	2.05
Apr 27	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	S	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03
Apr 28	2.03	2.03	2.04	2.04	2.04	2.03	2.04	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.05	2.05	2.03	2.05	2.03
Apr 29	2.05	2.05	2.05	2.06	2.08	2.08	2.07	S	2.06	2.06	2.07	2.08	2.08	2.07	2.07	2.07	2.07	2.08	2.09	2.09	2.08	2.09	2.09	2.09	2.05	2.09	2.07
Apr 30	2.11	2.11	2.11	2.10	2.10	2.10	S	2.13	2.11	2.10	2.10	2.10	2.10	2.10	2.09	2.08	2.07	2.07	2.08	2.09	2.09	2.08	2.10	2.14	2.07	2.14	**2.10**
Diurnal Maximum	2.22	2.20	2.13	2.17	2.24	2.25	2.27	2.22	2.11	2.10	2.10	2.10	2.10	2.10	2.09	2.08	2.07	2.11	2.09	2.09	2.10	2.14	2.13	2.16			
Diurnal Average	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.07	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	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.



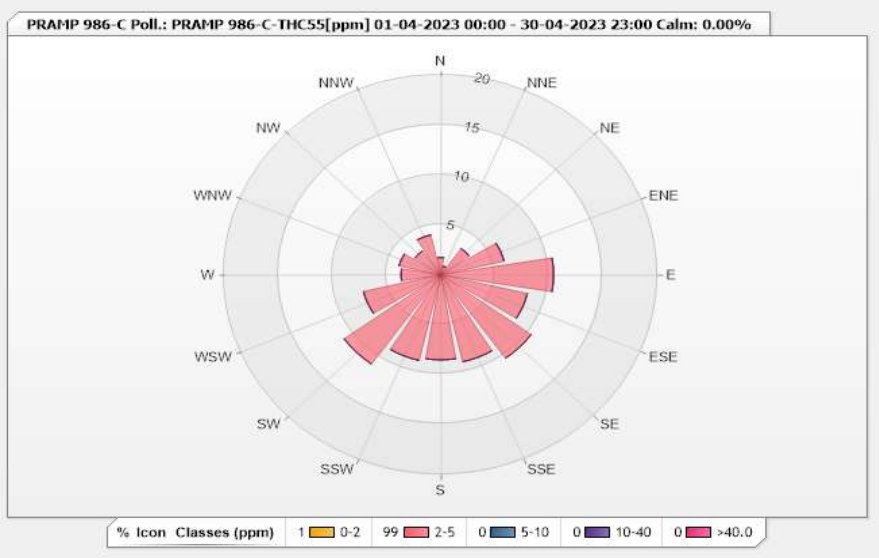


Station: PRAMP 986-C Poll.: PRAMP 986-C-THC55[ppm] Monthly: 04-2023

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	1.76	0	0	0	1.76
NNE	0	0.88	0	0	0	0.88
NE	0	3.23	0	0	0	3.23
ENE	0	6.01	0	0	0	6.01
E	0	10.41	0	0	0	10.41
ESE	0	8.21	0	0	0	8.21
SE	0	10.26	0	0	0	10.26
SSE	0	8.94	0	0	0	8.94
S	0.15	8.36	0	0	0	8.51
SSW	0	8.8	0	0	0	8.8
SW	0.29	10.7	0	0	0	10.99
WSW	0.15	7.18	0	0	0	7.33
W	0	3.67	0	0	0	3.67
WNW	0	3.96	0	0	0	3.96
NW	0	2.93	0	0	0	2.93
NNW	0	4.11	0	0	0	4.11
Summary	0.59	99.41	0	0	0	100



Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

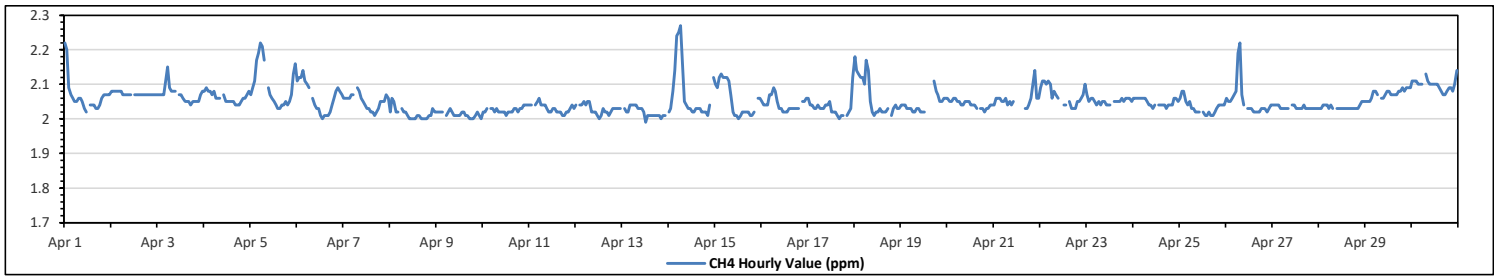
METHANE (CH4) in ppm

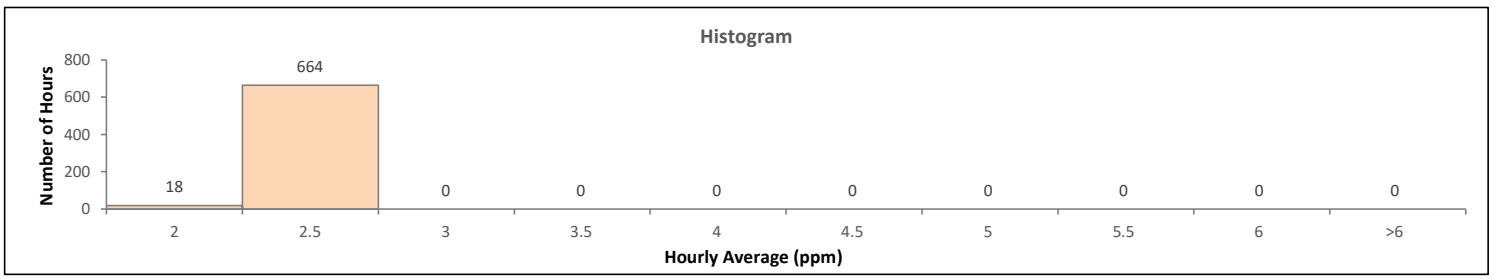
Maximum Hourly Value:	2.27	ppm	on Apr 14 at hr 6	Hours in Service:	720
Maximum Daily Value:	2.10	ppm	on Apr 30	Hours of Data:	682
Minimum Hourly Value:	1.99	ppm	on Apr 13 at hr 12	Hours of Missing Data:	4
Minimum Daily Value:	2.01	ppm	on Apr 9	Hours of Calibration:	34
Monthly Average:	2.05	ppm		Operational Uptime:	99.4

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.22	2.20	2.09	2.07	2.06	2.05	2.05	2.06	2.06	2.05	2.03	2.02	S	2.04	2.04	2.04	2.03	2.03	2.04	2.06	2.07	2.07	2.07	2.07	2.02	2.22	2.07
Apr 2	2.08	2.08	2.08	2.08	2.08	2.08	2.07	2.07	2.07	2.07	2.07	S	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.07
Apr 3	2.07	2.07	2.07	2.07	2.11	2.15	2.09	2.08	2.08	2.08	S	2.07	2.07	2.06	2.05	2.05	2.05	2.04	2.05	2.05	2.05	2.05	2.07	2.08	2.04	2.15	2.07
Apr 4	2.08	2.09	2.08	2.08	2.07	2.08	2.06	2.06	2.06	S	2.07	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.05	2.06	2.06	2.07	2.08	2.04	2.09	2.06
Apr 5	2.07	2.09	2.11	2.17	2.19	2.22	2.21	2.17	S	2.09	2.07	2.06	2.05	2.04	2.03	2.03	2.04	2.04	2.05	2.04	2.05	2.07	2.13	2.16	2.03	2.22	2.09
Apr 6	2.11	2.12	2.12	2.14	2.11	2.10	2.09	S	2.06	2.04	2.03	2.03	2.01	2.00	2.01	2.01	2.01	2.02	2.04	2.06	2.08	2.09	2.08	2.07	2.00	2.14	2.06
Apr 7	2.06	2.06	2.06	2.06	2.07	2.07	S	2.09	2.08	2.06	2.05	2.04	2.03	2.03	2.02	2.02	2.01	2.02	2.03	2.05	2.05	2.05	2.07	2.06	2.01	2.09	2.05
Apr 8	2.02	2.06	2.05	2.02	2.02	S	2.03	2.02	2.02	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.03	2.02	2.00	2.06	2.01
Apr 9	2.02	2.02	2.02	2.02	S	2.01	2.02	2.03	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.01	2.01	2.00	2.00	2.00	2.01	2.02	2.01	2.00	2.00	2.03	2.01
Apr 10	2.02	2.02	2.03	S	2.03	2.03	2.02	2.03	2.02	2.02	2.02	2.02	2.01	2.02	2.02	2.02	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.04	2.01	2.04	2.03
Apr 11	2.04	2.04	S	2.04	2.05	2.06	2.04	2.04	2.04	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.03	2.04	2.03	2.01	2.06	2.03
Apr 12	2.04	S	2.04	2.04	2.05	2.04	2.05	2.05	2.02	2.02	2.02	2.01	2.00	2.01	2.03	2.02	2.02	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.00	2.05	2.03
Apr 13	S	2.03	2.02	2.02	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.02	1.99	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.01	2.01	S	1.99	2.04	2.02
Apr 14	2.02	2.03	2.08	2.14	2.24	2.25	**2.27**	2.16	2.05	2.04	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.02	2.02	2.02	2.01	2.04	S	2.12	2.01	**2.27**	2.07
Apr 15	2.10	2.09	2.12	2.13	2.12	2.12	2.12	2.11	2.07	2.02	2.01	2.01	2.00	2.01	2.02	2.02	2.02	2.02	2.01	2.01	2.02	S	2.06	2.06	2.00	2.13	2.06
Apr 16	2.05	2.04	2.04	2.04	2.07	2.07	2.09	2.08	2.05	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.03	S	2.05	2.05	2.06	2.02	2.09	2.04
Apr 17	2.06	2.04	2.04	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.04	2.05	2.02	2.02	2.02	2.01	2.00	2.01	2.01	S	2.01	2.02	2.03	2.12	2.00	2.12	2.03
Apr 18	2.18	2.14	2.13	2.12	2.12	2.10	2.17	2.14	2.05	2.02	2.01	2.02	2.02	2.03	2.02	2.02	2.02	2.03	S	2.01	2.03	2.04	2.03	2.03	2.01	2.18	2.06
Apr 19	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	C	C	C	C	2.11	2.08	2.07	2.05	2.05	2.06	2.06	2.02	2.11	2.04
Apr 20	2.06	2.05	2.05	2.06	2.06	2.05	2.05	2.04	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.03	S	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.02	2.06	2.04
Apr 21	2.04	2.06	2.06	2.06	2.05	2.05	2.06	2.04	2.05	2.04	2.05	K	2.04	K	2.03	S	2.03	2.03	2.04	2.06	2.10	2.14	2.06	2.06	2.03	2.14	2.05
Apr 22	2.09	2.11	2.11	2.10	2.11	2.10	2.06	2.08	2.07	2.06	K	K	2.04	2.04	S	2.05	2.03	2.03	2.03	2.05	2.05	2.06	2.07	2.10	2.03	2.11	2.07
Apr 23	2.07	2.05	2.06	2.06	2.05	2.04	2.05	2.04	2.05	2.05	2.04	2.04	2.04	S	2.05	2.05	2.05	2.05	2.06	2.05	2.06	2.06	2.06	2.05	2.04	2.07	2.05
Apr 24	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.05	2.04	2.04	2.03	2.04	S	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.06	2.06	2.05	2.03	2.06	2.05
Apr 25	2.06	2.08	2.08	2.05	2.04	2.05	2.03	2.03	2.02	2.02	2.02	S	2.02	2.01	2.01	2.02	2.01	2.01	2.02	2.03	2.04	2.04	2.04	2.04	2.01	2.08	2.03
Apr 26	2.06	2.05	2.05	2.06	2.07	2.08	2.19	2.22	2.07	2.04	S	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.03	2.04	2.02	2.22	2.05
Apr 27	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	S	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03
Apr 28	2.03	2.03	2.04	2.04	2.04	2.03	2.04	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.05	2.05	2.03	2.05	2.03
Apr 29	2.05	2.05	2.05	2.06	2.08	2.08	2.07	S	2.06	2.06	2.07	2.08	2.08	2.07	2.07	2.07	2.07	2.08	2.08	2.09	2.08	2.09	2.09	2.09	2.05	2.09	2.07
Apr 30	2.11	2.11	2.11	2.10	2.10	2.10	S	2.13	2.11	2.10	2.10	2.10	2.10	2.10	2.09	2.08	2.07	2.07	2.08	2.09	2.09	2.08	2.10	2.14	2.07	2.14	**2.10**
Diurnal Maximum	2.22	2.20	2.13	2.17	2.24	2.25	2.27	2.22	2.11	2.10	2.10	2.10	2.10	2.10	2.09	2.08	2.07	2.11	2.08	2.09	2.10	2.14	2.13	2.16			
Diurnal Average	2.07	2.07	2.07	2.07	2.08	2.08	2.08	2.07	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.03	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.



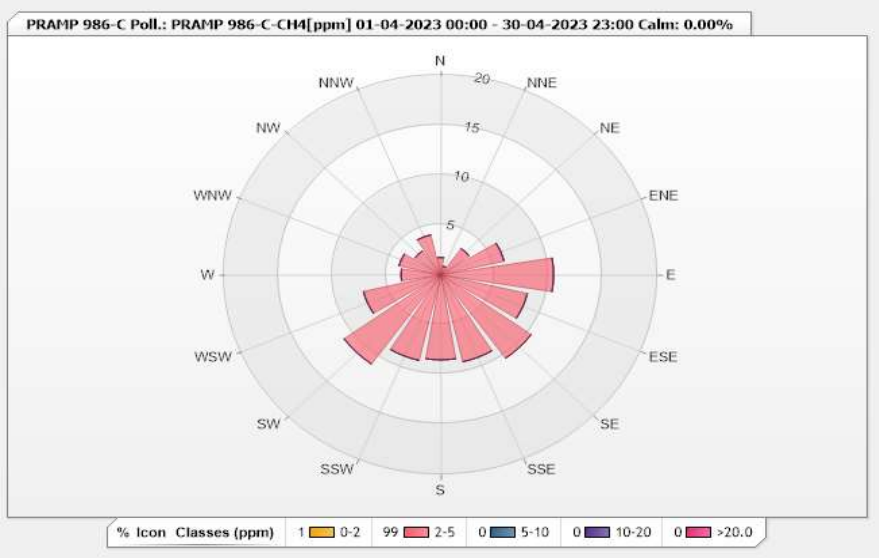


Station: PRAMP 986-C Poll.: PRAMP 986-C-CH4[ppm] Monthly: 04-2023

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	1.76	0	0	0	1.76
NNE	0	0.88	0	0	0	0.88
NE	0	3.23	0	0	0	3.23
ENE	0	6.01	0	0	0	6.01
E	0	10.41	0	0	0	10.41
ESE	0	8.21	0	0	0	8.21
SE	0	10.26	0	0	0	10.26
SSE	0	8.94	0	0	0	8.94
S	0.15	8.36	0	0	0	8.51
SSW	0.15	8.65	0	0	0	8.8
SW	0.29	10.7	0	0	0	10.99
WSW	0.15	7.18	0	0	0	7.33
W	0	3.67	0	0	0	3.67
WNW	0	3.96	0	0	0	3.96
NW	0	2.93	0	0	0	2.93
NNW	0	4.11	0	0	0	4.11
Summary	0.74	99.26	0	0	0	100



Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

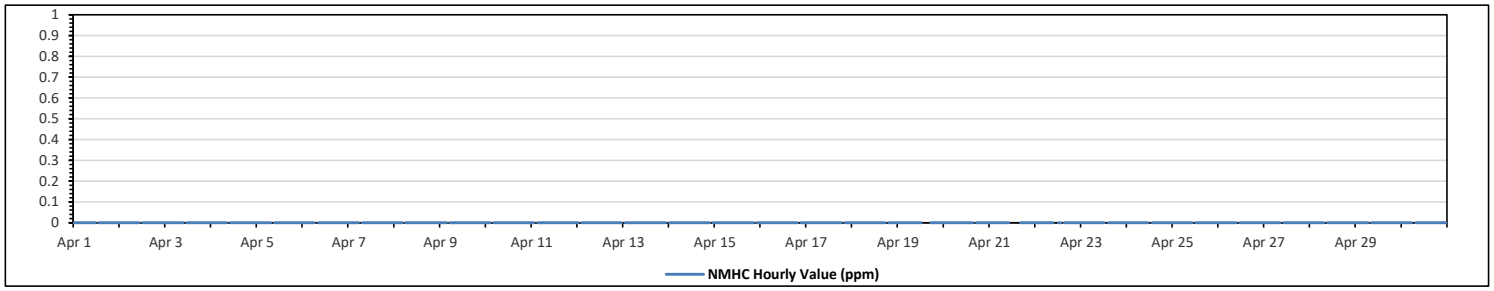
NON-METHANE HYDROCARBONS (NMHC) in ppm

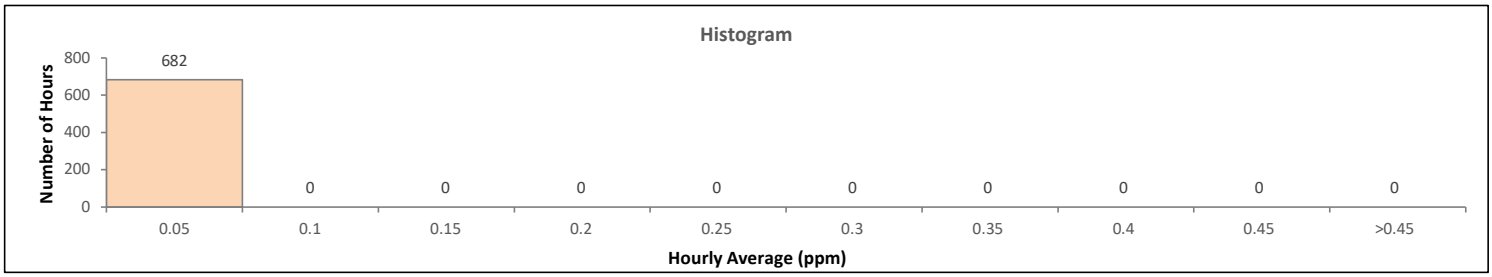
Maximum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on Apr 1	Hours of Data:	682
Minimum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours of Missing Data:	4
Minimum Daily Value:	0.00	ppm	on Apr 1	Hours of Calibration:	34
Monthly Average:	0.00	ppm		Operational Uptime:	99.4

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
Apr 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2	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
Apr 3	0.00	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
Apr 4	0.00	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
Apr 5	0.00	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
Apr 6	0.00	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
Apr 7	0.00	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
Apr 8	0.00	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
Apr 9	0.00	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
Apr 10	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 11	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 12	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 13	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 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	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Apr 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	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Apr 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Apr 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	K	0.00	K	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	K	K	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 25	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
Apr 26	0.00	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
Apr 27	0.00	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
Apr 28	0.00	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
Apr 29	0.00	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
Apr 30	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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.



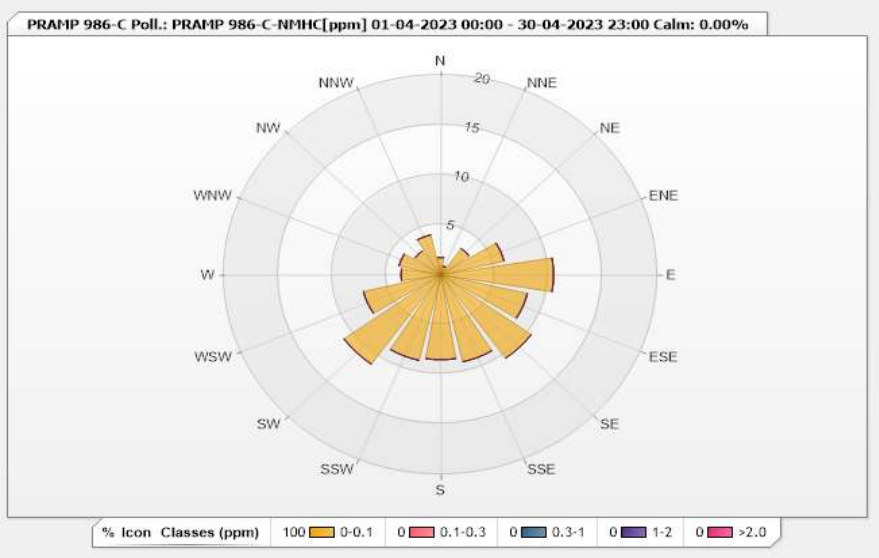


Station: PRAMP 986-C Poll.: PRAMP 986-C-NMHC[ppm] Monthly: 04-2023

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	1.76	0	0	0	0	1.76
NNE	0.88	0	0	0	0	0.88
NE	3.23	0	0	0	0	3.23
ENE	6.01	0	0	0	0	6.01
E	10.41	0	0	0	0	10.41
ESE	8.21	0	0	0	0	8.21
SE	10.26	0	0	0	0	10.26
SSE	8.94	0	0	0	0	8.94
S	8.5	0	0	0	0	8.5
SSW	8.8	0	0	0	0	8.8
SW	11	0	0	0	0	11
WSW	7.33	0	0	0	0	7.33
W	3.67	0	0	0	0	3.67
WNW	3.96	0	0	0	0	3.96
NW	2.93	0	0	0	0	2.93
NNW	4.11	0	0	0	0	4.11
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

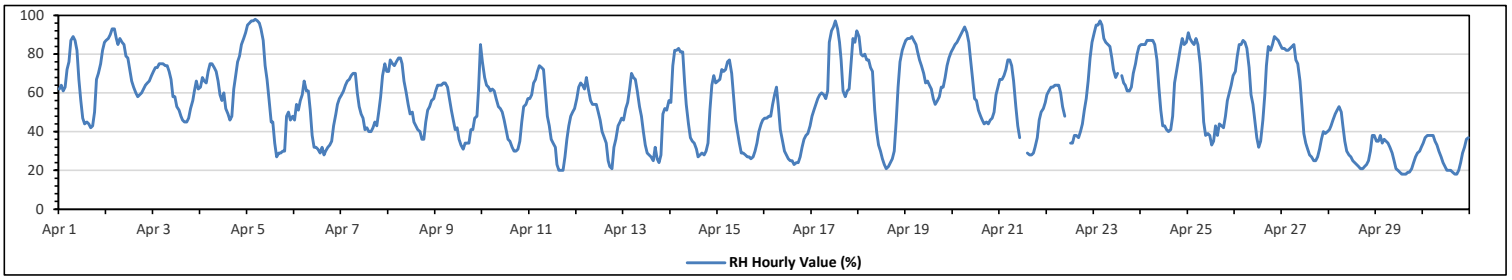
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	98	%	on Apr 5 at hr 4	Hours in Service:	720
Maximum Daily Value:	78.1	%	on Apr 23	Hours of Data:	715
Minimum Hourly Value:	18	%	on Apr 29 at hr 13	Hours of Missing Data:	5
Minimum Daily Value:	27.0	%	on Apr 29	Hours of Calibration:	0
Monthly Average:	55.2	%		Operational Uptime:	99.3

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
Apr 1	62	64	61	63	72	76	87	89	87	82	67	56	47	44	45	44	42	43	50	67	70	75	82	86	42	89	65.0
Apr 2	87	88	90	93	93	88	85	88	86	85	79	78	72	66	63	60	58	59	60	62	64	65	66	69	58	93	75.2
Apr 3	71	73	73	75	75	75	74	74	71	67	58	58	53	51	48	46	45	45	47	52	56	61	66	62	45	75	61.5
Apr 4	63	68	66	65	71	75	75	73	71	66	59	56	60	52	49	46	48	62	69	76	79	85	88	91	46	91	67.2
Apr 5	95	96	97	97	**98**	97	96	93	87	74	67	57	45	45	34	27	29	29	30	30	48	50	46	48	27	**98**	63.1
Apr 6	46	54	51	56	59	66	61	61	51	38	32	32	31	29	32	28	30	32	33	35	43	49	54	57	28	66	44.2
Apr 7	59	61	64	66	67	69	70	70	60	53	49	47	41	42	40	40	42	45	43	50	58	69	75	71	40	75	56.3
Apr 8	71	77	75	74	76	78	78	75	66	60	54	49	50	45	43	41	40	36	36	45	51	53	56	57	36	78	57.8
Apr 9	61	64	64	64	65	65	63	57	51	46	41	42	36	33	31	34	34	34	41	41	47	48	62	85	31	85	50.4
Apr 10	76	68	64	63	61	62	61	57	53	52	50	46	41	36	35	32	30	30	31	35	45	53	54	57	30	76	49.7
Apr 11	57	59	65	67	71	74	73	72	62	48	43	36	34	32	23	20	20	20	27	36	43	48	50	52	20	74	47.2
Apr 12	57	63	65	64	62	68	62	56	54	54	54	50	46	40	37	34	25	22	21	32	36	43	45	47	21	68	47.4
Apr 13	46	52	55	62	70	68	67	61	53	48	40	33	29	28	27	25	32	26	24	28	49	52	51	56	24	70	45.1
Apr 14	55	74	82	82	83	81	81	65	54	44	37	35	34	31	27	28	29	28	30	34	51	64	69	65	27	83	52.6
Apr 15	66	67	72	71	72	76	77	70	58	46	40	34	29	29	28	27	27	26	27	30	34	40	44	46	26	77	47.3
Apr 16	47	47	48	48	54	59	63	53	41	35	30	28	26	25	25	23	24	24	27	32	36	38	39	43	23	63	38.1
Apr 17	48	51	54	57	59	60	59	57	61	86	92	94	97	93	86	77	61	58	61	62	75	88	86	92	48	97	71.4
Apr 18	89	80	79	80	77	77	73	71	51	40	33	30	26	23	21	22	24	26	30	45	63	76	82	85	21	89	54.3
Apr 19	87	88	88	89	87	85	81	77	74	70	65	66	64	62	57	54	56	58	63	63	68	74	78	81	54	89	72.3
Apr 20	83	85	86	88	90	92	94	91	86	78	67	57	56	51	48	46	44	45	44	46	47	50	59	63	44	94	66.5
Apr 21	67	67	69	72	77	77	74	66	53	43	37	K	31	K	29	28	28	29	32	37	46	50	52	55	28	77	50.9
Apr 22	59	61	63	63	64	64	64	60	53	48	K	K	34	34	38	38	37	40	44	51	57	66	78	86	34	86	54.6
Apr 23	91	95	95	97	95	88	86	85	84	78	72	68	70	K	69	65	64	61	61	63	70	75	80	84	61	97	**78.1**
Apr 24	85	85	85	87	87	87	87	85	77	63	51	43	43	41	40	41	48	65	71	77	83	88	85	86	40	88	70.4
Apr 25	91	88	86	85	88	85	75	63	45	38	39	38	33	35	43	38	44	43	42	48	56	60	64	69	33	91	58.2
Apr 26	71	79	85	85	87	86	83	73	59	54	47	37	32	35	46	59	74	84	82	85	89	88	87	85	32	89	70.5
Apr 27	83	83	82	82	83	84	85	77	75	66	53	39	34	31	28	27	25	25	27	31	36	40	39	40	25	85	53.1
Apr 28	41	43	46	49	51	53	50	43	35	30	28	27	25	24	23	22	21	21	22	23	25	30	38	38	21	53	33.7
Apr 29	35	35	38	34	36	35	34	32	29	25	21	20	19	**18**	**18**	**18**	19	19	21	24	27	29	30	32	**18**	38	**27.0**
Apr 30	34	37	38	38	38	38	35	33	30	27	24	22	20	20	20	19	**18**	**18**	20	24	29	32	36	37	**18**	38	28.6
Diurnal Maximum	95	96	97	97	98	97	96	93	87	86	92	94	97	93	86	77	74	84	82	85	89	88	88	92			
Diurnal Average	66.1	68.4	69.5	70.5	72.3	72.9	71.8	67.6	60.6	54.8	49.3	45.6	41.9	39.1	38.4	37.0	37.3	38.4	40.5	45.5	52.7	58.0	61.4	64.2			

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

986-C Station - April 2023

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	955	mb	on Apr 21 at hr 6	Hours in Service:	720	
Maximum Daily Value:	953	mb	on Apr 20	Hours of Data:	715	
Minimum Hourly Value:	921	mb	on Apr 9 at hr 20	Hours of Missing Data:	5	
Minimum Daily Value:	926	mb	on Apr 17	Hours of Calibration:	0	
Monthly Average:	938	mb		Operational Uptime:	99.3	

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
Apr 1	927	927	927	927	927	927	927	927	927	926	926	926	926	926	926	926	926	926	927	927	928	928	929	929	926	929	927
Apr 2	930	930	931	931	931	932	933	933	934	935	935	936	936	937	937	938	938	938	938	938	939	939	939	939	930	939	935
Apr 3	939	939	939	939	939	939	939	939	939	940	940	940	940	940	940	940	940	940	940	940	941	941	941	942	939	942	940
Apr 4	942	942	942	943	943	943	944	944	944	944	945	944	944	944	944	944	943	943	943	943	943	942	942	942	942	945	943
Apr 5	941	941	941	941	940	940	940	939	939	939	938	938	938	938	937	937	937	937	936	936	936	936	936	936	936	941	938
Apr 6	936	935	935	935	935	935	935	935	935	935	935	935	934	934	934	933	933	932	932	931	931	931	930	930	930	936	934
Apr 7	929	929	929	929	929	929	928	928	928	928	928	928	927	927	927	927	926	926	926	926	927	927	927	927	926	929	928
Apr 8	927	928	928	928	928	928	928	929	929	929	929	929	929	929	929	929	928	928	929	929	930	930	931	931	927	931	929
Apr 9	932	932	933	933	933	933	934	934	933	933	933	933	931	930	929	928	927	926	924	923	**921**	**921**	923	926	**921**	934	929
Apr 10	928	929	930	930	931	932	932	933	933	933	933	933	933	933	933	933	934	934	934	934	934	935	935	934	928	935	933
Apr 11	934	934	933	933	933	933	934	934	934	934	933	933	933	933	933	933	933	933	933	933	934	934	934	935	933	935	933
Apr 12	935	935	935	935	935	936	936	937	937	937	937	937	937	936	936	935	935	935	935	935	935	935	935	935	935	937	936
Apr 13	935	935	935	934	935	935	935	935	935	936	936	936	936	936	935	935	936	936	936	936	936	937	937	937	934	937	936
Apr 14	938	938	938	938	938	939	939	939	940	940	940	940	940	940	940	940	940	940	940	940	941	941	941	941	938	941	940
Apr 15	941	941	941	941	942	942	942	942	942	942	942	941	941	941	941	941	940	940	940	940	939	939	939	939	939	942	941
Apr 16	939	939	938	939	939	938	938	938	938	938	937	936	935	934	933	932	932	931	931	930	930	929	929	928	928	939	935
Apr 17	927	927	926	926	925	925	925	925	925	924	924	925	926	926	926	927	927	927	928	928	928	929	929	929	924	929	**926**
Apr 18	930	930	930	930	931	931	931	932	933	933	933	934	934	934	934	935	935	935	936	937	938	939	939	940	930	940	934
Apr 19	940	941	942	942	943	943	944	945	945	945	945	946	946	947	948	948	948	949	950	950	951	952	952	952	940	952	946
Apr 20	953	953	953	953	953	954	954	954	954	954	954	954	954	953	953	953	953	953	953	953	953	953	953	953	953	954	**953**
Apr 21	953	953	953	954	954	954	**955**	**955**	**955**	**955**	**955**	K	954	K	953	953	952	952	952	951	951	951	951	950	950	**955**	953
Apr 22	950	949	949	948	948	947	946	946	946	945	K	K	943	943	942	942	941	941	941	941	941	940	940	940	940	950	944
Apr 23	940	939	939	938	938	938	938	938	937	937	937	937	937	K	936	936	936	936	936	936	936	936	936	936	936	940	937
Apr 24	936	936	936	936	937	937	938	938	938	938	938	938	938	938	938	938	938	938	939	939	939	939	939	939	936	939	938
Apr 25	938	938	937	937	937	936	936	936	936	936	936	936	937	937	937	937	938	939	940	941	942	942	942	942	936	942	938
Apr 26	942	942	942	942	942	941	941	940	940	939	938	936	936	935	935	935	935	934	934	935	935	936	937	938	934	942	938
Apr 27	939	940	941	942	943	943	944	945	945	945	944	944	944	943	943	942	941	941	941	941	941	941	941	942	939	945	942
Apr 28	942	943	944	944	945	946	946	947	947	948	948	947	947	947	947	947	946	947	947	947	947	947	947	948	942	948	946
Apr 29	948	948	948	948	948	948	948	948	947	947	946	946	945	945	944	943	942	942	941	941	941	941	941	940	940	948	945
Apr 30	940	940	940	939	939	939	939	939	939	938	938	937	937	936	936	936	935	935	934	934	934	934	934	934	934	940	937
Diurnal Maximum	953	953	953	954	954	954	955	955	955	955	955	954	954	953	953	953	953	953	953	953	953	953	953	953			
Diurnal Average	938	938	938	938	938	938	938	938	938	938	938	937	938	937	938	937	937	937	937	937	938	938	938	938			

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

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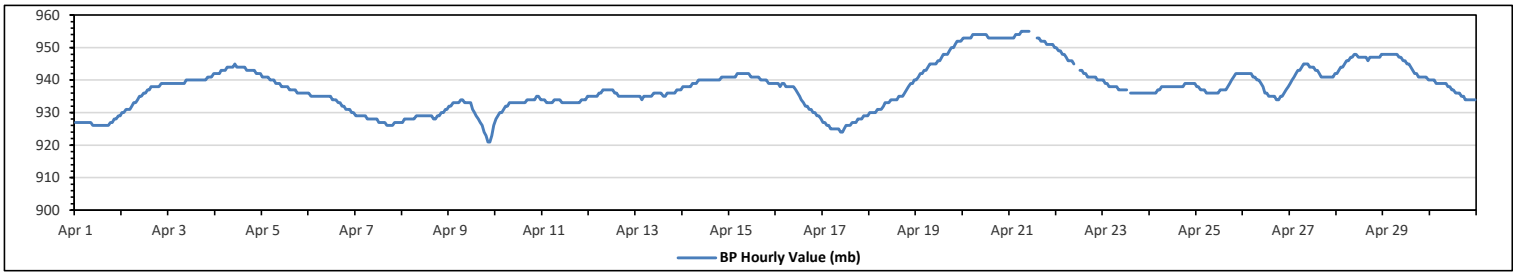


Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

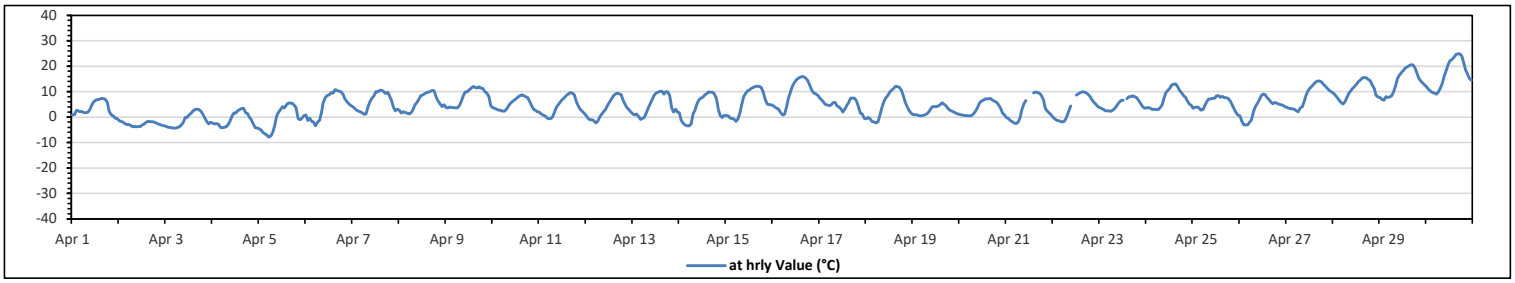
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	24.8	°C	on Apr 30 at hr 16	Hours in Service:	720	
Maximum Daily Value:	16.8	°C	on Apr 30	Hours of Data:	715	
Minimum Hourly Value:	-7.8	°C	on Apr 5 at hr 5	Hours of Missing Data:	5	
Minimum Daily Value:	-2.7	°C	on Apr 2	Hours of Calibration:	0	
Monthly Average:	5.1	°C		Operational Uptime:	99.3	

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
Apr 1	0.9	1	2.6	2.5	2.1	2.2	1.7	1.7	2	2.9	4.7	6	6.7	6.9	7	7.3	7.2	6.9	5.6	2.4	0.9	0.4	-0.4	-0.6	-0.6	7.3	3.4
Apr 2	-1.4	-1.7	-1.9	-2.5	-2.9	-2.9	-3.3	-3.8	-3.7	-3.8	-3.7	-3.7	-3	-2.7	-2	-1.6	-1.8	-1.8	-2	-2.3	-2.7	-2.9	-3.2	-3.4	-3.8	-1.4	**-2.7**
Apr 3	-3.6	-3.9	-4.1	-4.2	-4.3	-4.3	-4.1	-3.8	-3.1	-2.1	-0.2	0	0.9	1.6	2.3	2.9	3.1	3	2.4	1.1	-0.3	-1.6	-2.7	-2.1	-4.3	3.1	-1.1
Apr 4	-2.3	-2.7	-2.5	-2.8	-4	-4.2	-4.1	-3.8	-2.9	-1.5	0.3	1.6	1.6	2.5	2.9	3.4	3.5	1.7	1.4	-0.1	-1	-2.8	-4.2	-4.3	-4.3	3.5	-1.0
Apr 5	-4.6	-5.1	-6.1	-6.6	-7.1	**-7.8**	-7.3	-5.8	-3	0.5	2	3	4.2	3.6	4.7	5.5	5.5	5.5	4.7	3.8	-0.7	-1.1	-0.4	0.5	**-7.8**	5.5	-0.5
Apr 6	0.8	-1.3	-0.4	-1.6	-2	-3.5	-2	-1.3	2	5.6	7.8	8.5	8.8	9.6	9.4	10.8	10.5	10.2	10	9	7.1	6.1	5.2	4.6	-3.5	10.8	4.7
Apr 7	4.1	3.5	2.8	2.3	2.1	1.6	1.1	1.2	4	6.3	7.5	8.4	10	9.8	10.5	10.6	10	9.3	9.7	8.2	6.4	4.2	2.5	3.1	1.1	10.6	5.8
Apr 8	2.7	1.6	2.1	1.8	1.6	1.2	1.6	2.7	4.8	5.7	7	8.3	8.6	9.2	9.6	9.7	10.1	10.6	10.3	7.9	6.4	5.3	4.2	4.8	1.2	10.6	5.7
Apr 9	3.7	3.6	4	3.8	3.7	3.6	3.6	4.7	6.6	8.7	9.9	9.8	10.8	11.4	12	11.7	11.4	11.9	11.4	11.3	10	9.4	8	4.3	3.6	12.0	7.9
Apr 10	3.7	3.5	3.1	2.8	2.7	2.3	2.3	3	4.2	5.2	6	6.6	7.2	7.9	8.3	8.7	8.4	8.1	7.7	6.3	4.3	2.9	2.7	2.1	2.1	8.7	5.0
Apr 11	1.9	1.3	0.7	0.4	-0.4	-0.7	-0.6	0.3	2.4	4.1	5.2	6.3	7.1	7.7	8.6	9.1	9.6	9.4	8.7	6.1	4.5	3.1	2.4	1.6	-0.7	9.6	4.1
Apr 12	0.6	-0.6	-1.1	-1.1	-1.4	-2.3	-1.7	0	1.1	2.2	3.1	4.4	5.7	7.1	8.3	9	9.4	9.1	8.9	6.8	5.1	3.8	3	1.9	-2.3	9.4	3.4
Apr 13	1.3	0.9	1.2	0.2	-1	-0.6	0	1.7	3.6	5.2	6.9	8.5	9.5	9.7	10.1	10.1	9	10	9.9	8.4	3.7	1.9	3.1	2	-1.0	10.1	4.8
Apr 14	1.7	-1.3	-2.5	-3.2	-3.5	-3.4	-2.6	1.2	2.8	5.1	6.8	7.4	7.9	8.7	9.2	9.8	9.7	9.7	9	7.2	2.9	0.5	-0.1	0.7	-3.5	9.8	3.5
Apr 15	0.5	0.4	-0.4	-0.6	-0.8	-1.7	-0.8	1.5	4.8	8	9.3	10.4	10.7	11.3	11.7	12	12.2	12.1	11.7	9.9	7.1	5.3	4.8	4.8	-1.7	12.2	6.0
Apr 16	4.4	4	3.4	3.2	1.8	0.9	1.1	4	7.3	9.7	12	13.5	14.6	15.2	15.7	16	15.8	15.1	14.4	12.4	10.5	9.5	9.2	8.5	0.9	16.0	9.3
Apr 17	7.6	6.9	6	5	4.7	4.5	4.8	5.7	5.7	4.3	4	3.2	1.9	3.2	4.7	5.6	7.4	7.5	7.3	6.3	4	1.5	1.2	-0.5	-0.5	7.6	4.7
Apr 18	-0.7	-0.1	-0.7	-1.8	-2	-2.4	-1.8	0.3	3.7	6	7.5	8.4	9.8	10.6	11.1	12	12.1	11.7	10.5	8.4	5.9	4.1	2.6	1.6	-2.4	12.1	4.9
Apr 19	1	1	0.9	0.5	0.4	0.6	0.9	1.2	2	3.1	4.2	4.2	4.1	4.3	4.9	5.6	5	4.3	3.3	2.7	2.3	2	1.6	1.3	0.4	5.6	2.6
Apr 20	1.1	0.9	0.7	0.6	0.5	0.4	0.6	1.2	2.2	3.5	5.2	6.3	6.5	7.1	7.1	7.2	7.2	6.6	6.3	5.7	4.7	3.5	1.6	0.8	0.4	7.2	3.6
Apr 21	-0.2	-0.6	-1.3	-1.8	-2.3	-2.5	-2	-0.1	2.7	5.2	6.5	**K**	8.3	**K**	9.5	9.8	9.6	9.4	8.6	6.8	3.4	2.3	1.6	0.9	-2.5	9.8	3.4
Apr 22	0	-0.8	-1.2	-1.4	-1.8	-1.9	-1.5	0	2.3	4.3	**K**	**K**	8.6	9.1	9.6	9.8	9.8	9.5	8.9	8	6.9	5.8	5	4.2	-1.9	9.8	4.2
Apr 23	3.7	3.3	2.9	2.5	2.5	2.4	2.4	3	3.7	4.8	5.8	6.5	6.7	**K**	7.2	8	8.1	8.4	8.1	7.6	6.6	5.3	4.1	3.5	2.4	8.4	5.1
Apr 24	3.6	3.7	3.5	2.9	3.1	3	3	3.7	4.9	7.1	9.5	10.6	11.4	12.7	12.9	13	12.1	10.5	9.6	8.5	7.8	6.3	5.1	4.6	2.9	13.0	7.2
Apr 25	3.5	3.9	4	3.6	2.7	2.9	4.5	6	7.1	7.1	7.3	7.4	8.3	8.4	7.8	8.2	7.7	7.7	7.4	6.3	4.7	3.3	1.9	0.8	0.8	8.4	5.5
Apr 26	0.4	-1.6	-3	-3.1	-3.1	-2.1	-1.1	1.9	4.2	5.5	7	8.5	9	8.9	7.6	6.9	5.9	5.3	5.7	5.5	5.1	4.8	4.7	4.2	-3.1	9.0	3.6
Apr 27	3.9	3.5	3.3	3.2	3.1	2.5	2.1	3.5	4.2	6.3	8.4	10.2	11.2	12.2	13	13.7	14.2	14.2	13.7	12.8	12.2	11.2	10.4	9.8	2.1	14.2	8.5
Apr 28	9.4	8.7	7.7	6.6	5.7	5.1	6	7.6	9.3	10.3	11.2	12	13.1	14	14.7	15.4	15.6	15.4	14.9	14.3	12.7	11.1	8.6	7.9	5.1	15.6	10.7
Apr 29	7.8	7	6.6	8	7.8	7.9	8.4	9.9	12.2	15	16.4	17.6	18.3	19.1	19.7	20.2	20.5	20.4	19.3	17.4	15.3	14.1	13.4	12.7	6.6	20.5	14.0
Apr 30	11.9	10.8	10.2	9.6	9.4	9	9.8	11.2	13.2	16	18.4	20.4	22.1	22.6	23.4	24.6	**24.8**	**24.8**	24.2	21.5	18.6	17	15.2	14.5	9.0	**24.8**	**16.8**
Diurnal Maximum	11.9	10.8	10.2	9.6	9.4	9.0	9.8	11.2	13.2	16.0	18.4	20.4	22.1	22.6	23.4	24.6	24.8	24.8	24.2	21.5	18.6	17.0	15.2	14.5			
Diurnal Average	2.2	1.7	1.4	1.0	0.6	0.3	0.7	2.0	3.7	5.3	6.8	7.7	8.4	9.0	9.4	9.8	9.8	9.6	9.1	7.7	5.8	4.5	3.7	3.2			

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

986-C Station - April 2023

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

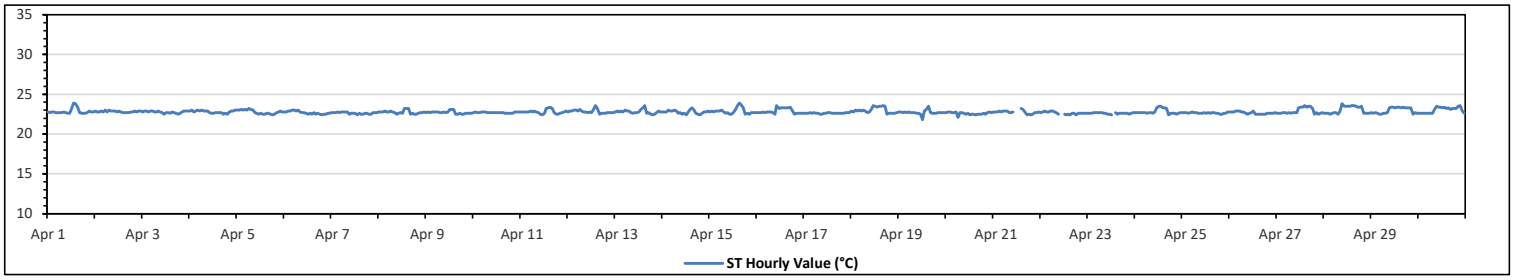
Maximum Hourly Value:	23.9	°C	on Apr 1 at hr 13	Hours in Service:	720
Maximum Daily Value:	23.0	°C	on Apr 28	Hours of Data:	715
Minimum Hourly Value:	21.8	°C	on Apr 19 at hr 12	Hours of Missing Data:	5
Minimum Daily Value:	22.6	°C	on Apr 20	Hours of Calibration:	0
Monthly Average:	22.8	°C		Operational Uptime:	99.3

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
Apr 1	22.8	22.7	22.8	22.8	22.7	22.7	22.7	22.7	22.8	22.7	22.6	22.6	23.3	**23.9**	23.8	23.4	22.7	22.6	22.6	22.6	22.7	22.9	22.8	22.8	22.6	**23.9**	22.9
Apr 2	22.9	22.8	22.8	22.9	22.8	23.0	22.8	23.0	22.9	22.9	22.9	22.8	22.9	22.8	22.7	22.7	22.7	22.7	22.8	22.8	22.9	22.8	22.9	22.9	22.7	23.0	22.8
Apr 3	22.8	22.9	22.9	22.8	22.9	22.9	22.8	22.8	22.9	22.8	22.7	22.5	22.7	22.7	22.6	22.8	22.7	22.6	22.5	22.6	22.8	22.9	22.9	22.9	22.5	22.9	22.8
Apr 4	22.9	23.0	22.8	22.9	23.0	22.9	23.0	22.9	22.9	22.9	22.7	22.6	22.6	22.7	22.7	22.7	22.7	22.5	22.6	22.5	22.8	22.9	22.9	23.0	22.5	23.0	22.8
Apr 5	23.0	23.0	23.1	23.0	23.1	23.0	23.2	23.1	23.0	22.7	22.6	22.5	22.6	22.5	22.5	22.6	22.6	22.5	22.4	22.5	22.7	22.8	22.9	22.8	22.4	23.2	22.8
Apr 6	22.8	22.8	22.9	22.9	23.0	23.0	22.9	23.0	22.8	22.7	22.7	22.6	22.5	22.6	22.5	22.7	22.5	22.6	22.5	22.4	22.5	22.5	22.6	22.6	22.4	23.0	22.7
Apr 7	22.7	22.7	22.7	22.8	22.7	22.8	22.8	22.8	22.8	22.5	22.6	22.6	22.6	22.4	22.6	22.5	22.5	22.6	22.6	22.5	22.5	22.7	22.7	22.7	22.4	22.8	22.6
Apr 8	22.8	22.8	22.8	22.9	22.8	22.8	22.9	22.8	22.7	22.5	22.6	22.7	22.6	23.2	23.2	23.2	22.5	22.6	22.5	22.5	22.6	22.7	22.7	22.8	22.5	23.2	22.8
Apr 9	22.7	22.8	22.7	22.8	22.8	22.8	22.8	22.7	22.7	22.8	22.7	22.8	23.1	23.1	23.1	22.5	22.5	22.6	22.5	22.5	22.6	22.6	22.6	22.6	22.5	23.1	22.7
Apr 10	22.7	22.8	22.7	22.7	22.8	22.8	22.8	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.8	22.8	22.8	22.6	22.8	22.7
Apr 11	22.8	22.8	22.8	22.8	22.8	22.9	22.8	22.9	22.8	22.7	22.5	22.4	22.6	23.2	23.3	23.4	23.2	22.7	22.5	22.5	22.6	22.7	22.8	22.9	22.4	23.4	22.8
Apr 12	22.8	22.9	22.9	23.0	23.0	22.9	23.1	22.9	22.8	22.8	22.7	22.8	22.7	23.1	23.6	23.2	22.5	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.5	23.6	22.8
Apr 13	22.8	22.9	22.8	22.9	22.8	23.0	22.9	22.9	22.7	22.6	22.7	22.7	22.8	23.1	23.3	23.6	22.6	22.7	22.5	22.4	22.5	22.7	22.9	22.8	22.4	23.6	22.8
Apr 14	22.8	22.8	22.8	23.0	22.9	22.9	23.0	22.9	22.6	22.7	22.5	22.6	22.4	22.8	23.1	23.3	23.0	22.6	22.5	22.4	22.6	22.8	22.8	22.9	22.4	23.3	22.8
Apr 15	22.8	22.9	22.8	22.9	22.9	22.9	23.0	22.8	22.6	22.7	22.5	22.5	22.7	23.1	23.6	**23.9**	23.7	23.3	22.5	22.6	22.5	22.7	22.7	22.7	22.5	**23.9**	22.9
Apr 16	22.7	22.7	22.7	22.8	22.7	22.8	22.8	22.8	22.7	22.5	23.6	23.2	23.3	23.3	23.3	23.3	23.3	23.4	22.9	22.5	22.6	22.6	22.6	22.6	22.5	23.6	22.9
Apr 17	22.6	22.6	22.6	22.7	22.6	22.7	22.6	22.6	22.5	22.5	22.6	22.6	22.7	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.5	22.7	22.6
Apr 18	22.9	22.8	23.0	22.9	23.0	22.9	23.0	22.9	22.7	22.8	23.1	23.6	23.5	23.4	23.5	23.5	23.6	23.5	22.5	22.6	22.6	22.6	22.6	22.7	22.5	23.6	23.0
Apr 19	22.8	22.8	22.7	22.8	22.7	22.8	22.7	22.7	22.7	22.6	22.6	22.5	**21.8**	22.9	23.1	23.5	22.7	22.6	22.6	22.6	22.7	22.7	22.7	22.7	**21.8**	23.5	22.7
Apr 20	22.7	22.8	22.8	22.7	22.7	22.8	22.1	22.7	22.7	22.6	22.5	22.6	22.4	22.5	22.5	22.4	22.5	22.5	22.5	22.6	22.5	22.7	22.8	22.7	22.1	22.8	**22.6**
Apr 21	22.8	22.8	22.8	22.9	22.8	22.9	22.9	22.9	22.7	22.7	22.8	K	22.7	K	23.2	23.1	22.8	22.4	22.5	22.4	22.5	22.7	22.7	22.8	22.4	23.2	22.8
Apr 22	22.7	22.8	22.9	22.8	22.8	22.9	22.9	22.8	22.7	22.5	K	K	22.5	22.4	22.5	22.4	22.6	22.6	22.4	22.6	22.6	22.6	22.6	22.6	22.4	22.9	22.6
Apr 23	22.6	22.6	22.6	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.5	22.5	22.4	K	22.7	22.5	22.6	22.6	22.6	22.6	22.6	22.5	22.6	22.7	22.4	22.7	22.6
Apr 24	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.7	22.7	22.6	22.8	23.3	23.5	23.5	23.3	23.3	23.2	22.4	22.6	22.6	22.6	22.5	22.6	22.7	22.4	23.5	22.8
Apr 25	22.7	22.7	22.7	22.6	22.7	22.8	22.7	22.7	22.6	22.6	22.6	22.7	22.6	22.7	22.6	22.7	22.7	22.6	22.6	22.5	22.5	22.6	22.6	22.8	22.5	22.8	22.7
Apr 26	22.8	22.8	22.8	22.9	22.9	22.9	22.8	22.8	22.6	22.5	22.6	22.7	22.9	22.5	22.5	22.5	22.5	22.5	22.5	22.6	22.6	22.6	22.6	22.7	22.5	22.9	22.7
Apr 27	22.6	22.6	22.6	22.7	22.7	22.6	22.7	22.6	22.7	22.7	22.7	23.3	23.4	23.4	23.6	23.4	23.5	23.5	23.2	22.5	22.7	22.5	22.6	22.7	22.5	23.6	22.9
Apr 28	22.6	22.6	22.6	22.5	22.6	22.7	22.7	22.5	22.9	23.8	23.5	23.5	23.5	23.5	23.6	23.6	23.5	23.4	23.4	23.5	22.6	22.6	22.6	22.6	22.5	23.8	**23.0**
Apr 29	22.7	22.6	22.7	22.6	22.5	22.5	22.6	22.6	22.7	23.3	23.4	23.4	23.3	23.4	23.4	23.3	23.4	23.3	23.3	23.3	23.3	22.5	22.7	22.6	22.5	23.4	23.0
Apr 30	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.1	23.5	23.4	23.4	23.3	23.4	23.2	23.3	23.1	23.2	23.2	23.2	23.5	23.6	22.9	22.6	22.6	23.6	23.0
Diurnal Maximum	23.0	23.0	23.1	23.0	23.1	23.0	23.2	23.1	23.1	23.8	23.6	23.6	23.5	23.9	23.8	23.9	23.7	23.5	23.4	23.5	23.5	23.6	22.9	23.0			
Diurnal Average	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.7	22.8	22.8	22.8	22.8	23.0	23.0	23.0	22.9	22.8	22.7	22.6	22.7	22.7	22.7	22.7			

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

986-C Station - April 2023

Summary of Hourly Averages

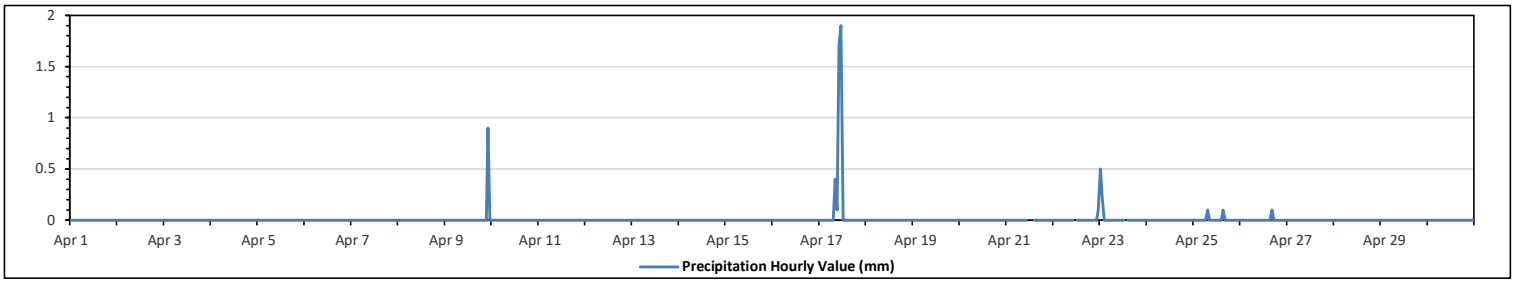
PRECIPITATION in mm

Maximum Hourly Value:	1.9	mm	on Apr 17 at hr 11	Hours in Service:	720	
Maximum Daily Value:	4.1	mm	on Apr 17	Hours of Data:	716	
Minimum Hourly Value:	0.0	mm	on Apr 1 at hr 0	Hours of Missing Data:	4	
Minimum Daily Value:	0.0	mm	on Apr 1	Hours of Calibration:	0	
Monthly Total:	6.1	mm		Operational Uptime:	99.4	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 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
Apr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 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
Apr 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
Apr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0.0	0.9	0.9
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 17	0	0	0	0	0	0	0	0	0.4	0.1	1.7	**1.9**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**1.9**	**4.1**
Apr 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
Apr 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
Apr 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
Apr 21	0	0	0	0	0	0	0	0	0	0	0	**K**	0	**K**	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 22	0	0	0	0	0	0	0	0	0	0	0	**K**	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	0.1	0.1
Apr 23	0.5	0.2	0	0	0	0	0	0	0	0	0	0	0	**K**	0	0	0	0	0	0	0	0	0	0	0.0	0.5	0.7
Apr 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
Apr 25	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0.0	0.1	0.2
Apr 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0.0	0.1	0.1
Apr 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
Apr 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
Apr 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
Apr 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	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	1.7	1.9	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.9	0.1			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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			

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 - April 2023

Summary of Hourly Averages

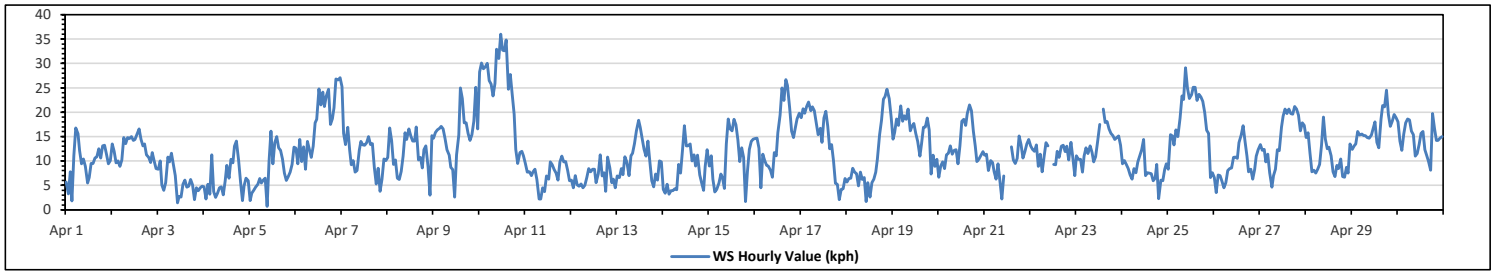
VECTOR WIND SPEED (VWS) in km/hr

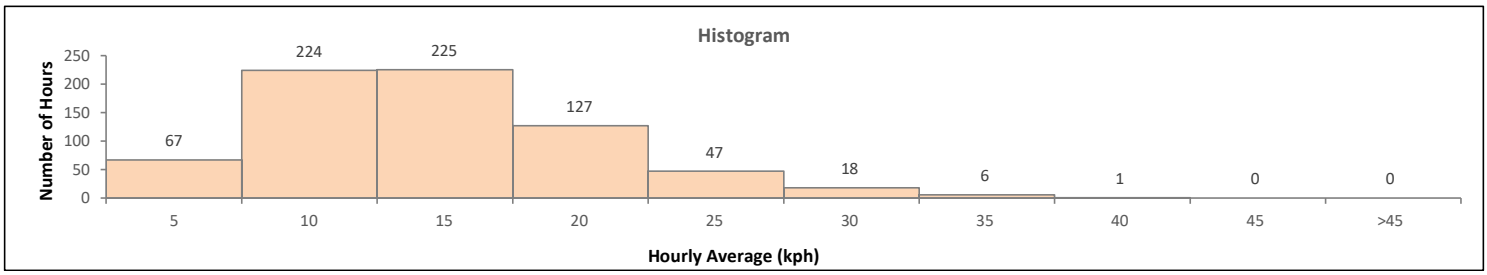
Maximum Hourly Value:	36.0	kph	on Apr 10 at hr 11	Hours in Service:	720
Maximum Daily Value:	25.0	kph	on Apr 10	Hours of Data:	715
Minimum Hourly Value:	0.7	kph	on Apr 5 at hr 9	Hours of Missing Data:	5
Minimum Daily Value:	5.8	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	4.0	kph		Operational Uptime:	99.3

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	5.7	3.3	7.8	1.8	11.1	16.8	15.6	12.1	9.4	10.4	8.9	5.5	6.6	9.5	9.5	10.6	10.9	12.5	10.6	13.1	13.2	11.4	9.4	10.1	1.8	16.8	9.8
Apr 2	13.5	12.0	9.6	10.0	8.9	10.2	14.8	13.6	14.8	14.6	15.0	14.2	14.4	15.6	16.6	14.4	13.1	13.5	11.3	10.7	9.7	11.7	10.0	8.4	8.4	16.6	12.5
Apr 3	8.3	10.0	5.1	4.0	5.6	10.8	9.8	11.6	9.3	7.0	1.4	2.7	2.6	5.2	6.1	4.6	4.8	6.2	5.1	2.1	4.5	3.9	4.5	4.8	1.4	11.6	**5.8**
Apr 4	4.7	2.2	5.2	3.2	11.3	3.7	2.5	3.4	4.5	4.7	3.1	5.9	9.1	6.5	10.3	9.6	13.0	14.1	10.1	5.7	1.9	4.9	6.5	5.9	1.9	14.1	6.3
Apr 5	1.9	3.4	4.0	4.6	5.2	6.4	5.5	6.1	6.5	**0.7**	9.9	16.1	9.4	13.7	15.0	12.7	12.2	10.4	7.5	6.0	6.8	7.7	9.3	12.8	**0.7**	16.1	8.1
Apr 6	12.6	9.4	14.4	9.9	12.9	8.3	14.0	12.4	10.7	13.0	17.8	18.5	24.8	21.5	24.1	21.2	23.3	24.7	17.5	18.7	20.9	26.8	26.6	27.1	8.3	27.1	18.0
Apr 7	25.2	15.7	13.4	16.9	12.2	9.2	10.1	7.7	8.0	12.2	14.0	13.3	13.2	13.7	15.0	13.4	13.6	8.7	5.3	8.5	3.8	6.3	10.4	10.1	3.8	25.2	11.7
Apr 8	10.7	16.8	14.2	9.3	10.2	6.5	6.2	7.9	11.0	15.8	14.4	16.6	15.1	14.1	14.1	17.0	10.2	10.7	8.6	12.3	13.1	8.8	3.0	15.2	3.0	17.0	11.7
Apr 9	14.7	15.9	16.4	16.7	17.1	16.6	14.6	12.3	11.2	8.7	8.2	2.6	11.3	15.3	25.0	22.8	17.8	17.8	15.7	14.2	15.4	18.2	25.1	16.6	2.6	25.1	15.4
Apr 10	28.3	30.1	28.9	29.3	30.0	26.5	25.8	23.3	25.9	32.9	31.0	**36.0**	32.7	32.6	34.8	24.7	27.7	23.6	19.6	12.4	9.5	11.7	12.0	11.1	9.5	**36.0**	**25.0**
Apr 11	9.5	7.7	7.8	7.0	7.8	8.3	6.2	2.2	2.2	4.5	3.7	6.9	6.3	9.8	9.2	8.2	7.5	6.1	9.8	11.0	9.8	9.9	8.1	5.9	2.2	11.0	7.3
Apr 12	6.1	4.5	7.0	5.1	4.8	5.3	4.5	5.0	6.6	8.4	7.8	8.3	8.3	5.6	7.4	11.3	6.9	7.6	3.8	10.8	8.6	5.6	6.3	4.5	3.8	11.3	6.7
Apr 13	6.9	6.6	8.4	7.2	10.9	9.8	7.0	11.1	11.6	13.6	16.2	18.3	16.9	14.6	12.4	11.0	14.1	9.9	5.9	4.7	7.3	6.1	10.0	9.8	4.7	18.3	10.4
Apr 14	4.2	3.4	5.2	3.2	3.9	3.9	4.3	4.1	9.3	7.5	12.2	17.2	13.1	13.1	13.5	10.0	11.3	9.0	11.2	7.1	5.5	4.0	8.9	12.3	3.2	17.2	8.2
Apr 15	9.0	11.1	6.3	3.6	4.2	5.5	7.3	6.6	4.4	13.5	18.6	16.6	16.2	18.5	17.4	14.4	9.9	12.7	10.7	1.7	7.9	12.4	14.0	14.5	1.7	18.6	10.7
Apr 16	14.6	14.7	12.6	4.5	11.4	10.1	9.1	9.0	8.1	6.7	11.7	11.1	15.8	19.4	25.0	22.4	26.7	25.5	20.8	16.1	14.8	16.6	18.6	19.8	4.5	26.7	15.2
Apr 17	18.9	20.7	19.8	21.2	22.1	20.3	21.1	20.3	17.8	15.4	16.7	13.8	18.8	20.2	17.1	12.5	13.4	10.0	5.4	5.2	2.1	4.2	4.3	6.4	2.1	22.1	14.5
Apr 18	5.7	6.4	6.5	8.5	7.7	7.4	4.9	7.7	6.2	6.6	1.7	5.6	2.6	5.6	6.3	7.7	10.3	15.4	18.3	22.7	23.2	24.7	22.8	19.1	1.7	24.7	10.6
Apr 19	14.5	15.9	18.6	17.3	21.3	18.2	19.3	18.5	20.6	16.2	17.1	17.7	15.7	14.0	11.0	13.5	16.9	17.0	18.8	16.4	7.3	11.2	8.9	10.3	7.3	21.3	15.7
Apr 20	6.7	9.0	9.8	8.4	11.3	11.6	13.1	11.4	12.2	12.3	9.4	13.1	18.2	18.5	17.3	19.7	21.5	20.3	16.1	13.0	9.9	10.3	11.2	11.9	6.7	21.5	13.2
Apr 21	11.2	11.4	8.0	10.1	9.7	7.8	6.3	9.4	5.3	2.2	6.9	**K**	11.6	**K**	12.9	10.2	9.5	10.5	15.1	13.4	10.6	11.9	13.5	14.4	2.2	15.1	10.1
Apr 22	13.1	12.4	12.0	13.3	8.9	11.4	7.8	10.9	13.7	13.1	**K**	**K**	9.3	9.2	12.0	10.7	13.0	13.2	11.9	13.0	10.2	13.8	10.6	7.0	7.0	13.8	11.4
Apr 23	11.1	10.3	10.3	7.7	11.0	12.7	11.5	13.1	11.7	9.8	10.9	13.8	17.5	**K**	20.6	17.9	18.1	16.6	15.7	15.2	14.4	14.8	15.1	13.2	7.7	20.6	13.6
Apr 24	9.4	10.1	9.3	8.4	7.1	6.3	8.4	7.6	9.8	11.1	12.3	14.4	7.0	7.6	7.5	7.4	5.9	6.5	9.3	2.3	6.1	5.9	8.3	9.4	2.3	14.4	8.2
Apr 25	8.3	15.4	15.1	13.3	16.4	15.0	18.8	23.3	22.6	29.1	25.0	22.8	23.6	25.1	25.1	22.4	23.7	23.1	22.2	19.9	16.3	15.7	6.6	7.6	6.6	29.1	19.0
Apr 26	6.6	3.5	7.1	7.0	5.8	4.5	5.6	8.0	8.4	8.6	10.7	10.8	10.5	13.7	15.3	17.2	14.0	11.0	7.8	8.3	6.3	8.2	11.0	12.3	3.5	17.2	9.3
Apr 27	13.4	12.2	12.4	9.8	11.4	7.6	4.6	7.0	8.3	12.3	12.1	17.0	19.2	20.6	19.7	20.6	19.7	19.6	21.2	20.6	19.4	16.2	17.8	17.3	4.6	21.2	15.0
Apr 28	14.8	15.8	11.6	7.8	8.1	7.5	8.3	9.3	13.2	19.0	14.5	12.5	12.8	11.1	7.8	6.8	9.1	8.4	10.4	6.8	6.7	8.7	7.5	13.5	6.7	19.0	10.5
Apr 29	12.4	13.1	13.5	16.0	15.3	15.5	15.2	15.2	14.8	14.7	15.3	16.6	18.0	13.8	12.7	18.6	21.4	21.1	24.5	19.5	17.1	18.2	19.5	18.9	12.4	24.5	16.7
Apr 30	18.0	14.1	12.2	15.5	17.8	18.6	18.4	16.1	15.4	11.0	11.5	13.4	15.7	16.0	12.3	11.1	10.0	8.1	19.7	16.7	14.2	14.2	14.7	15.0	8.1	19.7	14.6
Diurnal Maximum	28.3	30.1	28.9	29.3	30.0	26.5	25.8	23.3	25.9	32.9	31.0	36.0	32.7	32.6	34.8	24.7	27.7	25.5	24.5	22.7	23.2	26.8	26.6	27.1			
Diurnal Average	11.3	11.2	11.1	10.0	11.4	10.7	10.7	10.9	11.1	11.9	12.3	13.6	13.9	14.4	15.1	14.2	14.3	13.8	13.0	11.6	10.6	11.5	11.8	12.2			

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

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



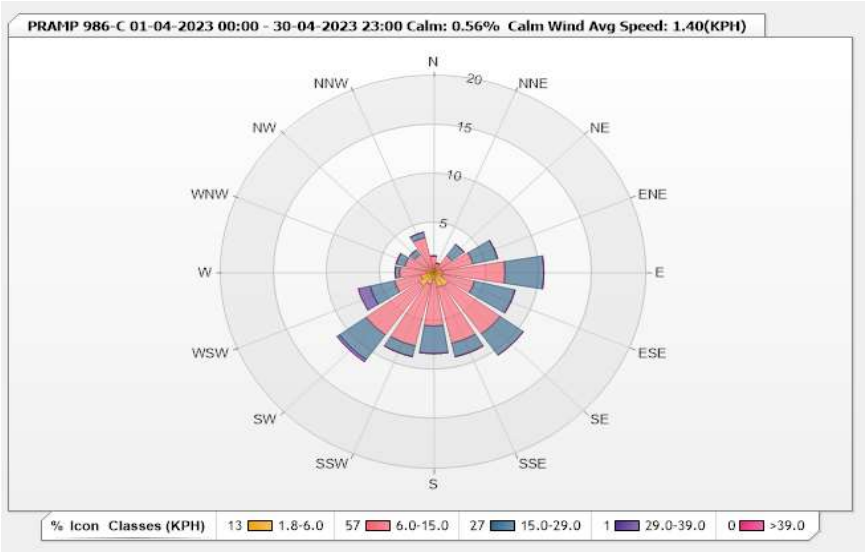


Station: PRAMP 986-C Monitor: WDS [KPH] Monthly: 04-2023

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

Calm (WS<1.8kph): 0.56% Valid Data: 99.31%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.42	1.26	0	0	0	1.68
NNE	0.28	0.7	0	0	0	0.98
NE	0.14	1.96	1.4	0	0	3.5
ENE	0.7	3.08	2.38	0	0	6.16
E	0.84	5.87	3.64	0	0	10.35
ESE	0.84	3.08	3.92	0	0	7.84
SE	1.68	6.01	2.66	0	0	10.35
SSE	1.54	5.87	1.4	0	0	8.81
S	0.7	4.76	2.8	0	0	8.26
SSW	1.26	6.43	1.12	0	0	8.81
SW	1.68	6.15	3.08	0.28	0	11.19
WSW	1.26	2.52	2.38	1.12	0	7.28
W	0.7	2.52	0.42	0	0	3.64
WNW	0.28	2.52	0.84	0	0	3.64
NW	0.7	1.54	0.56	0	0	2.8
NNW	0.42	3.22	0.56	0	0	4.2
Summary	13.44	57.49	27.16	1.4	0	99.49



Peace River Area Monitoring Program

986-C Station - April 2023

Summary of Hourly Averages

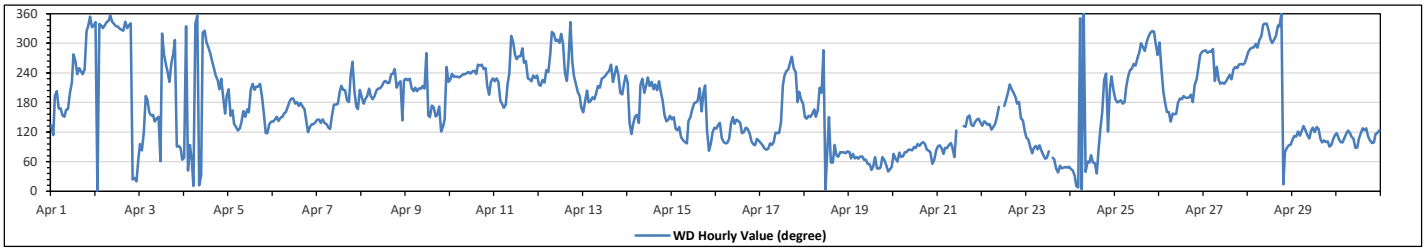
WIND DIRECTION (VWD) in sector

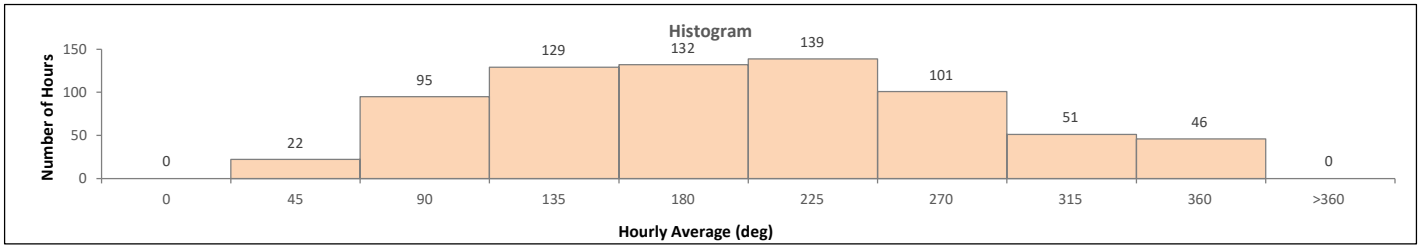
Monthly Average:	164 (SSE)	degree	
Hours in Service:	720		
Hours of Data:	715		
Hours of Missing Data:	5		
Hours of Calibration:	0		
Operational Uptime:	99.3		

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
Apr 1	SE	ESE	S	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SW	W	W	SW	WSW	WSW	SW	WSW	NW	NNW	N	NNW	NNW	223	SW
Apr 2	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	ENE	345	NNW
Apr 3	E	E	ESE	S	S	SSE	SSE	SSE	SE	SE	SSE	ENE	NW	W	WSW	WSW	SW	WSW	W	NW	E	E	E	ENE	151	SSE
Apr 4	ENE	NNW	NE	E	ENE	NNE	NNW	N	NNE	NNE	NW	NW	WNW	WNW	W	W	WSW	SW	SW	SSW	SW	S	SSE	SSW	273	W
Apr 5	SSW	SSE	SSE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSW	SW	SSW	SSW	SSW	SW	S	SSE	ESE	ESE	SE	SE	172	S
Apr 6	SE	SE	SSE	SE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	SSE	SE	ESE	SE	SE	SE	SE	158	SSE
Apr 7	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	S	SSW	SSW	SSW	SSW	S	S	SW	W	SSW	S	SSE	SSW	171	S
Apr 8	S	S	S	S	SSW	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	WSW	SSW	SW	SW	SE	SW	211	SSW
Apr 9	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	W	SSE	SSE	S	SSE	SSE	SSE	S	ESE	SE	SE	WSW	SW	189	S
Apr 10	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SSW	SSW	SW	SW	238	SW
Apr 11	SW	SW	SW	S	S	SSE	S	SW	SW	NW	WNW	W	W	W	W	WNW	W	W	SW	SW	SW	SW	SW	SW	237	SW
Apr 12	SW	SSW	SW	SW	WSW	WSW	W	NW	NW	WNW	NW	WNW	NW	WNW	WSW	SW	W	NNW	W	SW	SW	SSW	S	SSE	258	WSW
Apr 13	SSE	S	SSW	S	S	S	S	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	SW	SW	WSW	SW	SSW	SSW	SW	SW	218	SW
Apr 14	SW	SE	ESE	SE	SSE	SSE	SE	SW	SW	SSW	SSW	SW	SSW	SW	SSW	SW	SSW	SW	SSW	S	SSE	SE	SE	SSE	196	SSW
Apr 15	SE	SSE	SE	ESE	SE	ESE	ESE	E	E	SE	SSE	SSE	S	S	S	SSW	SSE	SSW	SSW	ESE	E	E	ESE	SE	153	SSE
Apr 16	SE	SE	SE	ESE	E	E	E	ESE	SE	SSE	SE	SE	SE	SE	ESE	ESE	SE	SE	ESE	E	E	E	ESE	E	120	ESE
Apr 17	E	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	SSW	SW	WSW	WSW	W	W	WSW	WSW	S	SSW	S	S	129	SE
Apr 18	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW	WNW	N	ENE	SSE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	96	E
Apr 19	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	ENE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE	61	ENE
Apr 20	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	E	E	E	E	ENE	NE	ENE	E	83	E
Apr 21	E	E	E	ENE	E	E	E	E	E	ENE	ESE	K	SSE	K	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	122	ESE
Apr 22	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	K	K	S	S	SSW	SW	SSW	SSW	S	S	S	SE	SE	ESE	162	SSE
Apr 23	ESE	ESE	E	ENE	E	E	E	E	E	ENE	ENE	ENE	E	K	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	68	ENE
Apr 24	NE	NE	NNE	N	N	N	N	N	NE	ENE	ENE	ENE	ENE	ENE	NE	E	SE	SSE	SW	WSW	ESE	SSW	SW	SSW	52	NE
Apr 25	S	S	S	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	W	263	W
Apr 26	WNW	WSW	SSW	S	SSE	SSE	SE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	S	SW	SW	WSW	W	W	197	SSW
Apr 27	WNW	WNW	W	WNW	W	WNW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	250	WSW
Apr 28	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	WNW	NW	NW	NNW	NNW	N	NNE	E	E	E	E	326	NW
Apr 29	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE	SE	ESE	E	ESE	E	E	E	E	ESE	ESE	112	ESE
Apr 30	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	SE	ESE	SE	ESE	ESE	E	E	ESE	ESE	ESE	111	ESE

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 - April 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	36.0	kph	on Apr 10 at hr 11	Hours in Service:	720
Maximum Daily Value:	25.0	kph	on Apr 10	Hours of Data:	715
Minimum Hourly Value:	0.7	kph	on Apr 5 at hr 9	Hours of Missing Data:	5
Minimum Daily Value:	5.8	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	4.0	kph		Operational Uptime:	99.3

WIND DIRECTION

Monthly Average: 164 degree (SSE)

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			
Apr 1	5.7	3.3	7.8	1.8	11.1	16.8	15.6	12.1	9.4	10.4	8.9	5.5	6.6	9.5	9.5	10.6	10.9	12.5	10.6	13.1	13.2	11.4	9.4	10.1	1.8	16.8	9.8
	SE	ESE	S	SSW	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SW	W	W	SW	WSW	WSW	SW	WSW	NW	NNW	N	NNW	NNW			
Apr 2	13.5	12.0	9.6	10.0	8.9	10.2	14.8	13.6	14.8	14.6	15.0	14.2	14.4	15.6	16.6	14.4	13.1	13.5	11.3	10.7	9.7	11.7	10.0	8.4	8.4	16.6	12.5
	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	ENE			
Apr 3	8.3	10.0	5.1	4.0	5.6	10.8	9.8	11.6	9.3	7.0	1.4	2.7	2.6	5.2	6.1	4.6	4.8	6.2	5.1	2.1	4.5	3.9	4.5	4.8	1.4	11.6	**5.8**
	E	E	ESE	S	S	SSE	SSE	SSE	SE	SE	SSE	ENE	NW	W	WSW	WSW	SW	WSW	W	NW	E	E	E	ENE			
Apr 4	4.7	2.2	5.2	3.2	11.3	3.7	2.5	3.4	4.5	4.7	3.1	5.9	9.1	6.5	10.3	9.6	13.0	14.1	10.1	5.7	1.9	4.9	6.5	5.9	1.9	14.1	6.3
	ENE	NNW	NE	E	ENE	NNE	NNW	N	NNE	NNE	NW	NW	WNW	WNW	W	W	WSW	SW	SW	SSW	SW	S	SSE	SSW			
Apr 5	1.9	3.4	4.0	4.6	5.2	6.4	5.5	6.1	6.5	**0.7**	9.9	16.1	9.4	13.7	15.0	12.7	12.2	10.4	7.5	6.0	6.8	7.7	9.3	12.8	**0.7**	16.1	8.1
	SSW	SSE	SSE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE	SSW	SW	SSW	SSW	SSW	SW	S	SSE	ESE	ESE	SE	SE			
Apr 6	12.6	9.4	14.4	9.9	12.9	8.3	14.0	12.4	10.7	13.0	17.8	18.5	24.8	21.5	24.1	21.2	23.3	24.7	17.5	18.7	20.9	26.8	26.6	27.1	8.3	27.1	18.0
	SE	SE	SSE	SE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	SSE	SE	ESE	SE	SE	SE	SE			
Apr 7	25.2	15.7	13.4	16.9	12.2	9.2	10.1	7.7	8.0	12.2	14.0	13.3	13.2	13.7	15.0	13.4	13.6	8.7	5.3	8.5	3.8	6.3	10.4	10.1	3.8	25.2	11.7
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	S	SSW	SSW	SSW	SSW	S	S	SW	W	SSW	S	SSE	SSW			
Apr 8	10.7	16.8	14.2	9.3	10.2	6.5	6.2	7.9	11.0	15.8	14.4	16.6	15.1	14.1	14.1	17.0	10.2	10.7	8.6	12.3	13.1	8.8	3.0	15.2	3.0	17.0	11.7
	S	S	S	S	SSW	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	WSW	SSW	SW	SW	SE	SW			
Apr 9	14.7	15.9	16.4	16.7	17.1	16.6	14.6	12.3	11.2	8.7	8.2	2.6	11.3	15.3	25.0	22.8	17.8	17.8	15.7	14.2	15.4	18.2	25.1	16.6	2.6	25.1	15.4
	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	W	SSE	SSE	S	SSE	SSE	SSE	S	ESE	SE	SE	WSW	SW			
Apr 10	28.3	30.1	28.9	29.3	30.0	26.5	25.8	23.3	25.9	32.9	31.0	**36.0**	32.7	32.6	34.8	24.7	27.7	23.6	19.6	12.4	9.5	11.7	12.0	11.1	9.5	**36.0**	**25.0**
	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SSW	SSW	SW	SW			
Apr 11	9.5	7.7	7.8	7.0	7.8	8.3	6.2	2.2	2.2	4.5	3.7	6.9	6.3	9.8	9.2	8.2	7.5	6.1	9.8	11.0	9.8	9.9	8.1	5.9	2.2	11.0	7.3
	SW	SW	SW	S	S	SSE	S	SW	SW	NW	WNW	W	W	W	W	WNW	W	W	SW	SW	SW	SW	SW	SW			
Apr 12	6.1	4.5	7.0	5.1	4.8	5.3	4.5	5.0	6.6	8.4	7.8	8.3	8.3	5.6	7.4	11.3	6.9	7.6	3.8	10.8	8.6	5.6	6.3	4.5	3.8	11.3	6.7
	SW	SSW	SW	SW	WSW	WSW	W	NW	NW	WNW	NW	WNW	NW	WNW	WSW	SW	W	NNW	W	SW	SW	SSW	S	SSE			
Apr 13	6.9	6.6	8.4	7.2	10.9	9.8	7.0	11.1	11.6	13.6	16.2	18.3	16.9	14.6	12.4	11.0	14.1	9.9	5.9	4.7	7.3	6.1	10.0	9.8	4.7	18.3	10.4
	SSE	S	SSW	S	S	S	S	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	SW	SW	WSW	SW	SSW	SSW	SW	SW			
Apr 14	4.2	3.4	5.2	3.2	3.9	3.9	4.3	4.1	9.3	7.5	12.2	17.2	13.1	13.1	13.5	10.0	11.3	9.0	11.2	7.1	5.5	4.0	8.9	12.3	3.2	17.2	8.2
	SW	SE	ESE	SE	SSE	SSE	SE	SW	SW	SSW	SSW	SW	SSW	SW	SSW	SW	SSW	SW	SSW	S	SSE	SE	SE	SSE			
Apr 15	9.0	11.1	6.3	3.6	4.2	5.5	7.3	6.6	4.4	13.5	18.6	16.6	16.2	18.5	17.4	14.4	9.9	12.7	10.7	1.7	7.9	12.4	14.0	14.5	1.7	18.6	10.7
	SE	SSE	SE	ESE	SE	ESE	ESE	E	E	SE	SSE	SSE	S	S	S	SSW	SSE	SSW	SSW	ESE	E	E	ESE	SE			
Apr 16	14.6	14.7	12.6	4.5	11.4	10.1	9.1	9.0	8.1	6.7	11.7	11.1	15.8	19.4	25.0	22.4	26.7	25.5	20.8	16.1	14.8	16.6	18.6	19.8	4.5	26.7	15.2
	SE	SE	SE	ESE	E	E	E	ESE	SE	SSE	SE	SE	SE	SE	ESE	ESE	SE	SE	ESE	E	E	E	ESE	E			
Apr 17	18.9	20.7	19.8	21.2	22.1	20.3	21.1	20.3	17.8	15.4	16.7	13.8	18.8	20.2	17.1	12.5	13.4	10.0	5.4	5.2	2.1	4.2	4.3	6.4	2.1	22.1	14.5
	E	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	SSW	SW	WSW	WSW	W	W	WSW	WSW	S	SSW	S	S			
Apr 18	5.7	6.4	6.5	8.5	7.7	7.4	4.9	7.7	6.2	6.6	1.7	5.6	2.6	5.6	6.3	7.7	10.3	15.4	18.3	22.7	23.2	24.7	22.8	19.1	1.7	24.7	10.6
	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW	WNW	N	ENE	SSE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	E			
Apr 19	14.5	15.9	18.6	17.3	21.3	18.2	19.3	18.5	20.6	16.2	17.1	17.7	15.7	14.0	11.0	13.5	16.9	17.0	18.8	16.4	7.3	11.2	8.9	10.3	7.3	21.3	15.7
	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	ENE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE			
Apr 20	6.7	9.0	9.8	8.4	11.3	11.6	13.1	11.4	12.2	12.3	9.4	13.1	18.2	18.5	17.3	19.7	21.5	20.3	16.1	13.0	9.9	10.3	11.2	11.9	6.7	21.5	13.2
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	E	E	E	E	ENE	NE	ENE	E			
Apr 21	11.2	11.4	8.0	10.1	9.7	7.8	6.3	9.4	5.3	2.2	6.9	**K**	11.6	**K**	12.9	10.2	9.5	10.5	15.1	13.4	10.6	11.9	13.5	14.4	2.2	15.1	10.1
	E	E	E	ENE	E	E	E	E	E	ENE	ESE	**K**	SSE	**K**	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE			
Apr 22	13.1	12.4	12.0	13.3	8.9	11.4	7.8	10.9	13.7	13.1	**K**	**K**	9.3	9.2	12.0	10.7	13.0	13.2	11.9	13.0	10.2	13.8	10.6	7.0	7.0	13.8	11.4
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	**K**	**K**	S	S	SSW	SW	SSW	SSW	S	S	S	SE	SE	ESE			
Apr 23	11.1	10.3	10.3	7.7	11.0	12.7	11.5	13.1	11.7	9.8	10.9	13.8	17.5	**K**	20.6	17.9	18.1	16.6	15.7	15.2	14.4	14.8	15.1	13.2	7.7	20.6	13.6
	ESE	ESE	E	ENE	E	E	E	E	E	ENE	ENE	ENE	E	**K**	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE			
Apr 24	9.4	10.1	9.3	8.4	7.1	6.3	8.4	7.6	9.8	11.1	12.3	14.4	7.0	7.6	7.5	7.4	5.9	6.5	9.3	2.3	6.1	5.9	8.3	9.4	2.3	14.4	8.2
	NE	NE	NNE	N	N	N	N	N	NE	ENE	ENE	ENE	ENE	ENE	NE	E	SE	SSE	SW	WSW	ESE	SSW	SW	SSW			
Apr 25	8.3	15.4	15.1	13.3	16.4	15.0	18.8	23.3	22.6	29.1	25.0	22.8	23.6	25.1	25.1	22.4	23.7	23.1	22.2	19.9	16.3	15.7	6.6	7.6	6.6	29.1	19.0
	S	S	S	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	W			
Apr 26	6.6	3.5	7.1	7.0	5.8	4.5	5.6	8.0	8.4	8.6	10.7	10.8	10.5	13.7	15.3	17.2	14.0	11.0	7.8	8.3	6.3	8.2	11.0	12.3	3.5	17.2	9.3
	WNW	WSW	SSW	S	SSE	SSE	SE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	S	SW	SW	WSW	W	W			
Apr 27	13.4	12.2	12.4	9.8	11.4	7.6	4.6	7.0	8.3	12.3	12.1	17.0	19.2	20.6	19.7	20.6	19.7	19.6	21.2	20.6	19.4	16.2	17.8	17.3	4.6	21.2	15.0
	WNW	WNW	W	WNW	W	WNW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W			
Apr 28	14.8	15.8	11.6	7.8	8.1	7.5	8.3	9.3	13.2	19.0	14.5	12.5	12.8	11.1	7.8	6.8	9.1	8.4	10.4	6.8	6.7	8.7	7.5	13.5	6.7	19.0	10.5
	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	WNW	NW	NW	NNW	NNW	N	NNE	E	E	E	E			
Apr 29	12.4	13.1	13.5	16.0	15.3	15.5	15.2	15.2	14.8	14.7	15.3	16.6	18.0	13.8	12.7	18.6	21.4	21.1	24.5	19.5	17.1	18.2	19.5	18.9	12.4	24.5	16.7
	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE	SE	ESE	E	ESE	E	E	E	E	ESE	ESE			
Apr 30	18.0	14.1	12.2	15.5	17.8	18.6	18.4	16.1	15.4	11.0	11.5	13.4	15.7	16.0	12.3	11.1	10.0	8.1	19.7	16.7	14.2	14.2	14.7	15.0	8.1	19.7	14.6
	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	SE	ESE	SE	ESE	ESE	E	E	ESE	ESE	ESE			

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 - April 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

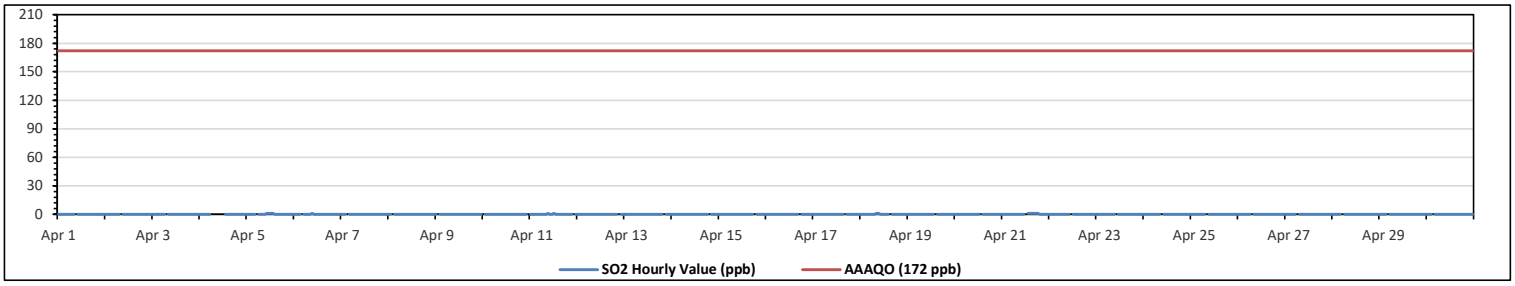
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

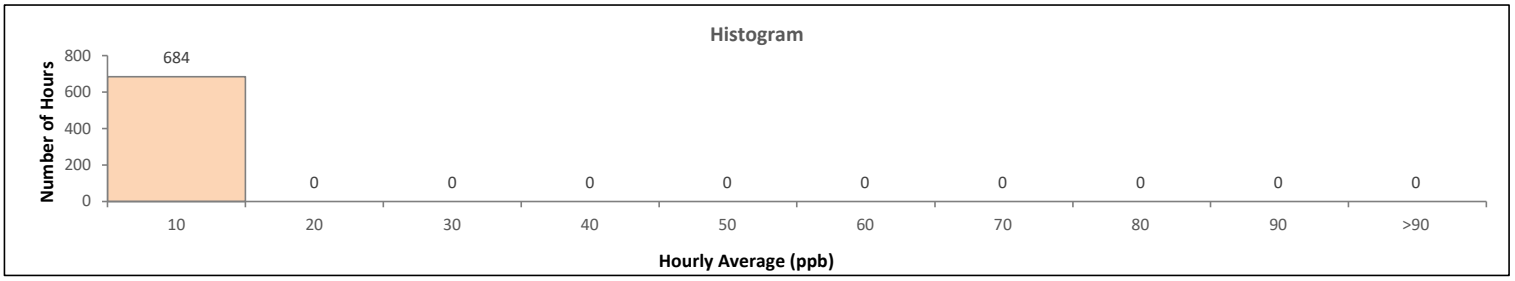
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Apr 5 at hr 10	Hours in Service:	720	
Maximum Daily Value:	0.3	ppb	on Apr 21	Hours of Data:	684	
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Apr 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			
Apr 1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	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
Apr 3	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
Apr 4	0	0	0	0	0	0	S	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 5	0	0	0	0	0	S	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Apr 6	0	0	0	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Apr 7	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
Apr 8	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
Apr 9	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
Apr 10	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
Apr 11	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	S	0	0	1	0.1
Apr 12	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
Apr 13	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
Apr 14	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
Apr 15	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
Apr 16	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
Apr 17	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
Apr 18	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.1
Apr 19	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
Apr 20	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
Apr 21	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	1	1	1	1	0	0	0	0	0	0	1	0.3
Apr 22	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
Apr 23	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
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
Diurnal Maximum	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	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	0.1	0.0	0.0	0.1	0.1	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.



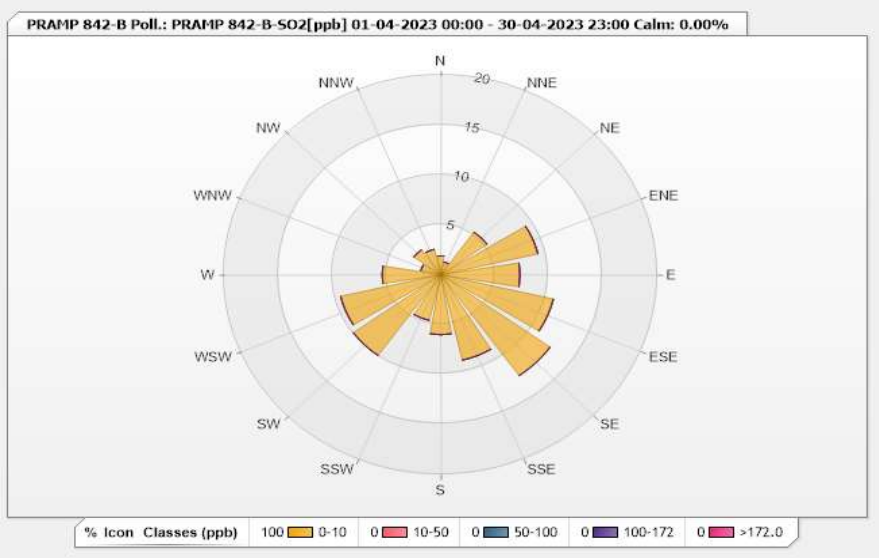


Station: PRAMP 842-B Poll.: PRAMP 842-B-SO2[ppb] Monthly: 04-2023

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	0-10	10-50	50-100	100-172	>172.0	Total
N	1.9	0	0	0	0	1.9
NNE	1.32	0	0	0	0	1.32
NE	5.26	0	0	0	0	5.26
ENE	9.21	0	0	0	0	9.21
E	7.31	0	0	0	0	7.31
ESE	10.67	0	0	0	0	10.67
SE	12.43	0	0	0	0	12.43
SSE	8.77	0	0	0	0	8.77
S	5.99	0	0	0	0	5.99
SSW	4.68	0	0	0	0	4.68
SW	9.94	0	0	0	0	9.94
WSW	9.5	0	0	0	0	9.5
W	5.41	0	0	0	0	5.41
WNW	1.9	0	0	0	0	1.9
NW	3.07	0	0	0	0	3.07
NNW	2.63	0	0	0	0	2.63
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

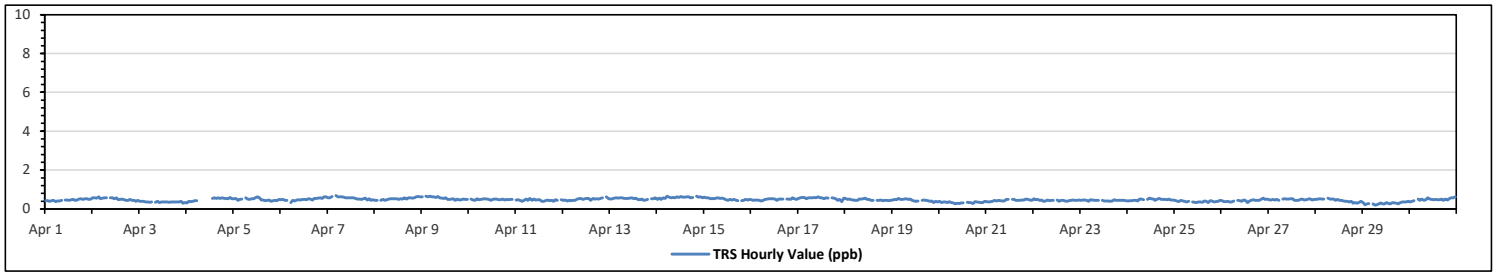
TOTAL REDUCED SULPHUR (TRS) in ppb

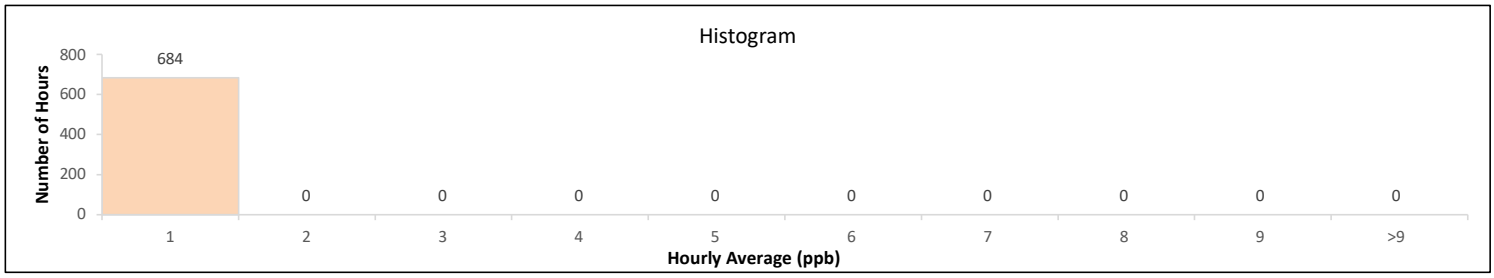
Maximum Hourly Value:	1	ppb	on Apr 7 at hr 4	Hours in Service:	720	
Maximum Daily Value:	0.6	ppb	on Apr 14	Hours of Data:	684	
Minimum Hourly Value:	0	ppb	on Apr 29 at hr 6	Hours of Missing Data:	0	
Minimum Daily Value:	0.3	ppb	on Apr 29	Hours of Calibration:	36	
Monthly Average:	0.5	ppb		Operational 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			
Apr 1	0.42	0.42	0.38	0.42	0.43	0.37	0.41	0.41	0.44	S	0.46	0.46	0.45	0.47	0.48	0.43	0.46	0.51	0.52	0.49	0.53	0.52	0.48	0.51	0.37	0.53	0.46
Apr 2	0.56	0.57	0.55	0.61	0.53	0.55	0.58	0.57	S	0.58	0.57	0.52	0.56	0.47	0.48	0.5	0.47	0.45	0.45	0.48	0.45	0.43	0.39	0.44	0.39	0.61	0.51
Apr 3	0.38	0.4	0.39	0.36	0.35	0.34	0.36	S	0.34	0.38	0.32	0.36	0.35	0.35	0.35	0.34	0.36	0.35	0.35	0.36	0.35	0.4	0.29	0.33	0.29	0.40	0.35
Apr 4	0.3	0.38	0.37	0.38	0.42	0.42	S	0.43	C	C	C	C	C	0.54	0.58	0.54	0.56	0.54	0.57	0.54	0.54	0.53	0.59	0.53	0.30	0.59	0.49
Apr 5	0.52	0.54	0.44	0.49	0.51	S	0.57	0.5	0.49	0.53	0.53	0.56	0.61	0.56	0.46	0.46	0.42	0.44	0.46	0.4	0.42	0.45	0.42	0.48	0.40	0.61	0.49
Apr 6	0.47	0.48	0.43	0.43	S	0.33	0.44	0.41	0.46	0.47	0.46	0.49	0.49	0.47	0.52	0.51	0.46	0.54	0.54	0.55	0.56	0.54	0.61	0.61	0.33	0.61	0.49
Apr 7	0.57	0.58	0.64	S	**0.68**	0.61	0.61	0.61	0.6	0.57	0.58	0.57	0.56	0.56	0.54	0.51	0.5	0.48	0.52	0.55	0.46	0.52	0.45	0.47	0.45	**0.68**	0.55
Apr 8	0.43	0.44	S	0.45	0.49	0.44	0.47	0.5	0.53	0.53	0.52	0.53	0.49	0.52	0.5	0.56	0.51	0.56	0.57	0.55	0.58	0.61	0.64	0.61	0.43	0.64	0.52
Apr 9	0.62	S	0.65	0.63	0.66	0.63	0.63	0.59	0.64	0.57	0.55	0.54	0.56	0.49	0.48	0.51	0.53	0.45	0.5	0.46	0.47	0.5	0.49	0.49	0.45	0.66	0.55
Apr 10	S	0.5	0.46	0.45	0.53	0.47	0.48	0.5	0.53	0.5	0.49	0.45	0.49	0.51	0.5	0.47	0.47	0.51	0.46	0.49	0.47	0.49	0.49	S	0.45	0.53	0.49
Apr 11	0.46	0.47	0.43	0.38	0.45	0.5	0.43	0.54	0.44	0.51	0.46	0.47	0.47	0.39	0.4	0.42	0.46	0.42	0.43	0.38	0.47	0.45	S	0.47	0.38	0.54	0.45
Apr 12	0.45	0.46	0.41	0.44	0.42	0.44	0.44	0.51	0.53	0.54	0.49	0.52	0.54	0.54	0.45	0.54	0.51	0.53	0.5	0.54	0.57	S	0.62	0.54	0.41	0.62	0.50
Apr 13	0.51	0.52	0.55	0.58	0.55	0.56	0.57	0.54	0.54	0.54	0.55	0.56	0.53	0.55	0.48	0.47	0.51	0.43	0.46	0.48	S	0.52	0.53	0.56	0.43	0.58	0.53
Apr 14	0.49	0.55	0.49	0.58	0.54	0.65	0.6	0.57	0.59	0.58	0.62	0.59	0.64	0.6	0.6	0.63	0.61	0.58	0.59	S	0.66	0.6	0.62	0.57	0.49	0.66	**0.59**
Apr 15	0.6	0.56	0.57	0.52	0.54	0.52	0.55	0.56	0.54	0.55	0.53	0.47	0.44	0.49	0.46	0.48	0.46	0.42	S	0.42	0.44	0.49	0.46	0.49	0.42	0.60	0.50
Apr 16	0.47	0.43	0.46	0.46	0.43	0.41	0.44	0.49	0.5	0.52	0.53	0.52	0.51	0.45	0.5	0.5	0.51	S	0.51	0.5	0.49	0.58	0.53	0.49	0.41	0.58	0.49
Apr 17	0.54	0.57	0.59	0.59	0.53	0.56	0.58	0.56	0.59	0.58	0.61	0.57	0.57	0.53	0.57	0.55	S	0.56	0.55	0.52	0.45	0.48	0.37	0.55	0.37	0.61	0.55
Apr 18	0.54	0.49	0.51	0.47	0.46	0.45	0.44	0.51	0.5	0.53	0.55	0.48	0.49	0.45	0.43	S	0.45	0.45	0.46	0.42	0.43	0.44	0.42	0.44	0.42	0.55	0.47
Apr 19	0.46	0.49	0.47	0.54	0.48	0.49	0.51	0.52	0.48	0.51	0.44	0.41	0.4	0.41	S	0.43	0.46	0.44	0.42	0.38	0.41	0.33	0.38	0.36	0.33	0.54	0.44
Apr 20	0.38	0.33	0.35	0.35	0.33	0.37	0.33	0.31	0.27	0.29	0.28	0.3	0.31	S	0.34	0.33	0.32	0.28	0.37	0.35	0.34	0.32	0.32	0.4	0.27	0.40	0.33
Apr 21	0.37	0.36	0.37	0.38	0.43	0.41	0.43	0.42	0.41	0.41	0.48	0.48	S	0.49	0.48	0.45	0.43	0.45	0.46	0.46	0.5	0.48	0.46	0.45	0.36	0.50	0.44
Apr 22	0.52	0.47	0.49	0.43	0.46	0.39	0.41	0.46	0.42	0.44	0.45	S	0.46	0.4	0.43	0.45	0.41	0.39	0.42	0.44	0.46	0.43	0.45	0.46	0.39	0.52	0.44
Apr 23	0.45	0.46	0.46	0.45	0.39	0.47	0.46	0.44	0.44	0.45	S	0.44	0.41	0.41	0.41	0.4	0.41	0.47	0.45	0.44	0.44	0.43	0.43	0.42	0.39	0.47	0.44
Apr 24	0.41	0.42	0.42	0.45	0.43	0.41	0.51	0.51	0.47	S	0.49	0.55	0.52	0.51	0.45	0.5	0.54	0.49	0.48	0.48	0.47	0.5	0.46	0.46	0.41	0.55	0.48
Apr 25	0.43	0.41	0.37	0.43	0.41	0.39	0.36	0.38	S	0.35	0.34	0.33	0.36	0.35	0.34	0.41	0.4	0.32	0.42	0.41	0.36	0.37	0.38	0.45	0.32	0.45	0.38
Apr 26	0.42	0.37	0.37	0.4	0.36	0.36	0.41	S	0.45	0.42	0.4	0.46	0.43	0.33	0.41	0.43	0.47	0.44	0.45	0.45	0.48	0.55	0.49	0.5	0.33	0.55	0.43
Apr 27	0.47	0.46	0.49	0.46	0.49	0.44	S	0.5	0.52	0.5	0.51	0.52	0.53	0.43	0.44	0.44	0.48	0.5	0.46	0.47	0.51	0.53	0.46	0.48	0.43	0.53	0.48
Apr 28	0.49	0.5	0.53	0.51	0.51	S	0.55	0.51	0.5	0.5	0.43	0.48	0.43	0.45	0.41	0.38	0.39	0.36	0.38	0.29	0.32	0.29	0.34	0.38	0.29	0.55	0.43
Apr 29	0.32	0.22	0.26	0.28	S	0.26	0.19	0.22	0.26	0.3	0.26	0.26	0.33	0.28	0.26	0.32	0.3	0.29	0.27	0.32	0.36	0.36	0.35	0.4	0.19	0.40	0.29
Apr 30	0.36	0.38	0.42	S	0.51	0.44	0.5	0.44	0.47	0.56	0.5	0.49	0.47	0.49	0.47	0.47	0.51	0.44	0.5	0.46	0.53	0.57	0.57	0.63	0.36	0.63	0.49
Diurnal Maximum	0.62	0.58	0.65	0.63	0.68	0.65	0.63	0.61	0.64	0.58	0.62	0.59	0.64	0.60	0.60	0.63	0.61	0.58	0.59	0.55	0.66	0.61	0.64	0.63			
Diurnal Average	0.46	0.46	0.46	0.46	0.48	0.45	0.47	0.48	0.48	0.49	0.48	0.48	0.48	0.47	0.46	0.46	0.46	0.45	0.47	0.45	0.47	0.47	0.47	0.48			

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.



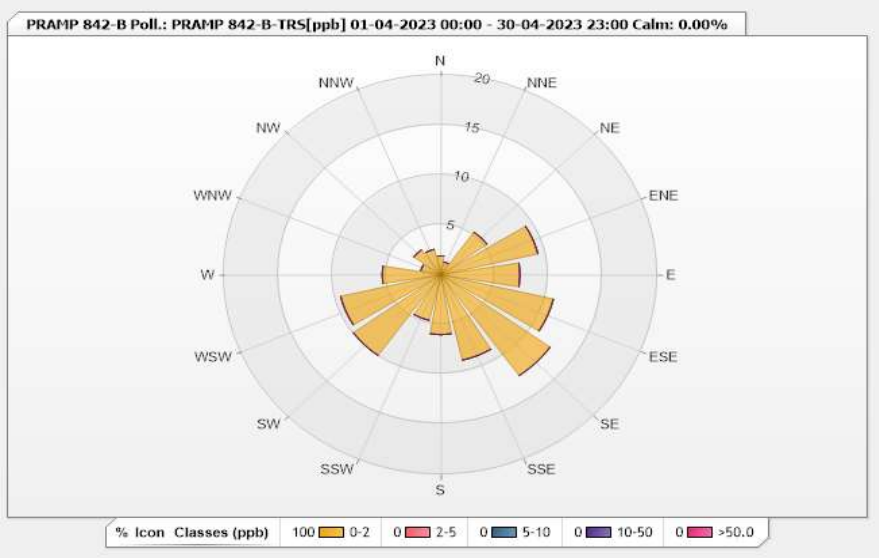


Station: PRAMP 842-B Poll.: PRAMP 842-B-TRS[ppb] Monthly: 04-2023

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	10-50	>50.0	Total
N	1.9	0	0	0	0	1.9
NNE	1.32	0	0	0	0	1.32
NE	5.26	0	0	0	0	5.26
ENE	9.21	0	0	0	0	9.21
E	7.31	0	0	0	0	7.31
ESE	10.67	0	0	0	0	10.67
SE	12.43	0	0	0	0	12.43
SSE	8.77	0	0	0	0	8.77
S	5.99	0	0	0	0	5.99
SSW	4.68	0	0	0	0	4.68
SW	9.94	0	0	0	0	9.94
WSW	9.5	0	0	0	0	9.5
W	5.41	0	0	0	0	5.41
WNW	1.9	0	0	0	0	1.9
NW	3.07	0	0	0	0	3.07
NNW	2.63	0	0	0	0	2.63
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

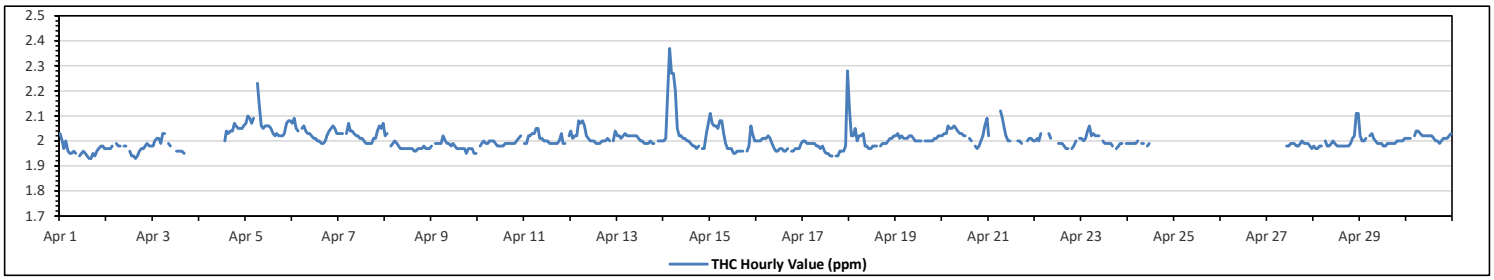
TOTAL HYDROCARBONS (THC) in ppm

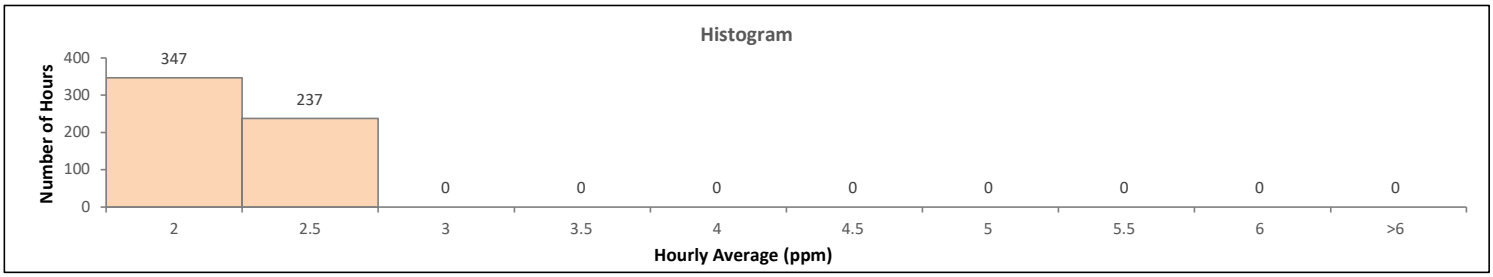
Maximum Hourly Value:	2.37	ppm	on Apr 14 at hr 3	Hours in Service:	720
Maximum Daily Value:	2.07	ppm	on Apr 5	Hours of Data:	584
Minimum Hourly Value:	1.93	ppm	on Apr 1 at hr 15	Hours of Missing Data:	105
Minimum Daily Value:	1.96	ppm	on Apr 1	Hours of Calibration:	31
Monthly Average:	2.01	ppm		Operational Uptime:	85.4

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.03	2.00	1.97	2.00	1.96	1.95	1.95	1.96	1.95	S	1.94	1.95	1.96	1.95	1.94	1.93	1.93	1.95	1.94	1.96	1.97	1.98	1.98	1.97	1.93	2.03	1.96
Apr 2	1.97	1.97	1.97	1.98	X	1.99	1.98	1.98	S	1.98	1.98	X	1.96	1.94	1.94	1.93	1.94	1.96	1.97	1.97	1.98	1.99	1.98	1.98	1.93	1.99	1.97
Apr 3	1.98	2.00	2.01	2.01	1.99	2.03	2.03	S	1.99	1.98	X	X	1.96	1.96	1.96	1.96	1.95	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.95	2.03	NA
Apr 4	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	2.00	2.04	2.03	2.04	2.04	2.07	2.06	2.05	2.05	2.05	2.06	2.00	2.07	NA
Apr 5	2.07	2.10	2.09	2.07	2.09	S	2.23	2.14	2.06	2.05	2.06	2.06	2.06	2.05	2.03	2.02	2.03	2.02	2.02	2.02	2.03	2.07	2.08	2.08	2.02	2.23	**2.07**
Apr 6	2.07	2.09	2.05	2.04	S	2.05	2.06	2.04	2.03	2.03	2.02	2.01	2.01	2.00	2.00	1.99	1.99	2.00	2.02	2.04	2.05	2.06	2.05	2.03	1.99	2.09	2.03
Apr 7	2.03	2.03	2.03	S	2.03	2.07	2.04	2.04	2.03	2.02	2.02	2.01	2.01	2.00	1.99	1.99	1.99	1.99	2.01	2.01	2.04	2.06	2.05	2.07	1.99	2.07	2.02
Apr 8	2.02	2.03	S	1.98	1.99	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.98	1.97	1.97	1.97	1.96	2.03	1.98
Apr 9	1.98	S	1.99	1.99	1.99	1.99	2.02	2.00	1.99	1.99	1.98	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.95	1.97	1.97	1.97	1.95	1.95	1.95	2.02	1.98
Apr 10	S	1.98	1.99	2.00	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.01	2.02	S	1.98	2.02	1.99
Apr 11	1.99	1.99	2.02	2.02	2.03	2.03	2.05	2.05	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.03	1.99	1.99	S	2.02	1.99	2.05	2.01
Apr 12	2.04	2.01	2.02	2.02	2.08	2.07	2.08	2.06	2.02	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.00	2.00	2.01	2.00	S	2.00	2.04	1.99	2.08	2.02
Apr 13	2.02	2.02	2.01	2.02	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.99	2.00	1.99	1.99	S	2.00	2.00	2.00	1.99	2.03	2.01
Apr 14	2.00	2.01	2.19	**2.37**	2.27	2.27	2.20	2.05	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.98	1.98	1.97	1.98	S	1.97	1.97	2.03	2.07	1.97	**2.37**	2.06
Apr 15	2.11	2.07	2.06	2.06	2.05	2.08	2.08	2.03	1.99	1.97	1.97	1.97	1.95	1.95	1.96	1.96	1.96	1.96	S	1.96	1.98	2.06	2.03	2.00	1.95	2.11	2.01
Apr 16	2.00	2.00	2.00	2.01	2.01	2.01	2.02	2.01	1.99	1.97	1.96	1.96	1.97	1.97	1.96	1.96	1.97	S	1.96	1.96	1.97	1.97	1.97	1.99	1.96	2.02	1.98
Apr 17	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.97	1.98	1.96	1.95	1.95	1.94	1.94	S	1.94	1.94	1.96	1.96	1.96	1.98	2.28	1.94	2.28	1.98
Apr 18	2.13	2.02	2.02	2.05	2.00	2.02	2.02	2.03	1.98	1.98	1.97	1.97	1.98	1.98	1.98	S	1.98	1.99	1.99	1.99	2.00	2.01	2.01	2.02	1.97	2.13	2.01
Apr 19	2.02	2.03	2.01	2.02	2.01	2.01	2.01	2.02	2.02	2.01	2.00	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.00	2.03	2.01
Apr 20	2.02	2.03	2.03	2.06	2.05	2.05	2.06	2.05	2.04	2.03	2.03	2.02	2.02	S	2.01	2.00	X	1.98	1.97	1.98	2.00	2.02	2.06	2.09	1.97	2.09	2.03
Apr 21	2.02	X	2.02	X	2.07	X	2.12	2.09	2.05	2.02	2.00	2.00	S	1.99	X	2.00	2.00	1.99	X	X	2.00	2.01	2.01	2.00	1.99	2.12	NA
Apr 22	2.00	2.01	2.00	2.03	X	2.02	X	2.03	2.01	X	2.01	S	1.99	1.99	1.99	1.98	1.97	1.97	X	1.97	1.98	2.00	X	2.01	1.97	2.03	2.00
Apr 23	2.01	2.00	2.01	2.04	2.06	2.02	2.03	2.02	2.02	2.02	S	2.00	1.99	1.99	1.99	1.99	1.98	X	1.97	1.98	1.99	1.99	X	1.99	1.97	2.06	2.00
Apr 24	1.99	1.99	1.99	1.99	1.99	2.00	X	1.99	1.99	S	1.98	1.99	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.98	2.00	NA
Apr 25	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-
Apr 26	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-
Apr 27	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.98	1.98	1.99	1.99	1.99	1.98	1.98	1.99	2.00	1.99	1.99	1.99	1.98	1.97	1.97	2.00	NA
Apr 28	1.98	1.97	1.97	1.98	1.98	S	2.00	1.98	1.98	1.99	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.01	2.02	2.11	2.11	1.97	2.11	2.00
Apr 29	2.02	2.00	2.00	2.01	S	2.02	2.03	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.01	1.98	2.03	2.00
Apr 30	2.01	2.01	2.01	S	2.02	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.00	2.00	1.99	2.00	2.01	2.01	2.01	2.02	2.03	1.99	2.04	2.02
Diurnal Maximum	2.13	2.10	2.19	2.37	2.27	2.27	2.23	2.14	2.06	2.05	2.06	2.06	2.06	2.05	2.04	2.03	2.04	2.04	2.07	2.06	2.05	2.07	2.11	2.28			
Diurnal Average	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.02	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.01	2.02	2.03			

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.



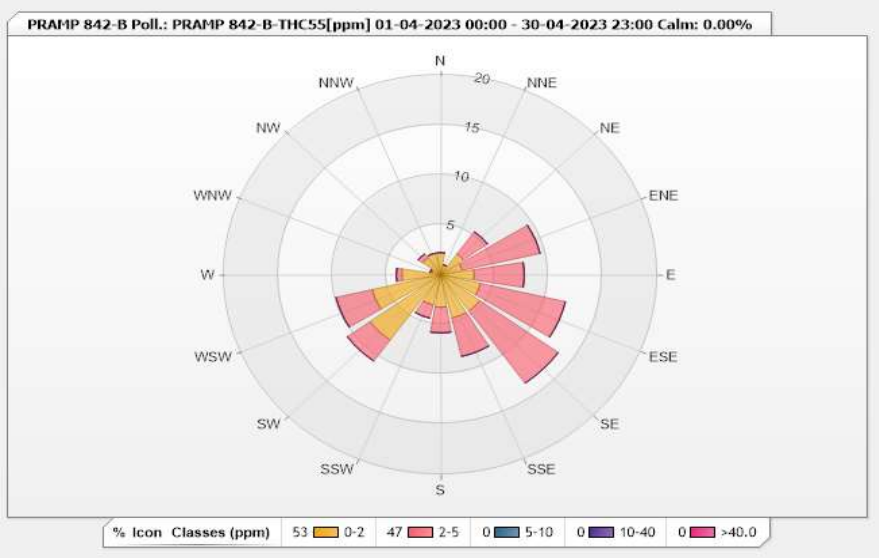


Station: PRAMP 842-B Poll.: PRAMP 842-B-THC55[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 81.11% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.23	0	0	0	0	2.23
NNE	1.03	0	0	0	0	1.03
NE	2.57	2.74	0	0	0	5.31
ENE	2.05	7.36	0	0	0	9.41
E	3.08	4.62	0	0	0	7.7
ESE	3.77	8.05	0	0	0	11.82
SE	4.45	8.9	0	0	0	13.35
SSE	4.45	3.94	0	0	0	8.39
S	3.25	2.57	0	0	0	5.82
SSW	3.08	1.37	0	0	0	4.45
SW	8.05	2.57	0	0	0	10.62
WSW	6.51	3.42	0	0	0	9.93
W	3.6	0.51	0	0	0	4.11
WNW	0.86	0.17	0	0	0	1.03
NW	2.05	0.51	0	0	0	2.56
NNW	2.23	0	0	0	0	2.23
Summary	53.26	46.73	0	0	0	100



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

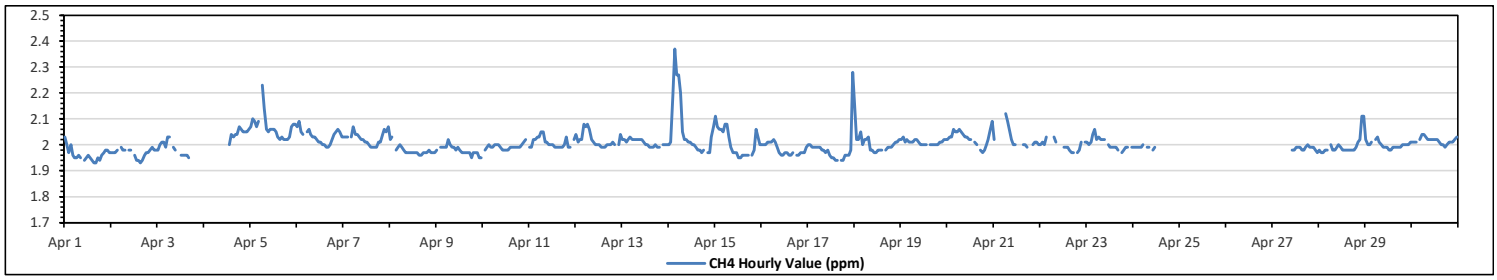
METHANE (CH4) in ppm

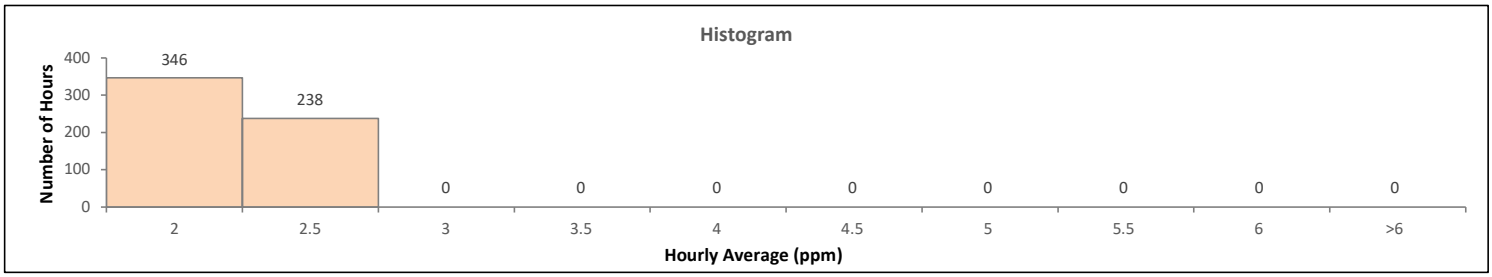
Maximum Hourly Value:	2.37	ppm	on Apr 14 at hr 3	Hours in Service:	720
Maximum Daily Value:	2.07	ppm	on Apr 5	Hours of Data:	584
Minimum Hourly Value:	1.93	ppm	on Apr 1 at hr 15	Hours of Missing Data:	105
Minimum Daily Value:	1.96	ppm	on Apr 1	Hours of Calibration:	31
Monthly Average:	2.01	ppm		Operational Uptime:	85.4

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.03	2.00	1.97	2.00	1.96	1.95	1.95	1.96	1.95	S	1.94	1.95	1.96	1.95	1.94	1.93	1.93	1.95	1.94	1.96	1.97	1.98	1.98	1.97	1.93	2.03	1.96
Apr 2	1.97	1.97	1.97	1.98	X	1.99	1.98	1.98	S	1.98	1.98	X	1.96	1.94	1.94	1.93	1.94	1.96	1.97	1.97	1.98	1.99	1.98	1.98	1.93	1.99	1.97
Apr 3	1.98	2.00	2.01	2.01	1.99	2.03	2.03	S	1.99	1.98	X	X	1.96	1.96	1.96	1.96	1.95	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.95	2.03	NA
Apr 4	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	2.00	2.04	2.03	2.04	2.04	2.07	2.06	2.05	2.05	2.05	2.06	2.00	2.07	NA
Apr 5	2.07	2.10	2.09	2.07	2.09	S	2.23	2.14	2.06	2.05	2.06	2.06	2.06	2.05	2.03	2.02	2.03	2.02	2.02	2.02	2.03	2.07	2.08	2.08	2.02	2.23	**2.07**
Apr 6	2.07	2.09	2.05	2.04	S	2.05	2.06	2.04	2.03	2.03	2.02	2.01	2.01	2.00	2.00	1.99	1.99	2.00	2.02	2.04	2.05	2.06	2.05	2.03	1.99	2.09	2.03
Apr 7	2.03	2.03	2.03	S	2.03	2.07	2.04	2.04	2.03	2.02	2.02	2.01	2.01	2.00	1.99	1.99	1.99	1.99	2.01	2.01	2.04	2.06	2.05	2.07	1.99	2.07	2.02
Apr 8	2.02	2.03	S	1.98	1.99	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.98	1.97	1.97	1.97	1.96	2.03	1.98
Apr 9	1.98	S	1.99	1.99	1.99	1.99	2.02	2.00	1.99	1.99	1.98	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.95	1.97	1.97	1.97	1.95	1.95	1.95	2.02	1.98
Apr 10	S	1.98	1.99	2.00	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.01	2.02	S	1.98	2.02	1.99
Apr 11	1.99	1.99	2.02	2.02	2.03	2.03	2.05	2.05	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.03	1.99	1.99	S	2.02	1.99	2.05	2.01
Apr 12	2.04	2.01	2.02	2.02	2.08	2.07	2.08	2.06	2.02	2.01	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.00	2.00	2.01	2.00	S	2.00	2.04	1.99	2.08	2.02
Apr 13	2.02	2.02	2.01	2.02	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.99	2.00	1.99	1.99	S	2.00	2.00	2.00	1.99	2.03	2.01
Apr 14	2.00	2.01	2.19	**2.37**	2.27	2.27	2.20	2.05	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.98	1.98	1.97	1.98	S	1.97	1.97	2.03	2.07	1.97	**2.37**	2.06
Apr 15	2.11	2.07	2.06	2.06	2.05	2.08	2.08	2.03	1.99	1.97	1.97	1.97	1.95	1.95	1.96	1.96	1.96	1.96	S	1.96	1.98	2.06	2.03	2.00	1.95	2.11	2.01
Apr 16	2.00	2.00	2.00	2.01	2.01	2.01	2.02	2.01	1.99	1.97	1.96	1.96	1.97	1.97	1.96	1.96	1.97	S	1.96	1.96	1.97	1.97	1.97	1.99	1.96	2.02	1.98
Apr 17	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.97	1.98	1.96	1.95	1.95	1.94	1.94	S	1.94	1.94	1.96	1.96	1.96	1.98	2.28	1.94	2.28	1.98
Apr 18	2.13	2.02	2.02	2.05	2.00	2.02	2.02	2.03	1.98	1.98	1.97	1.97	1.98	1.98	1.98	S	1.98	1.99	1.99	1.99	2.00	2.01	2.01	2.02	1.97	2.13	2.01
Apr 19	2.02	2.03	2.01	2.02	2.01	2.01	2.01	2.02	2.02	2.01	2.00	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.00	2.03	2.01
Apr 20	2.02	2.03	2.03	2.06	2.05	2.05	2.06	2.05	2.04	2.03	2.03	2.02	2.02	S	2.01	2.00	X	1.98	1.97	1.98	2.00	2.02	2.06	2.09	1.97	2.09	2.03
Apr 21	2.02	X	2.02	X	2.07	X	2.12	2.09	2.05	2.02	2.00	2.00	S	1.99	X	2.00	2.00	1.99	X	X	2.00	2.01	2.01	2.00	1.99	2.12	NA
Apr 22	2.00	2.01	2.00	2.03	X	2.02	X	2.03	2.01	X	2.01	S	1.99	1.99	1.99	1.98	1.97	1.97	X	1.97	1.98	2.01	X	2.01	1.97	2.03	2.00
Apr 23	2.01	2.00	2.01	2.04	2.06	2.02	2.03	2.02	2.02	2.02	S	2.00	1.99	1.99	1.99	1.99	1.98	X	1.97	1.98	1.99	1.99	X	1.99	1.97	2.06	2.00
Apr 24	1.99	1.99	1.99	1.99	1.99	2.00	X	1.99	1.99	S	1.98	1.99	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.98	2.00	NA
Apr 25	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-
Apr 26	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-
Apr 27	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.98	1.98	1.99	1.99	1.99	1.98	1.98	1.99	2.00	1.99	1.99	1.99	1.98	1.97	1.97	2.00	NA
Apr 28	1.98	1.97	1.97	1.98	1.98	S	2.00	1.98	1.98	1.99	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.01	2.02	2.11	2.11	1.97	2.11	2.00
Apr 29	2.02	2.00	2.00	2.01	S	2.02	2.03	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.01	1.98	2.03	2.00
Apr 30	2.01	2.01	2.01	S	2.02	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.00	2.00	1.99	2.00	2.01	2.01	2.01	2.02	2.03	1.99	2.04	2.02
Diurnal Maximum	2.13	2.10	2.19	2.37	2.27	2.27	2.23	2.14	2.06	2.05	2.06	2.06	2.06	2.05	2.04	2.03	2.04	2.04	2.07	2.06	2.05	2.07	2.11	2.28			
Diurnal Average	2.02	2.02	2.02	2.03	2.03	2.03	2.04	2.02	2.01	2.00	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	2.00	2.01	2.02	2.03			

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.



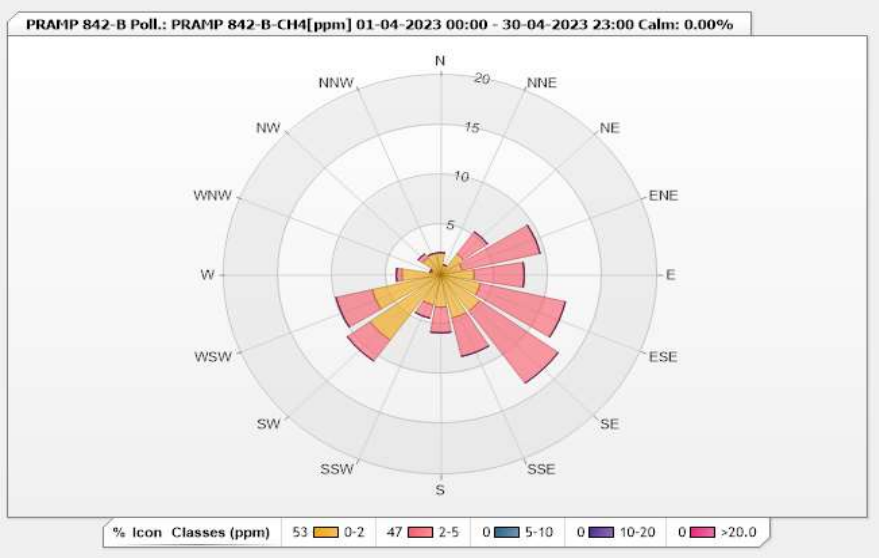


Station: PRAMP 842-B Poll.: PRAMP 842-B-CH4[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 81.11% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.23	0	0	0	0	2.23
NNE	1.03	0	0	0	0	1.03
NE	2.57	2.74	0	0	0	5.31
ENE	2.05	7.36	0	0	0	9.41
E	3.08	4.62	0	0	0	7.7
ESE	3.77	8.05	0	0	0	11.82
SE	4.45	8.9	0	0	0	13.35
SSE	4.45	3.94	0	0	0	8.39
S	3.25	2.57	0	0	0	5.82
SSW	3.08	1.37	0	0	0	4.45
SW	8.05	2.57	0	0	0	10.62
WSW	6.51	3.42	0	0	0	9.93
W	3.6	0.51	0	0	0	4.11
WNW	0.86	0.17	0	0	0	1.03
NW	2.05	0.51	0	0	0	2.56
NNW	2.23	0	0	0	0	2.23
Summary	53.26	46.73	0	0	0	100



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

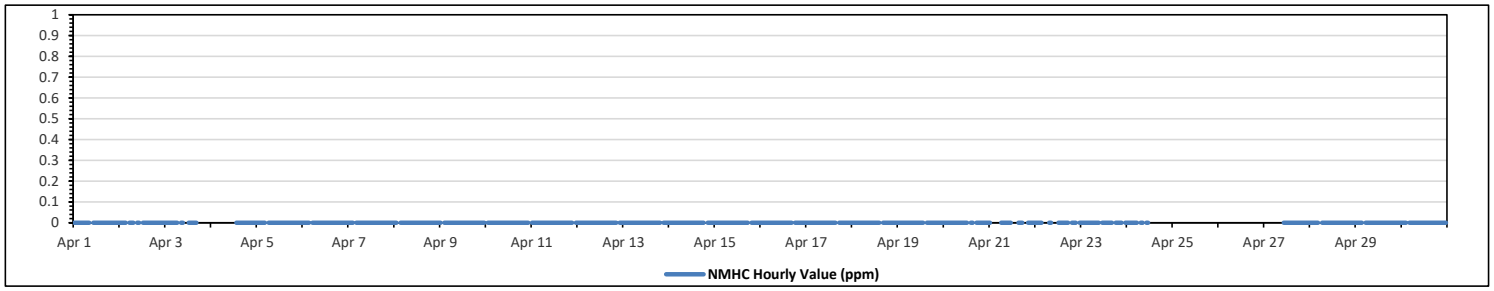
NON-METHANE HYDROCARBONS (NMHC) in ppm

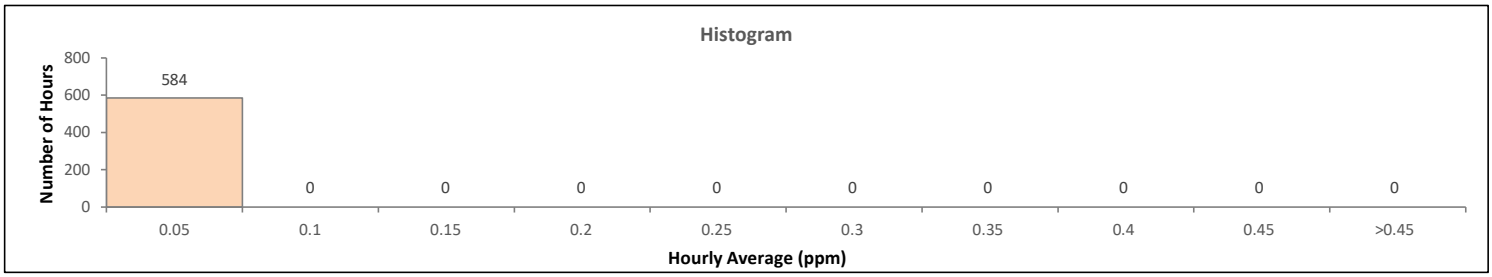
Maximum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on Apr 1	Hours of Data:	584
Minimum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours of Missing Data:	105
Minimum Daily Value:	0.00	ppm	on Apr 1	Hours of Calibration:	31
Monthly Average:	0.00	ppm		Operational Uptime:	85.4

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



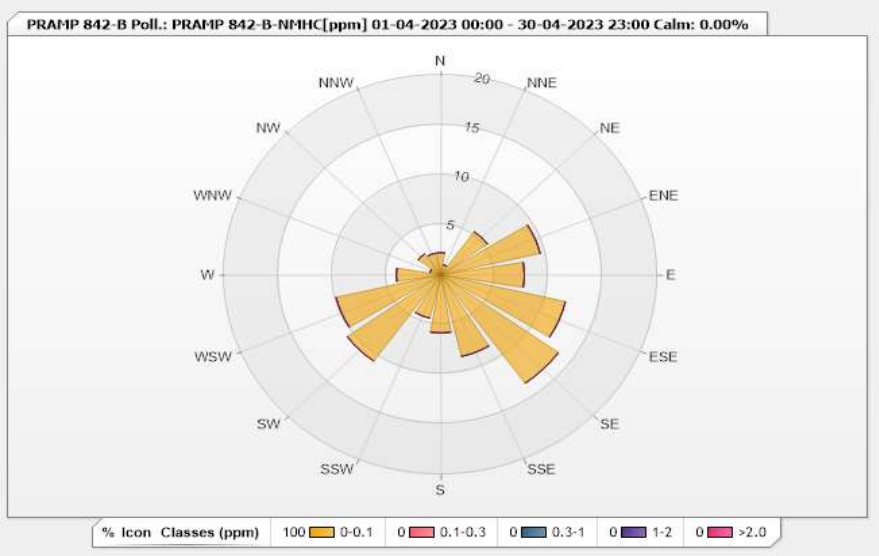


Station: PRAMP 842-B Poll.: PRAMP 842-B-NMHC[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 81.11% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	2.23	0	0	0	0	2.23
NNE	1.03	0	0	0	0	1.03
NE	5.31	0	0	0	0	5.31
ENE	9.42	0	0	0	0	9.42
E	7.71	0	0	0	0	7.71
ESE	11.82	0	0	0	0	11.82
SE	13.36	0	0	0	0	13.36
SSE	8.39	0	0	0	0	8.39
S	5.82	0	0	0	0	5.82
SSW	4.45	0	0	0	0	4.45
SW	10.62	0	0	0	0	10.62
WSW	9.93	0	0	0	0	9.93
W	4.11	0	0	0	0	4.11
WNW	1.03	0	0	0	0	1.03
NW	2.57	0	0	0	0	2.57
NNW	2.23	0	0	0	0	2.23
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

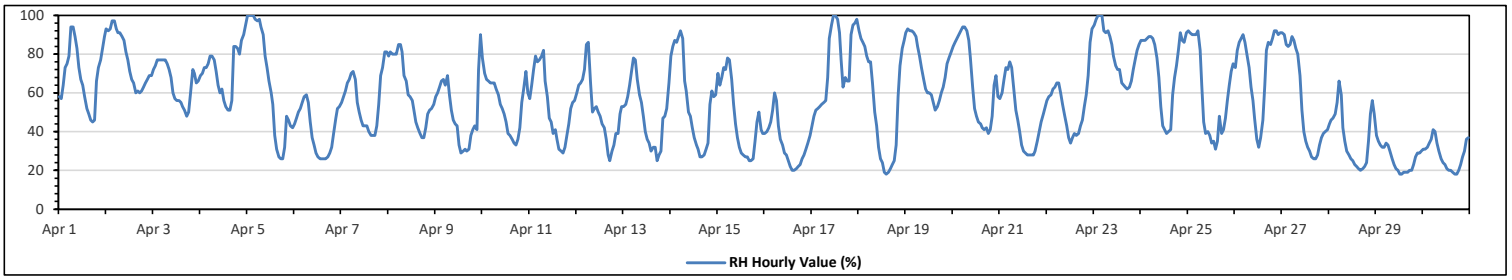
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Apr 5 at hr 0	Hours in Service:	720	
Maximum Daily Value:	80.8	%	on Apr 23	Hours of Data:	720	
Minimum Hourly Value:	18	%	on Apr 18 at hr 14	Hours of Missing Data:	0	
Minimum Daily Value:	26.2	%	on Apr 29	Hours of Calibration:	0	
Monthly Average:	56.7	%		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			
Apr 1	58	57	64	73	75	79	94	94	89	83	73	67	64	58	52	49	46	45	46	66	73	77	83	89	45	94	68.9
Apr 2	93	92	93	97	97	93	91	91	89	87	81	77	71	67	65	60	61	60	61	63	65	67	69	69	60	97	77.5
Apr 3	72	74	77	77	77	77	77	75	72	68	60	57	56	56	55	53	51	48	50	60	72	70	65	66	48	77	65.2
Apr 4	69	70	73	73	75	79	79	77	71	64	60	62	56	53	51	51	56	84	84	83	80	87	90	95	51	95	71.8
Apr 5	**100**	**100**	**100**	**100**	98	97	98	94	90	79	73	66	60	54	38	31	27	26	26	32	48	46	43	42	26	**100**	65.3
Apr 6	44	47	50	52	55	58	59	55	45	37	33	29	27	26	26	26	26	27	29	32	39	47	52	53	26	59	40.6
Apr 7	55	58	61	65	67	70	71	67	55	50	46	43	43	43	40	38	38	38	43	54	69	73	81	81	38	81	56.2
Apr 8	79	81	80	80	80	85	85	81	69	66	59	58	56	51	45	42	39	37	37	42	49	51	52	54	37	85	60.8
Apr 9	58	60	63	66	67	64	69	59	51	46	44	43	33	29	30	31	30	31	38	41	43	41	72	90	29	90	50.0
Apr 10	78	70	67	66	65	65	65	62	59	54	52	49	45	39	38	36	34	33	36	42	55	62	71	60	33	78	54.3
Apr 11	57	64	72	79	76	77	79	82	66	58	47	45	39	41	36	31	30	29	32	38	44	52	55	56	29	82	53.5
Apr 12	60	64	65	67	72	85	86	65	50	52	53	50	48	44	42	36	28	25	30	33	39	39	49	53	25	86	51.5
Apr 13	53	54	58	64	71	78	77	67	59	55	48	40	36	34	30	32	32	25	28	30	47	48	52	65	25	78	49.3
Apr 14	79	84	87	86	89	92	88	66	61	50	48	42	37	33	31	27	27	28	31	34	54	61	58	59	27	92	56.3
Apr 15	70	64	68	73	72	78	77	67	54	44	37	32	29	28	27	27	25	25	26	35	45	50	41	39	25	78	47.2
Apr 16	39	40	42	45	51	60	56	43	36	33	29	28	25	22	20	20	21	22	23	26	28	31	34	38	20	60	33.8
Apr 17	43	48	51	52	53	54	55	56	68	88	95	**100**	**100**	98	91	77	63	68	66	66	90	95	96	98	43	**100**	73.8
Apr 18	92	88	86	84	79	76	76	65	50	43	32	26	24	19	**18**	19	21	23	25	33	58	74	83	87	**18**	92	53.4
Apr 19	91	93	92	92	91	89	84	79	73	67	62	60	60	59	55	51	53	56	60	63	68	75	78	81	51	93	72.2
Apr 20	84	86	88	90	92	94	94	92	87	78	63	52	48	45	44	42	41	42	39	41	48	64	69	58	39	94	65.9
Apr 21	57	60	67	73	72	76	73	63	51	46	40	33	30	29	28	28	28	28	30	35	40	45	49	53	28	76	47.3
Apr 22	56	58	59	62	63	65	65	60	54	48	43	37	34	37	39	38	39	43	46	53	59	69	86	93	34	93	54.4
Apr 23	95	98	**100**	**100**	**100**	92	91	92	89	85	79	74	72	72	65	64	63	62	63	66	72	78	82	85	62	**100**	**80.8**
Apr 24	87	87	87	88	89	89	88	85	78	68	53	43	41	39	40	41	59	68	74	82	91	87	86	91	39	91	72.5
Apr 25	92	91	90	90	90	92	82	64	45	39	40	38	34	35	31	35	48	39	41	47	56	64	71	75	31	92	59.5
Apr 26	73	82	86	88	90	86	80	73	63	56	47	36	32	37	46	64	82	86	85	88	92	92	90	91	32	92	72.7
Apr 27	91	90	85	84	85	89	87	83	80	69	51	40	35	32	30	27	26	26	28	33	37	39	40	41	26	91	55.3
Apr 28	44	46	47	49	55	66	59	42	35	30	28	26	25	23	22	21	20	21	22	24	35	49	56	49	20	66	37.3
Apr 29	38	35	33	32	32	34	33	30	26	23	21	20	**18**	**18**	19	19	19	20	20	23	27	29	29	30	**18**	38	**26.2**
Apr 30	31	31	32	34	36	41	40	34	30	26	24	23	21	20	20	19	**18**	**18**	20	23	27	30	36	37	**18**	41	28.0
Diurnal Maximum	100	100	100	100	100	97	98	94	90	88	95	100	100	98	91	77	82	86	85	88	92	95	96	98			
Diurnal Average	67.9	69.1	70.8	72.7	73.8	76.0	75.3	68.8	61.5	56.4	50.7	46.5	43.3	41.4	39.1	37.8	38.4	39.4	41.3	46.3	55.0	59.7	63.9	65.9			

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 - April 2023

Summary of Hourly Averages

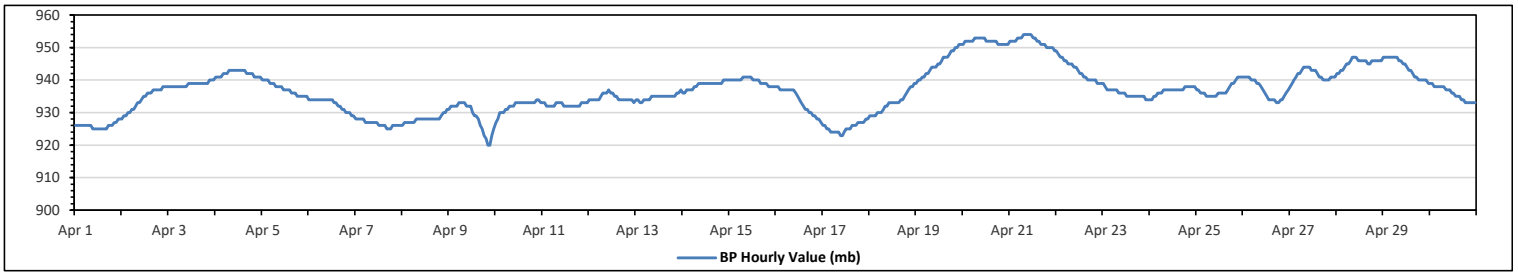
BAROMETRIC PRESSURE (BP) in millibar

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

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 - April 2023

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

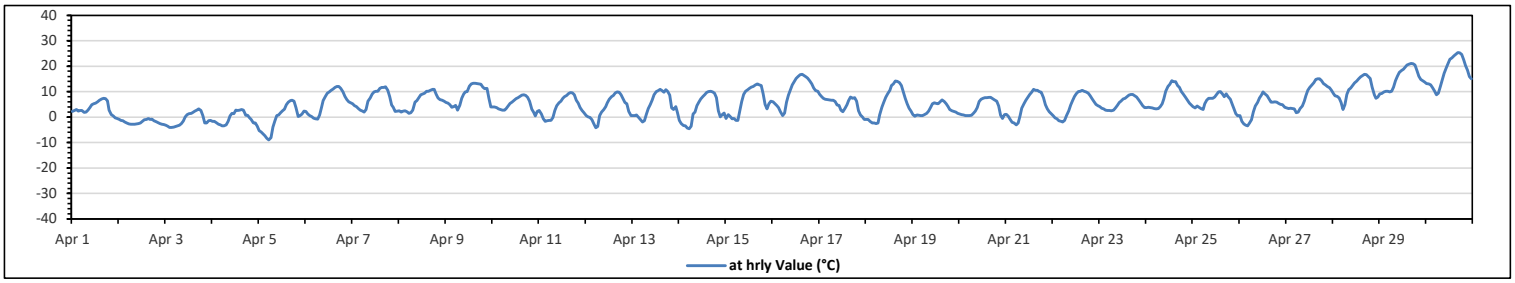
Maximum Hourly Value:	25.4	°C	on Apr 30 at hr 16	Hours in Service:	720	
Maximum Daily Value:	17.7	°C	on Apr 30	Hours of Data:	720	
Minimum Hourly Value:	-9.0	°C	on Apr 5 at hr 5	Hours of Missing Data:	0	
Minimum Daily Value:	-1.9	°C	on Apr 2	Hours of Calibration:	0	
Monthly Average:	5.6	°C		Operational 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
Apr 1	2.2	2.6	2.9	2.4	2.6	2.6	1.8	2	2.8	3.7	4.9	5.2	5.5	6	6.6	7.1	7.3	7.2	6.4	2.8	1	0.4	-0.3	-0.6	-0.6	7.3	3.5
Apr 2	-1	-1.2	-1.4	-2	-2.4	-2.6	-2.8	-2.8	-2.8	-2.7	-2.5	-2.4	-1.6	-1.1	-0.9	-0.6	-0.9	-0.8	-1.4	-1.8	-2.2	-2.5	-2.8	-2.9	-2.9	-0.6	**-1.9**
Apr 3	-3.2	-3.6	-4.1	-4	-3.9	-3.7	-3.5	-3.2	-2.5	-1.5	0.1	1	1.4	1.5	1.8	2.4	2.8	3.2	2.6	0.6	-2.3	-2.3	-1.4	-1.3	-4.1	3.2	-1.0
Apr 4	-1.6	-1.7	-2.2	-2.8	-3	-3.5	-3.4	-3	-1.6	0.4	1.5	1.4	2.7	2.6	2.7	2.9	2.7	0.7	0.7	-0.3	-1	-2.3	-2.3	-3.6	-3.6	2.9	-0.6
Apr 5	-5.3	-5.8	-6.6	-7.3	-8.3	**-9**	-8.1	-3.9	-1.5	0.5	0.8	1.7	2.5	3.1	4.9	5.9	6.5	6.7	6.2	3.7	0.2	0.5	1.2	2.3	**-9.0**	6.7	-0.4
Apr 6	2.2	1.3	0.6	0.2	-0.4	-0.7	-0.8	0.8	3.9	6.5	8.2	9.4	9.9	10.5	11	11.7	12	12	11.3	9.8	8.2	6.9	6	5.6	-0.8	12.0	6.1
Apr 7	5.2	4.5	4.1	3.3	2.8	2.3	1.9	2.9	6.2	7.5	9	9.9	10.2	10.1	11.2	11.6	11.7	11.9	10.6	8.1	4.7	3.9	2.2	2.3	1.9	11.9	6.6
Apr 8	2.5	1.9	2.3	2.5	2.1	1.5	1.7	2.8	5.8	6.5	7.6	8.7	9	9.4	10.1	10.1	10.6	10.9	10.9	9	7.5	6.9	6.6	6.3	1.5	10.9	6.4
Apr 9	5.7	5.5	4.8	3.9	4.1	4.6	2.7	4.6	7.3	9	9.8	10	12.2	13.1	13.3	13.3	13.2	13	12.9	11.8	11.1	11.2	7.3	4	2.7	13.3	8.7
Apr 10	4	4	3.7	3.2	3	2.8	2.7	3.3	4.3	5.4	5.9	6.6	7.2	7.7	8.2	8.6	8.7	8.5	7.8	6.2	3.1	1.8	0.4	2.2	0.4	8.7	5.0
Apr 11	2.6	1.2	-0.7	-1.6	-1.4	-1.3	-1.3	-0.2	2.6	4.4	5.6	6.2	7.3	8.1	8.5	9.3	9.6	9.5	8.8	6.6	5.5	3.8	2.6	1.7	-1.6	9.6	4.1
Apr 12	0.5	0.1	-0.2	-1.1	-2.7	-4.2	-3.7	0.5	1.9	3	4.2	5.6	7	8	8.5	9.5	9.9	9.7	8.7	7.2	5.7	5.3	2.2	0.6	-4.2	9.9	3.6
Apr 13	0.6	0.6	0.9	-0.2	-1.1	-2	-1.4	1.1	3.3	4.8	6.6	8.7	10	10.4	10.9	10.4	9.7	10.8	10	8.6	3.6	3	4.1	1.8	-2.0	10.9	4.8
Apr 14	-1.3	-2.5	-3.3	-3.5	-4.3	-4.6	-3.6	1.2	2	4.5	5.9	7.1	8.2	8.9	9.6	10	10.2	9.9	9.4	7.7	2.5	0.1	1	1.6	-4.6	10.2	3.2
Apr 15	-0.6	1	0.2	-0.7	-0.5	-1.3	-1.2	2.5	6.1	8.9	10.2	10.8	11.2	11.8	12.1	12.6	13.1	12.6	12.4	9.2	5	3.2	5.2	6.2	-1.3	13.1	6.3
Apr 16	6	5.3	4.5	3.7	2.1	0.5	1.6	5.9	8.6	10.7	12.7	13.9	15.1	16	16.7	16.8	16.3	15.8	15.3	14.1	13.1	11.4	10.4	10.1	0.5	16.8	10.3
Apr 17	9	8.2	7.4	7	6.9	6.8	6.6	6.6	6.1	4.7	4.6	2.8	2.1	3.5	4.9	6.5	7.9	7.3	7.6	6.2	2.5	0.8	0.1	-1	-1.0	9.0	5.2
Apr 18	-0.9	-0.9	-1.7	-2.3	-2.4	-2.5	-2.4	0.8	3.9	5.8	7.8	9.1	10.5	12.4	13	14.1	14	13.6	12.4	9.8	7.3	5.3	3.5	2.3	-2.5	14.1	5.5
Apr 19	1	0.3	0.8	0.7	0.6	0.6	1	1.5	2.4	3.7	5.3	5.6	5.4	5.3	6	6.8	6.1	5.2	4.1	3	2.5	2.2	1.9	1.5	0.3	6.8	3.1
Apr 20	1.3	1	0.9	0.6	0.5	0.5	0.7	1.5	2.4	3.8	6.1	7	7.4	7.7	7.7	7.8	7.8	7.2	6.8	6.2	4.3	0.7	-0.6	1	-0.6	7.8	3.8
Apr 21	1.1	0.3	-1	-2.1	-2.4	-3	-2.3	0.5	3.5	5.2	6.6	7.8	8.9	9.7	10.9	10.6	10.6	10	9.7	7.7	4.9	3.2	2.1	1.4	-3.0	10.9	4.3
Apr 22	0.5	-0.3	-0.7	-1.4	-1.7	-1.9	-1.3	0.5	2.5	4.7	6.5	8.2	9.3	10	10.2	10.6	10.2	9.8	9.4	8.3	7.3	6.2	5	4.4	-1.9	10.6	4.8
Apr 23	4.1	3.5	3.2	2.7	2.6	2.6	2.5	2.7	3.6	4.6	5.7	6.3	7.1	7.3	8	8.6	8.9	8.9	8.4	7.9	6.9	5.6	4.4	3.8	2.5	8.9	5.4
Apr 24	3.8	3.9	3.7	3.6	3.3	3.2	3.4	4.1	5.2	7.1	10.2	12.1	12.9	14.3	13.9	13.9	12.4	11.7	10	9	7.8	6.6	5.5	4.7	3.2	14.3	7.8
Apr 25	4.1	3.6	4.3	3.9	3.3	3	5.2	6.7	7.4	7.4	7.4	7.9	8.9	9.9	10	9.1	8	9.1	8.1	7	5	3.3	1.4	0.4	0.4	10.0	6.0
Apr 26	0.6	-1.6	-2.6	-3.2	-3.5	-2.4	-1.1	2.1	4.3	5.7	7.5	8.6	9.8	9.1	8.3	7.1	5.9	5.8	6	5.8	5.4	5	4.9	3.9	-3.5	9.8	3.8
Apr 27	3.6	3.3	3.5	3.4	3.2	1.7	1.9	3.4	4.3	6.2	8.4	10.5	11.6	12.6	13.6	14.9	15	15	14.3	13.2	12.7	12.1	11.5	10.5	1.7	15.0	8.8
Apr 28	9.3	8.4	8.2	7.5	5.7	2.9	4.8	8.9	10.8	11.4	12.4	13.4	14.2	15	15.8	16.3	16.8	16.7	16	15.1	11.8	8.8	7.3	7.9	2.9	16.8	11.1
Apr 29	9.2	9.3	9.9	10.1	10.1	9.9	10.2	11.8	14.3	16.1	17.6	18.3	18.8	19.6	20.4	20.8	21.1	21	20.4	18.3	16.1	14.9	14.3	13.7	9.2	21.1	15.3
Apr 30	13.2	13.1	12.6	11.5	10.3	8.8	9.4	11.9	14.5	17.2	19.4	21	22.7	23.2	24.2	24.7	**25.4**	25.2	24.6	22.6	20.3	18.5	15.9	15	8.8	**25.4**	**17.7**
Diurnal Maximum	13.2	13.1	12.6	11.5	10.3	9.9	10.2	11.9	14.5	17.2	19.4	21.0	22.7	23.2	24.2	24.7	25.4	25.2	24.6	22.6	20.3	18.5	15.9	15.0			
Diurnal Average	2.6	2.2	1.8	1.3	0.8	0.4	0.7	2.6	4.4	5.8	7.2	8.1	8.9	9.5	10.1	10.4	10.5	10.3	9.7	8.1	6.0	4.8	4.0	3.5			

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 - April 2023

Summary of Hourly Averages

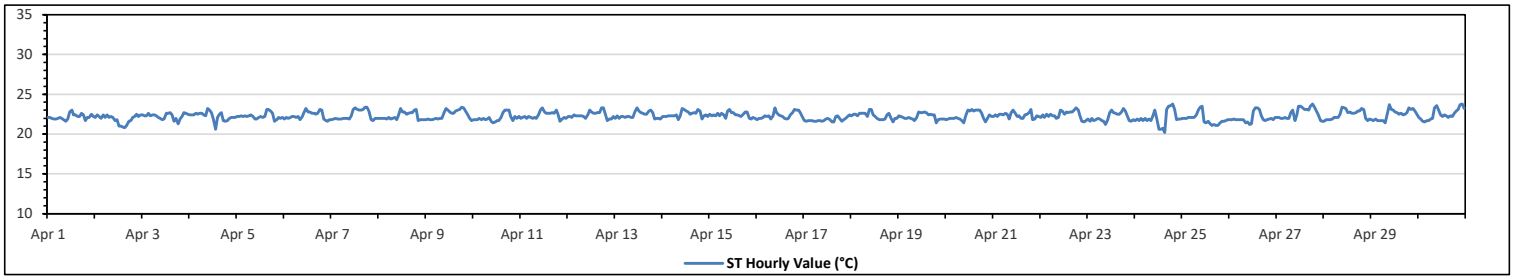
STATION TEMPERATURE (ST) in Degree Celsius

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

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

842-B Station - April 2023

Summary of Hourly Averages

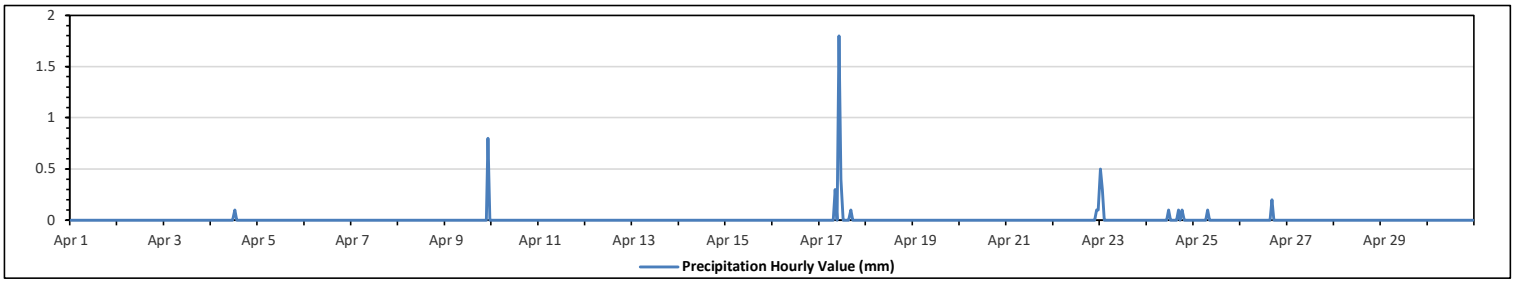
PRECIPITATION in mm

Maximum Hourly Value:	1.8	mm	on Apr 17 at hr 10	Hours in Service:	720	
Maximum Daily Value:	2.6	mm	on Apr 17	Hours of Data:	720	
Minimum Hourly Value:	0.0	mm	on Apr 1 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	mm	on Apr 1	Hours of Calibration:	0	
Monthly Total:	5.1	mm		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 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
Apr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 4	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
Apr 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
Apr 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
Apr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0.0	0.8	0.8
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 17	0	0	0	0	0	0	0	0	0.3	0	**1.8**	0.4	0	0	0	0	0.1	0	0	0	0	0	0	0	0.0	**1.8**	**2.6**
Apr 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
Apr 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
Apr 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
Apr 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
Apr 22	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	0.1	0.2
Apr 23	0.5	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	0.8
Apr 24	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.1	0	0.1	0	0	0	0	0	0.0	0.1	0.3
Apr 25	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Apr 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0.0	0.2	0.2
Apr 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
Apr 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
Apr 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
Apr 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	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	1.8	0.4	0.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.8	0.1			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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.



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

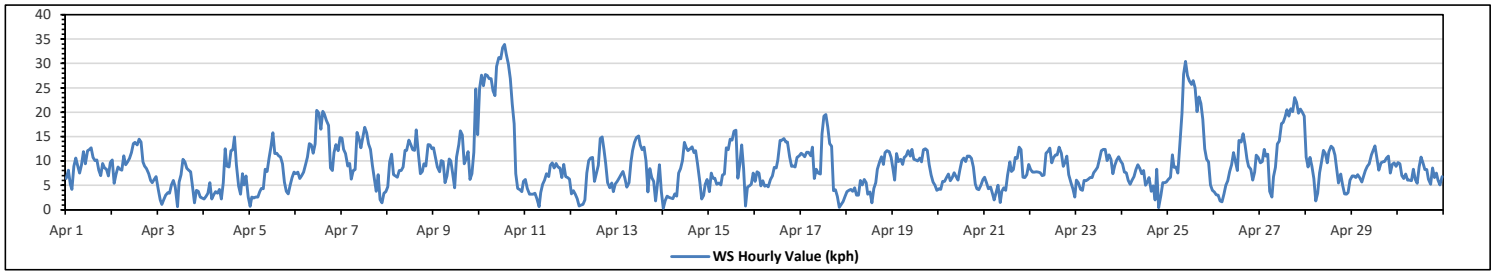
VECTOR WIND SPEED (VWS) in km/hr

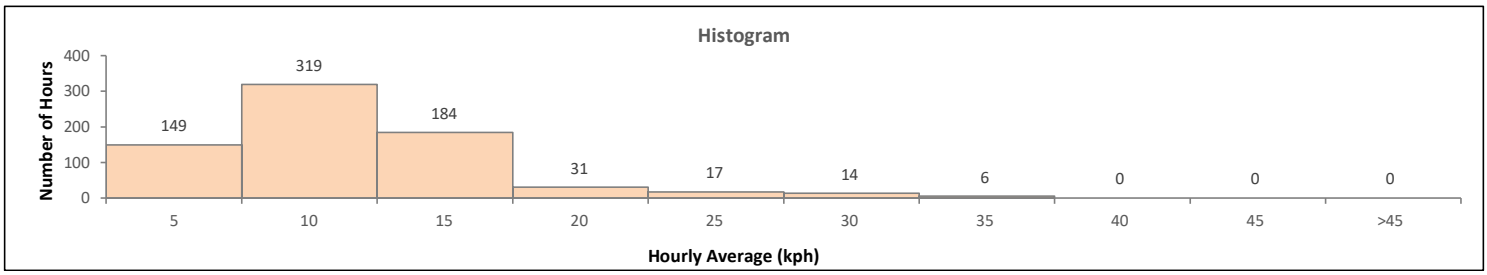
Maximum Hourly Value:	33.9	kph	on Apr 10 at hr 13	Hours in Service:	720	
Maximum Daily Value:	22.8	kph	on Apr 10	Hours of Data:	720	
Minimum Hourly Value:	0.3	kph	on Apr 14 at hr 0	Hours of Missing Data:	0	
Minimum Daily Value:	4.7	kph	on Apr 3	Hours of Calibration:	0	
Monthly Average:	2.6	kph		Operational 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
Apr 1	6.4	8.1	5.2	4.2	8.9	10.6	8.8	7.5	9.2	11.9	9.4	12.1	12.3	12.7	10.7	10.1	10.2	8.1	7.0	9.5	8.6	8.3	6.9	9.7	4.2	12.7	9.0
Apr 2	10.2	5.4	7.3	8.8	8.3	8.1	11.1	9.2	9.8	10.5	11.7	13.6	13.8	13.3	14.5	13.9	9.8	9.0	8.4	7.4	6.0	5.6	6.2	6.8	5.4	14.5	9.5
Apr 3	4.1	2.0	1.1	2.1	3.0	3.5	3.4	5.1	6.0	4.6	0.6	5.7	7.2	10.3	9.8	8.5	8.1	7.8	4.7	1.4	4.0	3.8	2.6	2.4	0.6	10.3	**4.7**
Apr 4	2.2	2.7	3.4	5.6	2.2	3.1	3.7	3.4	4.2	2.2	5.6	12.5	9.0	8.8	12.1	12.3	14.9	9.2	4.8	3.2	7.4	5.1	6.9	2.6	2.2	14.9	6.1
Apr 5	0.7	2.6	2.4	2.6	2.6	3.7	4.4	4.3	8.3	7.9	10.5	12.9	15.8	11.5	11.6	11.1	10.8	9.4	5.7	3.8	3.3	5.0	6.6	7.7	0.7	15.8	6.9
Apr 6	7.4	7.7	6.4	7.0	7.7	9.2	10.8	13.6	13.3	11.6	13.5	20.4	19.8	16.5	20.2	19.6	18.3	17.3	8.6	8.0	11.7	13.4	12.1	14.8	6.4	20.4	12.9
Apr 7	14.7	12.4	11.5	9.0	9.5	6.3	8.0	8.2	15.9	14.4	12.7	14.8	16.9	15.8	13.5	12.4	9.1	6.4	3.8	7.2	2.1	1.4	3.4	3.7	1.4	16.9	9.7
Apr 8	4.7	9.8	11.4	7.2	6.9	6.7	8.0	8.0	8.8	12.2	12.2	14.3	13.4	12.3	12.2	16.4	11.3	7.4	7.9	9.4	9.0	13.4	13.3	12.5	4.7	16.4	10.4
Apr 9	12.7	10.7	8.8	7.8	10.1	9.9	5.6	6.9	10.4	10.0	7.4	4.5	10.8	13.4	16.2	15.3	9.4	10.4	11.9	6.2	7.4	11.8	24.8	15.4	4.5	24.8	10.7
Apr 10	24.9	27.6	25.4	27.7	27.5	26.9	26.9	24.4	23.4	29.4	31.2	30.9	33.2	**33.9**	32.0	29.8	26.9	21.7	17.6	7.4	4.4	4.1	3.7	5.8	3.7	**33.9**	**22.8**
Apr 11	6.2	4.4	3.2	3.2	3.2	3.4	2.3	0.6	3.5	5.2	6.1	7.4	6.8	9.1	9.6	8.6	9.5	8.8	8.6	6.6	9.3	6.8	6.6	6.3	0.6	9.6	6.1
Apr 12	3.3	3.9	3.2	2.3	0.8	1.0	1.1	2.0	7.5	10.1	10.6	10.7	5.8	7.2	9.1	14.6	14.9	12.2	9.5	5.6	4.5	5.5	3.7	5.3	0.8	14.9	6.4
Apr 13	5.8	6.6	7.3	7.9	6.5	4.6	5.6	9.8	12.1	13.8	14.8	15.1	13.3	12.3	12.8	10.0	3.6	8.4	6.6	5.8	1.8	5.4	9.2	3.7	1.8	15.1	8.5
Apr 14	**0.3**	1.9	2.8	2.5	2.4	2.3	3.3	2.8	7.5	8.4	10.1	13.8	12.7	12.1	12.5	12.9	11.7	12.1	9.4	5.8	2.2	2.9	5.2	6.2	**0.3**	13.8	6.8
Apr 15	3.7	7.5	6.5	6.5	5.2	5.5	5.1	7.1	7.3	12.7	12.3	14.5	14.3	16.1	16.3	6.5	9.2	13.3	8.4	0.8	4.6	4.9	5.2	7.5	0.8	16.3	8.4
Apr 16	5.8	7.8	7.5	4.9	5.9	4.8	5.0	4.7	6.2	6.9	8.7	8.6	10.2	14.2	14.3	14.6	13.9	13.9	10.8	8.9	9.0	8.8	10.7	11.1	4.7	14.6	9.1
Apr 17	11.6	11.3	10.9	11.8	11.8	11.1	12.8	6.4	8.3	7.5	7.3	15.5	19.2	19.5	17.0	13.6	13.0	3.9	4.1	2.7	0.5	1.1	1.7	2.7	0.5	19.5	9.4
Apr 18	3.7	4.0	4.2	3.8	4.5	3.0	3.0	6.0	5.1	6.2	5.6	3.2	3.6	1.4	4.4	5.6	8.3	9.8	10.9	9.3	11.7	12.1	11.9	10.7	1.4	12.1	6.3
Apr 19	8.3	6.1	11.5	9.9	10.3	9.3	10.7	11.1	12.1	11.0	12.4	10.3	10.2	10.0	10.6	9.8	12.3	12.5	12.2	9.2	7.1	5.7	5.0	4.0	4.0	12.5	9.7
Apr 20	4.3	4.2	5.8	5.8	6.6	7.3	5.9	6.6	7.6	6.8	6.1	8.2	10.1	10.6	9.9	11.0	11.0	10.5	8.8	5.3	4.3	4.1	5.1	6.2	4.1	11.0	7.2
Apr 21	6.7	5.6	4.3	4.6	3.3	2.0	3.5	5.0	1.5	3.8	4.5	4.0	7.1	9.8	7.9	8.2	10.7	10.5	12.8	12.3	6.7	6.6	7.2	9.3	1.5	12.8	6.6
Apr 22	8.2	7.7	7.7	7.8	7.7	7.6	7.0	7.1	11.6	12.0	12.6	9.6	10.7	11.3	11.3	12.8	11.6	8.9	9.8	11.0	7.2	5.6	4.3	2.6	2.6	12.8	8.9
Apr 23	6.1	5.6	4.2	4.0	6.0	5.9	6.2	6.6	6.6	7.6	8.1	8.7	10.6	12.1	12.4	12.4	10.1	11.3	10.3	7.4	9.1	10.2	10.9	10.0	4.0	12.4	8.4
Apr 24	9.4	7.7	7.6	6.0	5.2	6.1	6.8	8.2	9.2	8.5	7.4	8.0	5.0	5.7	6.6	3.8	4.9	2.0	8.3	0.4	2.9	5.6	5.6	5.7	0.4	9.4	6.1
Apr 25	6.2	6.7	11.3	8.7	8.8	7.5	14.1	19.8	27.8	30.4	27.5	26.4	25.7	26.5	25.0	20.1	23.1	21.8	18.5	12.5	10.3	9.8	5.1	4.0	4.0	30.4	16.6
Apr 26	3.6	3.1	3.0	1.8	1.6	3.2	5.0	5.9	7.9	9.2	11.7	9.9	8.0	14.2	13.9	15.6	13.4	10.4	8.9	8.3	6.1	7.7	11.2	10.7	1.6	15.6	8.1
Apr 27	9.6	9.9	12.4	11.0	11.4	3.8	2.6	6.8	8.7	13.5	14.1	17.7	17.9	19.0	20.5	19.2	20.7	20.1	23.0	22.0	19.8	20.6	20.0	19.2	2.6	23.0	15.1
Apr 28	10.8	8.8	10.7	8.9	6.4	1.8	3.4	7.6	9.8	12.2	11.5	9.6	11.9	13.0	12.6	11.2	8.0	5.5	7.3	5.0	3.3	3.2	3.5	6.1	1.8	13.0	8.0
Apr 29	6.9	6.9	6.6	7.2	6.6	5.7	7.0	8.0	8.9	9.4	11.3	12.1	13.1	10.6	8.1	9.6	9.8	9.9	10.6	11.0	7.5	9.3	9.6	8.9	5.7	13.1	8.9
Apr 30	9.7	9.4	7.0	6.4	7.3	6.1	6.1	5.9	8.3	6.2	5.4	8.8	10.8	9.6	8.2	8.2	6.3	5.2	8.6	6.6	7.5	6.1	5.1	6.8	5.1	10.8	7.3
Diurnal Maximum	24.9	27.6	25.4	27.7	27.5	26.9	26.9	24.4	27.8	30.4	31.2	30.9	33.2	33.9	32.0	29.8	26.9	21.8	23.0	22.0	19.8	20.6	24.8	19.2			
Diurnal Average	7.3	7.3	7.4	6.9	6.9	6.3	6.9	7.6	9.6	10.5	10.8	12.1	12.6	13.1	13.2	12.6	11.8	10.6	9.6	7.3	6.6	7.1	7.8	7.6			

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

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



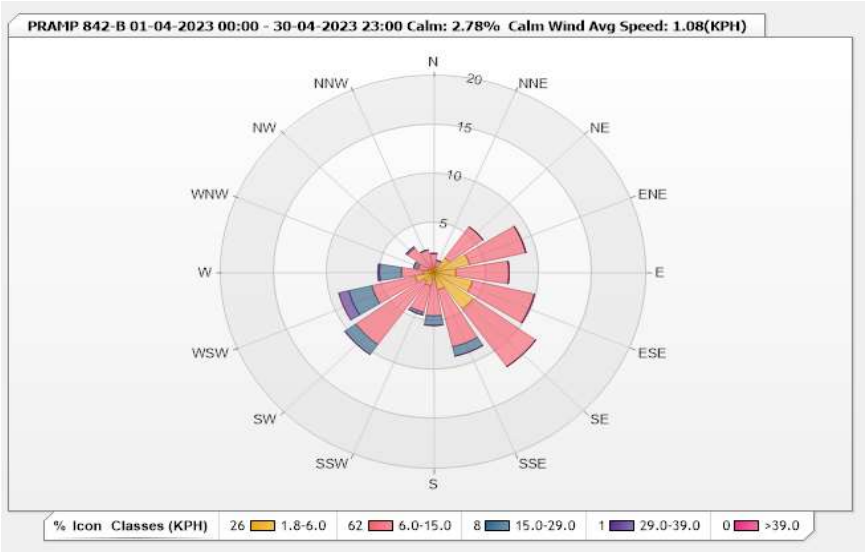


Station: PRAMP 842-B Monitor: WDS [KPH] Monthly: 04-2023

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

Calm (WS<1.8kph): 2.78% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.42	1.53	0	0	0	1.95
NNE	0.56	0.69	0	0	0	1.25
NE	1.81	3.89	0	0	0	5.7
ENE	3.47	5.42	0	0	0	8.89
E	2.08	5	0	0	0	7.08
ESE	3.75	5.97	0	0	0	9.72
SE	4.58	7.22	0	0	0	11.8
SSE	1.81	5.97	0.97	0	0	8.75
S	0.69	3.75	0.97	0	0	5.41
SSW	1.39	2.78	0.28	0	0	4.45
SW	1.11	7.92	1.25	0	0	10.28
WSW	1.81	4.17	2.22	0.97	0	9.17
W	0.97	2.08	2.08	0.14	0	5.27
WNW	0.56	0.97	0.42	0	0	1.95
NW	0.42	2.64	0.14	0	0	3.2
NNW	0.42	1.94	0	0	0	2.36
Summary	25.85	61.94	8.33	1.11	0	97.23



Peace River Area Monitoring Program

842-B Station - April 2023

Summary of Hourly Averages

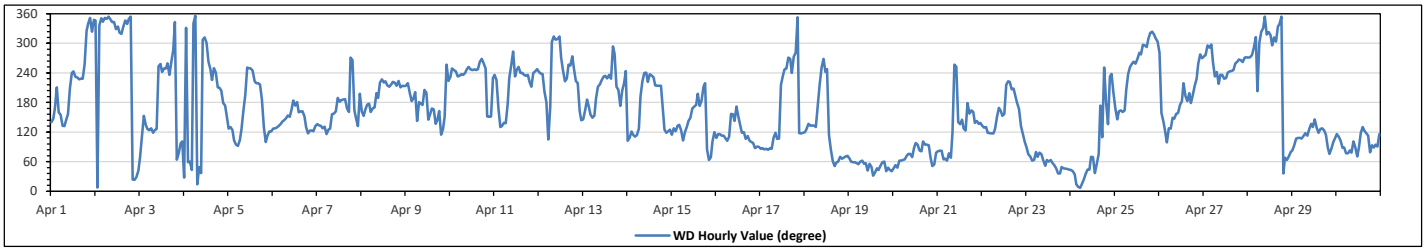
WIND DIRECTION (VWD) in sector

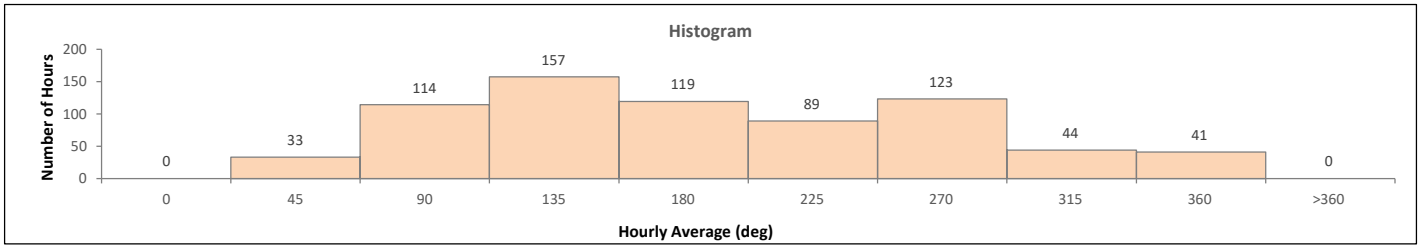
Monthly Average:	189 (S)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Apr 1	SE	SE	SSE	SSW	SSE	SSE	SE	SE	SE	SSE	SSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	NW	NNW	N	NW	NNW	211	SSW
Apr 2	NNW	N	NNW	N	NNW	N	N	N	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	346	NNW
Apr 3	ENE	ESE	SSE	SE	SE	ESE	SE	ESE	ESE	SE	WSW	WSW	WSW	WSW	WSW	WSW	SW	W	WNW	NNW	ENE	ENE	E	E	211	SSW
Apr 4	NNE	NNW	ENE	ENE	NE	NNW	N	NNE	NE	NE	NW	NW	WNW	W	WSW	SW	WSW	WSW	SSW	SSW	SSW	S	S	SSE	261	W
Apr 5	SE	SE	ESE	ESE	E	E	ESE	SE	SSE	SSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	S	SE	E	ESE	ESE	ESE	198	SSW
Apr 6	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSE	SSE	SSE	SSE	SE	ESE	ESE	ESE	ESE	SE	150	SSE
Apr 7	SE	SE	SE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	S	S	S	S	S	SSE	SSE	W	W	SSE	SE	SE	SSW	161	SSE
Apr 8	SSE	SSE	SSE	S	S	SSE	SSE	SSE	SSW	S	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SW	SSW	SSW	SSW	203	SSW
Apr 9	SSW	SW	SSW	S	S	SSW	SE	S	S	S	SSW	SSW	SE	SSE	SSE	SSE	SE	SE	SSE	ESE	SE	SSE	WSW	SW	181	S
Apr 10	SW	WSW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	SSE	SSE	SSE	SW	244	WSW
Apr 11	SW	SW	SSE	SE	SE	SE	SE	S	SW	WSW	WNW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	WSW	WSW	WSW	232	SW
Apr 12	WSW	WSW	SW	SSW	S	ESE	S	WNW	NW	NW	NW	NW	W	WSW	SW	SW	WSW	WSW	W	WSW	SW	SW	SSE	SE	257	WSW
Apr 13	SE	SSE	S	S	SSE	SSE	SSE	S	SSW	SW	SW	SW	SW	SW	SW	SW	WNW	W	SSW	SSW	S	SSW	SW	WSW	213	SSW
Apr 14	E	ESE	ESE	ESE	ESE	ESE	SE	S	SW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	S	SE	ESE	ESE	SE	208	SSW
Apr 15	ESE	SE	ESE	SE	SE	ESE	ESE	ESE	SE	SE	SSE	SSE	S	S	SSW	S	S	SSW	SW	E	ENE	ENE	E	ESE	155	SSE
Apr 16	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	SSE	SSE	SE	S	SSE	SE	ESE	ESE	ESE	ESE	E	E	E	E	E	E	117	ESE
Apr 17	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SW	SW	WSW	WSW	W	W	WSW	W	W	N	ESE	ESE	ESE	158	SSE
Apr 18	ESE	SE	SE	SE	SE	SE	SE	S	SW	WSW	W	WSW	WSW	ESE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	86	E
Apr 19	ENE	ENE	ENE	ENE	ENE	NE	ENE	ENE	NE	ENE	NE	NE	NE	NNE	NE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE	52	NE
Apr 20	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	ENE	NE	NE	ENE	78	ENE
Apr 21	E	E	E	ENE	ENE	ENE	ENE	ENE	ESE	WSW	WSW	SE	SE	SE	SE	ESE	S	SSE	SSE	SSE	SE	SE	SE	SE	136	SE
Apr 22	SE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SW	SW	SW	SSW	SSW	S	S	SSE	SE	ESE	E	164	SSE
Apr 23	E	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	56	NE
Apr 24	NE	NE	NE	NNE	N	N	NNE	NNE	NE	NE	NE	ENE	ENE	NE	NE	ENE	S	ESE	WSW	S	SE	SW	SW	SSW	40	NE
Apr 25	SSE	SE	SSE	SSE	SSE	SSE	SSW	SW	WSW	WSW	W	WSW	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	267	W
Apr 26	W	SSE	SE	ESE	E	SE	SE	SSE	SE	SSE	SSE	S	S	SW	S	S	SSW	S	SSW	SSW	SW	WSW	W	W	193	S
Apr 27	W	W	WNW	WNW	WNW	W	SW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	256	WSW
Apr 28	W	W	W	WNW	NW	SSW	WNW	NW	NNW	N	NW	NW	NW	WNW	NW	WNW	NNW	NNW	N	NE	ENE	ENE	ENE	E	319	NW
Apr 29	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	ESE	SE	SE	ESE	ESE	E	ENE	E	E	ESE	114	ESE
Apr 30	ESE	ESE	E	E	E	ENE	ENE	E	ENE	E	E	ENE	E	ESE	SE	ESE	ESE	ESE	ENE	E	E	E	E	ESE	98	E

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 - April 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	33.9	kph	on Apr 10 at hr 13	Hours in Service:	720
Maximum Daily Value:	22.8	kph	on Apr 10	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on Apr 14 at hr 0	Hours of Missing Data:	0
Minimum Daily Value:	4.7	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	2.6	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 189 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			
Apr 1	6.4	8.1	5.2	4.2	8.9	10.6	8.8	7.5	9.2	11.9	9.4	12.1	12.3	12.7	10.7	10.1	10.2	8.1	7.0	9.5	8.6	8.3	6.9	9.7	4.2	12.7	9.0
	SE	SE	SSE	SSW	SSE	SSE	SE	SE	SE	SSE	SSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	NW	NNW	N	NW	NNW			
Apr 2	10.2	5.4	7.3	8.8	8.3	8.1	11.1	9.2	9.8	10.5	11.7	13.6	13.8	13.3	14.5	13.9	9.8	9.0	8.4	7.4	6.0	5.6	6.2	6.8	5.4	14.5	9.5
	NNW	N	NNW	N	NNW	N	N	N	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE			
Apr 3	4.1	2.0	1.1	2.1	3.0	3.5	3.4	5.1	6.0	4.6	0.6	5.7	7.2	10.3	9.8	8.5	8.1	7.8	4.7	1.4	4.0	3.8	2.6	2.4	0.6	10.3	**4.7**
	ENE	ESE	SSE	SE	SE	ESE	SE	ESE	ESE	SE	WSW	WSW	WSW	WSW	WSW	WSW	SW	W	WNW	NNW	ENE	ENE	E	E			
Apr 4	2.2	2.7	3.4	5.6	2.2	3.1	3.7	3.4	4.2	2.2	5.6	12.5	9.0	8.8	12.1	12.3	14.9	9.2	4.8	3.2	7.4	5.1	6.9	2.6	2.2	14.9	6.1
	NNE	NNW	ENE	ENE	NE	NNW	N	NNE	NE	NE	NW	NW	WNW	W	WSW	SW	WSW	WSW	SSW	SSW	SSW	S	S	SSE			
Apr 5	0.7	2.6	2.4	2.6	2.6	3.7	4.4	4.3	8.3	7.9	10.5	12.9	15.8	11.5	11.6	11.1	10.8	9.4	5.7	3.8	3.3	5.0	6.6	7.7	0.7	15.8	6.9
	SE	SE	ESE	ESE	E	E	ESE	SE	SSE	SSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	S	SE	E	ESE	ESE	ESE			
Apr 6	7.4	7.7	6.4	7.0	7.7	9.2	10.8	13.6	13.3	11.6	13.5	20.4	19.8	16.5	20.2	19.6	18.3	17.3	8.6	8.0	11.7	13.4	12.1	14.8	6.4	20.4	12.9
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSE	SSE	SSE	SSE	SE	ESE	ESE	ESE	ESE	SE			
Apr 7	14.7	12.4	11.5	9.0	9.5	6.3	8.0	8.2	15.9	14.4	12.7	14.8	16.9	15.8	13.5	12.4	9.1	6.4	3.8	7.2	2.1	1.4	3.4	3.7	1.4	16.9	9.7
	SE	SE	SE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	S	S	S	S	S	SSE	SSE	W	W	SSE	SE	SE	SSW			
Apr 8	4.7	9.8	11.4	7.2	6.9	6.7	8.0	8.0	8.8	12.2	12.2	14.3	13.4	12.3	12.2	16.4	11.3	7.4	7.9	9.4	9.0	13.4	13.3	12.5	4.7	16.4	10.4
	SSE	SSE	SSE	S	S	SSE	SSE	SSE	SSW	S	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SW	SSW	SSW	SSW			
Apr 9	12.7	10.7	8.8	7.8	10.1	9.9	5.6	6.9	10.4	10.0	7.4	4.5	10.8	13.4	16.2	15.3	9.4	10.4	11.9	6.2	7.4	11.8	24.8	15.4	4.5	24.8	10.7
	SSW	SW	SSW	S	S	SSW	SE	S	S	S	SSW	SSW	SE	SSE	SSE	SSE	SE	SE	SSE	ESE	SE	SSE	WSW	SW			
Apr 10	24.9	27.6	25.4	27.7	27.5	26.9	26.9	24.4	23.4	29.4	31.2	30.9	33.2	**33.9**	32.0	29.8	26.9	21.7	17.6	7.4	4.4	4.1	3.7	5.8	3.7	**33.9**	**22.8**
	SW	WSW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	SSE	SSE	SSE	SW			
Apr 11	6.2	4.4	3.2	3.2	3.2	3.4	2.3	0.6	3.5	5.2	6.1	7.4	6.8	9.1	9.6	8.6	9.5	8.8	8.6	6.6	9.3	6.8	6.6	6.3	0.6	9.6	6.1
	SW	SW	SSE	SE	SE	SE	SE	S	SW	WSW	WNW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	WSW	WSW	WSW			
Apr 12	3.3	3.9	3.2	2.3	0.8	1.0	1.1	2.0	7.5	10.1	10.6	10.7	5.8	7.2	9.1	14.6	14.9	12.2	9.5	5.6	4.5	5.5	3.7	5.3	0.8	14.9	6.4
	WSW	WSW	SW	SSW	S	ESE	S	WNW	NW	NW	NW	NW	W	WSW	SW	SW	WSW	WSW	W	WSW	SW	SW	SSE	SE			
Apr 13	5.8	6.6	7.3	7.9	6.5	4.6	5.6	9.8	12.1	13.8	14.8	15.1	13.3	12.3	12.8	10.0	3.6	8.4	6.6	5.8	1.8	5.4	9.2	3.7	1.8	15.1	8.5
	SE	SSE	S	S	SSE	SSE	SSE	S	SSW	SW	SW	SW	SW	SW	SW	SW	WNW	W	SSW	SSW	S	SSW	SW	WSW			
Apr 14	**0.3**	1.9	2.8	2.5	2.4	2.3	3.3	2.8	7.5	8.4	10.1	13.8	12.7	12.1	12.5	12.9	11.7	12.1	9.4	5.8	2.2	2.9	5.2	6.2	**0.3**	13.8	6.8
	E	ESE	ESE	ESE	ESE	ESE	SE	S	SW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	S	SE	ESE	ESE	SE			
Apr 15	3.7	7.5	6.5	6.5	5.2	5.5	5.1	7.1	7.3	12.7	12.3	14.5	14.3	16.1	16.3	6.5	9.2	13.3	8.4	0.8	4.6	4.9	5.2	7.5	0.8	16.3	8.4
	ESE	SE	ESE	SE	SE	ESE	ESE	ESE	SE	SE	SSE	SSE	S	S	SSW	S	S	SSW	SW	E	ENE	ENE	E	ESE			
Apr 16	5.8	7.8	7.5	4.9	5.9	4.8	5.0	4.7	6.2	6.9	8.7	8.6	10.2	14.2	14.3	14.6	13.9	13.9	10.8	8.9	9.0	8.8	10.7	11.1	4.7	14.6	9.1
	ESE	ESE	ESE	ESE	ESE	ESE	E	ESE	SSE	SSE	SE	S	SSE	SE	ESE	ESE	ESE	ESE	E	E	E	E	E	E			
Apr 17	11.6	11.3	10.9	11.8	11.8	11.1	12.8	6.4	8.3	7.5	7.3	15.5	19.2	19.5	17.0	13.6	13.0	3.9	4.1	2.7	0.5	1.1	1.7	2.7	0.5	19.5	9.4
	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SW	SW	WSW	WSW	W	W	WSW	W	W	N	ESE	ESE	ESE			
Apr 18	3.7	4.0	4.2	3.8	4.5	3.0	3.0	6.0	5.1	6.2	5.6	3.2	3.6	1.4	4.4	5.6	8.3	9.8	10.9	9.3	11.7	12.1	11.9	10.7	1.4	12.1	6.3
	ESE	SE	SE	SE	SE	SE	SE	S	SW	WSW	W	WSW	WSW	ESE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE			
Apr 19	8.3	6.1	11.5	9.9	10.3	9.3	10.7	11.1	12.1	11.0	12.4	10.3	10.2	10.0	10.6	9.8	12.3	12.5	12.2	9.2	7.1	5.7	5.0	4.0	4.0	12.5	9.7
	ENE	ENE	ENE	ENE	ENE	NE	ENE	ENE	NE	ENE	NE	NE	NE	NNE	NE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE			
Apr 20	4.3	4.2	5.8	5.8	6.6	7.3	5.9	6.6	7.6	6.8	6.1	8.2	10.1	10.6	9.9	11.0	11.0	10.5	8.8	5.3	4.3	4.1	5.1	6.2	4.1	11.0	7.2
	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	ENE	NE	NE	ENE			
Apr 21	6.7	5.6	4.3	4.6	3.3	2.0	3.5	5.0	1.5	3.8	4.5	4.0	7.1	9.8	7.9	8.2	10.7	10.5	12.8	12.3	6.7	6.6	7.2	9.3	1.5	12.8	6.6
	E	E	E	ENE	ENE	ENE	ENE	ENE	ESE	WSW	WSW	SE	SE	SE	SE	ESE	S	SSE	SSE	SSE	SE	SE	SE	SE			
Apr 22	8.2	7.7	7.7	7.8	7.7	7.6	7.0	7.1	11.6	12.0	12.6	9.6	10.7	11.3	11.3	12.8	11.6	8.9	9.8	11.0	7.2	5.6	4.3	2.6	2.6	12.8	8.9
	SE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	SSE	SSE	SW	SW	SW	SSW	SSW	S	S	SSE	SE	ESE	E			
Apr 23	6.1	5.6	4.2	4.0	6.0	5.9	6.2	6.6	6.6	7.6	8.1	8.7	10.6	12.1	12.4	12.4	10.1	11.3	10.3	7.4	9.1	10.2	10.9	10.0	4.0	12.4	8.4
	E	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE			
Apr 24	9.4	7.7	7.6	6.0	5.2	6.1	6.8	8.2	9.2	8.5	7.4	8.0	5.0	5.7	6.6	3.8	4.9	2.0	8.3	0.4	2.9	5.6	5.6	5.7	0.4	9.4	6.1
	NE	NE	NE	NNE	N	N	NNE	NNE	NE	NE	NE	ENE	ENE	NE	NE	ENE	S	ESE	WSW	S	SE	SW	SW	SSW			
Apr 25	6.2	6.7	11.3	8.7	8.8	7.5	14.1	19.8	27.8	30.4	27.5	26.4	25.7	26.5	25.0	20.1	23.1	21.8	18.5	12.5	10.3	9.8	5.1	4.0	4.0	30.4	16.6
	SSE	SE	SSE	SSE	SSE	SSE	SSW	SW	WSW	WSW	W	WSW	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW			
Apr 26	3.6	3.1	3.0	1.8	1.6	3.2	5.0	5.9	7.9	9.2	11.7	9.9	8.0	14.2	13.9	15.6	13.4	10.4	8.9	8.3	6.1	7.7	11.2	10.7	1.6	15.6	8.1
	W	SSE	SE	ESE	E	SE	SE	SSE	SE	SSE	SSE	S	S	SW	S	S	SSW	S	SSW	SSW	SW	WSW	W	W			
Apr 27	9.6	9.9	12.4	11.0	11.4	3.8	2.6	6.8	8.7	13.5	14.1	17.7	17.9	19.0	20.5	19.2	20.7	20.1	23.0	22.0	19.8	20.6	20.0	19.2	2.6	23.0	15.1
	W	W	WNW	WNW	WNW	W	SW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W			
Apr 28	10.8	8.8	10.7	8.9	6.4	1.8	3.4	7.6	9.8	12.2	11.5	9.6	11.9	13.0	12.6	11.2	8.0	5.5	7.3	5.0	3.3	3.2	3.5	6.1	1.8	13.0	8.0
	W	W	W	WNW	NW	SSW	WNW	NW	NNW	N	NW	NW	NW	WNW	NW	WNW	NNW	NNW	N	NE	ENE	ENE	ENE	E			
Apr 29	6.9	6.9	6.6	7.2	6.6	5.7	7.0	8.0	8.9	9.4	11.3	12.1	13.1	10.6	8.1	9.6	9.8	9.9	10.6	11.0	7.5	9.3	9.6	8.9	5.7	13.1	8.9
	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	ESE	SE	SE	ESE	ESE	E	ENE	E	E	ESE			
Apr 30	9.7	9.4	7.0	6.4	7.3	6.1	6.1	5.9	8.3	6.2	5.4	8.8	10.8	9.6	8.2	8.2	6.3	5.2	8.6	6.6	7.5	6.1	5.1	6.8	5.1	10.8	7.3
	ESE	ESE	E	E	E	ENE	ENE	E	ENE	E	E	ENE	E	ESE	SE	ESE	ESE	ESE	ENE	E	E	E	E	ESE			

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 - April 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

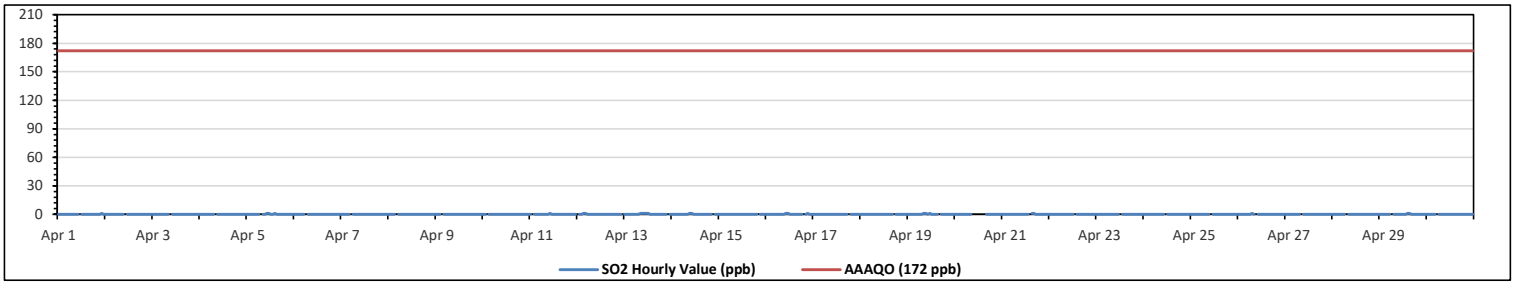
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

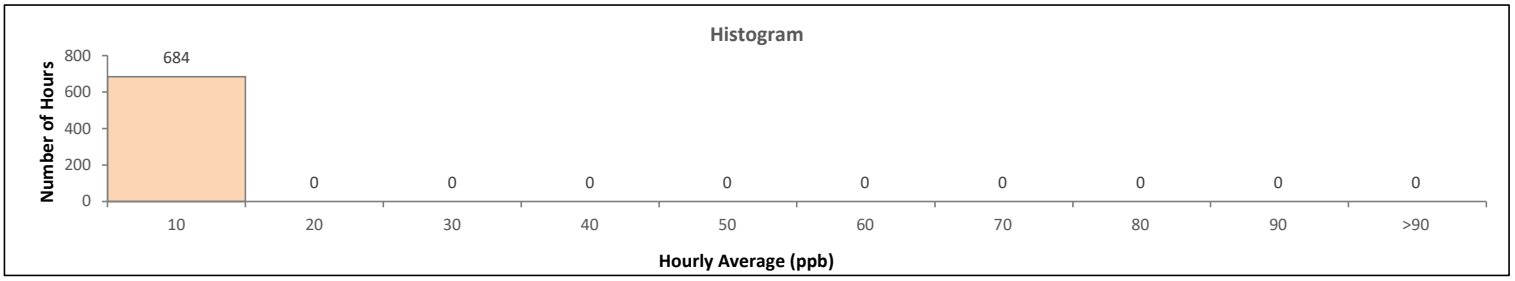
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0	
Maximum Hourly Value:	1	ppb	on Apr 1 at hr 22	Hours in Service:	720	
Maximum Daily Value:	0.2	ppb	on Apr 13	Hours of Data:	684	
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 0	Hours of Missing Data:	1	
Minimum Daily Value:	0.0	ppb	on Apr 2	Hours of Calibration:	35	
Monthly Average:	0.0	ppb		Operational Uptime:	99.9	

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

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

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



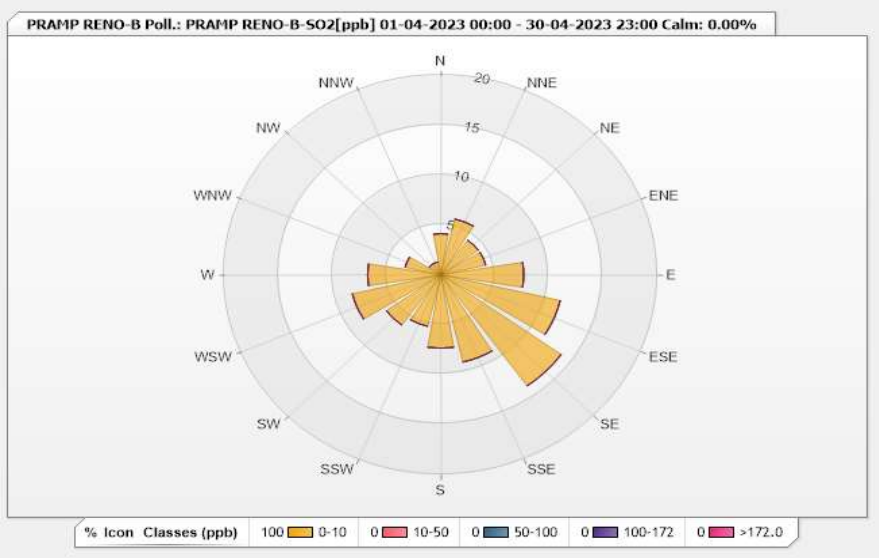


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-SO2[ppb] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	4.12	0	0	0	0	4.12
NNE	5.74	0	0	0	0	5.74
NE	4.26	0	0	0	0	4.26
ENE	4.26	0	0	0	0	4.26
E	7.65	0	0	0	0	7.65
ESE	11.32	0	0	0	0	11.32
SE	13.68	0	0	0	0	13.68
SSE	8.97	0	0	0	0	8.97
S	7.35	0	0	0	0	7.35
SSW	5.29	0	0	0	0	5.29
SW	6.18	0	0	0	0	6.18
WSW	8.38	0	0	0	0	8.38
W	6.76	0	0	0	0	6.76
WNW	3.38	0	0	0	0	3.38
NW	1.32	0	0	0	0	1.32
NNW	1.32	0	0	0	0	1.32
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

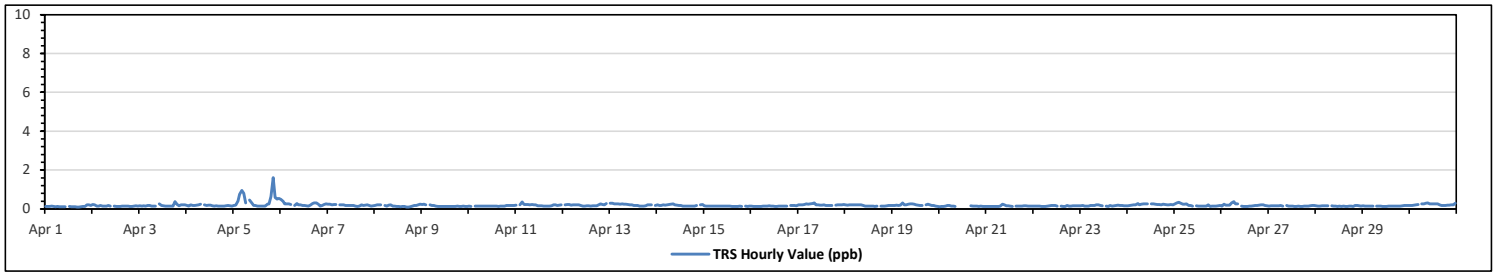
TOTAL REDUCED SULPHUR (TRS) in ppb

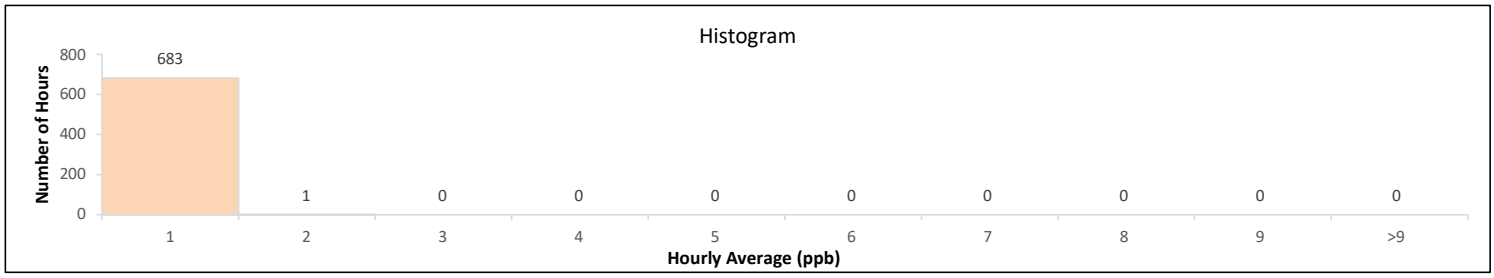
Maximum Hourly Value:	1.61	ppb	on Apr 5 at hr 20	Hours in Service:	720	
Maximum Daily Value:	0.42	ppb	on Apr 5	Hours of Data:	684	
Minimum Hourly Value:	0.10	ppb	on Apr 1 at hr 16	Hours of Missing Data:	1	
Minimum Daily Value:	0.13	ppb	on Apr 1	Hours of Calibration:	35	
Monthly Average:	0.18	ppb		Operational Uptime:	99.9	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.12	0.12	0.12	0.15	0.12	0.11	0.12	0.11	0.11	0.11	0.11	S	0.12	0.11	0.11	0.11	0.1	0.1	0.11	0.12	0.13	0.21	0.22	0.17	0.10	0.22	0.13
Apr 2	0.23	0.22	0.14	0.14	0.17	0.15	0.15	0.14	0.17	0.15	S	0.15	0.13	0.13	0.13	0.14	0.15	0.15	0.14	0.13	0.13	0.14	0.16	0.14	0.13	0.23	0.15
Apr 3	0.16	0.15	0.16	0.15	0.18	0.17	0.15	0.15	0.15	S	0.27	0.17	0.16	0.15	0.14	0.15	0.15	0.15	0.37	0.23	0.16	0.2	0.2	0.2	0.14	0.37	0.18
Apr 4	0.17	0.15	0.2	0.18	0.17	0.19	0.2	0.24	S	0.2	0.18	0.19	0.19	0.16	0.15	0.16	0.14	0.14	0.14	0.15	0.16	0.17	0.16	0.15	0.14	0.24	0.17
Apr 5	0.18	0.19	0.41	0.74	0.95	0.8	0.3	S	0.46	0.31	0.17	0.18	0.14	0.14	0.14	0.14	0.15	0.24	0.25	0.64	**1.61**	0.59	0.5	0.54	0.14	**1.61**	**0.42**
Apr 6	0.49	0.38	0.25	0.26	0.26	0.23	S	0.17	0.28	0.22	0.2	0.17	0.17	0.16	0.15	0.19	0.28	0.31	0.31	0.24	0.14	0.17	0.23	0.26	0.14	0.49	0.24
Apr 7	0.24	0.24	0.22	0.23	0.23	S	0.21	0.22	0.2	0.18	0.17	0.17	0.17	0.17	0.14	0.13	0.15	0.21	0.18	0.19	0.21	0.17	0.14	0.16	0.13	0.24	0.19
Apr 8	0.18	0.21	0.22	0.2	S	0.17	0.15	0.19	0.21	0.15	0.14	0.12	0.12	0.11	0.12	0.12	0.1	0.1	0.11	0.14	0.18	0.17	0.2	0.24	0.10	0.24	0.16
Apr 9	0.23	0.24	0.2	S	0.21	0.18	0.17	0.14	0.12	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.13	0.13	0.15	0.13	0.13	0.12	0.24	0.15
Apr 10	0.14	0.13	S	0.14	0.14	0.14	0.15	0.15	0.14	0.14	0.14	0.15	0.14	0.15	0.15	0.13	0.15	0.15	0.15	0.17	0.18	0.17	0.18	0.17	0.13	0.18	0.15
Apr 11	0.19	S	0.2	0.35	0.23	0.23	0.23	0.21	0.23	0.21	0.2	0.16	0.16	0.16	0.15	0.14	0.15	0.14	0.16	0.21	0.2	0.18	0.19	0.21	0.14	0.35	0.20
Apr 12	S	0.22	0.23	0.23	0.19	0.21	0.22	0.22	0.22	0.17	0.14	0.14	0.16	0.16	0.15	0.16	0.16	0.16	0.21	0.25	0.23	0.2	0.28	S	0.14	0.28	0.20
Apr 13	0.29	0.29	0.27	0.26	0.26	0.24	0.25	0.24	0.24	0.23	0.21	0.2	0.18	0.17	0.17	0.15	0.15	0.15	0.16	0.21	0.22	0.2	S	0.17	0.15	0.29	0.21
Apr 14	0.2	0.17	0.17	0.2	0.19	0.22	0.23	0.24	0.26	0.21	0.19	0.17	0.17	0.15	0.14	0.15	0.14	0.14	0.15	0.15	0.17	S	0.2	0.23	0.14	0.26	0.18
Apr 15	0.16	0.15	0.14	0.15	0.15	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.13	0.14	0.13	S	0.15	0.13	0.14	0.12	0.16	0.14
Apr 16	0.14	0.13	0.13	0.13	0.13	0.13	0.14	0.15	0.15	0.16	0.15	0.14	0.13	0.13	0.14	0.14	0.15	0.15	0.15	S	0.17	0.17	0.17	0.16	0.13	0.17	0.15
Apr 17	0.2	0.2	0.22	0.23	0.25	0.24	0.26	0.28	0.3	0.2	0.21	0.19	0.19	0.2	0.18	0.18	0.17	0.18	S	0.19	0.2	0.21	0.21	0.23	0.17	0.30	0.21
Apr 18	0.2	0.19	0.2	0.2	0.21	0.21	0.22	0.22	0.2	0.17	0.15	0.15	0.14	0.15	0.14	0.13	0.14	S	0.15	0.15	0.15	0.16	0.17	0.17	0.13	0.22	0.17
Apr 19	0.17	0.17	0.19	0.18	0.19	0.3	0.2	0.22	0.24	0.25	0.25	0.24	0.21	0.19	0.17	0.17	S	0.21	0.24	0.2	0.18	0.17	0.14	0.12	0.12	0.30	0.20
Apr 20	0.11	0.12	0.13	0.15	0.17	0.17	0.14	0.14	0.12	Y	C	C	C	C	0.15	S	0.16	0.15	0.14	0.14	0.13	0.14	0.13	0.12	0.11	0.17	0.14
Apr 21	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.15	0.24	0.2	0.16	0.16	0.14	0.13	S	0.15	0.15	0.15	0.15	0.16	0.16	0.15	0.15	0.15	0.12	0.24	0.15
Apr 22	0.15	0.15	0.15	0.15	0.13	0.13	0.13	0.15	0.16	0.17	0.18	0.17	0.15	S	0.14	0.13	0.13	0.17	0.14	0.14	0.16	0.16	0.16	0.16	0.13	0.18	0.15
Apr 23	0.16	0.18	0.15	0.15	0.15	0.18	0.18	0.18	0.22	0.22	0.17	0.16	S	0.14	0.13	0.18	0.15	0.16	0.18	0.19	0.18	0.18	0.16	0.16	0.13	0.22	0.17
Apr 24	0.16	0.17	0.19	0.2	0.22	0.28	0.22	0.24	0.25	0.25	0.26	S	0.27	0.25	0.24	0.23	0.23	0.22	0.24	0.23	0.21	0.22	0.23	0.22	0.16	0.28	0.23
Apr 25	0.25	0.31	0.34	0.29	0.24	0.24	0.25	0.17	0.17	0.15	S	0.16	0.15	0.15	0.14	0.15	0.15	0.2	0.13	0.14	0.14	0.14	0.16	0.17	0.13	0.34	0.19
Apr 26	0.15	0.24	0.19	0.19	0.19	0.31	0.37	0.25	0.25	S	0.15	0.13	0.13	0.12	0.15	0.15	0.16	0.17	0.17	0.19	0.22	0.2	0.17	0.16	0.12	0.37	0.19
Apr 27	0.14	0.16	0.16	0.16	0.16	0.16	0.17	0.15	S	0.17	0.15	0.14	0.14	0.12	0.13	0.14	0.13	0.13	0.14	0.14	0.15	0.16	0.17	0.18	0.12	0.18	0.15
Apr 28	0.16	0.15	0.15	0.16	0.16	0.16	0.16	S	0.16	0.15	0.14	0.13	0.14	0.13	0.14	0.13	0.13	0.14	0.14	0.13	0.17	0.17	0.16	0.15	0.13	0.17	0.15
Apr 29	0.16	0.15	0.15	0.15	0.15	0.15	S	0.15	0.14	0.15	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.16	0.17	0.18	0.17	0.13	0.18	0.15
Apr 30	0.17	0.18	0.19	0.21	0.23	S	0.26	0.27	0.29	0.3	0.27	0.27	0.26	0.25	0.25	0.21	0.18	0.17	0.17	0.19	0.19	0.2	0.21	0.29	0.17	0.30	0.23
Diurnal Maximum	0.49	0.38	0.41	0.74	0.95	0.80	0.37	0.28	0.46	0.31	0.27	0.27	0.27	0.25	0.25	0.23	0.28	0.31	0.37	0.64	1.61	0.59	0.50	0.54			
Diurnal Average	0.19	0.19	0.19	0.21	0.21	0.21	0.20	0.19	0.21	0.19	0.18	0.16	0.16	0.15	0.15	0.15	0.15	0.16	0.17	0.19	0.22	0.19	0.19	0.19			

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.



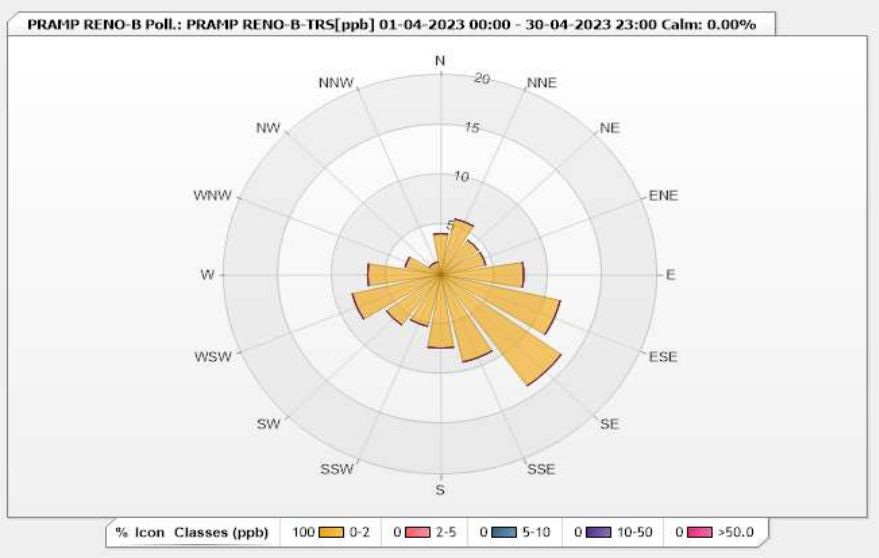


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-TRS[ppb] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.12	0	0	0	0	4.12
NNE	5.74	0	0	0	0	5.74
NE	4.26	0	0	0	0	4.26
ENE	4.26	0	0	0	0	4.26
E	7.65	0	0	0	0	7.65
ESE	11.32	0	0	0	0	11.32
SE	13.68	0	0	0	0	13.68
SSE	8.97	0	0	0	0	8.97
S	7.35	0	0	0	0	7.35
SSW	5.29	0	0	0	0	5.29
SW	6.18	0	0	0	0	6.18
WSW	8.38	0	0	0	0	8.38
W	6.76	0	0	0	0	6.76
WNW	3.38	0	0	0	0	3.38
NW	1.32	0	0	0	0	1.32
NNW	1.32	0	0	0	0	1.32
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

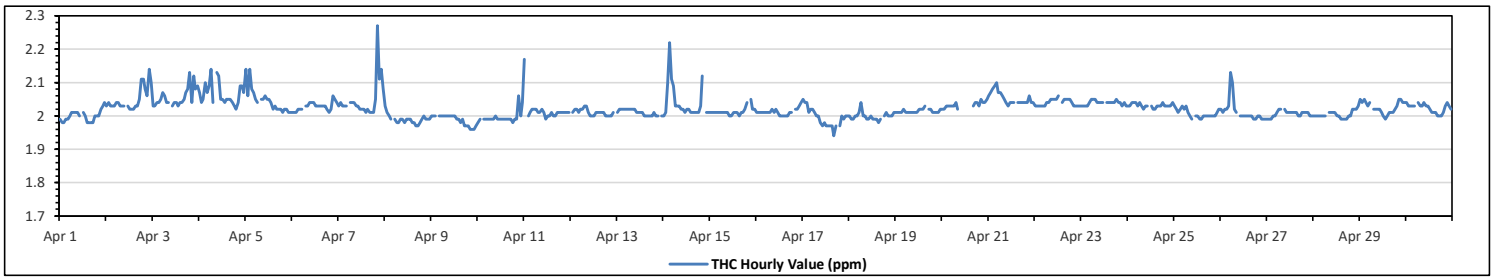
TOTAL HYDROCARBONS (THC) in ppm

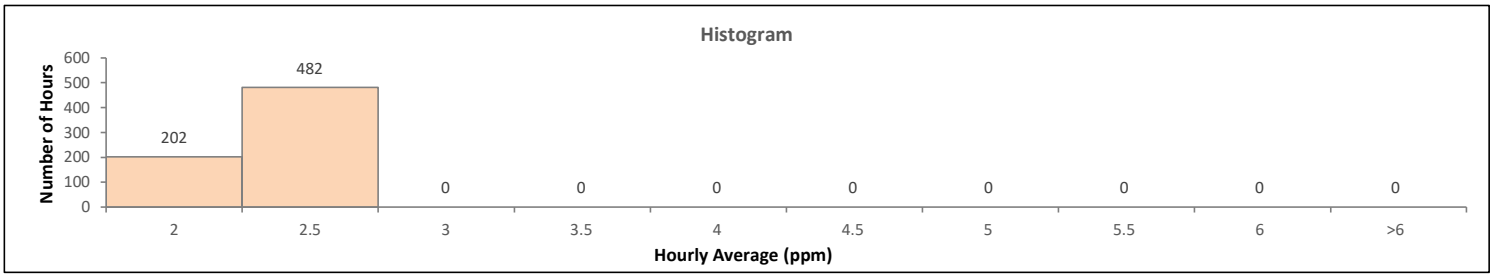
Maximum Hourly Value:	2.27	ppm	on Apr 7 at hr 20	Hours in Service:	720	
Maximum Daily Value:	2.07	ppm	on Apr 4	Hours of Data:	684	
Minimum Hourly Value:	1.94	ppm	on Apr 17 at hr 16	Hours of Missing Data:	1	
Minimum Daily Value:	1.99	ppm	on Apr 9	Hours of Calibration:	35	
Monthly Average:	2.02	ppm		Operational Uptime:	99.9	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.99	1.98	1.98	1.99	1.99	2.00	2.01	2.01	2.01	2.01	2.00	S	2.01	2.00	1.98	1.98	1.98	1.98	2.00	2.00	2.00	2.02	2.03	2.04	1.98	2.04	2.00
Apr 2	2.03	2.04	2.03	2.03	2.03	2.04	2.04	2.03	2.03	2.03	S	2.03	2.02	2.02	2.02	2.03	2.03	2.05	2.11	2.11	2.08	2.06	2.14	2.10	2.02	2.14	2.05
Apr 3	2.03	2.03	2.04	2.04	2.05	2.07	2.06	2.04	2.04	S	2.03	2.04	2.04	2.03	2.04	2.04	2.05	2.07	2.08	2.13	2.04	2.12	2.08	2.09	2.03	2.13	2.06
Apr 4	2.07	2.04	2.05	2.10	2.07	2.09	2.14	2.04	S	2.13	2.12	2.05	2.05	2.04	2.05	2.05	2.05	2.04	2.03	2.02	2.04	2.09	2.09	2.07	2.02	2.14	**2.07**
Apr 5	2.14	2.06	2.14	2.08	2.07	2.05	2.04	S	2.05	2.05	2.06	2.05	2.05	2.04	2.02	2.03	2.02	2.02	2.02	2.01	2.02	2.02	2.01	2.01	2.01	2.14	2.05
Apr 6	2.01	2.01	2.01	2.02	2.02	2.02	S	2.03	2.03	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.01	2.02	2.06	2.05	2.04	2.01	2.06	2.03
Apr 7	2.03	2.04	2.03	2.03	2.03	S	2.04	2.04	2.04	2.03	2.03	2.02	2.02	2.02	2.01	2.02	2.01	2.01	2.01	2.05	**2.27**	2.11	2.14	2.08	2.01	**2.27**	2.05
Apr 8	2.03	2.01	2.00	1.99	S	1.99	1.98	1.98	1.99	1.99	1.98	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.98	1.99	2.00	1.99	1.99	1.99	1.97	2.03	1.99
Apr 9	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.99	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.96	2.00	1.99
Apr 10	1.98	1.99	S	1.99	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.99	1.99	2.06	2.00	2.04	1.98	2.06	2.00
Apr 11	2.17	S	2.00	2.01	2.02	2.02	2.02	2.01	2.01	2.02	2.01	1.99	2.00	2.00	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	2.17	2.02
Apr 12	S	2.01	2.02	2.02	2.01	2.02	2.02	2.03	2.03	2.01	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	S	2.00	2.03	2.01
Apr 13	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	S	2.00	2.00	2.02	2.01
Apr 14	2.00	2.01	2.10	2.22	2.11	2.09	2.03	2.03	2.03	2.02	2.02	2.01	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.03	2.12	S	2.01	2.01	2.00	2.22	2.04
Apr 15	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	2.00	2.01	2.01	2.02	2.04	S	2.05	2.02	2.02	2.00	2.05	2.01
Apr 16	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	S	2.02	2.02	2.03	2.04	2.00	2.04	2.01
Apr 17	2.05	2.04	2.04	2.01	2.02	2.02	2.01	2.00	2.00	1.98	1.97	1.98	1.97	1.97	1.97	1.97	1.94	1.97	S	1.97	2.00	1.99	2.00	2.00	1.94	2.05	1.99
Apr 18	2.00	1.99	1.99	2.00	2.00	2.01	2.04	2.00	2.00	1.99	1.99	2.00	1.99	1.99	1.99	1.98	1.99	S	2.00	2.01	2.00	2.00	2.00	2.01	1.98	2.04	2.00
Apr 19	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.03	S	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.03	2.01
Apr 20	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.04	2.02	Y	C	C	C	C	2.02	S	2.03	2.04	2.04	2.03	2.05	2.04	2.04	2.05	2.02	2.05	2.03
Apr 21	2.06	2.07	2.08	2.09	2.10	2.07	2.07	2.06	2.05	2.04	2.03	2.04	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.06	2.04	2.04	2.03	2.10	2.05
Apr 22	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.05	2.05	2.05	2.05	2.06	S	2.04	2.05	2.05	2.05	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.06	2.04
Apr 23	2.03	2.03	2.03	2.03	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.04	2.03	2.04	2.03	2.03	2.05	2.04
Apr 24	2.03	2.03	2.04	2.04	2.04	2.03	2.04	2.03	2.02	2.03	2.03	S	2.03	2.02	2.02	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.04	2.02	2.04	2.03
Apr 25	2.03	2.02	2.01	2.02	2.03	2.02	2.03	2.01	2.00	1.99	S	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.02	1.99	2.03	2.01
Apr 26	2.02	2.01	2.02	2.02	2.03	2.13	2.10	2.02	2.01	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.00	1.99	1.99	1.99	1.99	2.13	2.01
Apr 27	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.02	S	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	1.99	2.02	2.01
Apr 28	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.02	2.02	2.02	2.03	1.99	2.03	2.00
Apr 29	2.05	2.04	2.05	2.04	2.03	2.04	S	2.02	2.02	2.02	2.02	2.01	2.00	1.99	2.00	2.01	2.01	2.01	2.02	2.03	2.05	2.05	2.04	2.04	1.99	2.05	2.03
Apr 30	2.04	2.03	2.03	2.03	2.03	S	2.04	2.03	2.03	2.04	2.03	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.01	2.03	2.04	2.03	2.02	2.00	2.04	2.02
Diurnal Maximum	2.17	2.07	2.14	2.22	2.11	2.13	2.14	2.06	2.05	2.13	2.12	2.05	2.06	2.04	2.05	2.05	2.05	2.07	2.11	2.13	2.27	2.12	2.14	2.10			
Diurnal Average	2.03	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.03			

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.



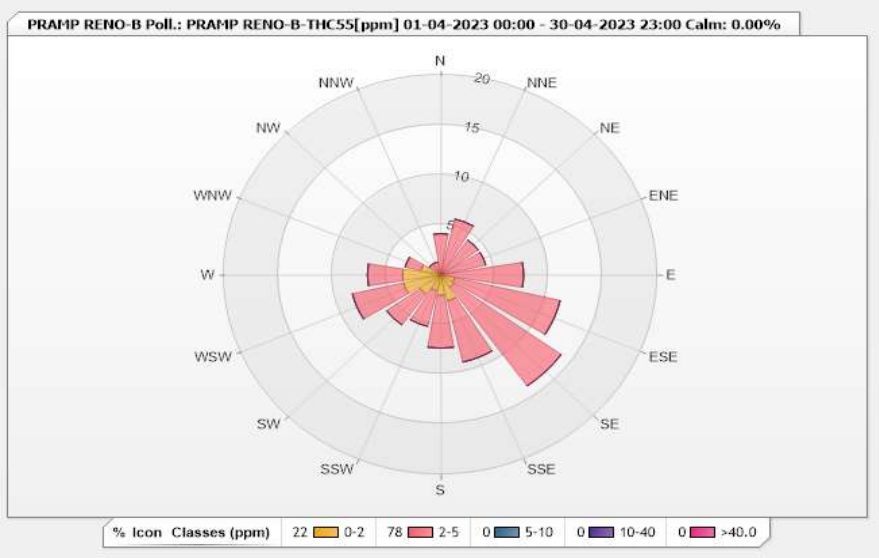


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-THC55[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	4.12	0	0	0	4.12
NNE	0.15	5.59	0	0	0	5.74
NE	0.15	4.12	0	0	0	4.27
ENE	0.29	3.97	0	0	0	4.26
E	0.29	7.35	0	0	0	7.64
ESE	1.32	10	0	0	0	11.32
SE	1.47	12.21	0	0	0	13.68
SSE	2.65	6.32	0	0	0	8.97
S	2.06	5.29	0	0	0	7.35
SSW	1.62	3.68	0	0	0	5.3
SW	2.35	3.82	0	0	0	6.17
WSW	3.53	4.85	0	0	0	8.38
W	3.53	3.24	0	0	0	6.77
WNW	1.91	1.47	0	0	0	3.38
NW	0.29	1.03	0	0	0	1.32
NNW	0	1.32	0	0	0	1.32
Summary	21.61	78.38	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

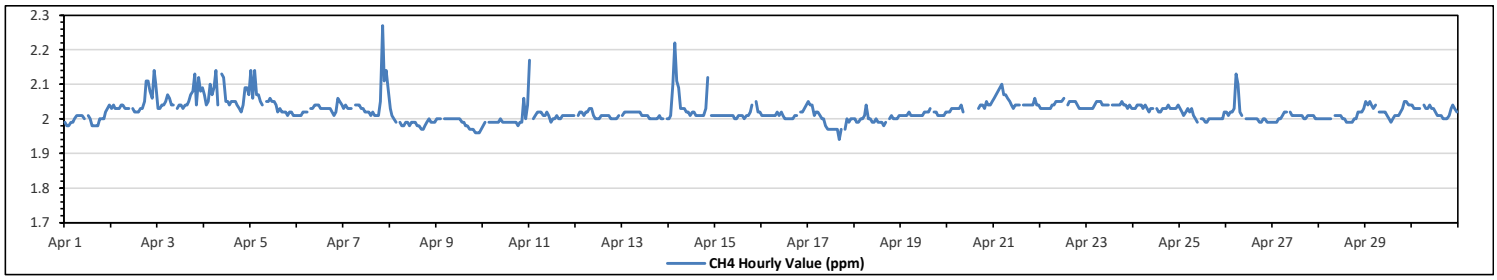
METHANE (CH4) in ppm

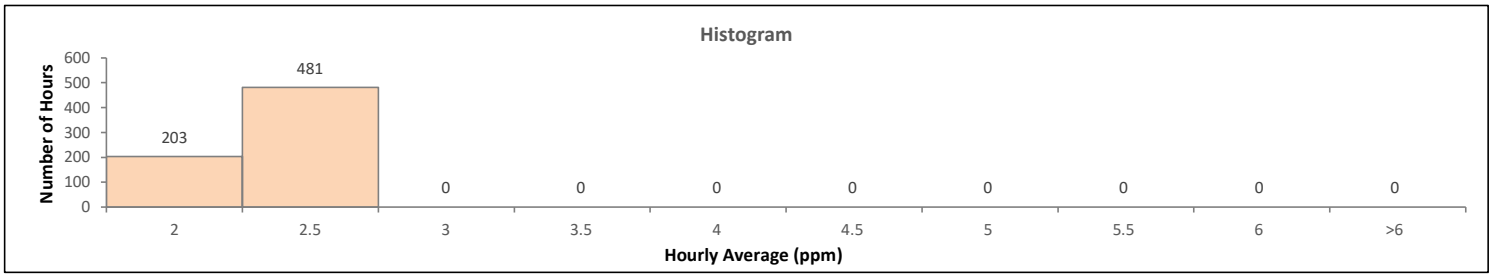
Maximum Hourly Value:	2.27	ppm	on Apr 7 at hr 20	Hours in Service:	720	
Maximum Daily Value:	2.07	ppm	on Apr 4	Hours of Data:	684	
Minimum Hourly Value:	1.94	ppm	on Apr 17 at hr 16	Hours of Missing Data:	1	
Minimum Daily Value:	1.99	ppm	on Apr 9	Hours of Calibration:	35	
Monthly Average:	2.02	ppm		Operational Uptime:	99.9	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.99	1.98	1.98	1.99	1.99	2.00	2.01	2.01	2.01	2.01	2.00	S	2.01	2.00	1.98	1.98	1.98	1.98	2.00	2.00	2.00	2.02	2.03	2.04	1.98	2.04	2.00
Apr 2	2.03	2.04	2.03	2.03	2.03	2.04	2.04	2.03	2.03	2.03	S	2.03	2.02	2.02	2.02	2.03	2.03	2.05	2.11	2.11	2.08	2.06	2.14	2.10	2.02	2.14	2.05
Apr 3	2.03	2.03	2.04	2.04	2.05	2.07	2.06	2.04	2.04	S	2.03	2.04	2.04	2.03	2.04	2.04	2.05	2.07	2.08	2.13	2.04	2.12	2.08	2.09	2.03	2.13	2.06
Apr 4	2.07	2.04	2.05	2.10	2.07	2.09	2.14	2.04	S	2.13	2.12	2.05	2.05	2.04	2.05	2.05	2.05	2.04	2.03	2.02	2.04	2.09	2.09	2.07	2.02	2.14	**2.07**
Apr 5	2.14	2.06	2.14	2.07	2.07	2.05	2.04	S	2.05	2.05	2.06	2.05	2.05	2.04	2.02	2.03	2.02	2.02	2.02	2.01	2.02	2.02	2.01	2.01	2.01	2.14	2.05
Apr 6	2.01	2.01	2.01	2.02	2.02	2.02	S	2.03	2.03	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.01	2.02	2.06	2.05	2.04	2.01	2.06	2.03
Apr 7	2.03	2.04	2.03	2.03	2.03	S	2.04	2.04	2.04	2.03	2.03	2.02	2.02	2.02	2.01	2.02	2.01	2.01	2.01	2.05	**2.27**	2.11	2.14	2.08	2.01	**2.27**	2.05
Apr 8	2.03	2.01	2.00	1.99	S	1.99	1.98	1.98	1.99	1.99	1.98	1.99	1.99	1.99	1.98	1.98	1.97	1.97	1.98	1.99	2.00	1.99	1.99	1.99	1.97	2.03	1.99
Apr 9	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.96	2.00	1.99
Apr 10	1.98	1.99	S	1.99	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.99	1.99	2.06	2.00	2.04	1.98	2.06	2.00
Apr 11	2.17	S	2.00	2.01	2.02	2.02	2.02	2.01	2.01	2.02	2.01	1.99	2.00	2.00	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	2.17	2.02
Apr 12	S	2.01	2.02	2.02	2.01	2.02	2.02	2.03	2.03	2.01	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	S	2.00	2.03	2.01
Apr 13	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	S	2.00	2.00	2.02	2.01
Apr 14	2.00	2.01	2.10	2.22	2.11	2.09	2.03	2.03	2.03	2.02	2.02	2.01	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.03	2.12	S	2.01	2.01	2.00	2.22	2.04
Apr 15	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	2.00	2.01	2.01	2.02	2.04	S	2.05	2.02	2.02	2.00	2.05	2.01
Apr 16	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	S	2.02	2.02	2.03	2.04	2.00	2.04	2.01
Apr 17	2.05	2.04	2.04	2.01	2.02	2.02	2.01	2.00	2.00	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.94	1.97	S	1.97	2.00	1.99	2.00	2.00	1.94	2.05	1.99
Apr 18	2.00	1.99	1.99	2.00	2.00	2.01	2.04	2.00	2.00	1.99	1.99	2.00	1.99	1.99	1.99	1.98	1.99	S	2.00	2.01	2.00	2.00	2.00	2.01	1.98	2.04	2.00
Apr 19	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.03	S	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.03	2.01
Apr 20	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.04	2.02	Y	C	C	C	C	2.02	S	2.03	2.04	2.04	2.03	2.05	2.04	2.04	2.05	2.02	2.05	2.03
Apr 21	2.06	2.07	2.08	2.09	2.10	2.07	2.07	2.06	2.05	2.04	2.03	2.04	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.06	2.04	2.04	2.03	2.10	2.05
Apr 22	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.05	2.05	2.05	2.05	2.06	S	2.04	2.05	2.05	2.05	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.06	2.04
Apr 23	2.03	2.03	2.03	2.03	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.04	2.03	2.04	2.03	2.03	2.05	2.04
Apr 24	2.03	2.03	2.04	2.04	2.04	2.03	2.04	2.03	2.02	2.03	2.03	S	2.03	2.02	2.02	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.04	2.02	2.04	2.03
Apr 25	2.03	2.02	2.01	2.02	2.03	2.02	2.03	2.01	2.00	1.99	S	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	1.99	2.03	2.01
Apr 26	2.02	2.01	2.02	2.02	2.03	2.13	2.10	2.02	2.01	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.00	1.99	1.99	1.99	1.99	2.13	2.01
Apr 27	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.02	S	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	1.99	2.02	2.01
Apr 28	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.02	2.02	2.02	2.03	1.99	2.03	2.00
Apr 29	2.05	2.04	2.05	2.04	2.03	2.04	S	2.02	2.02	2.02	2.02	2.01	2.00	1.99	2.00	2.01	2.01	2.01	2.02	2.03	2.05	2.05	2.04	2.04	1.99	2.05	2.03
Apr 30	2.04	2.03	2.03	2.03	2.03	S	2.04	2.03	2.03	2.04	2.03	2.03	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.01	2.03	2.04	2.03	2.02	2.00	2.04	2.02
Diurnal Maximum	2.17	2.07	2.14	2.22	2.11	2.13	2.14	2.06	2.05	2.13	2.12	2.05	2.06	2.04	2.05	2.05	2.05	2.07	2.11	2.13	2.27	2.12	2.14	2.10			
Diurnal Average	2.03	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.03	2.03			

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.



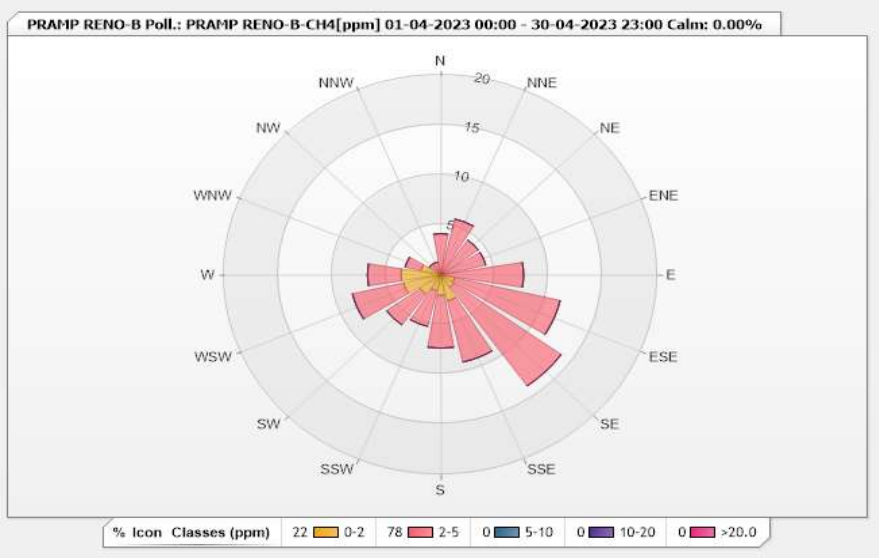


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-CH4[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	4.12	0	0	0	4.12
NNE	0.15	5.59	0	0	0	5.74
NE	0.15	4.12	0	0	0	4.27
ENE	0.29	3.97	0	0	0	4.26
E	0.29	7.35	0	0	0	7.64
ESE	1.32	10	0	0	0	11.32
SE	1.47	12.21	0	0	0	13.68
SSE	2.65	6.32	0	0	0	8.97
S	2.06	5.29	0	0	0	7.35
SSW	1.62	3.68	0	0	0	5.3
SW	2.35	3.82	0	0	0	6.17
WSW	3.53	4.85	0	0	0	8.38
W	3.68	3.09	0	0	0	6.77
WNW	1.91	1.47	0	0	0	3.38
NW	0.29	1.03	0	0	0	1.32
NNW	0	1.32	0	0	0	1.32
Summary	21.76	78.23	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

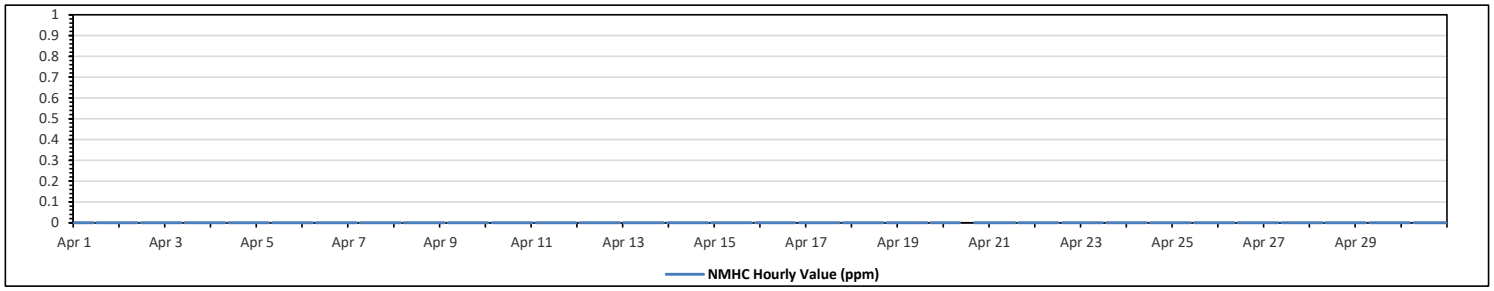
NON-METHANE HYDROCARBONS (NMHC) in ppm

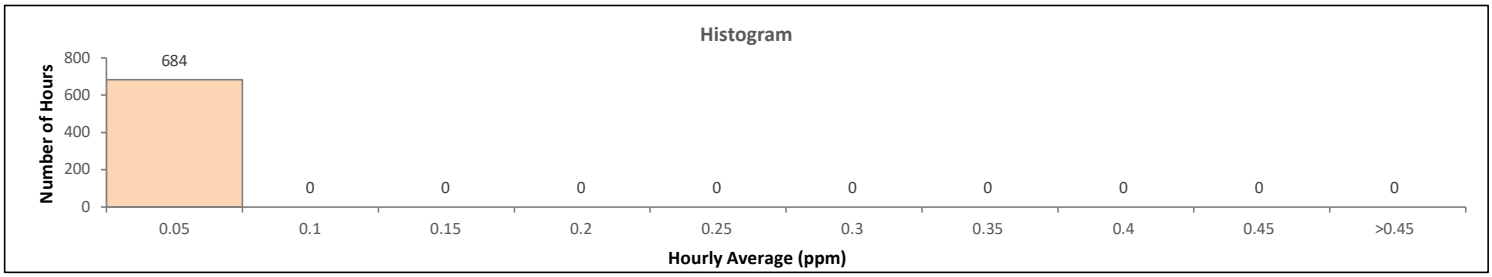
Maximum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on Apr 1	Hours of Data:	684
Minimum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours of Missing Data:	1
Minimum Daily Value:	0.00	ppm	on Apr 1	Hours of Calibration:	35
Monthly Average:	0.00	ppm		Operational Uptime:	99.9

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



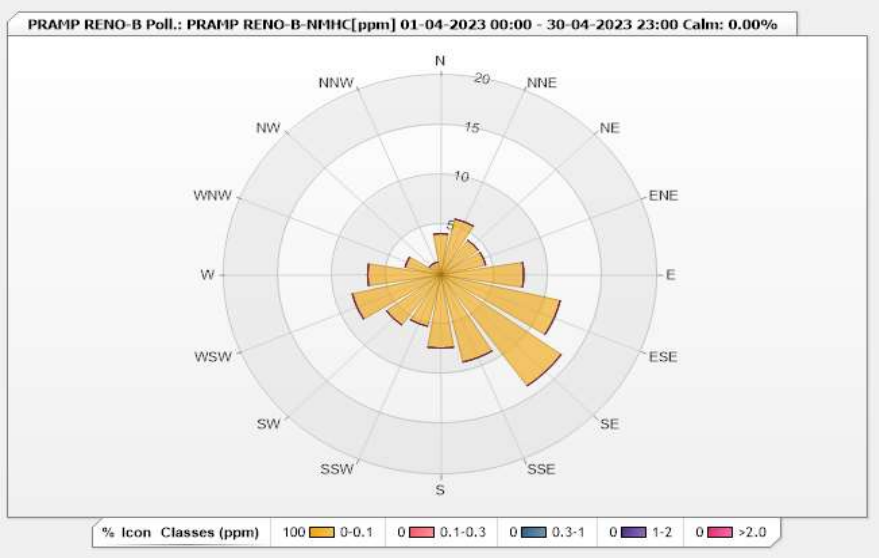


Station: PRAMP RENO-B Poll.: PRAMP RENO-B-NMHC[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	4.12	0	0	0	0	4.12
NNE	5.74	0	0	0	0	5.74
NE	4.26	0	0	0	0	4.26
ENE	4.26	0	0	0	0	4.26
E	7.65	0	0	0	0	7.65
ESE	11.32	0	0	0	0	11.32
SE	13.68	0	0	0	0	13.68
SSE	8.97	0	0	0	0	8.97
S	7.35	0	0	0	0	7.35
SSW	5.29	0	0	0	0	5.29
SW	6.18	0	0	0	0	6.18
WSW	8.38	0	0	0	0	8.38
W	6.76	0	0	0	0	6.76
WNW	3.38	0	0	0	0	3.38
NW	1.32	0	0	0	0	1.32
NNW	1.32	0	0	0	0	1.32
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

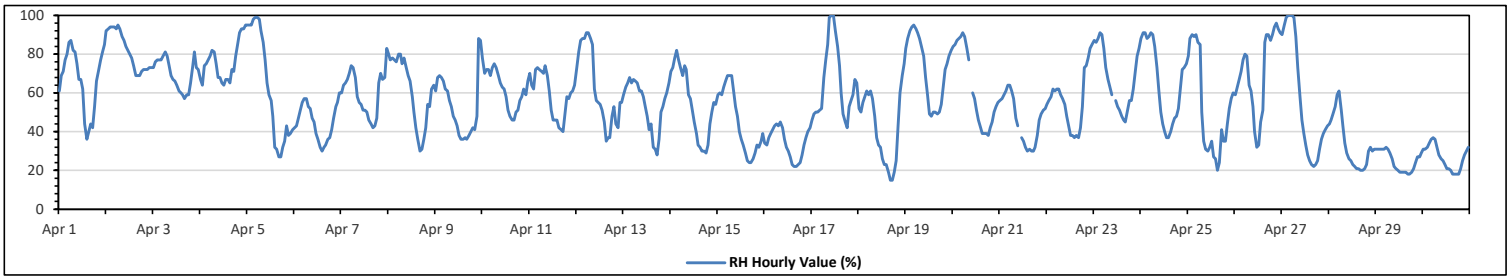
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Apr 17 at hr 10	Hours in Service:	720
Maximum Daily Value:	81.8	%	on Apr 2	Hours of Data:	717
Minimum Hourly Value:	15	%	on Apr 18 at hr 16	Hours of Missing Data:	3
Minimum Daily Value:	24.8	%	on Apr 29	Hours of Calibration:	0
Monthly Average:	56.3	%		Operational Uptime:	99.6

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	61	69	71	77	80	86	87	82	81	75	67	67	62	44	36	40	44	42	53	66	71	77	81	85	36	87	66.8
Apr 2	92	93	94	94	94	93	95	93	89	87	84	82	80	78	74	69	69	69	71	72	72	72	73	73	69	95	**81.8**
Apr 3	73	76	77	77	77	79	81	79	74	69	67	66	64	61	60	59	57	59	59	65	74	81	73	72	57	81	70.0
Apr 4	67	64	74	75	77	79	82	81	75	68	68	65	64	67	67	65	72	71	79	85	91	93	93	95	64	95	75.7
Apr 5	95	95	95	98	99	99	98	92	86	77	65	59	56	48	32	31	27	27	32	35	43	38	39	41	27	99	62.8
Apr 6	42	43	47	51	55	57	57	53	52	47	45	39	36	32	30	32	33	36	37	41	47	53	55	60	30	60	45.0
Apr 7	60	64	65	67	70	74	73	68	58	55	54	51	51	50	46	44	42	43	47	65	70	67	68	83	42	83	59.8
Apr 8	80	77	78	77	76	80	80	75	78	73	69	66	58	50	42	36	30	31	36	42	54	53	62	64	30	80	61.1
Apr 9	61	68	69	68	66	62	61	56	53	48	46	43	38	36	36	37	36	38	40	42	41	48	88	87	36	88	52.8
Apr 10	78	70	72	72	69	73	75	73	69	65	63	62	58	51	48	46	46	50	51	56	58	62	59	66	46	78	62.2
Apr 11	70	64	62	72	73	72	71	70	74	69	61	51	46	46	46	42	41	40	49	58	57	60	61	64	40	74	59.1
Apr 12	73	81	87	88	88	91	91	88	85	62	56	55	54	51	45	35	37	37	48	53	44	42	55	55	35	91	62.5
Apr 13	59	63	65	68	65	67	66	65	61	61	58	53	48	41	44	32	31	28	36	50	53	57	60	65	28	68	54.0
Apr 14	71	73	78	82	77	73	69	74	72	59	57	51	45	39	33	32	30	30	29	33	44	50	55	54	29	82	54.6
Apr 15	59	60	59	63	66	69	69	69	61	53	48	40	36	33	29	25	24	24	26	29	33	32	35	39	24	69	45.0
Apr 16	34	33	37	39	41	43	44	43	45	42	36	32	30	27	23	22	22	23	24	28	33	37	40	42	22	45	34.2
Apr 17	46	49	50	50	51	52	68	77	85	99	**100**	**100**	92	84	74	60	49	45	42	53	56	59	67	65	42	**100**	65.5
Apr 18	52	50	55	58	61	59	61	57	48	37	33	32	26	23	23	19	**15**	**15**	19	25	43	60	69	75	**15**	75	42.3
Apr 19	83	88	92	94	95	93	91	88	84	79	68	59	49	48	50	50	49	50	54	63	72	75	79	82	48	95	72.3
Apr 20	84	85	87	88	89	91	89	83	77	Y	60	57	51	46	42	39	39	39	38	42	45	50	53	55	38	91	62.1
Apr 21	56	57	59	61	64	64	61	57	47	43	K	37	35	32	30	31	30	30	32	38	46	49	51	52	30	64	46.2
Apr 22	54	56	58	62	61	62	62	59	57	54	48	43	38	38	37	38	37	42	53	73	74	78	83	85	37	85	56.3
Apr 23	87	86	88	91	90	83	73	67	63	59	K	56	53	51	48	46	45	50	56	56	62	72	79	83	45	91	67.1
Apr 24	88	91	91	88	89	91	90	84	73	61	50	44	40	37	37	40	44	47	48	52	62	72	73	75	37	91	65.3
Apr 25	79	88	90	89	90	86	85	50	35	31	30	32	35	27	26	20	24	41	35	35	44	52	57	60	20	90	51.7
Apr 26	59	63	67	71	77	80	79	64	61	53	40	32	33	45	51	86	90	90	87	90	94	96	93	91	32	96	70.5
Apr 27	90	95	99	**100**	**100**	**100**	99	89	73	58	46	39	33	28	25	23	22	23	25	31	36	39	41	43	22	**100**	56.5
Apr 28	44	46	49	53	59	61	51	43	34	29	26	25	23	22	21	21	20	20	21	23	30	32	30	31	20	61	33.9
Apr 29	31	31	31	31	31	32	31	29	26	22	21	20	19	19	19	19	18	18	19	21	24	27	27	29	18	32	**24.8**
Apr 30	31	31	32	34	36	37	36	32	28	26	25	23	21	21	20	18	18	18	18	21	25	28	30	32	18	37	26.7
Diurnal Maximum	95	95	99	100	100	100	99	93	89	99	100	100	92	84	74	86	90	90	87	90	94	96	93	95			
Diurnal Average	65.3	67.0	69.3	71.3	72.2	72.9	72.5	68.0	63.5	57.3	53.3	49.4	45.8	42.5	39.8	38.6	38.0	39.2	42.1	48.1	53.3	57.0	61.0	63.4			

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

Reno-B Station - April 2023

Summary of Hourly Averages

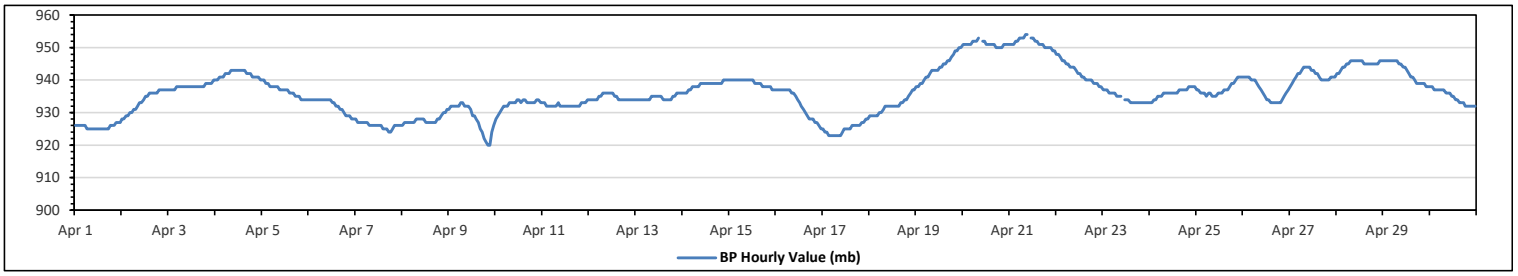
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	954	mb	on Apr 21 at hr 8	Hours in Service:	720	
Maximum Daily Value:	952	mb	on Apr 21	Hours of Data:	717	
Minimum Hourly Value:	920	mb	on Apr 9 at hr 20	Hours of Missing Data:	3	
Minimum Daily Value:	925	mb	on Apr 17	Hours of Calibration:	0	
Monthly Average:	936	mb		Operational Uptime:	99.6	

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
Apr 1	926	926	926	926	926	926	925	925	925	925	925	925	925	925	925	925	925	925	926	926	926	927	927	927	925	927	926
Apr 2	928	928	929	929	930	930	931	931	932	933	933	934	935	935	936	936	936	936	936	937	937	937	937	937	928	937	933
Apr 3	937	937	937	937	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	939	939	939	939	940	937	940	938
Apr 4	940	940	941	941	941	942	942	942	943	943	943	943	943	943	943	943	942	942	942	941	941	941	941	940	940	943	942
Apr 5	940	940	939	939	938	938	938	938	938	937	937	937	937	937	936	936	936	935	935	935	934	934	934	934	934	940	937
Apr 6	934	934	934	934	934	934	934	934	934	934	934	934	933	933	932	932	931	931	930	929	929	929	928	928	928	934	932
Apr 7	928	927	927	927	927	927	927	926	926	926	926	926	926	926	925	925	925	924	924	925	926	926	926	926	924	928	926
Apr 8	926	927	927	927	927	927	927	928	928	928	928	928	927	927	927	927	927	927	928	928	929	930	930	931	926	931	928
Apr 9	931	932	932	932	932	932	933	933	932	932	932	931	929	929	928	927	925	924	922	921	**920**	**920**	924	926	**920**	933	928
Apr 10	928	929	930	931	932	932	932	933	933	933	933	934	934	933	934	934	933	933	933	933	933	934	934	933	928	934	933
Apr 11	933	933	932	932	932	932	932	932	933	932	932	932	932	932	932	932	932	932	932	932	933	933	933	934	932	934	932
Apr 12	934	934	934	934	934	935	935	936	936	936	936	936	936	935	935	934	934	934	934	934	934	934	934	934	934	936	935
Apr 13	934	934	934	934	934	934	934	934	935	935	935	935	935	935	934	934	934	934	934	935	935	936	936	936	934	936	935
Apr 14	936	936	936	937	937	938	938	938	938	939	939	939	939	939	939	939	939	939	939	939	939	940	940	940	936	940	938
Apr 15	940	940	940	940	940	940	940	940	940	940	940	940	940	939	939	939	939	938	938	938	938	938	937	937	937	940	939
Apr 16	937	937	937	937	937	937	937	937	936	936	935	934	933	932	931	930	929	928	928	928	927	927	926	925	925	937	933
Apr 17	925	924	924	923	923	923	923	923	923	923	924	925	925	925	925	926	926	926	926	926	927	927	928	928	923	928	**925**
Apr 18	929	929	929	929	929	930	930	931	932	932	932	932	932	932	932	932	933	933	934	934	935	936	937	937	929	937	932
Apr 19	938	938	939	939	940	941	941	942	943	943	943	943	944	944	945	945	946	946	947	948	949	949	950	950	938	950	944
Apr 20	951	951	951	951	951	952	952	952	953	**Y**	952	952	951	951	951	951	951	950	950	950	950	951	951	951	950	953	951
Apr 21	951	951	951	952	952	953	953	953	**954**	**954**	**K**	953	953	952	952	951	951	951	950	950	950	950	949	949	949	**954**	**952**
Apr 22	948	948	947	946	946	945	945	944	944	944	943	942	942	941	941	940	940	940	940	939	939	939	938	938	938	948	942
Apr 23	937	937	937	936	936	936	936	935	935	935	**K**	934	934	934	933	933	933	933	933	933	933	933	933	933	933	937	934
Apr 24	933	933	934	934	935	935	935	936	936	936	936	936	936	936	936	937	937	937	937	937	938	938	938	938	933	938	936
Apr 25	937	937	936	936	936	935	936	936	935	935	935	936	936	936	937	937	937	938	939	939	940	941	941	941	935	941	937
Apr 26	941	941	941	941	940	940	940	939	938	937	936	935	934	934	933	933	933	933	933	933	934	935	936	937	933	941	937
Apr 27	938	939	940	941	942	942	943	944	944	944	944	943	943	942	942	941	940	940	940	940	940	941	941	941	938	944	941
Apr 28	942	942	943	944	944	945	945	946	946	946	946	946	946	946	945	945	945	945	945	945	945	945	946	946	942	946	945
Apr 29	946	946	946	946	946	946	946	946	945	945	944	944	943	942	941	941	940	939	939	939	939	939	938	938	938	946	943
Apr 30	938	938	937	937	937	937	937	937	936	936	936	935	935	934	934	933	933	933	932	932	932	932	932	932	932	938	935
Diurnal Maximum	951	951	951	952	952	953	953	953	954	954	952	953	953	952	952	951	951	951	950	950	950	951	951	951			
Diurnal Average	936	936	936	936	937	937	937	937	937	936	936	937	937	936	936	936	936	935	935	936	936	936	936	936			

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 - April 2023

Summary of Hourly Averages

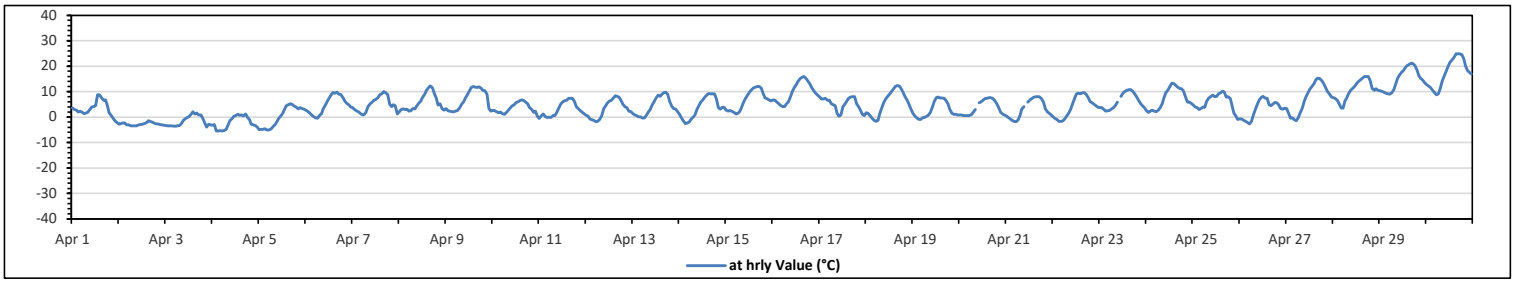
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	24.9	°C	on Apr 30 at hr 16	Hours in Service:	720
Maximum Daily Value:	17.4	°C	on Apr 30	Hours of Data:	717
Minimum Hourly Value:	-5.4	°C	on Apr 4 at hr 2	Hours of Missing Data:	3
Minimum Daily Value:	-2.7	°C	on Apr 2	Hours of Calibration:	0
Monthly Average:	5.0	°C		Operational Uptime:	99.6

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
Apr 1	3.6	3	2.7	1.9	2.3	1.9	1.4	1.6	2	2.9	4	4.2	4.4	8.7	8.8	7.5	6.6	6.8	4.3	1.7	0.6	-0.5	-1.5	-2.2	-2.2	8.8	3.2
Apr 2	-2.8	-2.5	-2.3	-2.3	-3	-3.1	-3.4	-3.5	-3.4	-3.5	-3.1	-2.9	-2.8	-2.5	-2.2	-1.4	-1.7	-2	-2.4	-2.7	-2.7	-2.9	-3.1	-3.2	-3.5	-1.4	**-2.7**
Apr 3	-3.3	-3.5	-3.5	-3.5	-3.6	-3.6	-3.5	-3.3	-2.5	-1.3	-0.7	-0.2	0.2	1.3	2.1	1.3	1.6	0.9	0.8	-0.5	-2.4	-3.9	-2.8	-3.1	-3.9	2.1	-1.5
Apr 4	-3.2	-2.9	**-5.4**	**-5.4**	-5.3	**-5.4**	-5.3	-4.8	-3.1	-1.3	-0.7	0.3	0.6	1.1	0.7	0.9	0.4	1.2	-0.2	-1.1	-2.8	-3.1	-3.3	-3.9	**-5.4**	1.2	-2.2
Apr 5	-5	-4.8	-4.8	-4.6	-5.1	-5.1	-4.7	-3.8	-3	-1.9	-0.5	0.3	1.4	2.9	4.5	4.9	5.2	5	4.3	4	3.2	3.8	3.4	3.1	-5.1	5.2	0.1
Apr 6	2.8	2.2	1.6	0.9	0.2	-0.3	-0.4	0.7	1.4	3.2	4.7	6.2	7.5	8.7	9.6	9.4	9.7	9	8.9	7.6	6.3	5.4	4.9	4	-0.4	9.7	4.8
Apr 7	3.7	3	2.5	2.1	1.5	0.9	1	2	4.2	5.2	5.9	6.7	7	7.7	8.8	9.1	10	9.6	8.7	5	4.2	4.8	4.4	1.3	0.9	10.0	5.0
Apr 8	2.1	2.9	3.2	3	3.1	2.4	2.5	3.3	3.2	4.5	5.5	6.2	7.7	8.9	10.5	11.5	12.3	11.4	9.4	7.7	4.7	5.2	3.2	2.7	2.1	12.3	5.7
Apr 9	3.4	2.5	2.3	2.1	2.1	2.4	2.6	3.7	5.1	6	7.4	8.6	10.3	11.6	12.1	11.8	11.6	11.9	11.4	10.5	10.4	9	3.4	2.4	2.1	12.1	6.9
Apr 10	2.6	2.6	2.1	1.7	1.9	1.4	1.1	1.7	2.6	3.5	4.3	4.9	5.7	6	6.5	6.8	6.5	5.9	5.2	3.8	3	1.8	2.3	0.4	0.4	6.8	3.5
Apr 11	-0.5	0.5	1.2	0.2	-0.2	0	-0.1	0.6	0.6	1.8	3.8	5.2	6	6.4	6.7	7.3	7.3	7.3	6.3	4.2	3.3	2.6	2	1.4	-0.5	7.3	3.1
Apr 12	0.7	0.3	-0.8	-1.1	-1.3	-1.8	-1.6	-0.9	0.3	3.3	4.5	5.5	6.2	6.6	7.5	8.4	8.2	7.8	6.5	5	4.2	3.8	2.4	2.1	-1.8	8.4	3.2
Apr 13	1.4	0.8	0.6	0.1	0.1	-0.4	-0.3	0.7	1.9	3	4.7	6	7.6	8.6	8.2	9	9.6	9.7	8.9	6.1	4.3	3.4	3.1	2.2	-0.4	9.7	4.1
Apr 14	1.2	-0.1	-1.5	-2.5	-2.3	-1.9	-0.8	0	0.9	2.9	4.4	5.8	6.9	7.9	8.5	9.3	9.1	9.2	9.1	7.1	3.7	3.1	3.9	3.9	-2.5	9.3	3.7
Apr 15	2.8	2.4	2.6	2.2	1.8	1.2	1.5	2.2	4	5.8	7.3	8.7	9.7	10.7	11.4	11.8	12	12	11.4	9.3	7.5	7.2	6.8	6.4	1.2	12.0	6.6
Apr 16	6.8	6.7	5.8	5.4	4.6	4.1	4.1	5.2	6	7.9	10	11.5	12.7	14	15.1	15.7	16	15.2	14.3	13	11.5	10.4	9.4	8.5	4.1	16.0	9.7
Apr 17	8.1	7.1	7.1	7.3	6.7	6.6	5.3	4.9	4.4	1.5	0.3	0.9	4	5.2	6.4	7.4	7.9	8.1	8	5.3	4.1	2.8	1.1	0.6	0.3	8.1	5.0
Apr 18	1.7	1.5	0.5	-0.5	-1.3	-1.7	-1.2	1.2	3.7	5.7	7.1	8.2	9.1	10	11	12	12.4	12.2	11	9.5	7.9	6.6	5	3.1	-1.7	12.4	5.6
Apr 19	1.5	0.4	-0.4	-0.9	-0.9	-0.3	-0.1	0.3	0.9	1.9	4	6.3	7.6	7.9	7.5	7.5	7.3	6.4	5.1	3.1	1.5	1.1	1.1	0.9	-0.9	7.9	2.9
Apr 20	0.9	0.8	0.6	0.6	0.6	0.5	1	2	3	**Y**	5.6	6	6.6	7.2	7.3	7.6	7.6	7.3	6.7	5.3	3.7	2	1.3	0.8	0.5	7.6	3.7
Apr 21	0.4	-0.2	-0.7	-1.3	-1.7	-1.8	-1.1	0.7	3.1	4.1	**K**	5.8	6.6	7.2	7.8	8.1	8.1	8	7.4	5.8	3.2	2.1	1.5	0.9	-1.8	8.1	3.2
Apr 22	0.1	-0.5	-1	-1.6	-1.6	-1.5	-0.8	0.3	1.6	3.1	5.3	7.2	9.1	9.4	9.2	9.5	9.6	9	7.6	6	5.7	5.1	4.4	3.9	-1.6	9.6	4.1
Apr 23	3.8	3.7	3.1	2.3	2.5	2.6	3.1	3.8	4.6	5.8	**K**	8.2	9.5	10.2	10.5	10.8	10.8	10.1	9.1	8.1	6.6	5.3	4.3	3.6	2.3	10.8	6.2
Apr 24	2.5	1.8	2.3	2.7	2.4	2.1	2.7	3.7	5.3	7.4	9.5	10.7	12	13.3	13.2	12.5	11.8	11.3	11.1	10.4	7.9	5.8	5.8	5.4	1.8	13.3	7.2
Apr 25	4.8	4	3.8	3	3.3	4	3.9	6.2	7.4	8.1	8.6	8.1	8.2	9.1	9.5	10.1	9.8	7.9	8	7.2	4.2	1.6	0.4	-1	-1.0	10.1	5.8
Apr 26	-0.7	-0.8	-1.3	-1.6	-2.2	-2.6	-1.6	0.9	2.9	5.3	6.9	7.8	8.2	7.5	7.4	4.8	4.4	5.1	5.7	5.6	4.8	3.3	3.1	3.5	-2.6	8.2	3.2
Apr 27	3.4	1.5	-0.4	-0.3	-1.1	-1.4	-0.3	1.6	3.6	6.3	7.9	9.4	10.9	12.1	13.1	14.7	15.3	15.2	14.4	13.3	11.8	10.2	9	7.9	-1.4	15.3	7.4
Apr 28	7.6	7.3	6.6	5.3	3.6	3.5	6.3	7.7	9.4	10.6	11.2	12.1	13.3	14	14.7	15.3	15.9	15.9	15.9	14.3	11.2	10.6	11.1	10.6	3.5	15.9	10.6
Apr 29	10.4	10.2	9.7	9.4	9.2	9	9.5	10.6	12.7	15	16.4	17.6	18.3	19.3	20.2	20.7	21.2	21	20.2	18.6	16.3	15.1	14.5	13.6	9.0	21.2	14.9
Apr 30	12.8	12.2	11.5	10.6	9.6	8.7	9.1	11.3	14.1	16.1	18.2	19.9	21.5	22.4	23.4	24.8	**24.9**	24.8	24.6	23.1	20.1	18.3	17.6	16.9	8.7	**24.9**	**17.4**
Diurnal Maximum	12.8	12.2	11.5	10.6	9.6	9.0	9.5	11.3	14.1	16.1	18.2	19.9	21.5	22.4	23.4	24.8	24.9	24.8	24.6	23.1	20.1	18.3	17.6	16.9			
Diurnal Average	2.5	2.1	1.6	1.2	0.9	0.7	1.0	2.0	3.2	4.6	5.8	6.8	7.9	8.8	9.3	9.6	9.7	9.4	8.7	7.2	5.6	4.7	4.0	3.2			

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

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



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

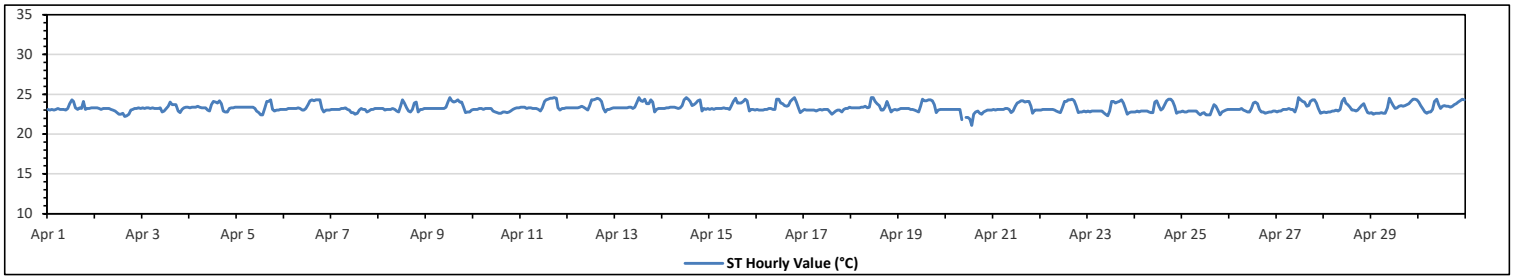
Maximum Hourly Value:	24.6	°C	on Apr 9 at hr 12	Hours in Service:	720	
Maximum Daily Value:	23.6	°C	on Apr 14	Hours of Data:	719	
Minimum Hourly Value:	21.1	°C	on Apr 20 at hr 13	Hours of Missing Data:	1	
Minimum Daily Value:	22.7	°C	on Apr 20	Hours of Calibration:	0	
Monthly Average:	23.3	°C		Operational Uptime:	99.9	

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
Apr 1	23.1	23.0	23.1	23.0	23.1	23.2	23.1	23.1	23.1	23.0	23.2	23.8	24.3	24.1	23.3	23.1	23.3	23.2	24.1	23.1	23.2	23.2	23.3	23.3	23.0	24.3	23.3
Apr 2	23.3	23.3	23.2	23.1	23.2	23.2	23.2	23.2	23.1	23.0	22.9	22.7	22.5	22.5	22.6	22.2	22.3	22.5	23.0	23.1	23.2	23.2	23.3	23.2	22.2	23.3	23.0
Apr 3	23.3	23.2	23.3	23.3	23.2	23.3	23.2	23.2	23.2	23.3	22.8	22.9	23.2	23.5	24.0	23.7	23.7	23.7	22.9	22.7	23.1	23.3	23.4	23.4	22.7	24.0	23.3
Apr 4	23.3	23.4	23.4	23.4	23.5	23.4	23.3	23.3	23.3	23.0	22.9	23.7	24.1	24.0	23.9	24.2	23.8	22.9	22.8	22.8	23.2	23.3	23.3	23.4	22.8	24.2	23.4
Apr 5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.2	22.9	22.7	22.4	22.4	23.3	24.1	24.1	24.3	23.1	22.9	23.0	23.0	23.1	23.1	22.4	24.3	23.3
Apr 6	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.3	23.2	23.0	23.0	23.2	23.7	24.2	24.3	24.2	24.3	24.3	24.3	23.2	22.8	23.0	23.0	23.0	22.8	24.3	23.4
Apr 7	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.3	23.1	23.0	22.7	22.7	22.5	22.6	23.0	23.2	23.1	23.1	22.8	22.9	23.1	23.1	23.2	23.2	22.5	23.3	23.0
Apr 8	23.2	23.2	23.2	23.0	23.1	23.1	23.1	23.2	23.1	22.9	22.8	23.5	24.3	23.9	23.3	22.9	22.8	23.1	23.9	24.0	22.8	23.1	23.1	23.2	22.8	24.3	23.2
Apr 9	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.4	24.0	**24.6**	24.2	24.0	24.1	24.3	24.0	24.0	23.4	22.7	22.8	22.8	23.0	22.7	**24.6**	23.5
Apr 10	23.1	23.1	23.1	23.2	23.2	23.1	23.2	23.2	23.2	23.2	22.9	22.8	22.7	22.6	22.6	22.8	22.8	22.7	22.8	22.9	23.1	23.2	23.3	23.3	22.6	23.3	23.0
Apr 11	23.4	23.4	23.4	23.2	23.3	23.3	23.2	23.2	23.2	23.1	22.9	23.3	24.1	24.3	24.4	24.5	24.5	**24.6**	24.5	23.3	23.0	23.2	23.2	23.3	22.9	**24.6**	23.6
Apr 12	23.3	23.3	23.3	23.3	23.3	23.3	23.4	23.5	23.4	23.2	23.0	23.6	24.3	24.3	24.4	24.5	24.4	24.1	23.2	22.8	23.1	23.1	23.2	23.3	22.8	24.5	23.5
Apr 13	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.2	23.4	24.0	**24.6**	24.2	24.1	24.4	23.8	23.8	24.3	24.0	22.8	23.1	23.2	23.2	22.8	**24.6**	23.6
Apr 14	23.2	23.2	23.3	23.3	23.4	23.4	23.4	23.3	23.2	23.3	23.6	24.3	**24.6**	24.4	24.1	23.6	23.7	23.9	24.2	24.3	22.9	23.2	23.1	23.2	22.9	**24.6**	**23.6**
Apr 15	23.1	23.2	23.1	23.2	23.2	23.2	23.2	23.3	23.2	23.2	23.1	23.6	24.1	24.5	23.9	23.9	23.9	24.1	24.4	24.2	22.9	23.1	23.1	23.0	22.9	24.5	23.5
Apr 16	23.1	23.0	23.0	23.0	23.1	23.1	23.2	23.2	23.1	23.1	24.4	24.4	23.9	23.8	23.6	23.5	23.6	24.1	24.4	**24.6**	24.0	23.2	22.7	22.9	22.7	**24.6**	23.5
Apr 17	23.1	23.0	23.0	23.0	23.0	23.0	22.9	23.0	23.1	23.0	23.1	23.1	23.1	22.8	22.5	22.7	22.9	23.0	23.0	22.8	23.1	23.2	23.2	23.4	22.5	23.4	23.0
Apr 18	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.5	23.3	23.4	**24.6**	**24.6**	24.1	23.8	23.6	23.0	23.0	23.4	24.1	23.5	22.8	23.0	23.1	23.0	22.8	**24.6**	23.5
Apr 19	23.1	23.2	23.2	23.2	23.2	23.2	23.1	23.1	23.0	22.9	22.8	23.5	24.4	24.2	24.2	24.3	24.3	24.2	23.7	22.7	23.0	23.1	23.1	23.1	22.7	24.4	23.4
Apr 20	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	21.8	Y	22.1	22.1	21.9	**21.1**	22.5	22.8	22.9	22.6	22.5	22.8	22.9	23.0	23.0	23.0	**21.1**	23.1	**22.7**
Apr 21	23.1	23.0	23.1	23.1	23.1	23.1	23.2	23.2	23.1	22.7	22.9	23.5	23.9	24.0	24.2	24.2	24.0	24.1	24.1	23.5	22.6	23.0	23.0	23.0	22.6	24.2	23.4
Apr 22	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.0	22.9	22.8	22.7	23.3	24.1	24.1	24.3	24.3	24.4	24.2	23.6	22.7	22.8	22.8	22.9	22.8	22.7	24.4	23.3
Apr 23	22.9	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.7	22.5	22.3	22.9	24.1	24.1	23.9	24.0	24.1	24.3	23.9	23.2	22.5	22.7	22.8	22.8	22.3	24.3	23.2
Apr 24	22.8	22.9	22.8	22.9	22.9	22.9	22.9	22.8	22.7	22.7	24.0	24.2	23.5	23.0	23.2	23.7	24.2	24.4	24.4	24.1	23.5	22.6	22.8	22.8	22.6	24.4	23.3
Apr 25	22.9	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.6	22.4	22.6	22.7	22.4	22.4	22.4	23.1	23.7	23.5	23.0	22.4	22.8	22.9	23.0	23.1	22.4	23.7	22.8
Apr 26	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.0	22.9	22.8	22.8	23.2	23.9	24.0	23.8	23.1	22.8	22.8	22.6	22.7	22.8	22.8	22.9	22.9	22.6	24.0	23.1
Apr 27	22.8	22.9	22.9	23.1	23.1	23.1	23.2	23.1	23.1	22.8	23.5	**24.6**	24.3	24.1	24.0	23.5	23.6	24.1	24.3	24.3	23.9	23.2	22.6	22.7	22.6	**24.6**	23.5
Apr 28	22.8	22.7	22.8	22.8	22.9	22.9	23.0	22.9	23.1	24.1	24.5	23.9	23.7	23.4	23.0	23.0	22.9	23.0	23.3	23.6	23.8	23.2	22.7	22.6	22.6	24.5	23.2
Apr 29	22.7	22.5	22.6	22.6	22.6	22.7	22.6	22.6	23.3	24.5	24.0	23.6	23.2	23.3	23.5	23.6	23.5	23.6	23.7	23.8	24.1	24.4	24.4	24.3	22.5	24.5	23.4
Apr 30	24.0	23.6	23.2	22.8	22.6	22.8	22.8	23.1	24.1	24.4	23.7	23.2	23.5	23.6	23.5	23.5	23.4	23.5	23.7	23.8	24.0	24.2	24.4	24.3	22.6	24.4	23.6
Diurnal Maximum	24.0	23.6	23.4	23.4	23.5	23.4	23.4	23.5	24.1	24.5	24.6	24.6	24.6	24.5	24.4	24.5	24.5	24.6	24.5	24.6	24.1	24.4	24.4	24.3			
Diurnal Average	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.1	23.1	23.2	23.5	23.7	23.6	23.6	23.6	23.6	23.6	23.6	23.3	23.1	23.1	23.1	23.2			

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

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

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



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

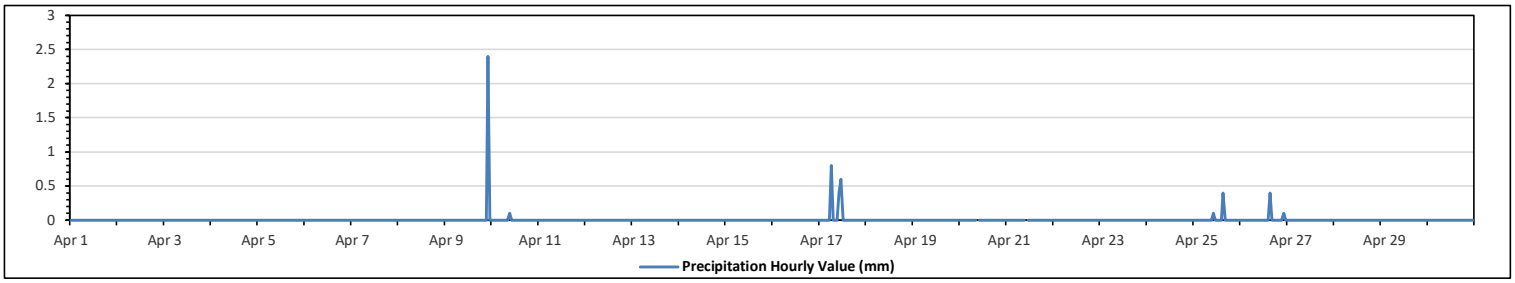
PRECIPITATION in mm

Maximum Hourly Value:	2.4	mm	on Apr 9 at hr 22	Hours in Service:	720
Maximum Daily Value:	2.4	mm	on Apr 9	Hours of Data:	718
Minimum Hourly Value:	0.0	mm	on Apr 1 at hr 0	Hours of Missing Data:	2
Minimum Daily Value:	0.0	mm	on Apr 1	Hours of Calibration:	0
Monthly Total:	5.3	mm		Operational Uptime:	99.7

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 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
Apr 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 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
Apr 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
Apr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2.4**	0	0.0	**2.4**	**2.4**
Apr 10	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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 17	0	0	0	0	0	0	0.8	0	0	0	0.4	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.8	1.8
Apr 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
Apr 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
Apr 20	0	0	0	0	0	0	0	0	0	**Y**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 21	0	0	0	0	0	0	0	0	0	0	**K**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 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
Apr 25	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0.0	0.4	0.5
Apr 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0.1	0	0.0	0.4	0.5
Apr 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
Apr 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
Apr 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
Apr 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	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.4	0.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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	0.1	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.



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

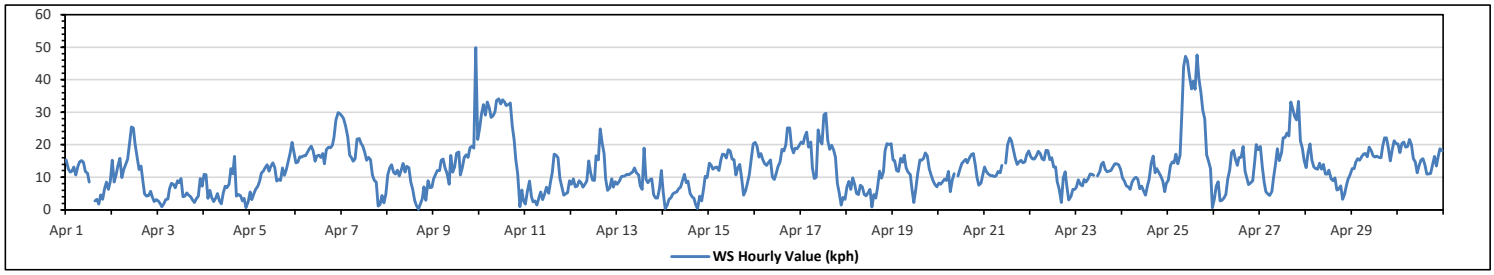
VECTOR WIND SPEED (VWS) in km/hr

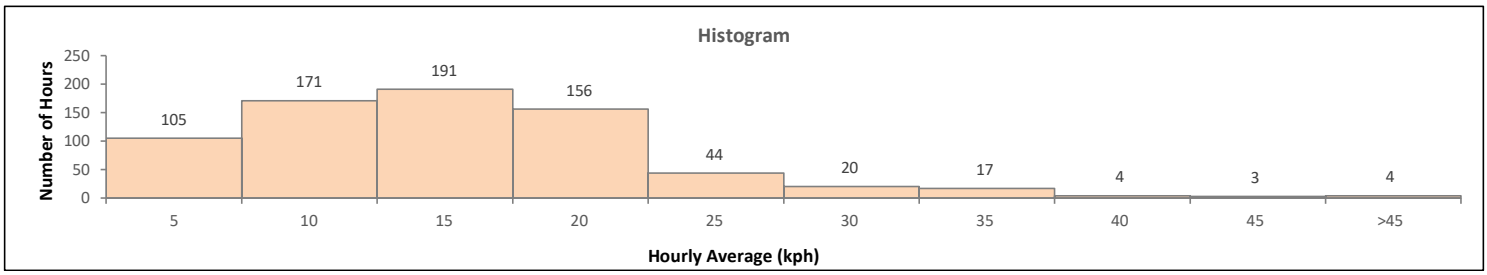
Maximum Hourly Value:	49.9	kph	on Apr 9 at hr 22	Hours in Service:	720
Maximum Daily Value:	27.1	kph	on Apr 25	Hours of Data:	715
Minimum Hourly Value:	0.2	kph	on Apr 8 at hr 16	Hours of Missing Data:	5
Minimum Daily Value:	5.1	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	4.1	kph		Operational Uptime:	99.3

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	15.3	12.5	11.5	11.9	13.1	10.7	13.5	14.7	15.1	14.6	11.8	11.2	8.5	X	X	2.7	3.2	1.7	4.6	3.2	6.4	8.5	6.3	8.7	1.7	15.3	9.5
Apr 2	15.2	8.5	10.8	13.7	15.8	9.9	12.3	13.9	15.5	20.3	25.5	25.2	20.5	16.0	12.3	13.4	8.6	4.9	4.2	4.4	5.7	4.0	2.5	3.1	2.5	25.5	11.9
Apr 3	2.8	1.8	0.9	1.8	3.1	3.3	6.5	8.1	7.8	6.7	8.9	8.4	9.6	4.0	4.2	5.2	4.5	4.0	3.0	2.2	3.4	4.2	9.6	7.2	0.9	9.6	**5.1**
Apr 4	10.9	10.8	3.5	6.0	3.7	2.5	3.5	5.0	2.7	1.8	5.2	7.2	6.7	7.9	12.6	11.1	16.4	4.2	4.7	4.3	2.8	3.5	0.7	2.5	0.7	16.4	5.8
Apr 5	5.4	3.1	4.8	6.3	7.2	8.9	11.3	11.9	13.0	13.8	11.9	13.5	14.5	13.0	8.8	9.3	9.0	12.8	10.6	12.3	14.9	17.5	20.7	17.6	3.1	20.7	11.3
Apr 6	14.4	14.6	16.3	16.2	16.6	16.6	17.7	18.7	19.6	18.1	14.9	16.5	16.8	16.1	17.3	14.1	18.4	19.2	19.1	19.8	22.3	27.6	29.9	29.5	14.1	29.9	18.8
Apr 7	28.8	28.0	25.8	22.4	16.8	16.1	14.9	15.7	21.7	21.9	20.5	19.6	17.7	15.2	16.1	15.4	10.7	9.0	8.5	1.2	1.6	4.4	2.1	4.8	1.2	28.8	15.0
Apr 8	10.7	12.8	13.8	11.6	11.0	12.2	10.4	12.2	14.2	11.5	13.3	13.0	8.5	6.2	2.9	1.5	**0.2**	1.8	3.4	7.1	2.9	8.9	6.8	6.9	**0.2**	14.2	8.5
Apr 9	9.4	10.8	12.0	12.0	15.2	15.6	12.9	11.3	7.8	16.7	11.6	13.1	17.4	17.8	10.7	13.0	16.1	16.9	16.1	19.1	19.6	19.0	**49.9**	21.6	7.8	**49.9**	16.1
Apr 10	25.0	29.5	32.3	29.1	33.1	31.5	28.4	28.9	30.1	33.6	34.1	32.6	33.8	33.1	32.1	32.3	32.8	25.8	21.4	15.5	11.1	0.9	6.1	2.8	0.9	34.1	25.7
Apr 11	1.7	5.5	8.8	4.1	2.4	2.8	1.5	3.9	5.4	3.1	4.8	6.9	5.1	8.2	11.4	17.1	16.8	16.0	9.6	7.1	4.5	4.9	5.3	8.9	1.5	17.1	6.9
Apr 12	7.8	9.5	7.1	7.3	8.9	8.4	6.9	7.8	8.8	15.0	11.4	9.1	9.0	16.6	15.3	24.9	20.5	17.3	9.4	5.9	6.8	9.5	6.9	8.6	5.9	24.9	10.8
Apr 13	7.8	8.8	10.2	10.3	10.4	10.9	10.8	11.3	11.6	12.8	11.4	10.7	7.4	6.2	19.0	9.3	8.4	9.2	9.5	4.6	3.6	3.6	6.5	12.0	3.6	19.0	9.4
Apr 14	5.2	0.3	1.3	3.2	3.7	4.9	5.3	5.4	6.4	6.9	8.9	10.9	8.3	8.8	5.0	4.0	3.5	1.6	0.4	4.2	2.7	6.5	10.3	9.9	0.3	10.9	5.3
Apr 15	14.3	13.6	12.5	13.0	13.2	12.1	15.3	17.1	17.0	15.9	18.4	18.1	15.6	15.4	10.7	12.9	14.0	9.6	4.5	5.8	8.2	10.9	15.7	20.2	4.5	20.2	13.5
Apr 16	20.7	19.6	16.2	17.3	15.4	14.1	13.7	14.5	15.3	10.1	9.3	11.2	13.2	14.8	18.6	18.1	20.0	25.2	25.2	19.3	17.5	19.0	18.8	19.9	9.3	25.2	17.0
Apr 17	20.8	20.3	22.4	23.9	19.3	20.9	12.9	9.6	10.0	24.6	21.0	20.2	29.2	29.6	21.3	18.6	19.9	18.4	16.2	8.1	5.1	1.5	3.8	3.2	1.5	29.6	16.7
Apr 18	7.1	8.7	6.3	9.8	7.8	5.0	4.7	7.5	7.0	4.7	4.3	5.1	6.2	0.8	4.7	3.6	6.5	11.9	9.7	11.7	18.1	20.3	20.0	20.4	0.8	20.4	8.8
Apr 19	15.3	15.1	12.1	11.8	15.8	14.6	16.8	12.9	11.6	10.8	6.5	2.2	6.3	11.1	15.3	15.2	15.7	17.5	16.6	12.7	10.7	8.9	7.7	7.0	2.2	17.5	12.1
Apr 20	8.2	7.9	8.6	9.4	9.0	11.8	5.6	9.1	11.1	Y	10.4	12.5	14.2	14.9	15.5	14.4	16.0	17.0	17.3	13.8	10.1	7.5	8.2	11.0	5.6	17.3	11.5
Apr 21	13.1	11.7	11.0	10.5	10.5	10.2	10.4	11.8	11.4	13.6	K	14.3	20.0	22.1	21.2	18.5	15.8	13.9	14.8	15.2	14.5	14.7	17.0	18.1	10.2	22.1	14.5
Apr 22	16.4	15.6	15.6	16.6	17.9	17.3	15.6	15.3	18.3	18.2	15.4	16.0	13.2	13.2	8.6	6.4	2.2	9.8	11.7	7.4	3.0	4.1	6.3	6.2	2.2	18.3	12.1
Apr 23	6.9	9.2	7.7	7.4	9.3	8.5	9.4	11.0	10.9	10.6	K	10.4	11.8	14.0	14.6	12.5	11.7	11.9	12.0	13.1	14.1	14.1	13.8	12.5	6.9	14.6	11.2
Apr 24	9.8	8.8	7.4	7.1	6.2	8.5	9.5	10.0	9.4	6.5	7.2	5.8	4.5	7.4	9.2	14.4	16.5	11.4	12.6	11.6	10.3	8.8	5.6	8.1	4.5	16.5	9.0
Apr 25	9.0	13.6	14.8	14.4	17.1	14.1	16.8	30.8	43.9	47.2	45.9	41.3	37.2	39.5	37.0	47.6	40.2	36.2	30.6	28.0	16.9	14.9	12.7	0.6	0.6	47.6	**27.1**
Apr 26	3.2	7.3	8.6	2.7	2.9	3.6	4.7	9.5	12.2	17.6	18.3	15.5	13.6	16.0	16.2	19.4	11.9	9.6	7.7	8.3	8.9	14.6	20.1	18.4	2.7	20.1	11.3
Apr 27	19.4	13.2	8.4	5.6	4.9	4.4	5.7	9.8	13.8	18.7	15.1	17.5	22.1	22.2	23.6	22.7	33.1	31.1	28.7	27.6	33.3	21.2	18.9	15.0	4.4	33.3	18.2
Apr 28	13.0	17.6	20.2	15.2	13.1	12.6	12.5	14.3	12.5	14.0	11.0	11.0	12.2	9.5	8.9	9.8	6.1	6.3	7.4	3.2	4.8	7.6	9.4	10.7	3.2	20.2	11.0
Apr 29	12.6	12.6	14.6	15.7	15.2	16.4	17.2	17.3	16.3	19.2	18.1	16.6	16.2	16.5	16.1	16.0	19.4	22.1	22.1	19.0	15.0	18.5	21.2	20.3	12.6	22.1	17.3
Apr 30	20.2	17.6	20.3	20.9	19.3	19.4	21.6	20.1	15.7	14.8	11.4	13.6	15.3	15.7	13.8	11.0	11.0	11.2	13.8	16.4	13.4	16.1	18.7	18.2	11.0	21.6	16.2
Diurnal Maximum	28.8	29.5	32.3	29.1	33.1	31.5	28.4	30.8	43.9	47.2	45.9	41.3	37.2	39.5	37.0	47.6	40.2	36.2	30.6	28.0	33.3	27.6	49.9	29.5			
Diurnal Average	12.3	12.3	12.2	11.9	11.9	11.6	11.6	13.0	13.9	15.3	14.5	14.3	14.5	14.9	14.6	14.5	14.3	13.6	12.5	11.1	10.4	10.9	12.7	11.8			

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.



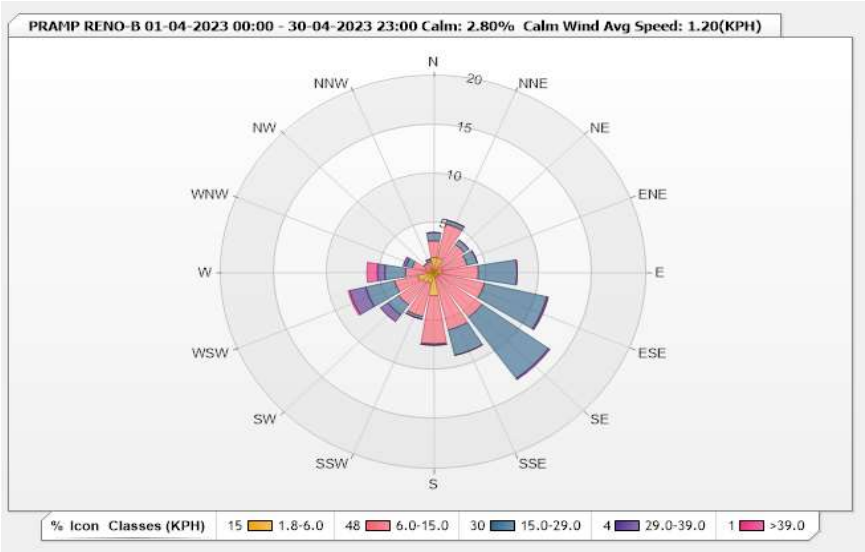


Station: PRAMP RENO-B Monitor: WDS [KPH] Monthly: 04-2023

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

Calm (WS<1.8kph): 2.80% Valid Data: 99.31%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.54	1.68	0.84	0	0	4.06
NNE	1.54	3.5	0.42	0	0	5.46
NE	0.42	3.08	0.56	0	0	4.06
ENE	0.84	2.38	0.98	0	0	4.2
E	0.84	3.36	3.64	0	0	7.84
ESE	0.56	4.34	6.01	0.14	0	11.05
SE	0.42	5.17	7.69	0.14	0	13.42
SSE	0.56	5.45	2.66	0	0	8.67
S	2.38	4.9	0.14	0	0	7.42
SSW	1.12	3.5	0.28	0	0	4.9
SW	1.26	2.8	1.26	0.84	0	6.16
WSW	1.54	2.24	2.8	1.54	0.14	8.26
W	0.56	2.1	1.96	0.7	0.98	6.3
WNW	0.84	1.26	0.56	0.28	0	2.94
NW	0.14	0.98	0	0	0	1.12
NNW	0.28	0.84	0.28	0	0	1.4
Summary	14.84	47.58	30.08	3.64	1.12	97.26



Peace River Area Monitoring Program

Reno-B Station - April 2023

Summary of Hourly Averages

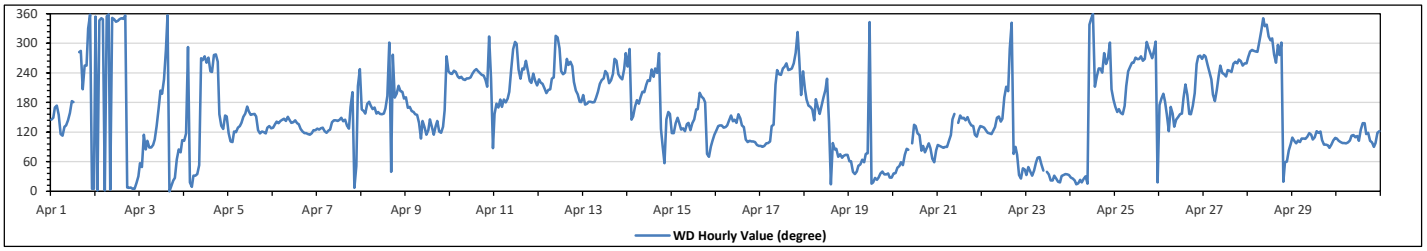
WIND DIRECTION (VWD) in sector

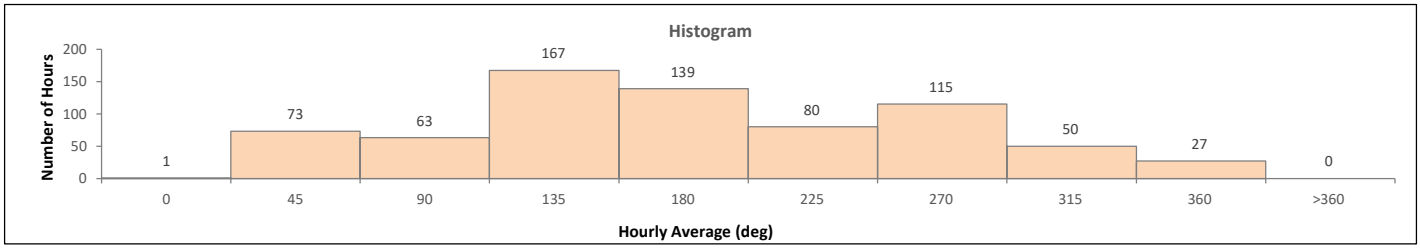
Monthly Average:	157 (SSE)	degree	
Hours in Service:	720		
Hours of Data:	715		
Hours of Missing Data:	5		
Hours of Calibration:	0		
Operational Uptime:	99.3		

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
Apr 1	SE	SSE	SSE	S	SSE	ESE	ESE	SE	SE	SE	SSE	S	S	X	X	W	WNW	SSW	WSW	WSW	NNW	N	N	N	148	SE
Apr 2	N	N	NNW	N	NNW	N	N	N	N	N	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	NNE	NNE	354	N
Apr 3	ENE	NE	ESE	E	E	E	E	E	ESE	SE	SSE	SSW	SSW	SW	WNW	N	N	NNE	NNE	NNE	ENE	E	ENE	ESE	102	E
Apr 4	E	ESE	WNW	NNE	N	NNE	NNE	NE	NE	W	W	W	W	W	WSW	WSW	W	W	W	SSE	SE	SE	SSE	SSE	261	W
Apr 5	ESE	E	E	ESE	ESE	SE	SE	SE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	137	SE
Apr 6	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	132	SE
Apr 7	SE	SE	SE	SE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	S	SSW	N	NE	SSW	WSW	135	SE
Apr 8	SSE	SSE	SSE	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	WNW	NE	W	S	SSW	SSW	SSW	SSW	S	172	S
Apr 9	S	SSE	S	SSE	SSE	SSE	SSE	SE	ESE	SE	SE	ESE	ESE	SE	SE	ESE	SE	SE	ESE	ESE	SE	SSE	W	WSW	154	SSE
Apr 10	WSW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	NW	SW	E	235	SW
Apr 11	SSE	S	SSE	S	S	S	S	S	SSW	WSW	WNW	WNW	WNW	WSW	SW	WSW	WSW	W	WSW	SW	SW	WSW	SW	SSW	234	SW
Apr 12	SW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	NW	NW	WNW	WSW	SW	WSW	W	WSW	W	WSW	SW	SSW	SSW	S	S	241	WSW
Apr 13	SSW	S	S	S	S	S	S	S	SSW	SW	SW	SW	WSW	WSW	SW	SW	SW	W	W	SW	SW	SW	WSW	W	216	SW
Apr 14	WSW	WNW	SE	SSE	S	S	S	S	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	W	SE	E	ENE	SE	SSE	SSE	198	SSW
Apr 15	ESE	ESE	SE	SSE	SE	SE	SE	ESE	SE	SE	ESE	SE	SE	SSE	SSE	SSW	S	S	S	ENE	ENE	E	E	ESE	136	SE
Apr 16	ESE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SSE	SE	SE	SE	ESE	E	E	E	E	E	E	E	122	ESE
Apr 17	E	E	E	E	E	E	SE	SE	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NW	W	SSW	WSW	215	SSW
Apr 18	SSW	S	S	S	SSE	SE	S	S	SSE	S	S	SSW	SW	SE	NNE	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	110	ESE
Apr 19	ENE	ENE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NNW	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE	42	NE
Apr 20	NE	NE	NE	NE	ENE	NE	ENE	E	E	Y	E	SE	SE	ESE	ESE	E	E	ENE	E	E	E	ENE	ENE	E	85	E
Apr 21	E	E	E	E	E	E	E	ESE	SE	SSE	K	SE	SSE	SE	SSE	SE	SSE	SE	SE	SE	ESE	ESE	SE	SE	128	SE
Apr 22	SE	SE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SE	SE	S	SSW	SSW	WNW	NNW	ENE	E	ENE	NNE	NNE	NE	NE	130	SE
Apr 23	NNE	NE	NE	NNE	NE	ENE	ENE	ENE	NE	NE	K	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	36	NE
Apr 24	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNW	NNW	N	SSW	SW	WSW	WSW	WSW	W	WSW	W	WNW	SSW	S	310	NW
Apr 25	S	SSE	SSE	SSE	SSE	S	SSW	WSW	WSW	W	W	W	W	W	W	W	W	WNW	WNW	W	W	WNW	WNW	NNE	260	WSW
Apr 26	S	S	SSW	S	SSE	ESE	S	SSE	SE	SE	SSE	SSE	SSE	S	SW	SSW	SSE	SSE	S	SSW	WSW	W	W	W	188	S
Apr 27	W	W	WSW	WSW	SW	SSW	S	SSW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	W	W	WSW	WSW	WSW	252	WSW
Apr 28	W	WNW	WNW	WNW	WNW	W	WNW	NW	N	NNW	NNW	NW	NW	NW	W	W	WNW	W	WNW	NNE	ENE	ENE	E	E	307	NW
Apr 29	ESE	E	E	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E	ESE	ESE	105	ESE
Apr 30	ESE	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	E	SE	SE	SE	ESE	ESE	E	E	E	E	ESE	ESE	108	ESE

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 - April 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	49.9	kph	on Apr 9 at hr 22	Hours in Service:	720
Maximum Daily Value:	27.1	kph	on Apr 25	Hours of Data:	715
Minimum Hourly Value:	0.2	kph	on Apr 8 at hr 16	Hours of Missing Data:	5
Minimum Daily Value:	5.1	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	4.1	kph		Operational Uptime:	99.3

WIND DIRECTION

Monthly Average: 157 degree (SSE)

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			
Apr 1	15.3	12.5	11.5	11.9	13.1	10.7	13.5	14.7	15.1	14.6	11.8	11.2	8.5	X	X	2.7	3.2	1.7	4.6	3.2	6.4	8.5	6.3	8.7	1.7	15.3	9.5
	SE	SSE	SSE	S	SSE	ESE	ESE	SE	SE	SE	SSE	S	S	X	X	W	WNW	SSW	WSW	WSW	NNW	N	N	N			
Apr 2	15.2	8.5	10.8	13.7	15.8	9.9	12.3	13.9	15.5	20.3	25.5	25.2	20.5	16.0	12.3	13.4	8.6	4.9	4.2	4.4	5.7	4.0	2.5	3.1	2.5	25.5	11.9
	N	N	NNW	N	NNW	N	N	N	N	N	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	NNE	NNE			
Apr 3	2.8	1.8	0.9	1.8	3.1	3.3	6.5	8.1	7.8	6.7	8.9	8.4	9.6	4.0	4.2	5.2	4.5	4.0	3.0	2.2	3.4	4.2	9.6	7.2	0.9	9.6	**5.1**
	ENE	NE	ESE	E	E	E	E	E	ESE	SE	SSE	SSW	SSW	SW	WNW	N	N	NNE	NNE	NNE	ENE	E	ENE	ESE			
Apr 4	10.9	10.8	3.5	6.0	3.7	2.5	3.5	5.0	2.7	1.8	5.2	7.2	6.7	7.9	12.6	11.1	16.4	4.2	4.7	4.3	2.8	3.5	0.7	2.5	0.7	16.4	5.8
	E	ESE	WNW	NNE	N	NNE	NNE	NE	NE	W	W	W	W	W	WSW	WSW	W	W	W	SSE	SE	SE	SSE	SSE			
Apr 5	5.4	3.1	4.8	6.3	7.2	8.9	11.3	11.9	13.0	13.8	11.9	13.5	14.5	13.0	8.8	9.3	9.0	12.8	10.6	12.3	14.9	17.5	20.7	17.6	3.1	20.7	11.3
	ESE	E	E	ESE	ESE	SE	SE	SE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE			
Apr 6	14.4	14.6	16.3	16.2	16.6	16.6	17.7	18.7	19.6	18.1	14.9	16.5	16.8	16.1	17.3	14.1	18.4	19.2	19.1	19.8	22.3	27.6	29.9	29.5	14.1	29.9	18.8
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE			
Apr 7	28.8	28.0	25.8	22.4	16.8	16.1	14.9	15.7	21.7	21.9	20.5	19.6	17.7	15.2	16.1	15.4	10.7	9.0	8.5	1.2	1.6	4.4	2.1	4.8	1.2	28.8	15.0
	SE	SE	SE	SE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	S	SSW	N	NE	SSW	WSW			
Apr 8	10.7	12.8	13.8	11.6	11.0	12.2	10.4	12.2	14.2	11.5	13.3	13.0	8.5	6.2	2.9	1.5	**0.2**	1.8	3.4	7.1	2.9	8.9	6.8	6.9	**0.2**	14.2	8.5
	SSE	SSE	SSE	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	WNW	NE	W	S	SSW	SSW	SSW	SSW	S			
Apr 9	9.4	10.8	12.0	12.0	15.2	15.6	12.9	11.3	7.8	16.7	11.6	13.1	17.4	17.8	10.7	13.0	16.1	16.9	16.1	19.1	19.6	19.0	**49.9**	21.6	7.8	**49.9**	16.1
	S	SSE	S	SSE	SSE	SSE	SSE	SE	ESE	SE	SE	ESE	ESE	SE	SE	ESE	SE	SE	ESE	ESE	SE	SSE	W	WSW			
Apr 10	25.0	29.5	32.3	29.1	33.1	31.5	28.4	28.9	30.1	33.6	34.1	32.6	33.8	33.1	32.1	32.3	32.8	25.8	21.4	15.5	11.1	0.9	6.1	2.8	0.9	34.1	25.7
	WSW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	NW	SW	E			
Apr 11	1.7	5.5	8.8	4.1	2.4	2.8	1.5	3.9	5.4	3.1	4.8	6.9	5.1	8.2	11.4	17.1	16.8	16.0	9.6	7.1	4.5	4.9	5.3	8.9	1.5	17.1	6.9
	SSE	S	SSE	S	S	S	S	S	SSW	WSW	WNW	WNW	WNW	WSW	SW	WSW	WSW	W	WSW	SW	SW	WSW	SW	SSW			
Apr 12	7.8	9.5	7.1	7.3	8.9	8.4	6.9	7.8	8.8	15.0	11.4	9.1	9.0	16.6	15.3	24.9	20.5	17.3	9.4	5.9	6.8	9.5	6.9	8.6	5.9	24.9	10.8
	SW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	NW	NW	WNW	WSW	SW	WSW	W	WSW	W	WSW	SW	SSW	SSW	S	S			
Apr 13	7.8	8.8	10.2	10.3	10.4	10.9	10.8	11.3	11.6	12.8	11.4	10.7	7.4	6.2	19.0	9.3	8.4	9.2	9.5	4.6	3.6	3.6	6.5	12.0	3.6	19.0	9.4
	SSW	S	S	S	S	S	S	S	SSW	SW	SW	SW	WSW	WSW	SW	SW	SW	W	W	SW	SW	SW	WSW	W			
Apr 14	5.2	0.3	1.3	3.2	3.7	4.9	5.3	5.4	6.4	6.9	8.9	10.9	8.3	8.8	5.0	4.0	3.5	1.6	0.4	4.2	2.7	6.5	10.3	9.9	0.3	10.9	5.3
	WSW	WNW	SE	SSE	S	S	S	S	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	W	SE	E	ENE	SE	SSE	SSE			
Apr 15	14.3	13.6	12.5	13.0	13.2	12.1	15.3	17.1	17.0	15.9	18.4	18.1	15.6	15.4	10.7	12.9	14.0	9.6	4.5	5.8	8.2	10.9	15.7	20.2	4.5	20.2	13.5
	ESE	ESE	SE	SSE	SE	SE	SE	ESE	SE	SE	ESE	SE	SE	SSE	SSE	SSW	S	S	S	ENE	ENE	E	E	ESE			
Apr 16	20.7	19.6	16.2	17.3	15.4	14.1	13.7	14.5	15.3	10.1	9.3	11.2	13.2	14.8	18.6	18.1	20.0	25.2	25.2	19.3	17.5	19.0	18.8	19.9	9.3	25.2	17.0
	ESE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SSE	SE	SE	SE	ESE	E	E	E	E	E	E	E			
Apr 17	20.8	20.3	22.4	23.9	19.3	20.9	12.9	9.6	10.0	24.6	21.0	20.2	29.2	29.6	21.3	18.6	19.9	18.4	16.2	8.1	5.1	1.5	3.8	3.2	1.5	29.6	16.7
	E	E	E	E	E	E	SE	SE	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NW	W	SSW	WSW			
Apr 18	7.1	8.7	6.3	9.8	7.8	5.0	4.7	7.5	7.0	4.7	4.3	5.1	6.2	0.8	4.7	3.6	6.5	11.9	9.7	11.7	18.1	20.3	20.0	20.4	0.8	20.4	8.8
	SSW	S	S	S	SSE	SE	S	S	SSE	S	S	SSW	SW	SE	NNE	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE			
Apr 19	15.3	15.1	12.1	11.8	15.8	14.6	16.8	12.9	11.6	10.8	6.5	2.2	6.3	11.1	15.3	15.2	15.7	17.5	16.6	12.7	10.7	8.9	7.7	7.0	2.2	17.5	12.1
	ENE	ENE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NNW	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE			
Apr 20	8.2	7.9	8.6	9.4	9.0	11.8	5.6	9.1	11.1	Y	10.4	12.5	14.2	14.9	15.5	14.4	16.0	17.0	17.3	13.8	10.1	7.5	8.2	11.0	5.6	17.3	11.5
	NE	NE	NE	NE	ENE	NE	ENE	E	E	Y	E	SE	SE	ESE	ESE	E	E	ENE	E	E	E	ENE	ENE	E			
Apr 21	13.1	11.7	11.0	10.5	10.5	10.2	10.4	11.8	11.4	13.6	K	14.3	20.0	22.1	21.2	18.5	15.8	13.9	14.8	15.2	14.5	14.7	17.0	18.1	10.2	22.1	14.5
	E	E	E	E	E	E	E	ESE	SE	SSE	K	SE	SSE	SE	SSE	SE	SSE	SE	SE	SE	ESE	ESE	SE	SE			
Apr 22	16.4	15.6	15.6	16.6	17.9	17.3	15.6	15.3	18.3	18.2	15.4	16.0	13.2	13.2	8.6	6.4	2.2	9.8	11.7	7.4	3.0	4.1	6.3	6.2	2.2	18.3	12.1
	SE	SE	ESE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SE	SE	S	SSW	SSW	WNW	NNW	ENE	E	ENE	NNE	NNE	NE	NE			
Apr 23	6.9	9.2	7.7	7.4	9.3	8.5	9.4	11.0	10.9	10.6	K	10.4	11.8	14.0	14.6	12.5	11.7	11.9	12.0	13.1	14.1	14.1	13.8	12.5	6.9	14.6	11.2
	NNE	NE	NE	NNE	NE	ENE	ENE	ENE	NE	NE	K	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE			
Apr 24	9.8	8.8	7.4	7.1	6.2	8.5	9.5	10.0	9.4	6.5	7.2	5.8	4.5	7.4	9.2	14.4	16.5	11.4	12.6	11.6	10.3	8.8	5.6	8.1	4.5	16.5	9.0
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNW	NNW	N	SSW	SW	WSW	WSW	WSW	W	WSW	W	WNW	SSW	S			
Apr 25	9.0	13.6	14.8	14.4	17.1	14.1	16.8	30.8	43.9	47.2	45.9	41.3	37.2	39.5	37.0	47.6	40.2	36.2	30.6	28.0	16.9	14.9	12.7	0.6	0.6	47.6	**27.1**
	S	SSE	SSE	SSE	SSE	S	SSW	WSW	WSW	W	W	W	W	W	W	W	W	WNW	WNW	W	W	WNW	WNW	NNE			
Apr 26	3.2	7.3	8.6	2.7	2.9	3.6	4.7	9.5	12.2	17.6	18.3	15.5	13.6	16.0	16.2	19.4	11.9	9.6	7.7	8.3	8.9	14.6	20.1	18.4	2.7	20.1	11.3
	S	S	SSW	S	SSE	ESE	S	SSE	SE	SE	SSE	SSE	SSE	S	SW	SSW	SSE	SSE	S	SSW	WSW	W	W	W			
Apr 27	19.4	13.2	8.4	5.6	4.9	4.4	5.7	9.8	13.8	18.7	15.1	17.5	22.1	22.2	23.6	22.7	33.1	31.1	28.7	27.6	33.3	21.2	18.9	15.0	4.4	33.3	18.2
	W	W	WSW	WSW	SW	SSW	S	SSW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	W	W	WSW	WSW	WSW			
Apr 28	13.0	17.6	20.2	15.2	13.1	12.6	12.5	14.3	12.5	14.0	11.0	11.0	12.2	9.5	8.9	9.8	6.1	6.3	7.4	3.2	4.8	7.6	9.4	10.7	3.2	20.2	11.0
	W	WNW	WNW	WNW	WNW	W	WNW	NW	N	NNW	NNW	NW	NW	NW	W	W	WNW	W	WNW	NNE	ENE	ENE	E	E			
Apr 29	12.6	12.6	14.6	15.7	15.2	16.4	17.2	17.3	16.3	19.2	18.1	16.6	16.2	16.5	16.1	16.0	19.4	22.1	22.1	19.0	15.0	18.5	21.2	20.3	12.6	22.1	17.3
	ESE	E	E	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E	ESE	ESE			
Apr 30	20.2	17.6	20.3	20.9	19.3	19.4	21.6	20.1	15.7	14.8	11.4	13.6	15.3	15.7	13.8	11.0	11.0	11.2	13.8	16.4	13.4	16.1	18.7	18.2	11.0	21.6	16.2
	ESE	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	E	SE	SE	SE	ESE	ESE	E	E	E	E	ESE	ESE			

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 - April 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

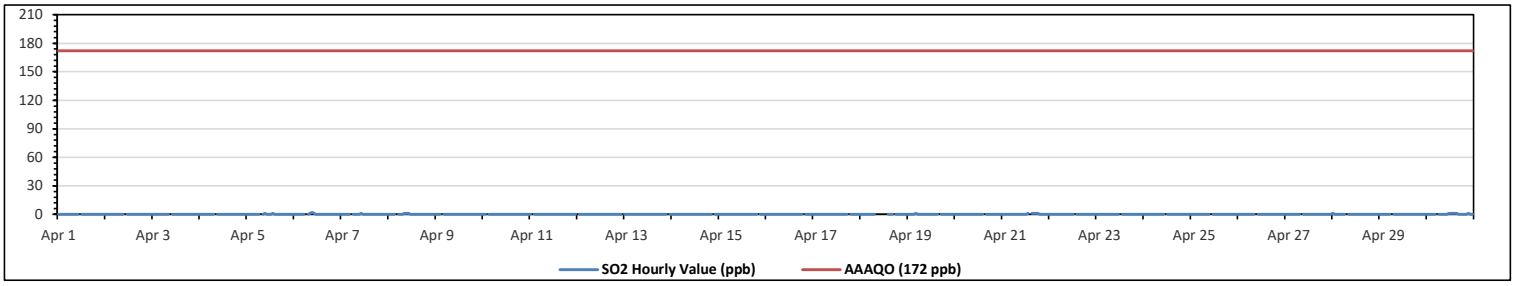
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

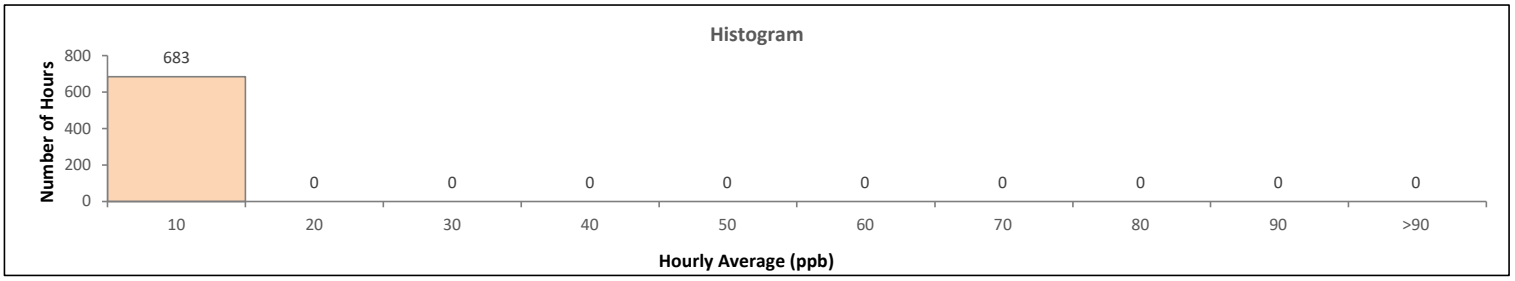
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0		
Maximum Hourly Value:	2	ppb	on Apr 6 at hr 9	Hours in Service:	720		
Maximum Daily Value:	0.3	ppb	on Apr 30	Hours of Data:	683		
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 0	Hours of Missing Data:	2		
Minimum Daily Value:	0.0	ppb	on Apr 1	Hours of Calibration:	35		
Monthly Average:	0.0	ppb		Operational Uptime:	99.7		

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

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



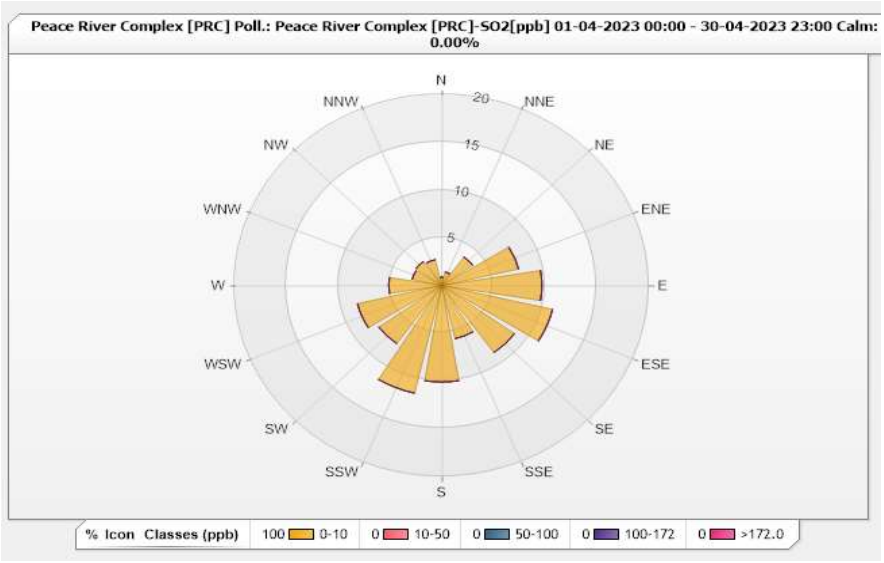


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 04-2023

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	0-10	10-50	50-100	100-172	>172.0	Total
N	0.88	0	0	0	0	0.88
NNE	1.46	0	0	0	0	1.46
NE	3.66	0	0	0	0	3.66
ENE	7.61	0	0	0	0	7.61
E	9.66	0	0	0	0	9.66
ESE	10.98	0	0	0	0	10.98
SE	8.64	0	0	0	0	8.64
SSE	5.71	0	0	0	0	5.71
S	10.1	0	0	0	0	10.1
SSW	11.57	0	0	0	0	11.57
SW	7.47	0	0	0	0	7.47
WSW	8.35	0	0	0	0	8.35
W	5.12	0	0	0	0	5.12
WNW	2.93	0	0	0	0	2.93
NW	3.07	0	0	0	0	3.07
NNW	2.78	0	0	0	0	2.78
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

HYDROGEN SULPHIDE (H_2S) in ppb

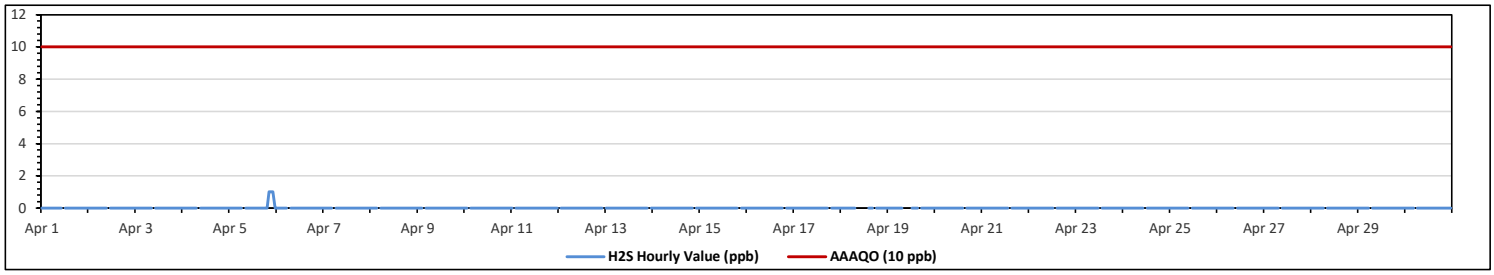
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb

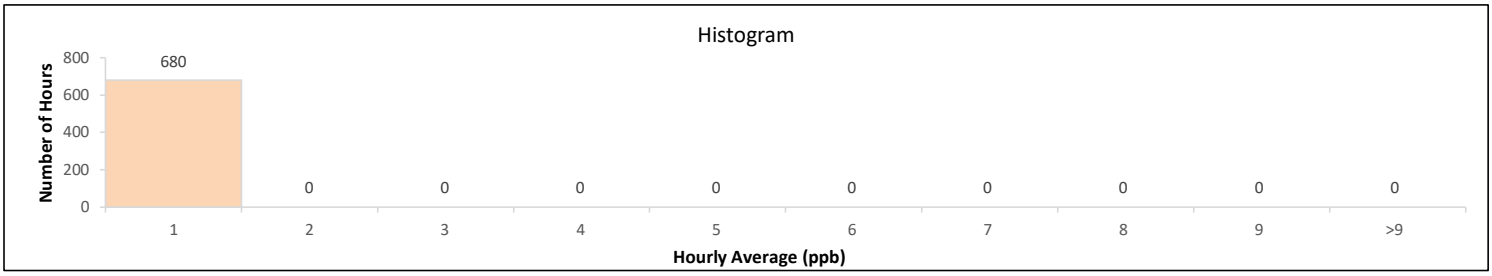
Number of 1-Hour Exceedances:	0		Number of 24-Hour Exceedances:	0		
Maximum Hourly Value:	1	ppb	on Apr 5 at hr 20	Hours in Service:	720	
Maximum Daily Value:	0.0	ppb	on Apr 1	Hours of Data:	680	
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 0	Hours of Missing Data:	5	
Minimum Daily Value:	0.0	ppb	on Apr 1	Hours of Calibration:	35	
Monthly Average:	0.0	ppb		Operational Uptime:	99.3	

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



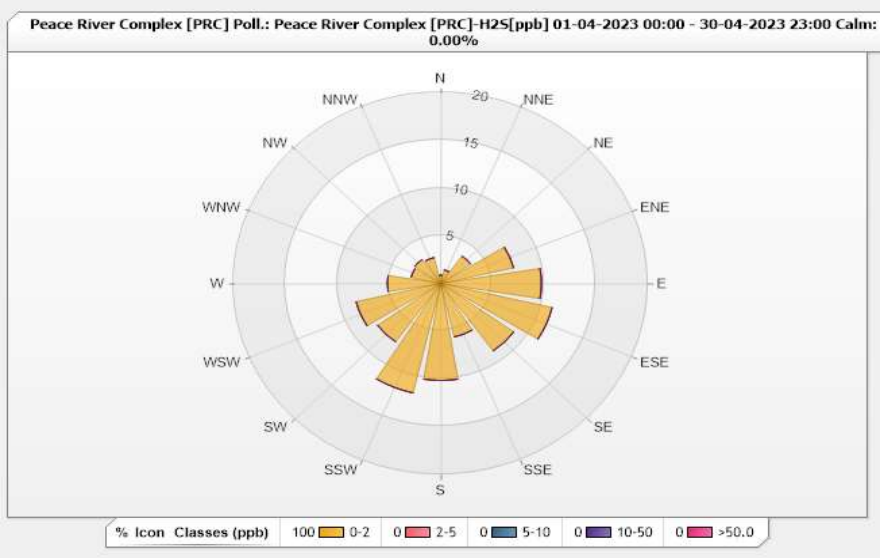


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	0.88	0	0	0	0	0.88
NNE	1.47	0	0	0	0	1.47
NE	3.53	0	0	0	0	3.53
ENE	7.21	0	0	0	0	7.21
E	9.71	0	0	0	0	9.71
ESE	11.03	0	0	0	0	11.03
SE	8.68	0	0	0	0	8.68
SSE	5.74	0	0	0	0	5.74
S	10.15	0	0	0	0	10.15
SSW	11.76	0	0	0	0	11.76
SW	7.5	0	0	0	0	7.5
WSW	8.38	0	0	0	0	8.38
W	5.15	0	0	0	0	5.15
WNW	2.94	0	0	0	0	2.94
NW	3.09	0	0	0	0	3.09
NNW	2.79	0	0	0	0	2.79
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

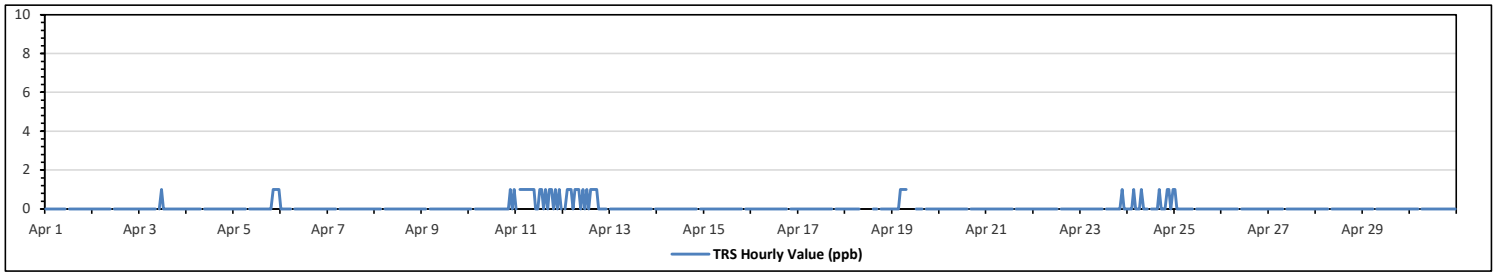
TOTAL REDUCED SULPHUR (TRS) in ppb

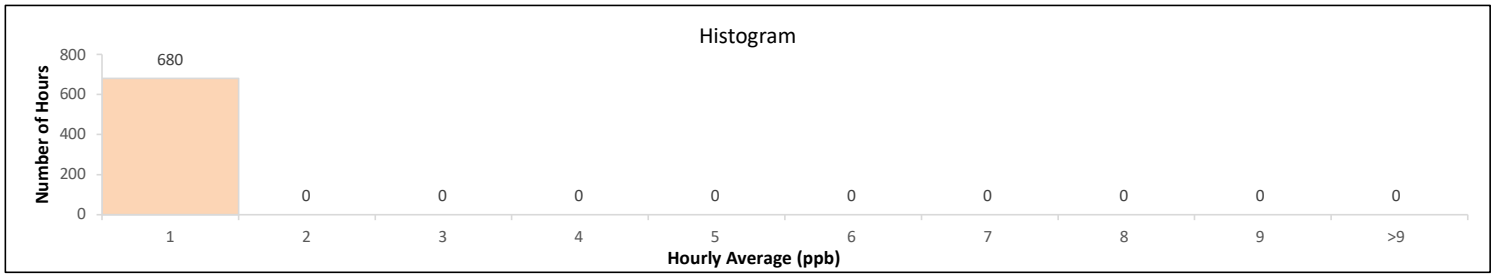
Maximum Hourly Value:	1	ppb	on Apr 3 at hr 11	Hours in Service:	720	
Maximum Daily Value:	0.7	ppb	on Apr 11	Hours of Data:	680	
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 0	Hours of Missing Data:	5	
Minimum Daily Value:	0.0	ppb	on Apr 1	Hours of Calibration:	35	
Monthly Average:	0.1	ppb		Operational Uptime:	99.3	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	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
Apr 2	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
Apr 3	0	0	0	0	0	0	0	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Apr 4	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
Apr 5	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0.2
Apr 6	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
Apr 7	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
Apr 8	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
Apr 9	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
Apr 10	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0.1
Apr 11	0	S	1	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	1	0	1	0	1	0	0	1	0.7
Apr 12	S	0	1	1	1	0	1	1	1	0	1	0	1	0	1	1	1	1	0	0	0	0	0	S	0	1	0.5
Apr 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Apr 14	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
Apr 15	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
Apr 16	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
Apr 17	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
Apr 18	0	0	0	0	0	0	0	0	NRM	NRM	NRM	NRM	0	NRM	0	0	0	S	0	0	0	0	0	0	0	0	0.0
Apr 19	0	0	0	0	1	1	1	1	C	C	C	C	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.2
Apr 20	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
Apr 21	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
Apr 22	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
Apr 23	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	1	0.0
Apr 24	0	0	0	1	0	0	0	1	0	0	0	S	0	0	0	0	1	0	0	0	1	1	0	1	0	1	0.3
Apr 25	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
Diurnal Maximum	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1			
Diurnal Average	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	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.



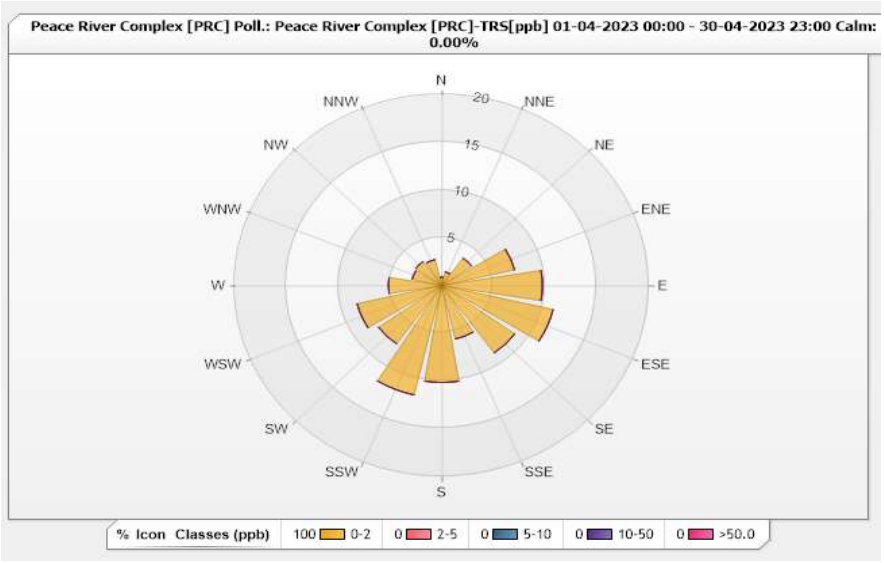


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 94.44% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	0.88	0	0	0	0	0.88
NNE	1.47	0	0	0	0	1.47
NE	3.53	0	0	0	0	3.53
ENE	7.21	0	0	0	0	7.21
E	9.71	0	0	0	0	9.71
ESE	11.03	0	0	0	0	11.03
SE	8.68	0	0	0	0	8.68
SSE	5.74	0	0	0	0	5.74
S	10.15	0	0	0	0	10.15
SSW	11.76	0	0	0	0	11.76
SW	7.5	0	0	0	0	7.5
WSW	8.38	0	0	0	0	8.38
W	5.15	0	0	0	0	5.15
WNW	2.94	0	0	0	0	2.94
NW	3.09	0	0	0	0	3.09
NNW	2.79	0	0	0	0	2.79
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

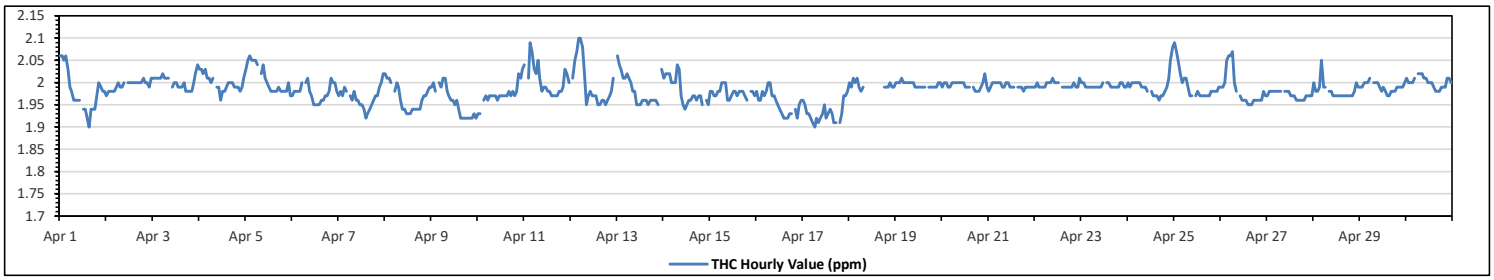
TOTAL HYDROCARBONS (THC) in ppm

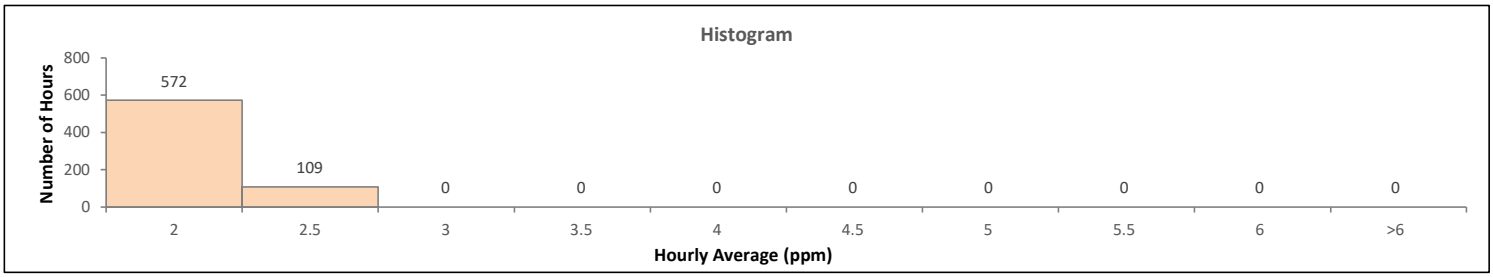
Maximum Hourly Value:	2.10	ppm	on Apr 12 at hr 4	Hours in Service:	720
Maximum Daily Value:	2.01	ppm	on Apr 5	Hours of Data:	681
Minimum Hourly Value:	1.90	ppm	on Apr 1 at hr 15	Hours of Missing Data:	3
Minimum Daily Value:	1.93	ppm	on Apr 17	Hours of Calibration:	36
Monthly Average:	1.98	ppm		Operational Uptime:	99.6

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.06	2.06	2.05	2.06	2.03	1.99	1.98	1.96	1.96	1.96	1.96	S	1.94	1.94	1.92	1.90	1.94	1.94	1.94	1.97	2.00	1.99	1.98	1.98	1.90	2.06	1.98
Apr 2	1.97	1.98	1.98	1.98	1.98	1.99	2.00	1.99	1.99	2.00	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	1.99	2.01	1.97	2.01	1.99
Apr 3	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	S	1.99	2.00	2.00	1.99	1.99	1.99	2.00	1.98	1.98	1.98	1.98	2.00	2.02	2.04	1.98	2.04	2.00
Apr 4	2.03	2.03	2.02	2.03	2.01	2.01	2.00	2.01	S	1.99	1.99	1.96	1.98	1.98	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.98	1.99	2.01	1.96	2.03	2.00
Apr 5	2.03	2.05	2.06	2.05	2.05	2.05	2.04	S	2.02	2.04	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.98	2.00	1.97	1.97	2.06	**2.01**
Apr 6	1.97	1.98	1.98	1.98	1.98	2.00	S	2.00	2.01	1.98	1.97	1.95	1.95	1.95	1.95	1.96	1.96	1.97	1.97	1.98	2.01	2.00	2.00	1.98	1.95	2.01	1.98
Apr 7	1.97	1.98	1.97	1.99	1.98	S	1.97	1.96	1.98	1.96	1.96	1.95	1.95	1.94	1.92	1.93	1.94	1.95	1.96	1.97	1.97	1.99	2.00	2.02	1.92	2.02	1.97
Apr 8	2.02	2.01	2.01	2.00	S	1.98	2.00	1.99	1.96	1.94	1.94	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.96	1.97	1.97	1.98	1.99	1.93	2.02	1.97
Apr 9	1.99	2.00	1.98	S	2.00	1.99	2.01	2.01	1.98	1.97	1.96	1.96	1.95	1.96	1.94	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.92	1.92	2.01	1.96
Apr 10	1.93	1.93	S	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.97	1.98	1.97	1.98	2.02	2.01	2.03	1.93	2.03	1.97
Apr 11	2.04	S	2.01	2.09	2.07	2.03	2.02	2.05	2.01	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.99	2.03	2.02	2.00	1.97	2.09	2.01
Apr 12	S	2.01	2.05	2.07	**2.10**	**2.10**	2.08	2.02	1.95	1.97	1.98	1.97	1.97	1.97	1.95	1.95	1.96	1.96	1.95	1.96	1.97	1.98	2.01	S	1.95	**2.10**	2.00
Apr 13	2.06	2.04	2.03	2.01	2.01	2.02	2.01	2.00	1.98	1.98	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.95	S	2.03	1.95	2.06	1.98
Apr 14	2.01	2.02	2.02	2.02	2.00	2.00	2.00	2.04	2.03	1.97	1.95	1.94	1.95	1.96	1.96	1.97	1.97	1.96	1.97	1.97	1.95	S	1.96	1.95	1.94	2.04	1.98
Apr 15	1.98	1.98	1.97	1.97	1.98	1.98	2.00	2.00	2.00	1.96	1.96	1.97	1.98	1.98	1.97	1.98	1.98	1.98	1.97	1.96	S	1.98	1.98	1.97	1.96	2.00	1.98
Apr 16	1.98	1.96	1.96	1.98	1.97	1.98	2.00	2.00	1.97	1.97	1.96	1.95	1.94	1.93	1.92	1.92	1.92	1.93	1.93	S	1.94	1.92	1.95	1.96	1.92	2.00	1.95
Apr 17	1.96	1.95	1.93	1.93	1.92	1.91	1.90	1.92	1.91	1.92	1.93	1.95	1.92	1.93	1.94	1.93	1.91	1.91	S	1.91	1.93	1.97	1.97	1.98	1.90	1.98	1.93
Apr 18	2.00	1.99	2.01	2.00	2.01	1.99	1.98	1.99	NRM	NRM	C	C	NRM	C	C	C	1.99	S	1.99	1.99	1.99	2.00	1.99	1.99	1.98	2.01	NA
Apr 19	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	S	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.01	2.00
Apr 20	1.99	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	S	1.99	1.98	1.98	1.98	1.99	2.00	2.02	1.99	1.98	2.02	1.99
Apr 21	1.98	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.00	1.99	1.99	1.99	S	1.99	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.98	2.00	1.99
Apr 22	1.99	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.01	2.00	2.00	2.00	S	1.99	1.99	1.99	1.99	1.99	1.99	2.00	1.99	1.99	2.01	1.99	2.01	2.00
Apr 23	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	S	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.99	2.00	1.99
Apr 24	2.00	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.98	S	1.98	1.97	1.97	1.97	1.96	1.97	1.97	1.98	1.99	2.01	2.05	2.08	1.96	2.08	1.99
Apr 25	2.09	2.07	2.05	2.02	2.00	2.01	2.01	1.99	1.97	1.97	S	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.97	2.09	1.99
Apr 26	1.99	1.99	2.00	2.05	2.06	2.06	2.07	2.00	1.98	S	1.97	1.96	1.96	1.96	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.98	1.97	1.95	2.07	1.98
Apr 27	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.96	1.98	1.97
Apr 28	2.00	1.98	1.98	1.99	2.05	1.99	1.99	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	2.00	1.99	1.97	2.05	1.98
Apr 29	1.99	1.99	2.00	2.00	2.00	2.01	S	2.00	2.00	2.00	1.99	1.98	1.99	1.98	1.97	1.97	1.98	1.98	1.98	1.99	1.99	1.99	1.99	2.00	1.97	2.01	1.99
Apr 30	2.01	2.00	2.00	2.00	2.01	S	2.02	2.02	2.02	2.01	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.99	1.99	1.99	2.01	2.01	2.00	1.98	2.02	2.00
Diurnal Maximum	2.09	2.07	2.06	2.09	2.10	2.10	2.08	2.05	2.03	2.04	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.03	2.05	2.08			
Diurnal Average	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.00	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.99	1.99			

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.



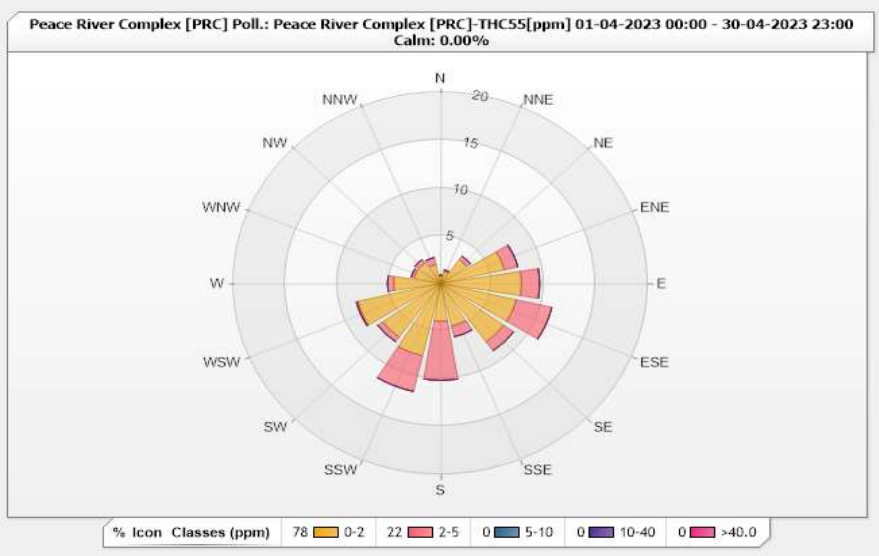


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 04-2023

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

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

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0.88	0	0	0	0	0.88
NNE	1.32	0.15	0	0	0	1.47
NE	3.08	0.44	0	0	0	3.52
ENE	6.31	1.32	0	0	0	7.63
E	7.78	1.76	0	0	0	9.54
ESE	7.49	3.52	0	0	0	11.01
SE	7.49	1.17	0	0	0	8.66
SSE	4.55	1.17	0	0	0	5.72
S	3.96	6.17	0	0	0	10.13
SSW	7.78	3.82	0	0	0	11.6
SW	6.9	0.59	0	0	0	7.49
WSW	8.22	0.15	0	0	0	8.37
W	4.55	0.59	0	0	0	5.14
WNW	2.64	0.29	0	0	0	2.93
NW	2.64	0.44	0	0	0	3.08
NNW	2.06	0.73	0	0	0	2.79
Summary	77.65	22.31	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

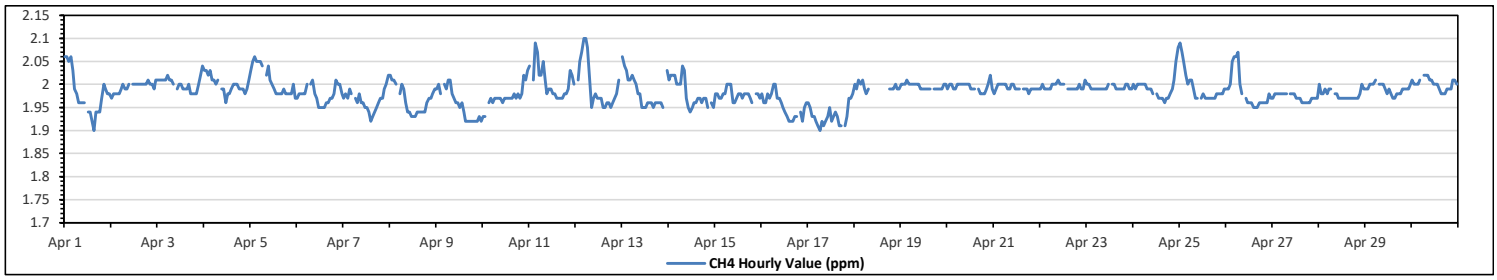
METHANE (CH4) in ppm

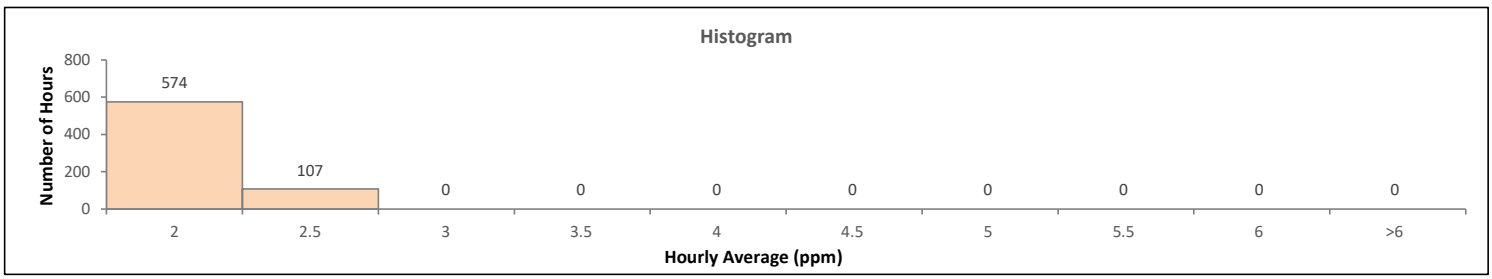
Maximum Hourly Value:	2.10	ppm	on Apr 12 at hr 4	Hours in Service:	720	
Maximum Daily Value:	2.01	ppm	on Apr 5	Hours of Data:	681	
Minimum Hourly Value:	1.90	ppm	on Apr 1 at hr 15	Hours of Missing Data:	3	
Minimum Daily Value:	1.93	ppm	on Apr 17	Hours of Calibration:	36	
Monthly Average:	1.98	ppm		Operational Uptime:	99.6	

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
Apr 1	2.06	2.06	2.05	2.06	2.03	1.99	1.98	1.96	1.96	1.96	1.96	S	1.94	1.94	1.92	1.90	1.94	1.94	1.94	1.97	2.00	1.99	1.98	1.98	1.90	2.06	1.98
Apr 2	1.97	1.98	1.98	1.98	1.98	1.99	2.00	1.99	1.99	2.00	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.00	1.99	2.01	1.97	2.01	1.99
Apr 3	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.00	S	1.99	2.00	2.00	1.99	1.99	1.99	2.00	1.98	1.98	1.98	1.98	2.00	2.02	2.04	1.98	2.04	2.00
Apr 4	2.03	2.03	2.02	2.03	2.01	2.01	2.00	2.01	S	1.99	1.99	1.96	1.98	1.98	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.98	1.99	2.01	1.96	2.03	2.00
Apr 5	2.03	2.05	2.06	2.05	2.05	2.05	2.04	S	2.02	2.04	2.01	2.00	1.99	1.98	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.98	2.00	1.97	1.97	2.06	**2.01**
Apr 6	1.97	1.98	1.98	1.98	1.98	2.00	S	2.00	2.01	1.98	1.97	1.95	1.95	1.95	1.95	1.96	1.96	1.97	1.97	1.98	2.01	2.00	2.00	1.98	1.95	2.01	1.98
Apr 7	1.97	1.98	1.97	1.99	1.98	S	1.97	1.96	1.98	1.96	1.96	1.95	1.95	1.94	1.92	1.93	1.94	1.95	1.96	1.97	1.97	1.99	2.00	2.02	1.92	2.02	1.97
Apr 8	2.02	2.01	2.01	2.00	S	1.98	2.00	1.99	1.96	1.94	1.94	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.96	1.97	1.97	1.98	1.99	1.93	2.02	1.97
Apr 9	1.99	2.00	1.98	S	2.00	1.99	2.01	2.01	1.98	1.97	1.96	1.96	1.95	1.96	1.94	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.92	1.92	2.01	1.96
Apr 10	1.93	1.93	S	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.97	1.98	1.97	1.98	2.02	2.01	2.03	1.93	2.03	1.97
Apr 11	2.04	S	2.01	2.09	2.07	2.02	2.02	2.05	2.01	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.98	1.98	1.99	2.03	2.02	2.00	1.97	2.09	2.00
Apr 12	S	2.01	2.05	2.07	**2.10**	**2.10**	2.08	2.02	1.95	1.97	1.98	1.97	1.97	1.97	1.95	1.95	1.96	1.96	1.95	1.96	1.97	1.98	2.01	S	1.95	**2.10**	2.00
Apr 13	2.06	2.04	2.03	2.01	2.01	2.02	2.01	2.00	1.98	1.98	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.95	S	2.03	1.95	2.06	1.98
Apr 14	2.01	2.02	2.02	2.02	2.00	2.00	2.00	2.04	2.03	1.97	1.95	1.94	1.95	1.96	1.96	1.97	1.97	1.96	1.97	1.97	1.95	S	1.96	1.95	1.94	2.04	1.98
Apr 15	1.98	1.98	1.97	1.97	1.98	1.98	2.00	2.00	2.00	1.96	1.96	1.97	1.98	1.98	1.97	1.98	1.98	1.98	1.97	1.96	S	1.98	1.98	1.97	1.96	2.00	1.98
Apr 16	1.98	1.96	1.96	1.98	1.97	1.98	2.00	2.00	1.97	1.97	1.96	1.95	1.94	1.93	1.92	1.92	1.92	1.93	1.93	S	1.94	1.92	1.95	1.96	1.92	2.00	1.95
Apr 17	1.96	1.95	1.93	1.93	1.92	1.91	1.90	1.92	1.91	1.92	1.93	1.95	1.92	1.93	1.94	1.93	1.91	1.91	S	1.91	1.93	1.97	1.97	1.98	1.90	1.98	1.93
Apr 18	2.00	1.99	2.01	2.00	2.01	1.99	1.98	1.99	NRM	NRM	C	C	NRM	C	C	C	1.99	S	1.99	1.99	1.99	2.00	1.99	1.99	1.98	2.01	NA
Apr 19	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	S	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	2.01	2.00
Apr 20	1.99	2.00	2.00	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	S	1.99	1.98	1.98	1.98	1.99	2.00	2.02	1.99	1.98	2.02	1.99
Apr 21	1.98	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.00	1.99	1.99	1.99	S	1.99	1.99	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.98	2.00	1.99
Apr 22	1.99	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.01	2.00	2.00	2.00	S	1.99	1.99	1.99	1.99	1.99	1.99	2.00	1.99	2.00	2.01	1.99	2.01	2.00
Apr 23	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	S	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.99	2.00	1.99
Apr 24	2.00	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	1.98	S	1.98	1.97	1.97	1.97	1.96	1.97	1.97	1.98	1.99	2.01	2.05	2.08	1.96	2.08	1.99
Apr 25	2.09	2.07	2.05	2.02	2.00	2.01	2.01	1.99	1.97	1.97	S	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.99	1.97	2.09	1.99
Apr 26	1.99	1.99	2.00	2.05	2.06	2.06	2.07	2.00	1.98	S	1.97	1.96	1.96	1.96	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.98	1.97	1.95	2.07	1.98
Apr 27	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.96	1.98	1.97
Apr 28	2.00	1.98	1.98	1.99	1.98	1.99	1.99	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	2.00	1.99	1.97	2.00	1.98
Apr 29	1.99	1.99	2.00	2.00	2.00	2.01	S	2.00	2.00	2.00	1.99	1.98	1.99	1.98	1.97	1.97	1.98	1.98	1.98	1.99	1.99	1.99	1.99	2.00	1.97	2.01	1.99
Apr 30	2.01	2.00	2.00	2.00	2.01	S	2.02	2.02	2.02	2.01	2.01	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.99	1.99	1.99	2.01	2.01	2.00	1.98	2.02	2.00
Diurnal Maximum	2.09	2.07	2.06	2.09	2.10	2.10	2.08	2.05	2.03	2.04	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.03	2.05	2.08			
Diurnal Average	2.00	2.00	2.00	2.01	2.00	2.00	2.00	2.00	1.99	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.99	1.99			

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.



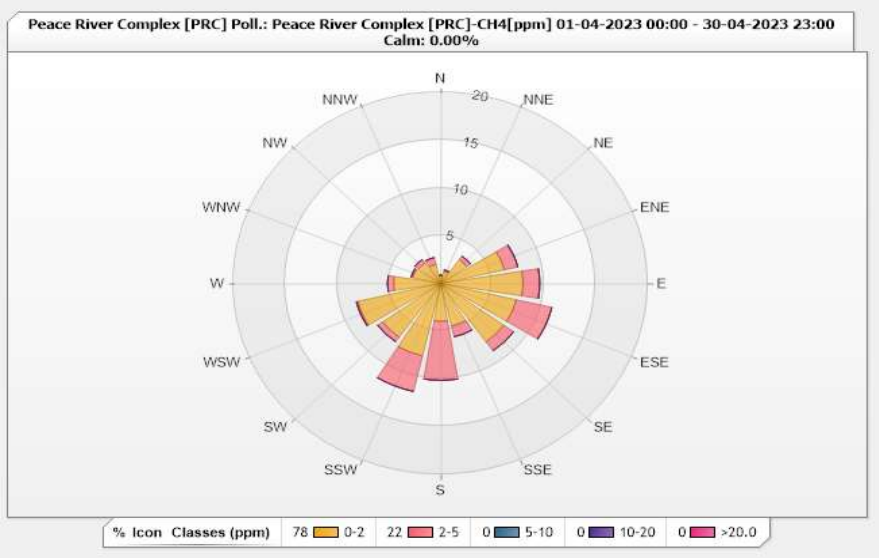


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 04-2023

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

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

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0.88	0	0	0	0	0.88
NNE	1.32	0.15	0	0	0	1.47
NE	3.08	0.44	0	0	0	3.52
ENE	6.31	1.32	0	0	0	7.63
E	7.93	1.62	0	0	0	9.55
ESE	7.49	3.52	0	0	0	11.01
SE	7.49	1.17	0	0	0	8.66
SSE	4.55	1.17	0	0	0	5.72
S	3.96	6.17	0	0	0	10.13
SSW	7.78	3.82	0	0	0	11.6
SW	6.9	0.59	0	0	0	7.49
WSW	8.22	0.15	0	0	0	8.37
W	4.55	0.59	0	0	0	5.14
WNW	2.79	0.15	0	0	0	2.94
NW	2.64	0.44	0	0	0	3.08
NNW	2.06	0.73	0	0	0	2.79
Summary	77.95	22.03	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

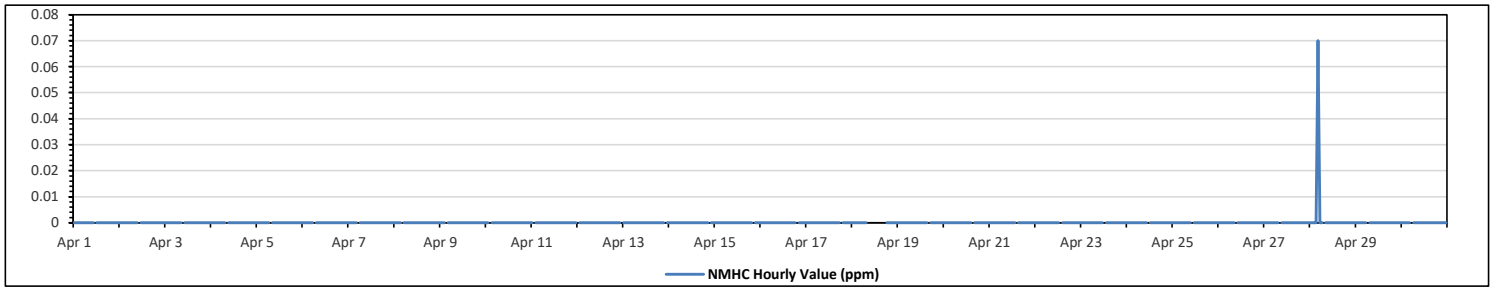
NON-METHANE HYDROCARBONS (NMHC) in ppm

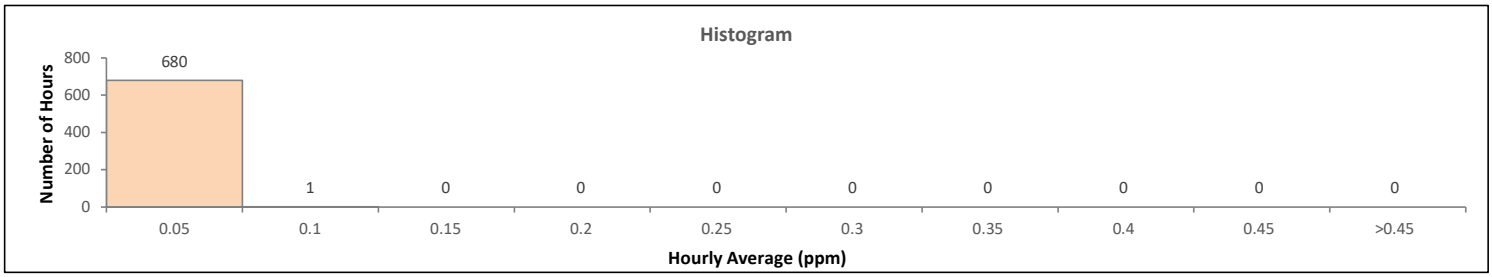
Maximum Hourly Value:	0.07	ppm	on Apr 28 at hr 4	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on Apr 28	Hours of Data:	681
Minimum Hourly Value:	0.00	ppm	on Apr 1 at hr 0	Hours of Missing Data:	3
Minimum Daily Value:	0.00	ppm	on Apr 1	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational Uptime:	99.6

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



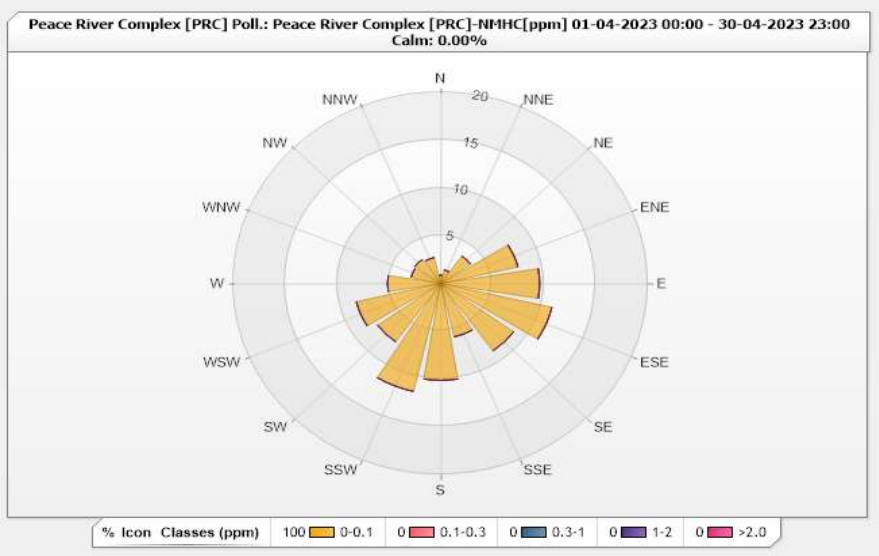


Station: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 04-2023

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

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

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	0.88	0	0	0	0	0.88
NNE	1.47	0	0	0	0	1.47
NE	3.52	0	0	0	0	3.52
ENE	7.64	0	0	0	0	7.64
E	9.54	0	0	0	0	9.54
ESE	11.01	0	0	0	0	11.01
SE	8.66	0	0	0	0	8.66
SSE	5.73	0	0	0	0	5.73
S	10.13	0	0	0	0	10.13
SSW	11.6	0	0	0	0	11.6
SW	7.49	0	0	0	0	7.49
WSW	8.37	0	0	0	0	8.37
W	5.14	0	0	0	0	5.14
WNW	2.94	0	0	0	0	2.94
NW	3.08	0	0	0	0	3.08
NNW	2.79	0	0	0	0	2.79
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

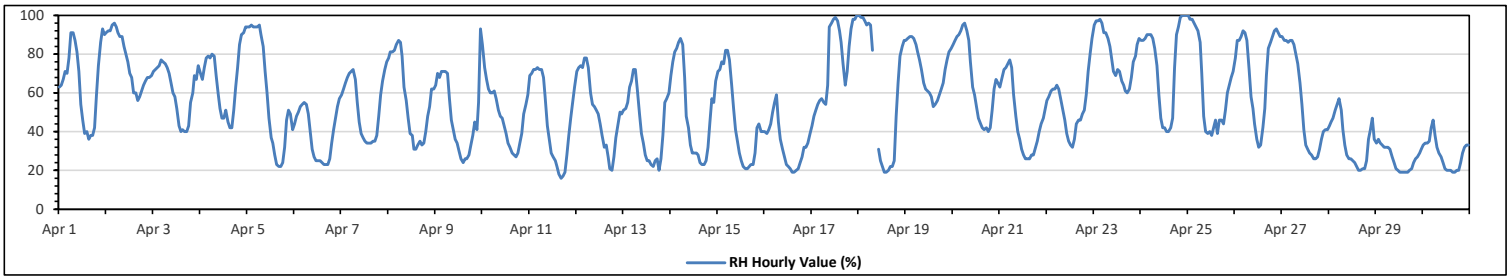
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on Apr 17 at hr 23	Hours in Service:	720
Maximum Daily Value:	79.4	%	on Apr 23	Hours of Data:	718
Minimum Hourly Value:	16	%	on Apr 11 at hr 16	Hours of Missing Data:	2
Minimum Daily Value:	26.2	%	on Apr 29	Hours of Calibration:	0
Monthly Average:	55.2	%		Operational Uptime:	99.7

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
Apr 1	63	64	67	71	70	78	91	91	87	81	71	54	46	39	40	36	38	38	42	59	74	86	93	90	36	93	65.4
Apr 2	91	92	92	95	96	94	91	89	89	84	80	76	70	68	60	60	56	58	61	64	66	68	68	69	56	96	76.5
Apr 3	71	72	73	74	77	76	75	73	70	65	60	58	52	43	40	41	40	40	43	55	60	69	67	74	40	77	61.2
Apr 4	70	67	73	78	79	78	80	79	69	60	52	47	47	51	45	42	42	51	63	73	85	90	91	94	42	94	66.9
Apr 5	94	94	95	94	94	94	95	90	84	71	60	47	37	34	28	23	22	22	24	32	46	51	49	41	22	95	59.2
Apr 6	44	48	50	53	54	55	54	49	40	31	27	25	25	25	24	23	23	23	26	34	41	48	53	57	23	57	38.8
Apr 7	59	62	65	68	70	71	72	67	55	45	39	37	35	34	34	34	35	35	38	48	59	66	72	76	34	76	53.2
Apr 8	78	81	81	82	85	87	86	79	63	56	47	39	38	31	31	33	35	33	34	40	48	53	62	62	31	87	56.8
Apr 9	64	70	68	71	71	71	70	57	46	41	36	34	30	26	24	26	26	28	33	38	45	41	55	93	24	93	48.5
Apr 10	85	73	67	62	60	60	61	57	51	48	47	43	39	34	32	29	28	27	29	34	39	49	54	59	27	85	48.6
Apr 11	69	70	72	72	73	72	72	68	58	43	36	29	27	25	22	18	**16**	17	19	28	38	47	55	63	**16**	73	46.2
Apr 12	71	73	74	73	78	78	73	60	54	53	51	49	44	38	32	33	27	21	20	27	37	44	50	49	20	78	50.4
Apr 13	51	52	55	63	66	72	72	62	49	39	34	28	25	25	23	22	25	26	20	26	38	55	57	60	20	72	43.5
Apr 14	69	76	81	83	86	88	85	68	48	42	33	29	29	29	28	24	23	23	25	32	45	57	55	66	23	88	51.0
Apr 15	71	72	76	75	82	82	77	64	52	41	35	29	25	22	21	21	22	23	23	29	42	44	40	40	21	82	46.2
Apr 16	40	39	41	44	50	55	59	45	36	31	27	23	22	21	19	19	20	21	24	27	32	32	34	39	19	59	33.3
Apr 17	43	48	51	54	56	57	55	54	64	94	96	98	99	97	92	86	75	64	71	84	93	98	98	**100**	43	**100**	76.1
Apr 18	**100**	99	99	97	95	96	95	82	NRM	NRM	31	25	22	19	19	20	22	22	25	48	65	79	84	87	19	**100**	60.5
Apr 19	87	88	89	89	88	85	81	77	72	65	62	61	60	58	53	54	56	59	62	65	72	77	81	83	53	89	71.8
Apr 20	85	87	89	90	92	95	96	92	87	76	63	59	53	47	44	42	41	42	40	42	51	62	67	65	40	96	67.0
Apr 21	63	68	72	73	75	77	73	59	48	40	36	31	28	26	26	26	28	28	31	35	40	44	47	52	26	77	46.9
Apr 22	56	58	61	62	62	64	62	57	52	46	39	35	33	32	36	44	46	46	49	51	59	71	80	88	32	88	53.7
Apr 23	95	97	97	98	96	91	91	88	84	77	71	69	72	71	66	64	61	60	62	68	76	79	85	88	60	98	**79.4**
Apr 24	87	87	88	90	90	90	88	83	74	59	47	42	42	40	40	42	47	73	90	94	99	**100**	**100**	**100**	40	**100**	74.7
Apr 25	**100**	98	98	96	94	92	86	70	48	40	39	40	38	42	46	39	46	46	44	51	60	64	68	71	38	**100**	63.2
Apr 26	78	87	87	89	92	91	87	72	58	52	44	36	32	33	42	52	69	83	86	89	92	93	91	89	32	93	71.8
Apr 27	89	87	87	86	87	87	85	80	75	65	54	41	33	31	29	28	26	26	27	31	36	40	41	41	26	89	54.7
Apr 28	43	45	47	51	54	57	51	41	33	28	26	26	25	24	22	20	20	21	21	25	36	41	47	36	20	57	35.0
Apr 29	34	36	34	33	32	32	32	31	27	24	21	20	19	19	19	19	19	20	21	24	26	27	29	31	19	36	**26.2**
Apr 30	33	34	34	35	42	46	38	32	29	27	24	21	20	20	20	19	19	20	20	24	29	32	33	33	19	46	28.5
Diurnal Maximum	100	99	99	98	96	96	96	92	89	94	96	98	99	97	92	86	75	83	90	94	99	100	100	100			
Diurnal Average	69.4	70.8	72.1	73.4	74.9	75.7	74.4	67.2	58.7	52.6	46.3	41.7	38.9	36.8	35.2	34.6	35.1	36.5	39.1	45.9	54.3	60.2	63.5	66.5			

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

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

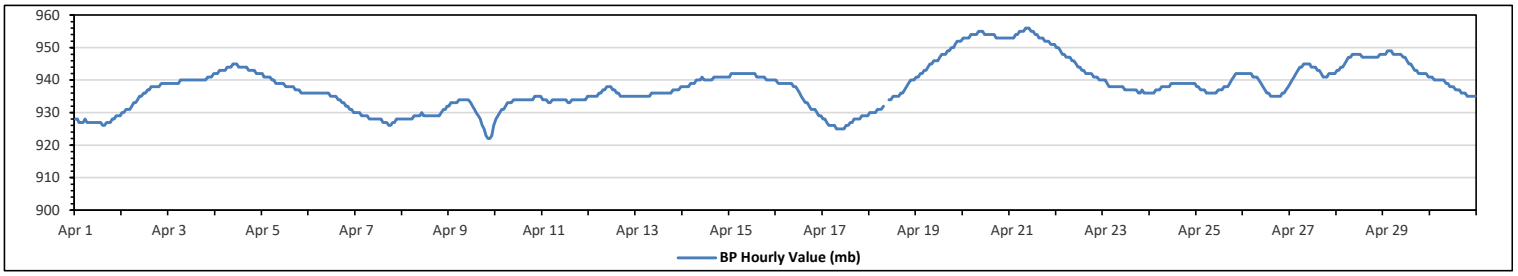
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	956	mb	on Apr 21 at hr 8	Hours in Service:	720	
Maximum Daily Value:	954	mb	on Apr 20	Hours of Data:	718	
Minimum Hourly Value:	922	mb	on Apr 9 at hr 20	Hours of Missing Data:	2	
Minimum Daily Value:	927	mb	on Apr 17	Hours of Calibration:	0	
Monthly Average:	938	mb		Operational Uptime:	99.7	

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
Apr 1	928	928	927	927	927	928	927	927	927	927	927	927	927	927	926	926	927	927	927	928	928	929	929	929	926	929	927
Apr 2	930	930	931	931	931	932	933	933	934	935	935	936	936	937	937	938	938	938	938	938	939	939	939	939	930	939	935
Apr 3	939	939	939	939	939	939	940	940	940	940	940	940	940	940	940	940	940	940	940	940	941	941	941	942	939	942	940
Apr 4	942	942	943	943	943	943	944	944	944	945	945	945	944	944	944	944	944	943	943	943	943	942	942	942	942	945	943
Apr 5	942	941	941	941	941	940	940	939	939	939	939	939	938	938	938	938	938	937	937	937	936	936	936	936	936	942	939
Apr 6	936	936	936	936	936	936	936	936	936	936	936	935	935	935	935	934	934	933	933	932	932	931	931	930	930	936	934
Apr 7	930	930	930	929	929	929	929	928	928	928	928	928	928	928	927	927	927	926	926	927	927	928	928	928	926	930	928
Apr 8	928	928	928	928	928	928	929	929	929	929	930	929	929	929	929	929	929	929	929	929	930	931	931	932	928	932	929
Apr 9	932	933	933	933	933	934	934	934	934	934	934	933	932	931	930	929	928	926	925	923	**922**	**922**	923	926	**922**	934	930
Apr 10	928	929	930	931	931	932	933	933	933	934	934	934	934	934	934	934	934	934	934	934	935	935	935	935	928	935	933
Apr 11	934	934	934	933	933	934	934	934	934	934	934	934	934	933	933	934	934	934	934	934	934	934	934	935	933	935	934
Apr 12	935	935	935	935	935	936	936	937	937	938	938	938	937	937	936	936	935	935	935	935	935	935	935	935	935	938	936
Apr 13	935	935	935	935	935	935	935	935	936	936	936	936	936	936	936	936	936	936	936	937	937	937	937	938	935	938	936
Apr 14	938	938	938	938	939	939	939	940	940	940	941	940	940	940	940	940	941	941	941	941	941	941	941	941	938	941	940
Apr 15	941	942	942	942	942	942	942	942	942	942	942	942	942	942	941	941	941	941	941	940	940	940	940	940	940	942	941
Apr 16	940	939	939	939	939	939	939	939	939	938	938	937	936	935	934	933	933	932	931	931	931	930	929	929	929	940	935
Apr 17	928	928	927	926	926	926	926	925	925	925	925	925	926	926	927	927	928	928	928	928	929	929	929	929	925	929	**927**
Apr 18	930	930	930	930	931	931	931	932	NRM	NRM	934	934	935	935	935	935	936	936	937	938	939	940	940	940	930	940	935
Apr 19	941	941	942	942	943	943	944	945	945	946	946	946	947	948	948	948	949	949	950	950	951	952	952	952	941	952	947
Apr 20	953	953	953	953	954	954	954	954	955	955	955	954	954	954	954	954	954	953	953	953	953	953	953	953	953	955	**954**
Apr 21	953	953	953	954	954	955	955	955	**956**	**956**	**956**	955	955	954	954	953	953	953	952	952	952	951	951	951	951	**956**	954
Apr 22	950	950	949	948	948	947	947	947	946	946	945	944	944	943	943	942	942	942	942	941	941	941	940	940	940	950	945
Apr 23	940	940	939	938	938	938	938	938	938	938	938	937	937	937	937	937	937	937	936	936	937	936	936	936	936	940	937
Apr 24	936	936	936	937	937	937	938	938	938	938	938	939	939	939	939	939	939	939	939	939	939	939	939	939	936	939	938
Apr 25	938	938	937	937	937	936	936	936	936	936	936	937	937	937	938	938	938	939	940	941	942	942	942	942	936	942	938
Apr 26	942	942	942	942	942	941	941	941	940	939	938	937	936	936	935	935	935	935	935	935	936	936	937	938	935	942	938
Apr 27	939	940	941	942	943	944	944	945	945	945	945	944	944	944	943	943	942	941	941	941	942	942	942	942	939	945	943
Apr 28	943	943	944	944	945	946	947	947	948	948	948	948	948	947	947	947	947	947	947	947	947	947	948	948	943	948	947
Apr 29	948	948	949	949	949	948	948	948	948	948	947	947	946	945	945	944	943	943	942	942	942	942	942	941	941	949	946
Apr 30	941	941	940	940	940	940	940	940	939	939	938	938	938	937	937	937	936	936	936	935	935	935	935	935	935	941	938
Diurnal Maximum	953	953	953	954	954	955	955	955	956	956	956	955	955	954	954	954	954	953	953	953	953	953	953	953			
Diurnal Average	938	938	938	938	938	938	939	939	939	939	939	938	938	938	938	938	938	938	938	938	938	938	938	938			

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

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



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

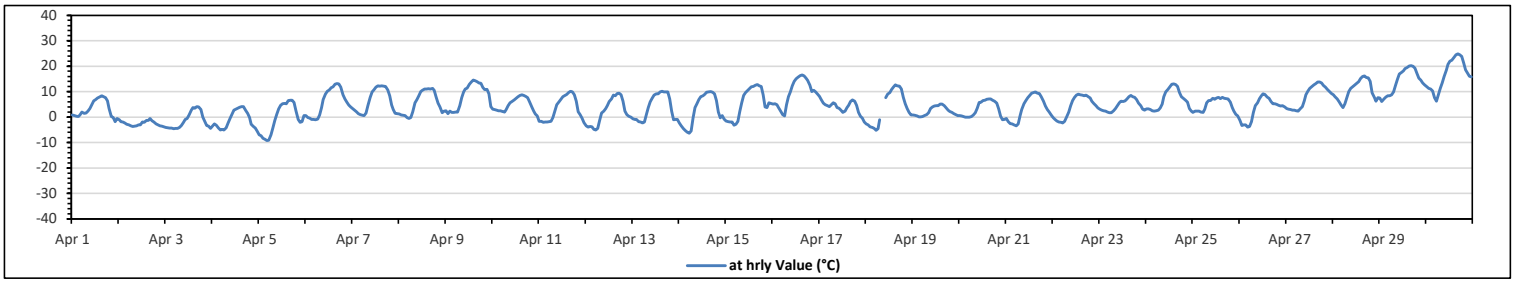
AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:	24.8	°C	on Apr 30 at hr 16	Hours in Service:	720	
Maximum Daily Value:	16.7	°C	on Apr 30	Hours of Data:	718	
Minimum Hourly Value:	-9.2	°C	on Apr 5 at hr 4	Hours of Missing Data:	2	
Minimum Daily Value:	-2.5	°C	on Apr 2	Hours of Calibration:	0	
Monthly Average:	4.8	°C		Operational Uptime:	99.7	

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
Apr 1	0.8	0.6	0.3	0.2	0.8	2	1.5	1.6	2.3	3.4	4.9	6.4	6.9	7.5	7.9	8.3	8	7.7	6.4	3.3	0.2	-0.2	-1.8	-0.6	-1.8	8.3	3.3
Apr 2	-1.1	-1.8	-2	-2.4	-2.8	-3.1	-3.4	-3.7	-3.6	-3.4	-3.1	-3.1	-1.9	-2.1	-1.2	-1.2	-0.6	-1.4	-2	-2.6	-3.1	-3.4	-3.6	-3.8	-3.8	-0.6	**-2.5**
Apr 3	-4	-4.2	-4.3	-4.3	-4.6	-4.5	-4.4	-4.1	-3.3	-2.2	-0.9	-0.5	0.9	2.7	3.7	3.5	4.2	4	3	0	-1.7	-3.3	-3.6	-4.5	-4.6	4.2	-1.4
Apr 4	-3.6	-2.7	-3.2	-4.3	-5.1	-4.9	-5.1	-4.2	-2.3	-0.6	1.1	2.8	3.1	3.5	3.9	4.1	4.1	2.6	1.5	-0.1	-2.8	-3.7	-4.3	-5.6	-5.6	4.1	-1.1
Apr 5	-6.9	-7.4	-8.3	-8.8	**-9.2**	-9.1	-7	-4.2	-1.3	1.1	3.2	4.6	5.3	5.4	5.3	6.5	6.6	6.6	5.7	2.5	-1	-2.1	-1.8	0.5	**-9.2**	6.6	-0.6
Apr 6	0.5	-0.2	-0.4	-0.9	-0.9	-1.1	-0.8	0.8	3.7	6.9	9	10.1	10.7	11.5	11.9	12.9	13.2	13.1	11.8	8.8	7.1	5.8	4.7	4	-1.1	13.2	5.9
Apr 7	3.4	2.8	2.1	1.4	1	0.7	0.5	1.6	4.6	7.8	9.8	10.8	11.8	12.3	12.2	12.3	12.2	12	10.7	8.3	4.7	2.9	1.5	1.4	0.5	12.3	6.2
Apr 8	1.3	0.8	0.7	0.6	-0.1	-0.6	-0.1	2.1	5.6	6.9	8.4	10	10.6	11	11	11.1	11	11.3	10.5	7.9	5.5	4	1.7	2.3	-0.6	11.3	5.6
Apr 9	2.5	1.4	2.3	1.8	1.8	1.9	2	4.5	7.7	9.9	11	11.4	12.9	13.8	14.6	14.3	13.9	13.4	13.3	11.6	10.8	10.9	9.1	4.1	1.4	14.6	8.4
Apr 10	3.1	3	2.7	2.5	2.5	2.2	2	2.9	4.4	5.6	6.1	6.8	7.4	8.1	8.5	8.8	8.5	8.2	7.7	6	4	2.3	1.3	0.4	0.4	8.8	4.8
Apr 11	-1.6	-1.7	-2.1	-2	-2	-1.8	-1.7	-0.2	2.4	4.9	6	7	8	8.4	8.9	9.6	10.1	9.8	8.8	6.2	2.1	1	-0.4	-2.2	-2.2	10.1	3.2
Apr 12	-3.5	-3.9	-3.7	-3.8	-4.8	-5.1	-4.5	-1.2	1.6	2.3	3.4	4.5	6.1	7.1	8.6	8.4	9.3	9.4	8.8	6.3	2.4	1	0.3	0	-5.1	9.4	2.0
Apr 13	-0.7	-1	-0.9	-1.8	-2	-2.4	-2	1	3.7	6	7.4	8.6	9.2	9.1	9.9	10.1	9.9	9.8	9.8	7.1	2.4	-1.1	-0.9	-1	-2.4	10.1	3.8
Apr 14	-2.4	-3.5	-4.6	-5.3	-6	-6.4	-5.4	-0.3	3.7	5.2	6.9	8	8.4	9	9.7	9.9	10	9.7	9.2	6.5	1.9	-0.3	0.6	-0.8	-6.4	10.0	2.7
Apr 15	-1.5	-1.8	-1.9	-1.9	-3.2	-2.8	-1.6	2.2	5.6	8.5	9.6	10.5	11.1	11.9	12	12.5	12.8	12.3	12	8.7	4	3.7	5.6	5.4	-3.2	12.8	5.6
Apr 16	5.1	5.2	4.8	3.8	2.5	1	0.4	4.9	8	9.8	12.3	14	15	15.7	16.3	16.5	16.2	15.3	14.4	12.5	10	10.5	9.9	8.9	0.4	16.5	9.7
Apr 17	8.2	6.8	5.5	4.8	4.4	4.2	4.8	5.6	5.2	3.7	3.5	2.8	1.8	2.4	3.8	4.6	6.1	6.8	6.3	4.6	1.8	0.3	-0.4	-1.9	-1.9	8.2	4.0
Apr 18	-2.6	-3	-3.8	-4.1	-4.5	-5.2	-4.6	-1.1	NRM	NRM	7.6	9	9.6	10.8	11.8	12.7	12.3	12.2	11	7.8	5.2	3.3	1.8	0.9	-5.2	12.7	4.0
Apr 19	0.9	0.7	0.4	0.1	0.1	0.2	0.5	1	1.7	3.4	4	4.3	4.4	4.4	5.1	5.1	4.5	3.6	2.8	2.2	1.8	1.4	1	0.6	0.1	5.1	2.3
Apr 20	0.5	0.4	0.2	0	0	0	0.2	0.8	1.7	3.5	5.7	5.9	6.5	6.7	7	7.1	7.1	6.6	6.3	5.5	3.2	0.3	-1.1	-0.9	-1.1	7.1	3.1
Apr 21	-0.6	-1.8	-2.5	-2.7	-3.1	-3.5	-2.6	0.5	2.9	5.3	6.5	7.7	8.5	9.4	9.6	9.9	9.4	9.3	8.1	6.3	4.3	3	1.9	0.8	-3.5	9.9	3.6
Apr 22	-0.2	-0.9	-1.5	-1.9	-2.1	-2.3	-1.6	0	2	4.5	6.5	7.8	8.6	9	8.8	8.6	8.4	8.6	8.1	7.5	6.2	5.4	4.4	3.6	-2.3	9.0	4.1
Apr 23	3.1	2.8	2.5	2.3	2	1.7	1.7	2.5	3.3	4.5	5.6	6.2	6.1	6.4	7.1	8	8.5	8.1	7.8	6.9	5.5	4.5	3.1	2.8	1.7	8.5	4.7
Apr 24	3.2	3.2	2.9	2.5	2.4	2.5	2.8	3.6	5.1	8	9.8	10.9	11.9	12.9	13	12.8	12.1	9.6	8.1	7.4	6.6	5.8	3.3	2.4	2.4	13.0	6.8
Apr 25	1.8	2.4	2.3	2.3	2	1.8	3.1	5.6	6.5	6.5	7.3	7	7.5	7.8	7.2	7.8	7.3	7.2	7.1	5.8	3.8	2.4	1.1	0.4	0.4	7.8	4.8
Apr 26	-1.2	-3.3	-3	-3.1	-3.9	-3.7	-1.8	1.8	4.4	5.6	7.2	8.4	9.1	8.9	7.9	7.3	6.1	5.2	5.2	5	4.6	4.3	4.4	4	-3.9	9.1	3.3
Apr 27	3.3	3.1	2.9	2.7	2.7	2.5	2.4	3.2	4.2	6.4	8.7	10.1	11.3	12	12.6	13.2	13.7	13.8	13.4	12.4	11.8	10.9	10	9.3	2.4	13.8	8.2
Apr 28	8.7	8	7.1	6	4.7	3.8	5.3	7.6	10	11.3	11.9	12.5	13.3	13.9	15.1	15.9	16.2	15.5	15.4	14	9.5	7.8	6.2	7.6	3.8	16.2	10.3
Apr 29	7.5	6.1	7.1	7.9	8.3	8.4	8.7	9.9	12.4	14.9	16.9	17.6	18.2	19	19.5	20.1	20.2	20	19.1	17.2	15.3	14.5	13.5	12.7	6.1	20.2	14.0
Apr 30	12	11.3	11	10.3	7.7	6.3	8.7	11.2	13.4	15.9	18.4	20.7	22	22.3	23.4	24.5	**24.8**	24.4	23.9	21.4	18.6	17.3	16.1	15.8	6.3	**24.8**	**16.7**
Diurnal Maximum	12.0	11.3	11.0	10.3	8.3	8.4	8.7	11.2	13.4	15.9	18.4	20.7	22.0	22.3	23.4	24.5	24.8	24.4	23.9	21.4	18.6	17.3	16.1	15.8			
Diurnal Average	1.2	0.7	0.4	0.1	-0.4	-0.6	-0.1	1.9	4.0	5.7	7.2	8.1	8.8	9.4	9.8	10.2	10.2	9.8	9.1	7.2	4.8	3.6	2.8	2.2			

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 - April 2023

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

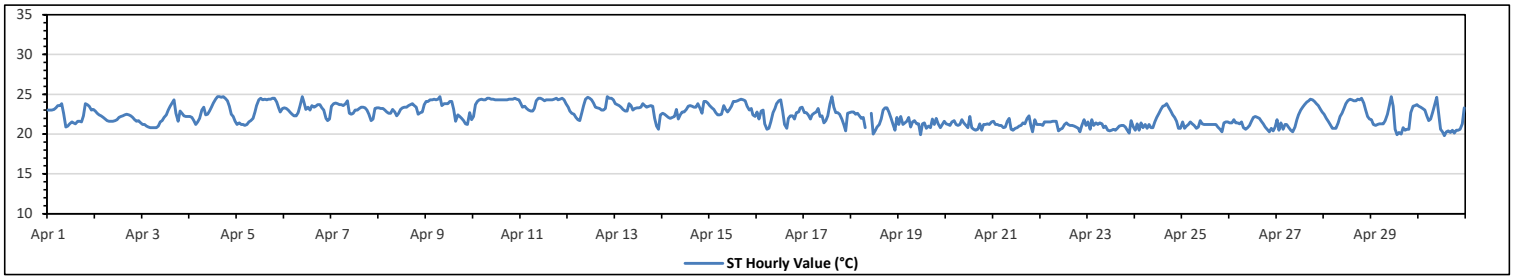
Maximum Hourly Value:	24.7	°C	on Apr 4 at hr 14	Hours in Service:	720	
Maximum Daily Value:	24.2	°C	on Apr 10	Hours of Data:	718	
Minimum Hourly Value:	19.8	°C	on Apr 30 at hr 13	Hours of Missing Data:	2	
Minimum Daily Value:	20.9	°C	on Apr 23	Hours of Calibration:	0	
Monthly Average:	22.4	°C		Operational Uptime:	99.7	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	23.0	23.0	23.0	23.1	23.3	23.6	23.6	23.8	22.6	20.9	21.0	21.3	21.5	21.4	21.3	21.6	21.6	21.5	22.3	23.8	23.7	23.5	23.0	23.1	20.9	23.8	22.5
Apr 2	22.9	22.6	22.4	22.3	22.1	21.9	21.7	21.6	21.6	21.6	21.7	21.8	22.1	22.2	22.3	22.4	22.5	22.4	22.3	22.1	21.8	21.6	21.7	21.4	21.4	22.9	22.0
Apr 3	21.2	21.2	21.0	20.9	20.8	20.8	20.8	20.8	21.0	21.5	21.7	22.1	22.4	23.0	23.5	23.9	24.3	22.6	21.6	22.9	22.6	22.3	22.2	22.2	20.8	24.3	22.0
Apr 4	22.2	22.1	21.7	21.2	21.5	22.0	23.0	23.4	22.4	22.5	22.9	23.4	23.9	24.4	**24.7**	**24.7**	24.6	**24.7**	24.5	24.2	23.5	22.5	22.2	21.6	21.2	**24.7**	23.1
Apr 5	21.2	21.4	21.2	21.2	21.1	21.2	21.5	21.7	22.0	22.8	23.6	24.3	24.5	24.3	24.4	24.3	24.4	24.4	24.5	24.5	24.0	23.3	22.8	23.2	21.1	24.5	23.0
Apr 6	23.3	23.2	23.0	22.7	22.5	22.3	22.3	22.7	23.6	**24.7**	24.0	23.1	23.4	23.0	23.6	23.4	23.5	23.7	23.7	23.3	23.0	22.0	21.7	21.9	21.7	**24.7**	23.1
Apr 7	23.5	23.8	23.9	23.8	23.7	23.7	23.6	23.8	24.2	22.6	22.5	22.6	23.0	23.0	23.2	23.4	23.4	23.3	23.0	22.5	21.7	21.9	23.2	23.3	21.7	24.2	23.2
Apr 8	23.3	23.2	23.2	23.0	22.8	22.6	22.6	23.1	22.8	22.3	22.6	23.1	23.3	23.4	23.4	23.6	23.7	23.8	23.6	23.4	22.5	22.7	22.8	23.7	22.3	23.8	23.1
Apr 9	24.1	24.1	24.3	24.3	24.4	24.3	24.4	**24.7**	23.6	23.8	23.8	23.8	24.1	24.1	23.1	21.6	22.4	22.2	22.0	21.7	21.3	21.2	22.7	21.8	21.2	**24.7**	23.2
Apr 10	22.2	23.7	24.1	24.3	24.4	24.3	24.3	24.5	24.5	24.4	24.4	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.5	24.4	24.3	22.2	24.5	**24.2**
Apr 11	23.8	23.4	23.5	23.2	23.0	22.9	22.9	23.2	24.2	24.5	24.5	24.4	24.2	24.3	24.3	24.3	24.3	24.4	24.5	24.3	24.4	24.5	24.3	23.8	22.9	24.5	24.0
Apr 12	23.4	22.9	22.6	22.5	22.1	21.8	21.7	22.6	23.6	24.4	24.6	24.5	24.3	23.9	23.4	23.3	23.2	23.0	23.0	23.2	**24.7**	24.5	24.5	24.3	21.7	**24.7**	23.4
Apr 13	23.8	23.7	23.6	23.4	23.1	22.9	22.9	23.8	23.6	23.0	23.2	23.3	23.3	23.4	23.8	23.6	23.4	23.5	23.6	23.5	22.0	21.0	20.6	22.4	20.6	23.8	23.1
Apr 14	22.6	22.5	22.3	22.1	22.0	22.1	22.2	23.1	21.9	22.4	22.8	22.8	23.1	23.5	23.6	23.5	23.4	23.4	23.8	23.2	22.6	24.1	24.1	23.9	21.9	24.1	23.0
Apr 15	23.6	23.3	23.1	22.7	22.4	22.4	22.5	23.6	23.1	22.8	23.1	23.5	24.1	24.1	24.2	24.3	24.4	24.3	24.2	23.5	23.0	23.2	22.4	22.2	22.2	24.4	23.3
Apr 16	22.8	21.9	22.9	23.0	21.3	20.6	20.7	21.5	22.7	23.2	23.8	24.2	24.3	22.9	21.2	20.7	22.0	22.3	22.3	21.9	22.7	22.8	23.3	23.4	20.6	24.3	22.4
Apr 17	22.7	22.7	22.4	21.9	22.4	22.6	22.8	23.2	22.2	22.3	21.4	21.7	22.3	23.8	**24.7**	23.4	22.7	22.7	22.5	21.9	21.2	20.4	22.6	22.7	20.4	**24.7**	22.5
Apr 18	22.8	22.8	22.5	22.6	22.3	22.0	22.1	20.8	**NRM**	**NRM**	22.6	20.0	20.4	20.9	21.2	21.9	23.0	23.3	23.3	22.8	22.0	21.2	20.5	22.1	20.0	23.3	22.0
Apr 19	21.2	22.2	21.2	21.4	21.6	22.1	20.9	21.5	21.7	21.3	21.3	19.9	21.3	21.4	20.7	21.0	20.8	21.9	21.2	22.0	21.3	20.8	21.2	21.6	19.9	22.2	21.3
Apr 20	21.3	21.2	21.1	21.5	21.7	21.2	21.1	21.2	21.8	21.4	21.1	20.8	22.2	20.8	20.6	20.5	20.6	21.3	20.5	21.2	21.2	21.3	21.2	21.5	20.5	22.2	21.2
Apr 21	21.6	21.2	21.2	21.1	21.1	20.8	20.9	21.6	22.0	20.6	20.5	20.7	20.8	21.0	21.1	21.4	21.3	22.0	22.3	21.0	20.3	21.8	21.2	21.2	20.3	22.3	21.2
Apr 22	21.2	21.1	21.5	21.5	21.5	21.5	21.6	21.6	21.6	20.4	20.6	20.7	21.2	21.4	21.2	21.1	21.1	21.0	20.9	20.7	20.3	21.1	21.8	21.1	20.3	21.8	21.2
Apr 23	21.5	20.6	21.8	21.1	21.4	21.2	21.4	21.3	20.8	21.0	20.5	20.4	20.5	20.6	20.5	20.7	21.0	21.1	21.1	20.9	20.5	20.1	21.7	20.9	20.1	21.8	**20.9**
Apr 24	20.5	21.3	20.5	21.4	20.8	21.2	20.7	21.2	20.8	20.8	21.5	22.1	22.6	23.1	23.5	23.6	23.8	23.4	22.9	22.4	22.1	21.6	20.7	20.7	20.5	23.8	21.8
Apr 25	21.5	20.7	21.0	21.2	21.5	21.3	21.1	20.7	20.9	21.7	21.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2	20.9	20.6	20.3	21.4	21.5	21.5	20.3	21.7	21.1
Apr 26	21.4	21.4	21.8	21.4	21.4	21.3	21.5	20.8	20.6	20.8	21.1	21.6	22.1	22.2	22.1	22.0	21.6	21.3	20.9	20.6	20.3	20.7	20.4	20.9	20.3	22.2	21.3
Apr 27	21.8	20.5	21.4	20.6	21.2	21.2	20.8	20.5	20.3	20.9	21.8	22.4	23.0	23.4	23.7	24.0	24.2	24.4	24.3	24.1	23.8	23.6	23.1	22.8	20.3	24.4	22.4
Apr 28	22.5	22.0	21.6	21.2	20.7	20.7	20.7	21.4	22.2	22.6	23.3	23.8	24.2	24.4	24.3	24.2	24.2	24.4	24.3	24.5	23.9	23.0	22.2	21.9	20.7	24.5	22.8
Apr 29	21.8	21.2	21.1	21.2	21.3	21.3	21.3	21.7	22.5	23.6	**24.7**	23.5	20.6	19.9	20.2	20.0	20.8	20.5	20.6	20.6	22.7	23.5	23.6	23.7	19.9	**24.7**	21.7
Apr 30	23.5	23.4	23.2	23.0	22.3	21.7	21.9	22.7	23.6	24.6	22.6	20.6	20.3	**19.8**	20.3	20.4	20.2	20.5	20.1	20.5	20.5	20.6	21.3	23.3	**19.8**	24.6	21.7
Diurnal Maximum	24.1	24.1	24.3	24.3	24.4	24.3	24.4	24.7	24.5	24.7	24.7	24.5	24.5	24.4	24.7	24.7	24.6	24.7	24.5	24.5	24.7	24.5	24.5	24.3			
Diurnal Average	22.4	22.3	22.3	22.2	22.1	22.0	22.0	22.3	22.4	22.4	22.5	22.4	22.6	22.6	22.7	22.6	22.7	22.8	22.6	22.5	22.3	22.2	22.3	22.4			

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

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

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



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

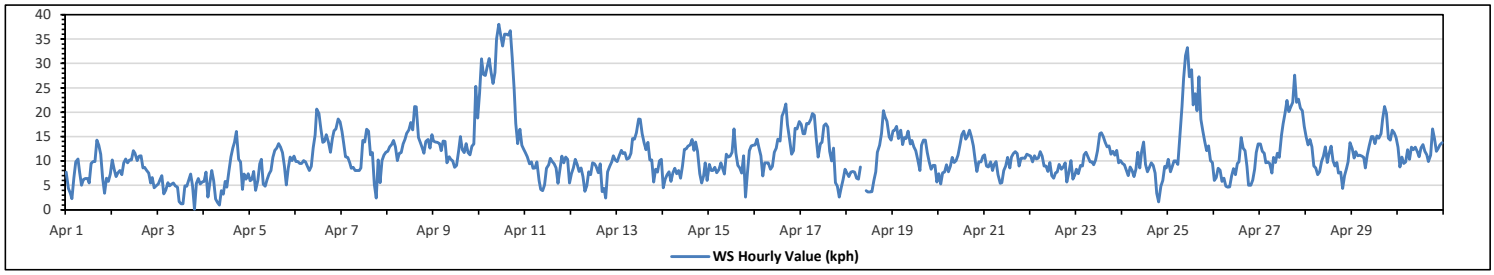
VECTOR WIND SPEED (VWS) in km/hr

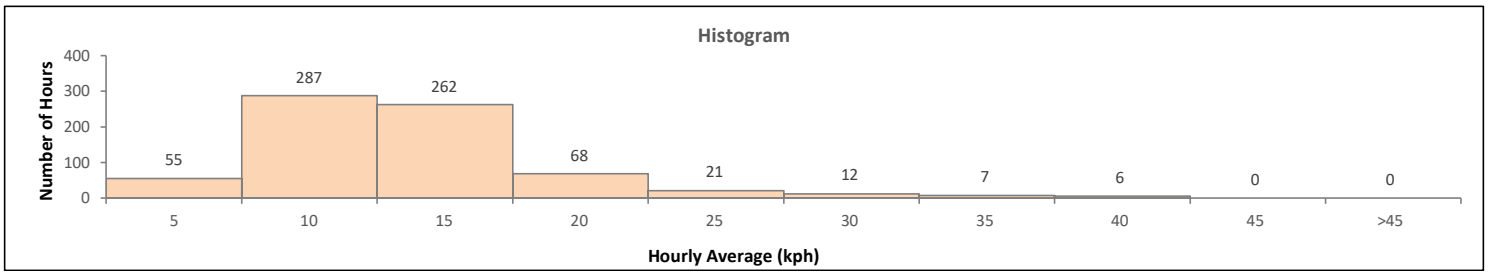
Maximum Hourly Value:	38.0	kph	on Apr 10 at hr 10	Hours in Service:	720
Maximum Daily Value:	27.9	kph	on Apr 10	Hours of Data:	718
Minimum Hourly Value:	0.1	kph	on Apr 3 at hr 19	Hours of Missing Data:	2
Minimum Daily Value:	4.7	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	3.8	kph		Operational Uptime:	99.7

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
Apr 1	7.7	4.4	3.4	2.3	6.5	9.8	10.4	7.7	5.0	6.2	6.4	6.4	5.5	9.5	9.9	9.9	14.3	13.2	11.4	6.5	3.4	6.5	5.8	7.3	2.3	14.3	7.5
Apr 2	10.2	8.3	6.8	7.6	8.0	7.2	9.6	10.4	9.6	10.2	10.2	12.1	11.6	10.1	11.0	11.1	8.6	8.7	8.1	7.5	5.5	6.6	4.5	4.9	4.5	12.1	8.7
Apr 3	5.3	6.3	7.0	3.3	4.0	5.6	4.9	5.2	5.5	4.9	4.6	1.7	1.2	1.2	4.9	4.8	6.1	7.3	4.9	**0.1**	5.4	6.4	5.3	5.7	**0.1**	7.3	**4.7**
Apr 4	5.8	7.7	2.6	5.5	8.0	5.9	2.2	1.5	1.0	3.9	3.2	5.8	4.6	8.1	10.9	12.7	13.8	16.0	10.3	9.8	4.2	7.3	6.3	7.4	1.0	16.0	6.9
Apr 5	5.9	6.2	7.9	4.0	6.0	9.4	10.3	5.2	4.8	6.2	7.3	8.0	10.7	12.2	12.6	13.6	12.8	11.7	9.0	5.1	8.5	10.8	10.1	11.0	4.0	13.6	8.7
Apr 6	9.9	9.9	9.5	9.5	10.1	9.8	8.9	8.0	8.9	12.7	15.3	20.6	19.7	16.6	13.8	14.0	15.4	13.7	11.8	14.6	16.2	16.6	18.6	18.0	8.0	20.6	13.4
Apr 7	16.0	13.7	10.9	10.7	9.7	8.5	8.7	8.0	8.0	8.0	8.6	14.2	13.9	16.5	16.1	11.3	11.7	5.2	2.4	10.2	5.6	10.1	11.2	11.8	2.4	16.5	10.5
Apr 8	12.0	12.9	13.4	14.2	12.9	10.1	11.6	11.7	13.5	14.5	15.7	16.4	17.9	16.4	21.2	21.1	14.8	13.7	12.6	11.6	14.0	14.4	12.6	15.4	10.1	21.2	14.4
Apr 9	14.1	13.9	13.8	13.6	12.1	14.1	14.0	9.6	10.9	10.3	10.0	8.7	9.1	12.3	15.0	12.3	11.7	13.6	11.7	11.3	13.0	13.5	25.3	18.8	8.7	25.3	13.0
Apr 10	24.0	30.9	27.7	27.5	29.4	31.0	28.1	25.9	28.1	35.0	**38.0**	35.7	33.6	36.0	36.0	35.8	36.7	31.1	24.7	17.7	13.6	16.5	13.2	12.5	12.5	**38.0**	**27.9**
Apr 11	11.7	10.9	9.4	9.8	8.5	8.6	9.8	5.9	4.2	3.9	5.1	8.5	9.2	10.5	9.9	9.4	8.6	5.4	8.2	11.0	9.6	10.8	10.3	5.5	3.9	11.7	8.5
Apr 12	7.4	8.6	10.3	9.3	7.9	8.6	6.8	3.8	4.9	7.8	7.2	9.6	9.4	8.9	7.6	9.4	3.7	4.4	2.4	7.8	9.0	9.8	11.1	10.2	2.4	11.1	7.7
Apr 13	9.9	11.2	12.2	11.5	11.7	10.3	10.6	11.6	14.6	14.5	15.8	18.6	18.5	15.6	13.7	12.3	13.8	10.2	10.2	5.7	8.3	7.7	10.0	10.3	5.7	18.6	12.0
Apr 14	4.5	6.3	7.2	7.8	5.8	7.6	8.5	7.4	8.0	6.5	9.0	12.4	12.5	13.0	13.3	14.4	12.2	13.9	12.0	7.4	5.5	6.9	9.6	6.0	4.5	14.4	9.1
Apr 15	9.3	8.0	8.0	8.7	7.6	8.2	9.6	8.6	7.3	11.4	10.8	11.0	11.8	16.6	11.6	9.1	8.6	7.5	11.1	2.6	7.6	12.1	13.1	13.2	2.6	16.6	9.7
Apr 16	13.3	14.5	12.7	11.1	6.9	9.6	9.6	9.6	8.3	8.9	11.8	12.6	14.5	14.1	19.2	20.2	21.7	17.5	14.3	11.4	12.1	16.7	16.6	18.1	6.9	21.7	13.6
Apr 17	17.5	15.6	15.6	17.7	17.6	18.5	19.7	19.4	14.6	10.8	13.6	13.8	17.2	17.6	17.0	12.0	10.0	12.6	5.6	4.8	2.6	4.5	6.2	8.3	2.6	19.7	13.0
Apr 18	7.5	6.8	7.7	7.9	7.7	6.5	6.3	8.8	NRM	NRM	3.9	3.6	3.6	3.7	5.9	7.8	11.8	13.2	15.7	20.3	19.1	18.2	14.9	14.3	3.6	20.3	9.8
Apr 19	16.2	16.3	17.1	14.6	16.3	13.4	14.8	14.6	16.1	13.5	14.2	12.9	12.1	10.3	8.0	13.2	14.3	14.3	11.7	9.8	8.3	9.1	9.1	5.7	5.7	17.1	12.7
Apr 20	7.4	5.3	7.6	7.7	9.2	7.8	8.9	10.7	9.7	10.1	11.2	13.2	15.4	16.1	14.5	15.0	16.3	14.9	13.1	10.0	7.9	9.8	9.8	11.0	5.3	16.3	10.9
Apr 21	11.3	9.0	8.8	9.8	8.0	9.3	9.9	7.2	5.4	5.6	8.0	9.0	10.7	8.6	10.8	11.5	11.9	11.5	9.0	10.5	10.6	10.5	11.4	11.2	5.4	11.9	9.6
Apr 22	11.0	9.8	11.1	10.4	10.6	11.9	11.0	9.0	9.0	7.9	9.7	7.0	6.5	7.6	7.7	9.3	8.3	8.8	9.6	5.7	7.5	10.1	6.3	7.1	5.7	11.9	8.9
Apr 23	8.3	7.4	9.1	9.0	11.3	11.8	10.9	9.8	9.8	9.2	10.2	12.1	15.6	15.8	15.0	13.8	12.9	13.1	11.4	12.0	11.2	12.2	9.6	10.1	7.4	15.8	11.3
Apr 24	9.5	9.2	8.1	7.0	8.8	8.0	6.8	8.3	11.8	8.6	12.0	13.9	9.3	7.8	8.5	9.6	9.1	7.5	3.4	1.6	4.8	6.0	8.9	8.6	1.6	13.9	8.2
Apr 25	10.3	7.8	9.0	10.0	10.0	9.3	15.7	21.2	26.9	31.6	33.2	27.3	28.7	21.5	23.8	20.3	27.3	18.5	16.2	14.0	12.1	13.1	10.1	9.7	7.8	33.2	17.8
Apr 26	6.0	6.6	8.5	8.1	5.8	6.5	4.8	4.6	4.7	6.9	8.4	7.2	9.5	9.8	14.8	12.6	12.1	8.9	5.0	5.0	6.1	8.3	11.7	13.5	4.6	14.8	8.1
Apr 27	13.5	12.0	11.6	9.6	9.8	9.5	7.5	10.7	9.7	11.6	10.7	15.3	17.6	19.8	22.4	20.1	21.1	22.0	27.6	22.0	22.7	20.8	20.3	17.1	7.5	27.6	16.0
Apr 28	14.9	13.3	14.4	12.9	9.0	8.6	7.2	7.8	9.9	11.0	12.9	9.7	11.4	13.0	10.0	9.0	9.7	7.5	7.7	4.4	7.0	8.4	9.8	13.7	4.4	14.9	10.1
Apr 29	12.5	10.6	11.9	11.1	11.2	11.0	10.7	8.6	11.3	13.1	15.0	15.0	13.6	15.1	14.7	15.6	18.6	21.2	19.7	14.7	14.3	16.3	15.8	14.8	8.6	21.2	14.0
Apr 30	12.8	8.8	10.8	9.5	9.8	12.3	10.3	12.8	12.3	12.8	12.0	10.9	12.7	13.4	12.0	11.3	9.9	11.2	16.6	14.6	12.0	12.5	13.3	13.7	8.8	16.6	12.0
Diurnal Maximum	24.0	30.9	27.7	27.5	29.4	31.0	28.1	25.9	28.1	35.0	38.0	35.7	33.6	36.0	36.0	35.8	36.7	31.1	27.6	22.0	22.7	20.8	25.3	18.8			
Diurnal Average	10.9	10.4	10.5	10.1	10.0	10.3	10.3	9.8	10.1	11.0	11.8	12.4	12.9	13.3	13.7	13.4	13.6	12.6	11.2	9.7	9.6	11.1	11.4	11.2			

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

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



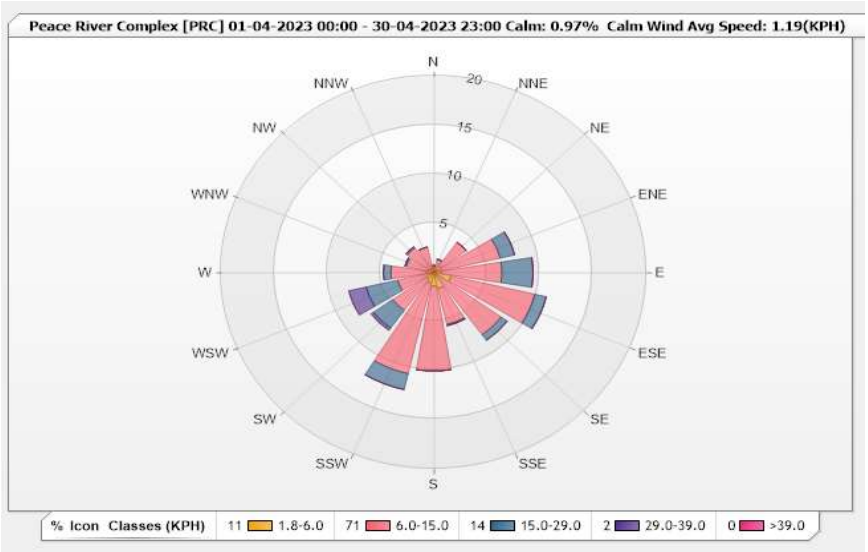


Station: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 04-2023

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

Calm (WS<1.8kph): 0.97% Valid Data: 99.72%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.56	0.14	0	0	0	0.7
NNE	0.14	1.25	0	0	0	1.39
NE	0.84	2.92	0	0	0	3.76
ENE	0.14	6.27	1.39	0	0	7.8
E	0.7	5.71	2.92	0	0	9.33
ESE	1.67	8.08	1.11	0	0	10.86
SE	0.28	7.52	0.7	0	0	8.5
SSE	1.67	3.76	0.14	0	0	5.57
S	1.39	8.64	0	0	0	10.03
SSW	1.11	9.47	1.67	0	0	12.25
SW	0.84	3.9	2.23	0.28	0	7.25
WSW	0	3.48	3.06	1.67	0	8.21
W	0.7	3.34	0.7	0	0	4.74
WNW	0.56	2.09	0.14	0	0	2.79
NW	0.42	2.65	0.14	0	0	3.21
NNW	0.42	2.23	0	0	0	2.65
Summary	11.44	71.45	14.2	1.95	0	99.04



Peace River Area Monitoring Program

Peace River Complex (PRC) Station - April 2023

Summary of Hourly Averages

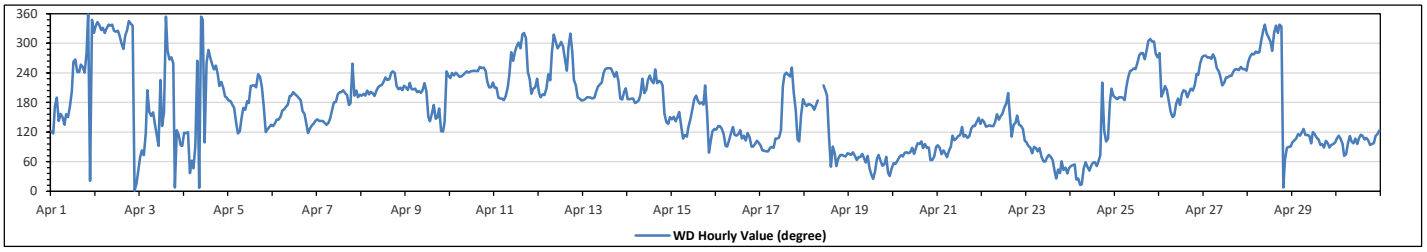
WIND DIRECTION (VWD) in sector

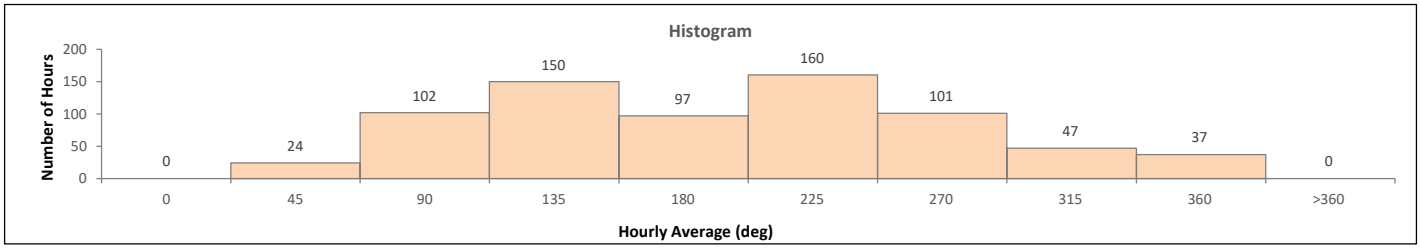
Monthly Average:	175 (S)	degree	
Hours in Service:	720		
Hours of Data:	718		
Hours of Missing Data:	2		
Hours of Calibration:	0		
Operational Uptime:	99.7		

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
Apr 1	ESE	ESE	S	S	SE	SSE	SSE	SE	SSE	SSE	S	SSW	W	W	WSW	WSW	WSW	WSW	W	N	NNE	NNW	NW		216	SW
Apr 2	NNW	NNW	NNW	NW	NNW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	NNE	NE	330	NNW
Apr 3	ENE	E	ENE	ESE	SSW	SSE	SSE	SSE	SE	ESE	E	SW	SE	SSE	N	WNW	W	W	WSW	N	ESE	ESE	E	E	126	SE
Apr 4	ESE	ESE	ESE	NE	ENE	NE	E	W	N	N	NNW	E	W	WNW	W	WSW	WSW	WSW	SW	SSW	SW	SSW	S	S	236	SW
Apr 5	S	S	S	SSE	SE	ESE	ESE	SE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SW	SW	SSW	SSE	ESE	SE	SE	SE	177	S
Apr 6	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	S	S	SSE	SSE	SE	ESE	SE	SE	SE	SE	162	SSE
Apr 7	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	S	WSW	SSW	SSW	S	SSW	178	S
Apr 8	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	214	SSW
Apr 9	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSE	SE	SSE	S	SE	SSE	SSE	ESE	ESE	SE	WSW	SW	189	S
Apr 10	SW	WSW	SW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SW	239	WSW
Apr 11	SSW	SSW	S	S	S	S	S	SSW	SW	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	WSW	SW	SSW	SSW	SSW	SW	235	SW
Apr 12	SSW	S	SSW	SSW	SSW	SW	SW	W	NW	WNW	WNW	WNW	WNW	WNW	W	WSW	WNW	NW	W	SW	SSW	S	S	S	238	SW
Apr 13	S	S	S	S	S	S	S	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	S	S	SSW	SSW	217	SW
Apr 14	S	S	S	S	S	S	S	SSW	SW	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	SSW	SSE	SE	SE	SSE	205	SSW
Apr 15	SE	SSE	SE	SSE	SSE	SE	ESE	ESE	ESE	SE	SE	SSE	S	SSW	S	S	S	S	SSW	SSE	ENE	ESE	ESE	SE	150	SSE
Apr 16	SE	SE	SE	SE	ESE	E	E	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E	111	ESE
Apr 17	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SSW	SW	WSW	SW	SW	WSW	SSW	SSE	ESE	E	SSE	S	123	ESE
Apr 18	S	S	S	S	S	SSE	S	S	NRM	NRM	SSW	SSW	SSW	ESE	NE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	100	E
Apr 19	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NE	ENE	ENE	ENE	NE	NE	ENE	NE	NNE	NE	62	ENE
Apr 20	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	E	E	E	E	E	E	E	E	ENE	ENE	ENE	E	82	E
Apr 21	E	E	ENE	E	ENE	ENE	E	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SSE	SE	110	ESE
Apr 22	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SSE	SSE	SSE	S	SSW	SSE	ESE	SE	SE	SSE	SE	SE	SE	E	142	SE
Apr 23	E	E	E	ENE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NE	NE	ENE	NE	NE	NE	NE	64	ENE
Apr 24	NE	NE	NE	NNE	NNE	NNE	NNE	NE	ENE	NE	NE	NE	ENE	ENE	NE	ENE	ENE	SW	ESE	E	ESE	S	SSW	S	57	ENE
Apr 25	S	S	S	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	W	WNW	WNW	NW	WNW	WNW	W	W	256	WSW
Apr 26	W	S	SSW	SSW	SSW	S	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SW	SW	WSW	W	208	SSW
Apr 27	W	W	W	W	W	W	W	WSW	WSW	SW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	247	WSW
Apr 28	W	W	W	W	WNW	W	W	NW	NW	NNW	NW	NW	WNW	WNW	NW	NNW	NW	NNW	NNW	N	ENE	E	E	E	311	NW
Apr 29	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	E	E	E	E	E	E	E	E	E	104	ESE
Apr 30	ESE	ESE	ESE	E	ENE	ENE	E	ESE	E	E	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	103	ESE

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 - April 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	38.0	kph	on Apr 10 at hr 10	Hours in Service:	720
Maximum Daily Value:	27.9	kph	on Apr 10	Hours of Data:	718
Minimum Hourly Value:	0.1	kph	on Apr 3 at hr 19	Hours of Missing Data:	2
Minimum Daily Value:	4.7	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	3.8	kph		Operational Uptime:	99.7

WIND DIRECTION

Monthly Average: 175 degree (S)

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	7.7	4.4	3.4	2.3	6.5	9.8	10.4	7.7	5.0	6.2	6.4	6.4	5.5	9.5	9.9	9.9	14.3	13.2	11.4	6.5	3.4	6.5	5.8	7.3	2.3	14.3	7.5
	ESE	ESE	S	S	SE	SSE	SSE	SE	SSE	SSE	S	SSW	W	W	WSW	WSW	WSW	WSW	WSW	W	N	NNE	NNW	NW			
Apr 2	10.2	8.3	6.8	7.6	8.0	7.2	9.6	10.4	9.6	10.2	10.2	12.1	11.6	10.1	11.0	11.1	8.6	8.7	8.1	7.5	5.5	6.6	4.5	4.9	4.5	12.1	8.7
	NNW	NNW	NNW	NW	NNW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	NNE	NE			
Apr 3	5.3	6.3	7.0	3.3	4.0	5.6	4.9	5.2	5.5	4.9	4.6	1.7	1.2	1.2	4.9	4.8	6.1	7.3	4.9	**0.1**	5.4	6.4	5.3	5.7	**0.1**	7.3	**4.7**
	ENE	E	ENE	ESE	SSW	SSE	SSE	SSE	SE	ESE	E	SW	SE	SSE	N	WNW	W	W	WSW	N	ESE	ESE	E	E			
Apr 4	5.8	7.7	2.6	5.5	8.0	5.9	2.2	1.5	1.0	3.9	3.2	5.8	4.6	8.1	10.9	12.7	13.8	16.0	10.3	9.8	4.2	7.3	6.3	7.4	1.0	16.0	6.9
	ESE	ESE	ESE	NE	ENE	NE	E	W	N	N	NNW	E	W	WNW	W	WSW	WSW	WSW	SW	SSW	SW	SSW	S	S			
Apr 5	5.9	6.2	7.9	4.0	6.0	9.4	10.3	5.2	4.8	6.2	7.3	8.0	10.7	12.2	12.6	13.6	12.8	11.7	9.0	5.1	8.5	10.8	10.1	11.0	4.0	13.6	8.7
	S	S	S	SSE	SE	ESE	ESE	SE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SW	SW	SSW	SSE	ESE	SE	SE	SE			
Apr 6	9.9	9.9	9.5	9.5	10.1	9.8	8.9	8.0	8.9	12.7	15.3	20.6	19.7	16.6	13.8	14.0	15.4	13.7	11.8	14.6	16.2	16.6	18.6	18.0	8.0	20.6	13.4
	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	S	S	SSE	SSE	SE	ESE	SE	SE	SE	SE			
Apr 7	16.0	13.7	10.9	10.7	9.7	8.5	8.7	8.0	8.0	8.0	8.6	14.2	13.9	16.5	16.1	11.3	11.7	5.2	2.4	10.2	5.6	10.1	11.2	11.8	2.4	16.5	10.5
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	S	S	WSW	SSW	SSW	S	SSW			
Apr 8	12.0	12.9	13.4	14.2	12.9	10.1	11.6	11.7	13.5	14.5	15.7	16.4	17.9	16.4	21.2	21.1	14.8	13.7	12.6	11.6	14.0	14.4	12.6	15.4	10.1	21.2	14.4
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW			
Apr 9	14.1	13.9	13.8	13.6	12.1	14.1	14.0	9.6	10.9	10.3	10.0	8.7	9.1	12.3	15.0	12.3	11.7	13.6	11.7	11.3	13.0	13.5	25.3	18.8	8.7	25.3	13.0
	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSE	SE	SSE	S	SE	SSE	SSE	ESE	ESE	SE	WSW	SW			
Apr 10	24.0	30.9	27.7	27.5	29.4	31.0	28.1	25.9	28.1	35.0	**38.0**	35.7	33.6	36.0	36.0	35.8	36.7	31.1	24.7	17.7	13.6	16.5	13.2	12.5	12.5	**38.0**	**27.9**
	SW	WSW	SW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SW			
Apr 11	11.7	10.9	9.4	9.8	8.5	8.6	9.8	5.9	4.2	3.9	5.1	8.5	9.2	10.5	9.9	9.4	8.6	5.4	8.2	11.0	9.6	10.8	10.3	5.5	3.9	11.7	8.5
	SSW	SSW	S	S	S	S	S	SSW	SW	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	WSW	SW	SSW	SSW	SSW	SW			
Apr 12	7.4	8.6	10.3	9.3	7.9	8.6	6.8	3.8	4.9	7.8	7.2	9.6	9.4	8.9	7.6	9.4	3.7	4.4	2.4	7.8	9.0	9.8	11.1	10.2	2.4	11.1	7.7
	SSW	S	SSW	SSW	SSW	SW	SW	W	NW	WNW	WNW	WNW	WNW	WNW	W	WSW	WNW	NW	W	SW	SSW	S	S	S			
Apr 13	9.9	11.2	12.2	11.5	11.7	10.3	10.6	11.6	14.6	14.5	15.8	18.6	18.5	15.6	13.7	12.3	13.8	10.2	10.2	5.7	8.3	7.7	10.0	10.3	5.7	18.6	12.0
	S	S	S	S	S	S	S	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	S	S	SSW	SSW			
Apr 14	4.5	6.3	7.2	7.8	5.8	7.6	8.5	7.4	8.0	6.5	9.0	12.4	12.5	13.0	13.3	14.4	12.2	13.9	12.0	7.4	5.5	6.9	9.6	6.0	4.5	14.4	9.1
	S	S	S	S	S	S	S	SSW	SW	SSW	SSW	SW	SW	SW	SW	WSW	SW	SW	SW	SSW	SSE	SE	SE	SSE			
Apr 15	9.3	8.0	8.0	8.7	7.6	8.2	9.6	8.6	7.3	11.4	10.8	11.0	11.8	16.6	11.6	9.1	8.6	7.5	11.1	2.6	7.6	12.1	13.1	13.2	2.6	16.6	9.7
	SE	SSE	SE	SSE	SSE	SE	ESE	ESE	ESE	SE	SE	SSE	S	SSW	S	S	S	S	SSW	SSE	ENE	ESE	ESE	SE			
Apr 16	13.3	14.5	12.7	11.1	6.9	9.6	9.6	9.6	8.3	8.9	11.8	12.6	14.5	14.1	19.2	20.2	21.7	17.5	14.3	11.4	12.1	16.7	16.6	18.1	6.9	21.7	13.6
	SE	SE	SE	SE	ESE	E	E	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E			
Apr 17	17.5	15.6	15.6	17.7	17.6	18.5	19.7	19.4	14.6	10.8	13.6	13.8	17.2	17.6	17.0	12.0	10.0	12.6	5.6	4.8	2.6	4.5	6.2	8.3	2.6	19.7	13.0
	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	SSW	SW	WSW	SW	SW	WSW	SSW	SSE	ESE	E	SSE	S			
Apr 18	7.5	6.8	7.7	7.9	7.7	6.5	6.3	8.8	**NRM**	**NRM**	3.9	3.6	3.6	3.7	5.9	7.8	11.8	13.2	15.7	20.3	19.1	18.2	14.9	14.3	3.6	20.3	9.8
	S	S	S	S	S	SSE	S	S	**NRM**	**NRM**	SSW	SSW	SSW	ESE	NE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE			
Apr 19	16.2	16.3	17.1	14.6	16.3	13.4	14.8	14.6	16.1	13.5	14.2	12.9	12.1	10.3	8.0	13.2	14.3	14.3	11.7	9.8	8.3	9.1	9.1	5.7	5.7	17.1	12.7
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NE	ENE	ENE	ENE	NE	NE	ENE	NE	NNE	NE			
Apr 20	7.4	5.3	7.6	7.7	9.2	7.8	8.9	10.7	9.7	10.1	11.2	13.2	15.4	16.1	14.5	15.0	16.3	14.9	13.1	10.0	7.9	9.8	9.8	11.0	5.3	16.3	10.9
	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	E	E	E	E	E	E	E	E	ENE	ENE	ENE	E			
Apr 21	11.3	9.0	8.8	9.8	8.0	9.3	9.9	7.2	5.4	5.6	8.0	9.0	10.7	8.6	10.8	11.5	11.9	11.5	9.0	10.5	10.6	10.5	11.4	11.2	5.4	11.9	9.6
	E	E	ENE	E	ENE	ENE	E	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SSE	SE			
Apr 22	11.0	9.8	11.1	10.4	10.6	11.9	11.0	9.0	9.0	7.9	9.7	7.0	6.5	7.6	7.7	9.3	8.3	8.8	9.6	5.7	7.5	10.1	6.3	7.1	5.7	11.9	8.9
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SSE	SSE	SSE	S	SSW	SSE	ESE	SE	SE	SSE	SE	SE	SE	E			
Apr 23	8.3	7.4	9.1	9.0	11.3	11.8	10.9	9.8	9.8	9.2	10.2	12.1	15.6	15.8	15.0	13.8	12.9	13.1	11.4	12.0	11.2	12.2	9.6	10.1	7.4	15.8	11.3
	E	E	E	ENE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NE	NE	ENE	NE	NE	NE	NE			
Apr 24	9.5	9.2	8.1	7.0	8.8	8.0	6.8	8.3	11.8	8.6	12.0	13.9	9.3	7.8	8.5	9.6	9.1	7.5	3.4	1.6	4.8	6.0	8.9	8.6	1.6	13.9	8.2
	NE	NE	NE	NNE	NNE	NNE	NNE	NE	ENE	NE	NE	NE	ENE	ENE	NE	ENE	ENE	SW	ESE	E	ESE	S	SSW	S			
Apr 25	10.3	7.8	9.0	10.0	10.0	9.3	15.7	21.2	26.9	31.6	33.2	27.3	28.7	21.5	23.8	20.3	27.3	18.5	16.2	14.0	12.1	13.1	10.1	9.7	7.8	33.2	17.8
	S	S	S	S	S	S	SSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	W	WNW	WNW	NW	WNW	WNW	W	W			
Apr 26	6.0	6.6	8.5	8.1	5.8	6.5	4.8	4.6	4.7	6.9	8.4	7.2	9.5	9.8	14.8	12.6	12.1	8.9	5.0	5.0	6.1	8.3	11.7	13.5	4.6	14.8	8.1
	W	S	SSW	SSW	SSW	S	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SW	SW	WSW	W			
Apr 27	13.5	12.0	11.6	9.6	9.8	9.5	7.5	10.7	9.7	11.6	10.7	15.3	17.6	19.8	22.4	20.1	21.1	22.0	27.6	22.0	22.7	20.8	20.3	17.1	7.5	27.6	16.0
	W	W	W	W	W	W	W	WSW	WSW	SW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW			
Apr 28	14.9	13.3	14.4	12.9	9.0	8.6	7.2	7.8	9.9	11.0	12.9	9.7	11.4	13.0	10.0	9.0	9.7	7.5	7.7	4.4	7.0	8.4	9.8	13.7	4.4	14.9	10.1
	W	W	W	W	WNW	W	W	NW	NW	NNW	NW	NW	WNW	WNW	NW	NNW	NW	NNW	NNW	N	ENE	E	E	E			
Apr 29	12.5	10.6	11.9	11.1	11.2	11.0	10.7	8.6	11.3	13.1	15.0	15.0	13.6	15.1	14.7	15.6	18.6	21.2	19.7	14.7	14.3	16.3	15.8	14.8	8.6	21.2	14.0
	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	E	E	E	E	E	E	E	E	E			
Apr 30	12.8	8.8	10.8	9.5	9.8	12.3	10.3	12.8	12.3	12.8	12.0	10.9	12.7	13.4	12.0	11.3	9.9	11.2	16.6	14.6	12.0	12.5	13.3	13.7	8.8	16.6	12.0
	ESE	ESE	ESE	E	ENE	ENE	E	ESE	E	E	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE			

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

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

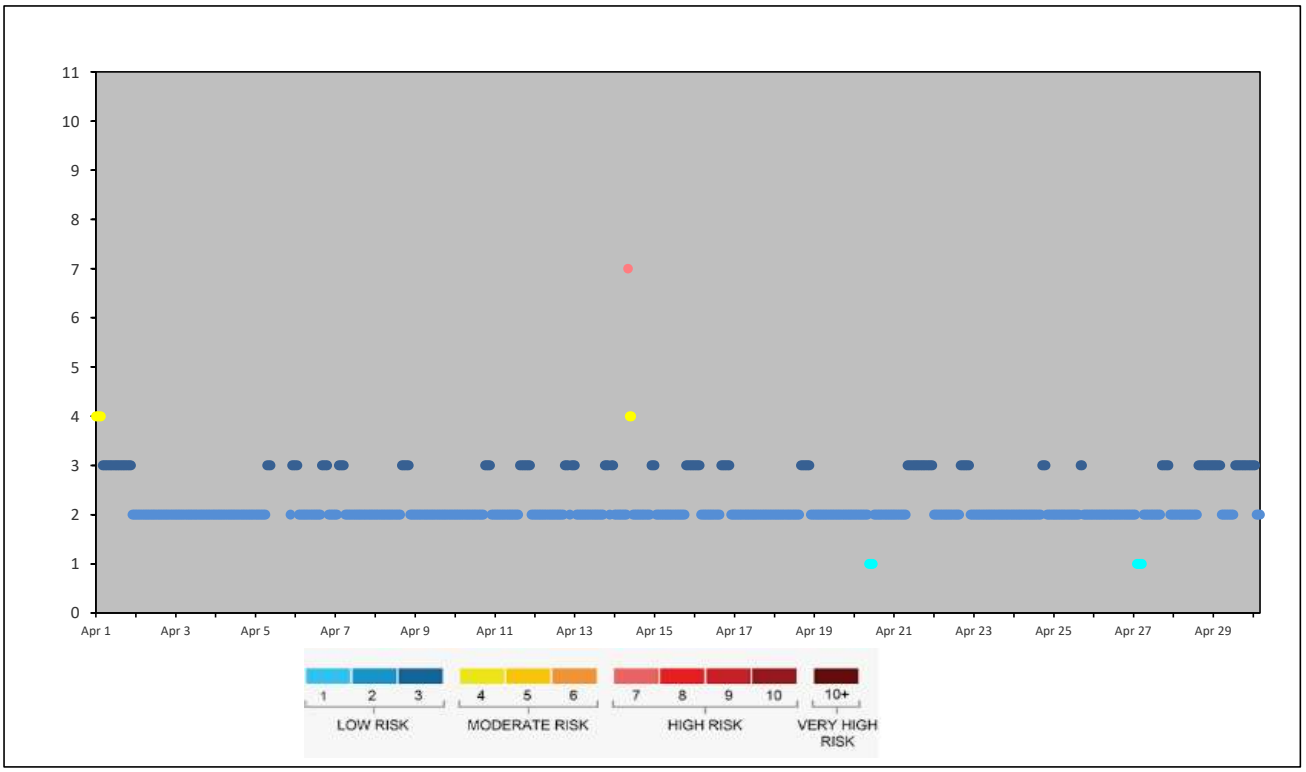
AQHI GRIMSHAW STATION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION

AQHI - Grimshaw Station - April 2023

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
Apr 1	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
Apr 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr 5	2	2	2	2	2	2	2	3	3	3												2	3	3
Apr 6	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	3
Apr 7	2	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr 8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	2	2
Apr 9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr 10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2
Apr 11	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	2
Apr 12	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	3	3
Apr 13	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	3	3
Apr 14	2	2	2	2	2	2	2	2	7	4	4	2	2	2	2	2	2	2	2	2	2	2	3	3
Apr 15	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
Apr 16	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2
Apr 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
Apr 18	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2
Apr 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
Apr 20	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
Apr 21	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Apr 22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2
Apr 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
Apr 24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	2
Apr 25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2
Apr 26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr 27	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2	2
Apr 28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
Apr 29	3	3	3	3	3	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
Apr 30	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	3



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) in ppb

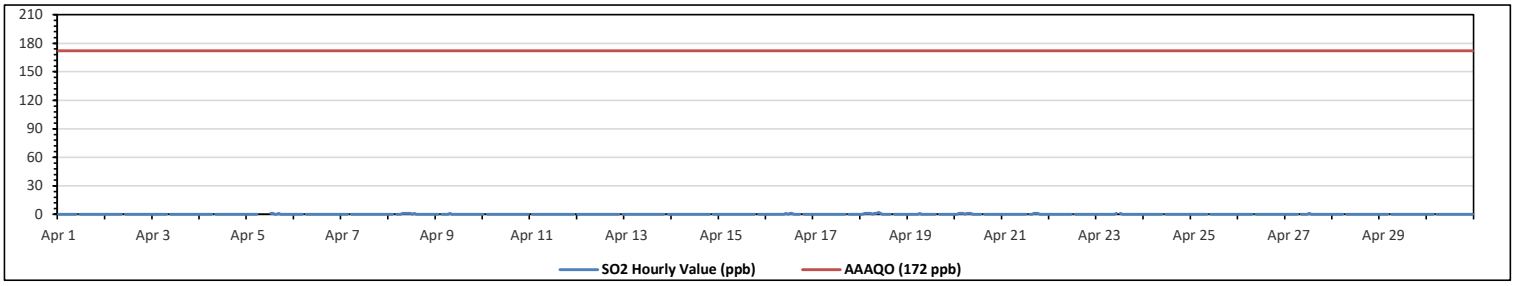
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

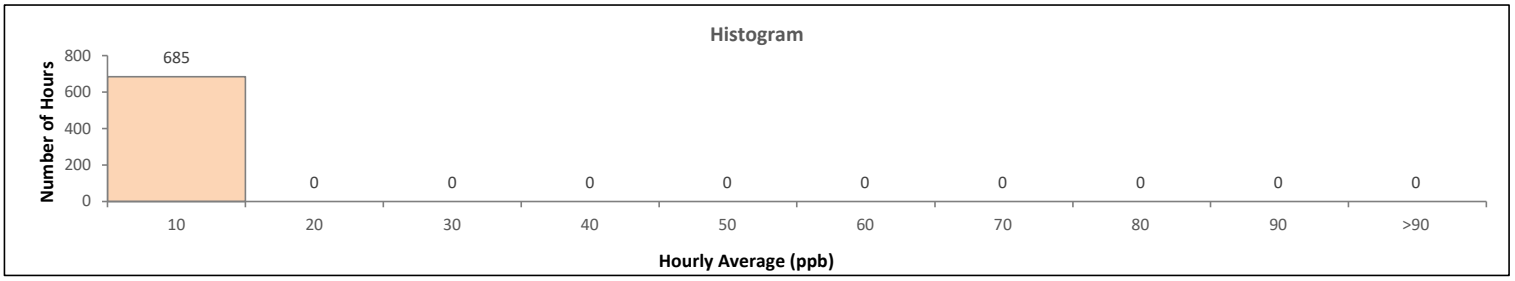
Number of 1-Hour Exceedances:	0	Number of 24-Hour Exceedances:	0	30-Day Exceedence:	0			
Maximum Hourly Value:	2	ppb	on Apr 18 at hr 9	Hours in Service:	720			
Maximum Daily Value:	0.4	ppb	on Apr 18	Hours of Data:	685			
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 0	Hours of Missing Data:	0			
Minimum Daily Value:	0.0	ppb	on Apr 1	Hours of Calibration:	35			
Monthly Average:	0.1	ppb		Operational Uptime:	100.0			

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	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
Apr 2	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
Apr 3	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
Apr 4	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
Apr 5	0	0	0	0	0	0	S	0	C	C	C	C	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0.2
Apr 6	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
Apr 7	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
Apr 8	0	0	0	S	0	0	0	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3
Apr 9	0	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Apr 10	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
Apr 11	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
Apr 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Apr 13	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
Apr 14	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
Apr 15	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
Apr 16	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	S	0	0	0	0	0	0	1	0.1
Apr 17	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
Apr 18	0	0	1	1	1	1	0	1	1	2	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	2	0.4
Apr 19	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.0
Apr 20	0	0	1	1	1	0	1	1	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.3
Apr 21	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	1	1	0	0	0	0	0	0	1	0.1
Apr 22	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
Apr 23	0	0	0	0	0	0	0	0	0	0	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	0	0	0	0	0	0	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Apr 28	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
Apr 29	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
Apr 30	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
Diurnal Maximum	0	0	1	1	1	1	1	1	1	2	1	1	1	1	0	0	1	1	1	0	0	0	0	0			
Diurnal Average	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	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.



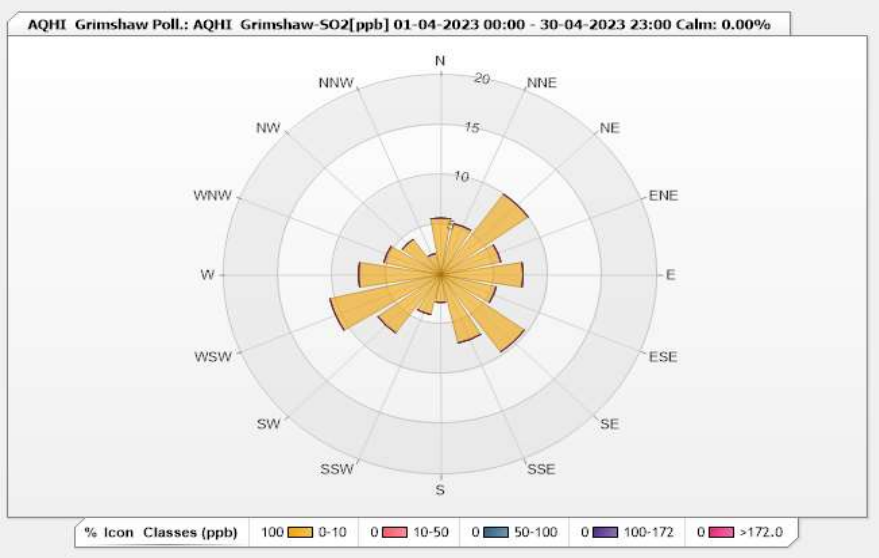


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 04-2023

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	0-10	10-50	50-100	100-172	>172.0	Total
N	5.69	0	0	0	0	5.69
NNE	5.26	0	0	0	0	5.26
NE	9.93	0	0	0	0	9.93
ENE	5.69	0	0	0	0	5.69
E	7.59	0	0	0	0	7.59
ESE	5.26	0	0	0	0	5.26
SE	9.49	0	0	0	0	9.49
SSE	7.01	0	0	0	0	7.01
S	2.77	0	0	0	0	2.77
SSW	4.09	0	0	0	0	4.09
SW	7.15	0	0	0	0	7.15
WSW	10.51	0	0	0	0	10.51
W	7.59	0	0	0	0	7.59
WNW	5.4	0	0	0	0	5.4
NW	4.38	0	0	0	0	4.38
NNW	2.19	0	0	0	0	2.19
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

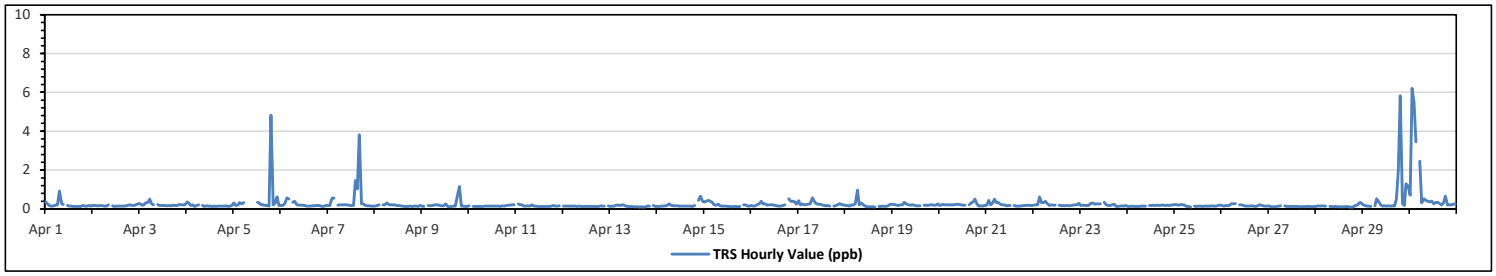
TOTAL REDUCED SULPHUR (TRS) in ppb

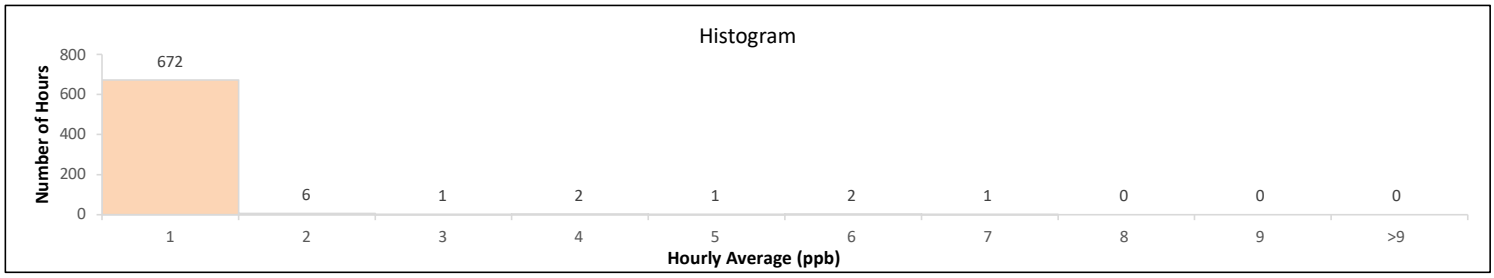
Maximum Hourly Value:	6.21	ppb	on Apr 30 at hr 1	Hours in Service:	720	
Maximum Daily Value:	1.05	ppb	on Apr 30	Hours of Data:	685	
Minimum Hourly Value:	0.09	ppb	on Apr 28 at hr 18	Hours of Missing Data:	0	
Minimum Daily Value:	0.13	ppb	on Apr 27	Hours of Calibration:	35	
Monthly Average:	0.25	ppb		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			
Apr 1	0.36	0.25	0.16	0.15	0.16	0.19	0.21	0.91	0.27	0.23	S	0.17	0.15	0.14	0.13	0.12	0.13	0.12	0.12	0.18	0.15	0.15	0.17	0.14	0.12	0.91	0.21
Apr 2	0.18	0.17	0.16	0.16	0.17	0.16	0.15	0.15	0.2	S	0.16	0.13	0.14	0.15	0.15	0.15	0.15	0.16	0.19	0.2	0.17	0.17	0.2	0.27	0.13	0.27	0.17
Apr 3	0.28	0.19	0.19	0.3	0.33	0.5	0.27	0.2	S	0.23	0.18	0.18	0.17	0.17	0.16	0.18	0.16	0.19	0.18	0.17	0.23	0.2	0.22	0.2	0.16	0.50	0.22
Apr 4	0.36	0.31	0.18	0.21	0.13	0.17	0.22	S	0.17	0.13	0.16	0.15	0.14	0.13	0.14	0.13	0.14	0.15	0.14	0.15	0.16	0.13	0.15	0.17	0.13	0.36	0.17
Apr 5	0.3	0.18	0.21	0.33	0.26	0.33	S	0.36	C	C	C	C	0.34	0.29	0.21	0.21	0.18	0.17	0.15	4.83	0.22	0.29	0.61	0.18	0.15	4.83	0.51
Apr 6	0.17	0.19	0.25	0.58	0.51	S	0.34	0.38	0.22	0.19	0.19	0.19	0.17	0.15	0.14	0.15	0.16	0.16	0.18	0.18	0.16	0.13	0.15	0.17	0.13	0.58	0.22
Apr 7	0.17	0.17	0.55	0.55	S	0.19	0.2	0.2	0.2	0.22	0.2	0.18	0.18	0.18	1.46	1.03	3.82	0.25	0.27	0.17	0.16	0.16	0.14	0.15	0.14	3.82	0.47
Apr 8	0.15	0.17	0.21	S	0.22	0.21	0.3	0.23	0.2	0.2	0.2	0.18	0.17	0.16	0.15	0.13	0.12	0.13	0.14	0.13	0.15	0.14	0.13	0.17	0.12	0.30	0.17
Apr 9	0.14	0.13	S	0.18	0.16	0.18	0.19	0.22	0.21	0.18	0.16	0.16	0.26	0.12	0.11	0.13	0.14	0.14	0.7	1.14	0.14	0.14	0.12	0.13	0.11	1.14	0.23
Apr 10	0.16	S	0.13	0.13	0.13	0.13	0.12	0.13	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.16	0.15	0.17	0.19	0.19	0.21	0.21	0.12	0.21	0.15
Apr 11	S	0.25	0.2	0.2	0.15	0.15	0.16	0.15	0.21	0.15	0.15	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.14	0.17	0.15	0.15	0.16	S	0.12	0.25	0.16
Apr 12	0.15	0.14	0.15	0.15	0.14	0.14	0.15	0.13	0.14	0.13	0.12	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.16	0.15	0.15	S	0.16	0.12	0.16	0.14
Apr 13	0.13	0.15	0.15	0.19	0.19	0.17	0.2	0.19	0.14	0.12	0.11	0.13	0.11	0.11	0.11	0.1	0.11	0.1	0.11	0.14	0.15	S	0.17	0.13	0.10	0.20	0.14
Apr 14	0.12	0.12	0.14	0.14	0.16	0.17	0.25	0.19	0.16	0.16	0.16	0.14	0.15	0.14	0.14	0.14	0.14	0.15	0.13	0.17	S	0.44	0.65	0.39	0.12	0.65	0.20
Apr 15	0.36	0.39	0.45	0.38	0.34	0.2	0.19	0.24	0.16	0.15	0.15	0.14	0.12	0.12	0.11	0.12	0.12	0.11	0.12	S	0.2	0.2	0.15	0.14	0.11	0.45	0.20
Apr 16	0.17	0.15	0.16	0.23	0.27	0.38	0.25	0.27	0.19	0.2	0.21	0.2	0.18	0.16	0.15	0.15	0.18	0.21	S	0.53	0.38	0.4	0.37	0.24	0.15	0.53	0.24
Apr 17	0.42	0.21	0.25	0.2	0.23	0.24	0.27	0.57	0.4	0.28	0.24	0.24	0.2	0.18	0.16	0.17	0.15	S	0.15	0.17	0.2	0.28	0.2	0.21	0.15	0.57	0.24
Apr 18	0.17	0.17	0.14	0.21	0.19	0.28	0.98	0.2	0.31	0.21	0.14	0.11	0.11	0.11	0.11	0.1	S	0.12	0.13	0.14	0.13	0.15	0.18	0.24	0.10	0.98	0.20
Apr 19	0.23	0.23	0.19	0.17	0.22	0.2	0.34	0.26	0.21	0.19	0.22	0.19	0.16	0.16	0.16	S	0.19	0.19	0.18	0.2	0.2	0.19	0.19	0.27	0.16	0.34	0.21
Apr 20	0.18	0.2	0.23	0.21	0.21	0.21	0.22	0.21	0.23	0.24	0.23	0.2	0.19	0.19	S	0.21	0.29	0.35	0.5	0.27	0.15	0.16	0.15	0.17	0.15	0.50	0.23
Apr 21	0.19	0.44	0.22	0.29	0.51	0.32	0.33	0.24	0.2	0.22	0.16	0.17	0.17	S	0.17	0.15	0.15	0.15	0.16	0.17	0.18	0.19	0.18	0.18	0.15	0.51	0.22
Apr 22	0.19	0.2	0.22	0.63	0.32	0.33	0.4	0.25	0.18	0.2	0.19	0.19	S	0.19	0.16	0.17	0.16	0.17	0.16	0.18	0.19	0.21	0.2	0.29	0.16	0.63	0.23
Apr 23	0.17	0.19	0.18	0.17	0.17	0.28	0.3	0.24	0.25	0.26	0.26	S	0.34	0.21	0.17	0.17	0.21	0.24	0.13	0.13	0.15	0.16	0.14	0.17	0.13	0.34	0.20
Apr 24	0.12	0.13	0.14	0.13	0.13	0.13	0.13	0.14	0.15	0.15	S	0.18	0.18	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.17	0.19	0.22	0.12	0.22	0.16
Apr 25	0.23	0.2	0.19	0.23	0.21	0.19	0.13	0.12	0.1	S	0.14	0.13	0.14	0.14	0.13	0.15	0.14	0.15	0.14	0.16	0.15	0.15	0.18	0.19	0.10	0.23	0.16
Apr 26	0.17	0.15	0.17	0.16	0.19	0.28	0.26	0.28	S	0.22	0.21	0.18	0.15	0.15	0.14	0.16	0.15	0.13	0.14	0.2	0.19	0.16	0.14	0.14	0.13	0.28	0.18
Apr 27	0.16	0.11	0.11	0.11	0.13	0.15	0.16	S	0.16	0.13	0.12	0.13	0.12	0.13	0.12	0.12	0.11	0.12	0.11	0.12	0.13	0.12	0.11	0.12	0.11	0.16	0.13
Apr 28	0.13	0.16	0.15	0.16	0.14	0.14	S	0.13	0.13	0.11	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.1	0.09	0.1	0.18	0.19	0.3	0.32	0.09	0.32	0.14
Apr 29	0.21	0.18	0.14	0.14	0.12	S	0.16	0.53	0.36	0.22	0.15	0.16	0.15	0.16	0.14	0.16	0.15	0.51	1.97	5.82	0.27	0.17	1.3	1.17	0.12	5.82	0.62
Apr 30	0.7	**6.21**	5.5	3.46	S	2.45	0.3	0.52	0.43	0.39	0.35	0.41	0.26	0.32	0.34	0.28	0.22	0.29	0.65	0.19	0.22	0.21	0.24	0.26	0.19	**6.21**	**1.05**
Diurnal Maximum	0.70	6.21	5.50	3.46	0.51	2.45	0.98	0.91	0.43	0.39	0.35	0.41	0.34	0.32	1.46	1.03	3.82	0.51	1.97	5.82	0.38	0.44	1.30	1.17			
Diurnal Average	0.22	0.40	0.38	0.35	0.22	0.30	0.26	0.27	0.21	0.19	0.18	0.17	0.17	0.16	0.19	0.18	0.28	0.18	0.26	0.57	0.18	0.19	0.25	0.23			

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.



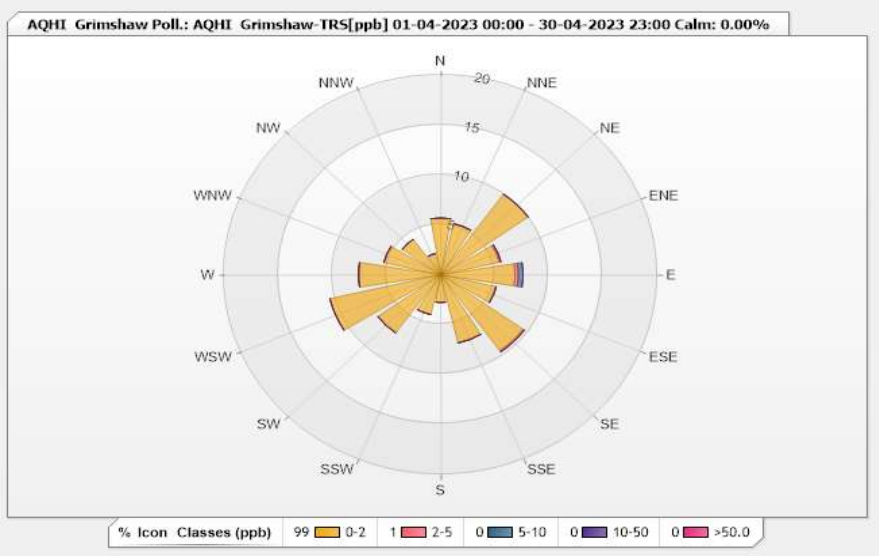


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 04-2023

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	10-50	>50.0	Total
N	5.69	0	0	0	0	5.69
NNE	5.26	0	0	0	0	5.26
NE	9.93	0	0	0	0	9.93
ENE	5.55	0.15	0	0	0	5.7
E	6.86	0.29	0.44	0	0	7.59
ESE	5.26	0	0	0	0	5.26
SE	9.34	0.15	0	0	0	9.49
SSE	7.01	0	0	0	0	7.01
S	2.77	0	0	0	0	2.77
SSW	4.09	0	0	0	0	4.09
SW	7.15	0	0	0	0	7.15
WSW	10.51	0	0	0	0	10.51
W	7.59	0	0	0	0	7.59
WNW	5.4	0	0	0	0	5.4
NW	4.38	0	0	0	0	4.38
NNW	2.19	0	0	0	0	2.19
Summary	98.98	0.59	0.44	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

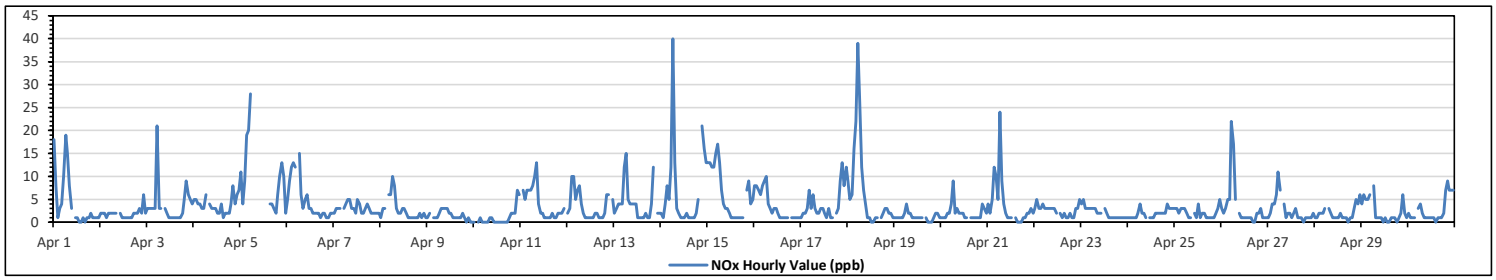
OXIDES OF NITROGEN (NOx) in ppb

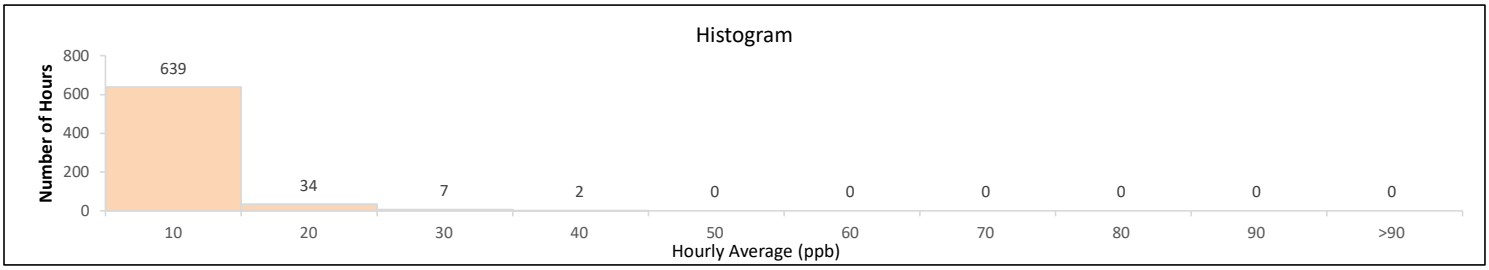
Maximum Hourly Value:	40	ppb	on Apr 14 at hr 6	Hours in Service:	720	
Maximum Daily Value:	7.1	ppb	on Apr 18	Hours of Data:	682	
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 13	Hours of Missing Data:	0	
Minimum Daily Value:	1.0	ppb	on Apr 10	Hours of Calibration:	38	
Monthly Average:	3.4	ppb		Operational Uptime:	100.0	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	18	8	1	3	4	10	19	15	8	3	S	1	1	0	0	1	0	1	1	2	1	1	1	1	0	19	4.3
Apr 2	2	2	2	1	2	2	2	2	2	S	2	1	1	1	1	1	1	2	2	2	3	2	6	2	1	6	1.9
Apr 3	3	3	3	3	3	21	3	3	S	3	2	1	1	1	1	1	1	1	2	5	9	6	5	4	1	21	3.7
Apr 4	5	5	4	4	3	3	6	S	4	3	3	3	2	2	4	1	2	2	2	4	8	4	6	7	1	8	3.8
Apr 5	11	4	9	19	20	28	S	11	C	C	C	C	C	C	C	4	4	3	2	6	10	13	10	2	2	28	NA
Apr 6	5	9	12	13	12	S	15	6	3	5	6	3	3	2	2	2	2	1	2	2	1	1	2	2	1	15	4.8
Apr 7	2	3	3	3	S	3	4	5	5	3	3	2	5	4	2	2	3	4	3	2	2	2	2	2	2	5	3.0
Apr 8	1	3	3	S	6	6	10	8	3	2	2	3	3	2	1	1	1	1	1	1	2	1	2	1	1	10	2.8
Apr 9	1	2	S	1	1	1	2	3	3	3	3	2	2	1	1	1	1	1	2	1	0	1	0	0	0	3	1.4
Apr 10	0	S	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	2	2	2	7	6	0	7	1.0
Apr 11	S	7	5	7	7	7	8	10	13	4	2	2	1	1	1	1	2	1	1	2	2	2	3	S	1	13	4.0
Apr 12	2	3	10	10	5	7	8	4	2	1	1	1	1	1	2	2	1	1	1	2	6	6	S	5	1	10	3.6
Apr 13	2	3	4	4	4	12	15	5	4	4	4	4	1	1	1	1	2	1	1	4	12	S	2	2	1	15	4.0
Apr 14	2	1	4	8	5	12	40	13	3	2	1	1	1	2	1	1	1	1	2	5	S	21	16	13	1	40	6.8
Apr 15	13	13	12	12	15	17	13	7	4	3	3	2	1	1	1	1	1	1	1	S	7	9	4	5	1	17	6.3
Apr 16	8	8	7	6	8	9	10	4	3	2	3	3	2	1	1	1	1	1	S	1	1	1	1	1	1	10	3.6
Apr 17	1	2	2	3	7	3	6	3	2	2	3	3	2	1	3	1	1	S	2	3	9	13	8	12	1	13	4.0
Apr 18	9	5	6	16	22	39	26	12	7	4	1	1	0	0	1	1	S	1	2	3	3	2	2	1	0	39	7.1
Apr 19	1	1	1	1	1	2	4	2	2	1	1	1	1	1	1	S	1	0	0	0	1	2	2	1	0	4	1.2
Apr 20	1	1	1	2	2	4	9	2	3	2	2	2	1	1	S	1	1	1	1	1	1	4	3	2	1	9	2.1
Apr 21	4	2	5	12	10	5	24	9	4	2	1	1	1	S	1	0	0	0	1	1	2	2	3	2	0	24	4.0
Apr 22	3	5	3	3	4	3	3	3	3	3	3	2	S	2	1	2	1	1	2	1	1	3	3	5	1	5	2.6
Apr 23	4	5	3	3	3	3	3	3	2	2	2	S	3	2	1	1	1	1	1	1	1	1	1	1	1	5	2.1
Apr 24	1	1	1	1	1	2	4	2	2	1	S	1	1	1	2	2	2	2	2	2	4	3	3	3	1	4	1.9
Apr 25	3	3	2	3	3	3	2	1	1	S	2	1	4	1	2	2	1	1	1	1	1	2	3	5	1	5	2.1
Apr 26	3	2	3	5	5	22	17	5	S	2	1	1	1	1	1	1	0	0	2	2	3	1	1	1	0	22	3.5
Apr 27	1	2	4	4	6	11	7	S	4	1	2	2	1	2	3	1	1	1	0	1	1	1	1	2	0	11	2.6
Apr 28	1	1	2	2	2	3	S	3	2	1	1	1	1	2	1	1	1	0	1	1	3	5	4	6	0	6	2.0
Apr 29	4	6	5	5	6	S	8	1	1	1	1	0	1	0	0	1	1	1	0	1	2	6	2	1	0	8	2.3
Apr 30	2	1	1	1	S	3	4	2	1	1	1	1	1	1	0	1	1	1	2	7	9	7	7	7	0	9	2.7
Diurnal Maximum	18	13	12	19	22	39	40	15	13	5	6	4	5	4	4	4	4	4	3	7	12	21	16	13			
Diurnal Average	3.9	3.8	4.1	5.4	6.0	8.6	9.7	5.1	3.4	2.3	2.1	1.6	1.5	1.3	1.3	1.2	1.2	1.1	1.4	2.3	3.7	4.3	3.8	3.5			

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

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



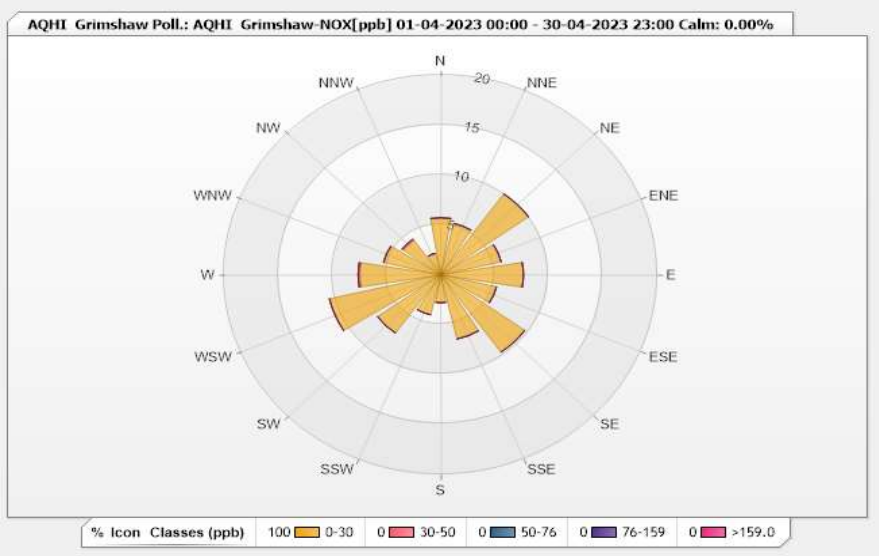


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 04-2023

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	0-30	30-50	50-76	76-159	>159.0	Total
N	5.72	0	0	0	0	5.72
NNE	5.28	0	0	0	0	5.28
NE	9.97	0	0	0	0	9.97
ENE	5.72	0	0	0	0	5.72
E	7.62	0	0	0	0	7.62
ESE	5.28	0	0	0	0	5.28
SE	9.53	0	0	0	0	9.53
SSE	6.6	0	0	0	0	6.6
S	2.79	0	0	0	0	2.79
SSW	4.11	0	0	0	0	4.11
SW	7.18	0	0	0	0	7.18
WSW	10.56	0	0	0	0	10.56
W	7.48	0.15	0	0	0	7.63
WNW	5.43	0	0	0	0	5.43
NW	4.25	0.15	0	0	0	4.4
NNW	2.2	0	0	0	0	2.2
Summary	100	0.3	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

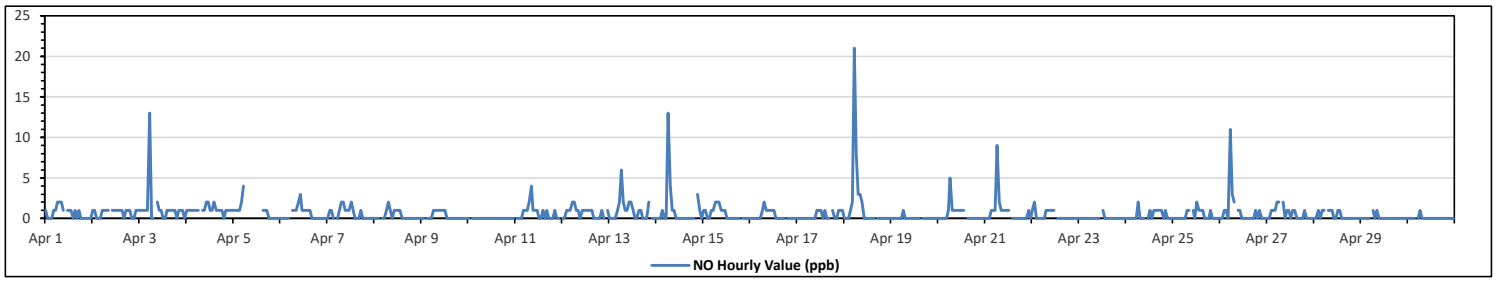
NITRIC OXIDE (NO) in ppb

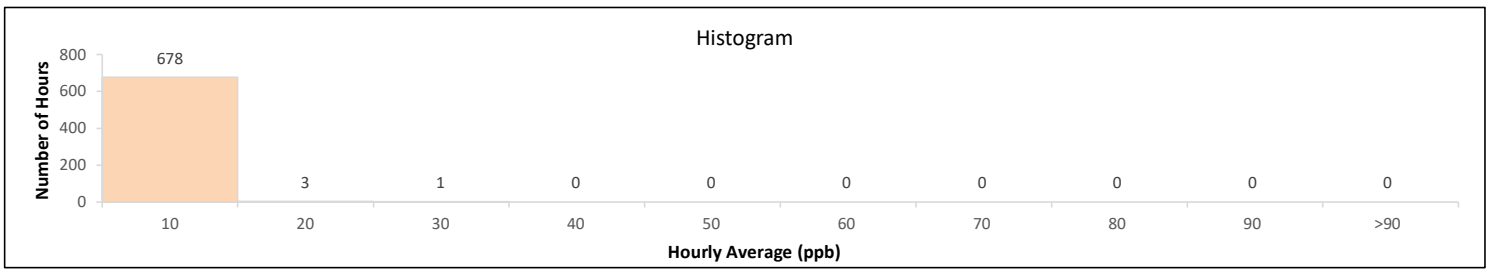
Maximum Hourly Value:	21	ppb	on Apr 18 at hr 5	Hours in Service:	720	
Maximum Daily Value:	1.7	ppb	on Apr 18	Hours of Data:	682	
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 1	Hours of Missing Data:	0	
Minimum Daily Value:	0.0	ppb	on Apr 10	Hours of Calibration:	38	
Monthly Average:	0.6	ppb		Operational 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			
Apr 1	1	0	0	0	1	1	2	2	2	1	S	1	1	1	0	1	0	1	0	0	0	0	0	0	0	2	0.7
Apr 2	1	1	0	0	0	1	1	1	1	S	1	1	1	1	1	1	0	1	1	1	0	0	1	1	0	1	0.7
Apr 3	1	1	1	1	1	13	0	0	S	2	1	1	0	0	1	1	1	1	1	0	1	1	1	0	0	13	1.3
Apr 4	1	1	1	1	1	1	1	S	1	1	2	2	1	1	2	1	1	1	1	0	1	1	1	1	0	2	1.1
Apr 5	1	1	1	1	2	4	S	2	C	C	C	C	C	C	C	1	1	1	0	0	0	0	0	0	0	4	NA
Apr 6	0	0	0	0	0	S	1	1	1	2	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	3	0.6
Apr 7	0	1	1	0	S	0	1	2	2	1	1	1	2	1	0	0	0	1	0	0	0	0	0	0	0	2	0.6
Apr 8	0	0	0	S	0	0	1	2	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Apr 9	0	0	S	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3
Apr 10	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
Apr 11	S	0	0	0	1	1	1	2	4	1	1	1	0	0	1	0	1	0	0	0	1	0	0	S	0	4	0.7
Apr 12	0	0	1	1	1	2	2	1	1	0	1	1	1	1	1	1	0	0	0	0	1	0	S	1	0	2	0.7
Apr 13	0	0	0	0	1	2	6	2	1	1	2	2	1	0	0	1	1	0	0	0	2	S	0	0	0	6	1.0
Apr 14	0	0	0	1	0	0	13	4	1	1	0	0	0	0	0	0	0	0	0	0	S	3	1	0	0	13	1.0
Apr 15	1	1	0	0	1	1	2	2	2	1	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	2	0.6
Apr 16	0	0	0	0	0	0	1	2	1	1	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	2	0.3
Apr 17	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	S	1	0	0	1	1	1	0	1	0.3
Apr 18	0	0	0	1	2	**21**	8	3	3	2	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	**21**	**1.7**
Apr 19	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.0
Apr 20	0	0	0	0	0	1	5	1	1	1	1	1	1	1	S	0	0	0	0	0	0	0	0	0	0	5	0.6
Apr 21	0	0	0	1	1	1	9	2	1	1	1	1	1	S	0	0	0	0	0	0	0	0	1	0	0	9	0.9
Apr 22	1	2	0	0	0	0	0	1	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Apr 23	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Apr 24	0	0	0	0	0	0	2	0	0	0	S	0	1	0	1	1	1	1	1	0	1	0	0	0	0	2	0.4
Apr 25	0	0	0	0	0	0	0	1	1	S	1	0	2	1	1	1	0	0	0	1	0	0	0	0	0	2	0.4
Apr 26	0	0	1	1	0	11	3	2	S	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	11	1.0
Apr 27	0	0	1	1	1	2	2	S	2	0	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0.6
Apr 28	0	0	1	0	1	1	S	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.3
Apr 29	0	0	0	0	0	S	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Apr 30	0	0	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Diurnal Maximum	1	2	1	1	2	21	13	4	4	2	3	2	2	1	2	1	1	1	1	1	2	3	1	1			
Diurnal Average	0.2	0.3	0.3	0.3	0.5	2.3	2.3	1.3	1.1	0.7	0.9	0.7	0.7	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.1			

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

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



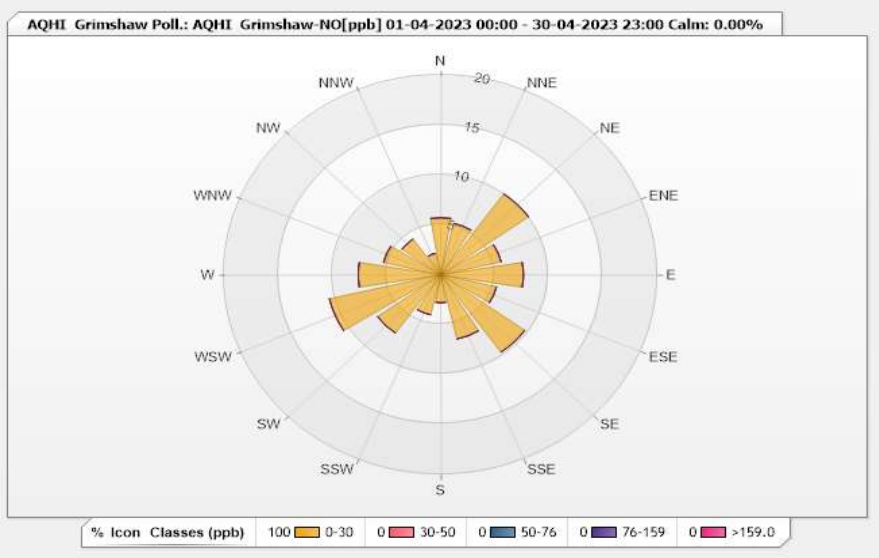


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 04-2023

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	0-30	30-50	50-76	76-159	>159.0	Total
N	5.72	0	0	0	0	5.72
NNE	5.28	0	0	0	0	5.28
NE	9.97	0	0	0	0	9.97
ENE	5.72	0	0	0	0	5.72
E	7.62	0	0	0	0	7.62
ESE	5.28	0	0	0	0	5.28
SE	9.53	0	0	0	0	9.53
SSE	6.6	0	0	0	0	6.6
S	2.79	0	0	0	0	2.79
SSW	4.11	0	0	0	0	4.11
SW	7.18	0	0	0	0	7.18
WSW	10.56	0	0	0	0	10.56
W	7.62	0	0	0	0	7.62
WNW	5.43	0	0	0	0	5.43
NW	4.4	0	0	0	0	4.4
NNW	2.2	0	0	0	0	2.2
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

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

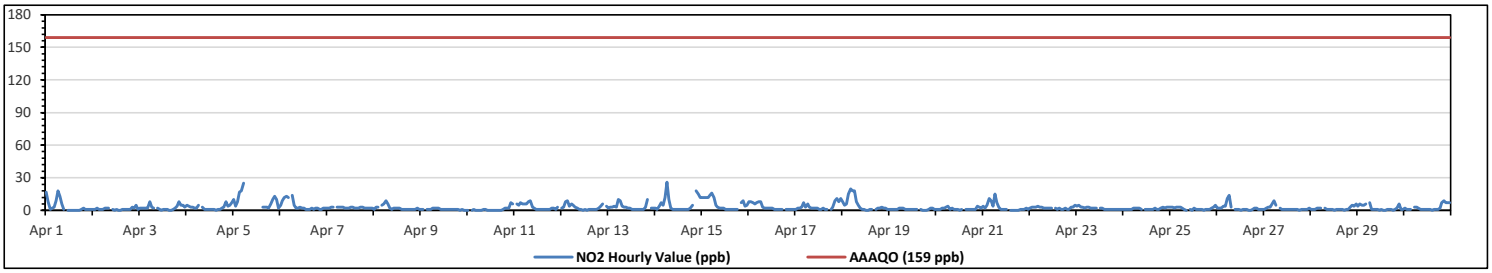
Maximum Hourly Value:	26	ppb	on Apr 14 at hr 6	Hours in Service:	720
Maximum Daily Value:	5.9	ppb	on Apr 15	Hours of Data:	682
Minimum Hourly Value:	0	ppb	on Apr 1 at hr 11	Hours of Missing Data:	0
Minimum Daily Value:	1.0	ppb	on Apr 10	Hours of Calibration:	38
Monthly Average:	2.9	ppb		Operational Uptime:	100.0

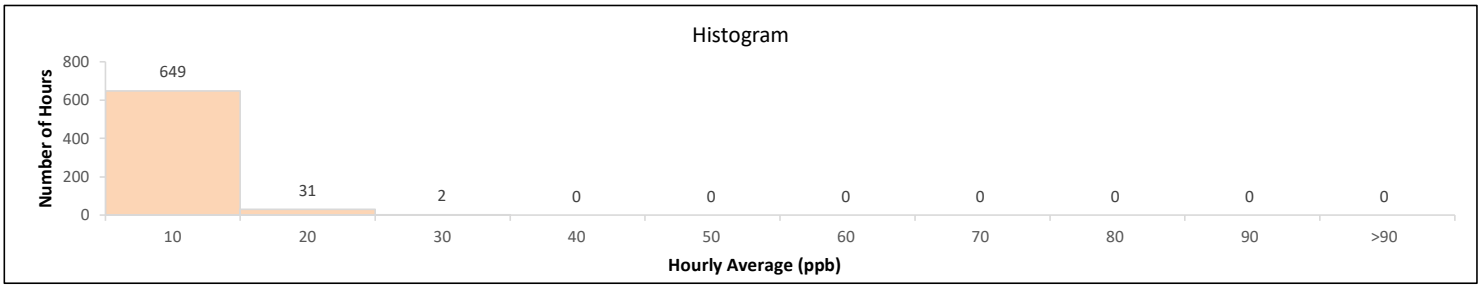
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	17	8	1	2	3	9	18	13	6	1	S	0	0	0	0	0	0	0	1	2	1	1	1	1	0	18	3.7
Apr 2	1	1	2	1	1	1	2	2	2	S	1	0	1	0	0	1	1	1	1	1	3	2	5	1	0	5	1.3
Apr 3	2	2	2	2	2	8	3	2	S	2	1	0	1	1	1	0	0	1	2	4	8	5	5	3	0	8	2.5
Apr 4	5	4	3	3	2	2	5	S	3	1	1	1	1	1	1	0	1	1	2	3	8	4	5	7	0	8	2.8
Apr 5	10	4	8	17	18	25	S	9	C	C	C	C	C	C	C	3	3	3	2	6	10	13	10	2	2	25	NA
Apr 6	5	9	12	13	12	S	14	5	2	2	3	2	2	1	1	1	2	1	2	2	1	1	2	2	1	14	4.2
Apr 7	2	2	3	3	S	3	3	3	3	2	2	2	3	3	2	2	2	3	3	2	2	2	2	2	2	3	2.4
Apr 8	1	3	3	S	5	6	9	6	2	1	2	2	2	2	1	1	1	1	1	1	1	1	2	1	1	9	2.4
Apr 9	1	1	S	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	2	1.0
Apr 10	0	S	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	2	2	2	7	6	0	7	1.0
Apr 11	S	6	5	7	6	6	6	8	9	3	2	1	1	1	1	1	1	1	1	2	2	1	3	S	1	9	3.4
Apr 12	2	3	8	9	4	6	5	3	2	1	1	0	1	0	1	1	1	1	1	2	4	6	S	4	0	9	2.9
Apr 13	2	3	3	4	3	10	9	4	3	3	2	2	1	1	1	1	1	1	1	3	10	S	2	2	1	10	3.1
Apr 14	2	1	4	7	5	12	26	10	2	1	1	1	1	1	1	1	1	1	2	5	S	18	15	12	1	26	5.7
Apr 15	12	12	12	12	14	16	12	5	3	2	2	2	1	1	1	1	1	1	1	S	7	9	4	5	1	16	5.9
Apr 16	8	8	7	6	7	8	8	3	2	2	2	2	2	1	1	1	1	1	S	1	1	1	1	1	1	8	3.3
Apr 17	1	2	2	3	7	3	6	3	2	2	2	2	1	1	2	1	1	S	1	3	9	11	8	11	1	11	3.7
Apr 18	8	5	6	15	20	18	18	8	5	2	1	1	0	0	1	1	S	1	2	2	3	2	2	1	0	20	5.3
Apr 19	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	S	1	0	0	0	1	2	2	1	0	2	1.1
Apr 20	1	1	1	2	2	3	4	1	2	1	1	1	0	1	S	1	1	1	1	1	1	4	3	2	0	4	1.6
Apr 21	4	2	5	11	9	4	15	7	3	1	1	1	1	S	0	0	0	0	0	1	1	1	2	1	0	15	3.0
Apr 22	2	3	3	3	4	3	3	2	2	2	2	2	S	2	1	2	1	1	2	1	1	3	3	5	1	5	2.3
Apr 23	4	5	3	3	2	3	3	2	2	2	2	S	2	2	1	1	1	1	1	1	1	1	1	1	1	5	2.0
Apr 24	1	1	1	1	1	2	2	2	2	1	S	1	1	1	1	1	2	1	1	2	3	2	3	3	1	3	1.6
Apr 25	3	3	2	3	3	3	2	1	0	S	1	0	2	1	1	1	1	0	1	1	1	2	3	5	0	5	1.7
Apr 26	2	2	2	4	4	11	14	3	S	1	1	1	0	1	1	1	1	0	0	1	2	2	1	1	0	14	2.4
Apr 27	1	2	3	3	6	9	5	S	2	1	1	1	1	1	1	1	1	1	0	1	1	1	1	2	0	9	2.0
Apr 28	1	1	1	2	2	2	S	2	1	1	1	1	0	1	1	1	1	0	1	1	3	5	4	6	0	6	1.7
Apr 29	4	6	5	5	6	S	7	1	1	1	1	0	1	0	0	1	1	1	0	1	2	6	1	1	0	7	2.3
Apr 30	2	1	1	1	S	3	3	2	1	1	1	1	1	1	0	1	1	1	2	7	9	7	7	7	0	9	2.7
Diurnal Maximum	17	12	12	17	20	25	26	13	9	3	3	2	3	3	2	3	3	3	3	7	10	18	15	12			
Diurnal Average	3.6	3.5	3.8	5.0	5.4	6.4	7.4	4.0	2.4	1.5	1.4	1.0	1.0	1.0	0.9	1.0	1.0	0.9	1.2	2.1	3.4	4.0	3.6	3.3			

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.



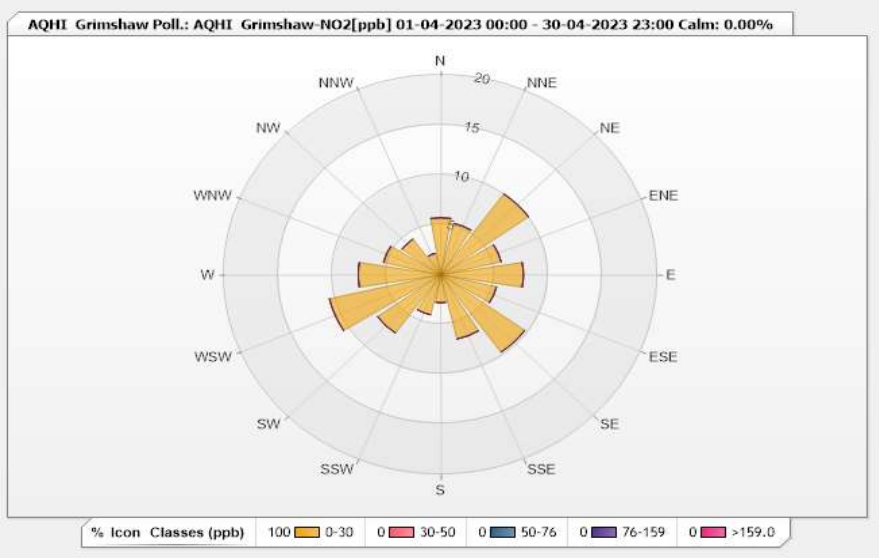


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 04-2023

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	0-30	30-50	50-76	76-159	>159.0	Total
N	5.72	0	0	0	0	5.72
NNE	5.28	0	0	0	0	5.28
NE	9.97	0	0	0	0	9.97
ENE	5.72	0	0	0	0	5.72
E	7.62	0	0	0	0	7.62
ESE	5.28	0	0	0	0	5.28
SE	9.53	0	0	0	0	9.53
SSE	6.6	0	0	0	0	6.6
S	2.79	0	0	0	0	2.79
SSW	4.11	0	0	0	0	4.11
SW	7.18	0	0	0	0	7.18
WSW	10.56	0	0	0	0	10.56
W	7.62	0	0	0	0	7.62
WNW	5.43	0	0	0	0	5.43
NW	4.4	0	0	0	0	4.4
NNW	2.2	0	0	0	0	2.2
Summary	100	0	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

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

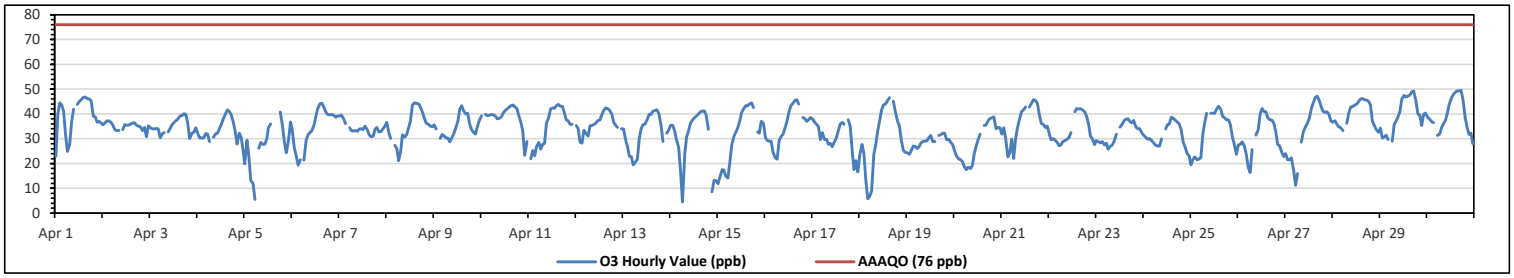
Maximum Hourly Value:	49.6	ppb	on Apr 30 at hr 17	Hours in Service:	720
Maximum Daily Value:	39.9	ppb	on Apr 28	Hours of Data:	685
Minimum Hourly Value:	4.5	ppb	on Apr 14 at hr 6	Hours of Missing Data:	0
Minimum Daily Value:	26.8	ppb	on Apr 5	Hours of Calibration:	35
Monthly Average:	33.8	ppb		Operational Uptime:	100.0

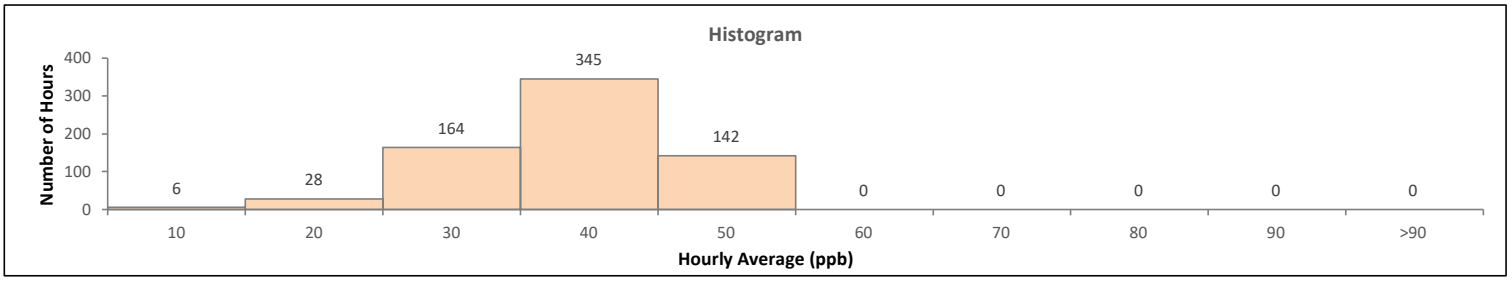
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	23	40	44.5	43.6	41.2	31.7	24.9	27.7	36.7	41.9	S	43.8	45.1	45.9	46.7	46.9	46.1	46	45.3	39.1	38.8	36.7	37	36.4	23.0	46.9	39.5
Apr 2	35.6	36.5	37.3	37.1	36.6	35.4	33.6	33.3	33.4	S	33.6	35.7	35.5	35.4	36	36.4	36.4	35.4	35.1	34.9	33.3	34.6	30.8	35.2	30.8	37.3	35.1
Apr 3	34.5	34.1	33.9	34.2	33.9	30.5	31.9	32.6	S	32.8	34.2	35.7	36.5	37.3	37.9	39.2	39.3	40.1	39.9	36.3	30	32.3	32.7	34.5	30.0	40.1	35.0
Apr 4	32.3	30.4	30.3	30.3	32.1	31.8	28.9	S	30.6	32	32.3	34.1	35.9	38	39.7	41.6	41	39.5	36.9	33.1	27.9	32.3	30.5	25.1	25.1	41.6	33.3
Apr 5	19.9	29.4	22.8	13.2	12	5.5	S	26.2	28.5	27.7	27.9	30	34.4	36	C	C	C	C	40.8	35.2	28.6	24.3	29.5	36.8	5.5	40.8	**26.8**
Apr 6	34.1	26.3	23.1	19.4	21.5	S	21.4	29.4	31.6	32.5	33.2	35.7	38.8	42.1	44.1	44.4	42.8	40.6	39.8	39.5	39.9	39.4	38.7	39.2	19.4	44.4	34.7
Apr 7	39.1	39.6	38	36.1	S	34.4	33.2	33.1	33.2	33	33.9	34.1	33.6	35	33.7	31.6	30.8	31.1	33.8	34.6	32.8	32.9	34.1	35	30.8	39.6	34.2
Apr 8	36.7	32.7	30.2	S	27.3	26.2	21.2	24.7	31.6	30.7	31.6	34.3	37.3	43.6	44.5	44.2	44.1	42.8	40.9	38.4	36.2	35.8	35.1	34.8	21.2	44.5	35.0
Apr 9	35.6	33.9	S	30.2	31.7	31.2	30.3	30.4	28.7	30.4	32.3	34.6	37	41.9	43.4	41.3	40	40.2	35.8	33.7	32.7	31.8	35.3	37.6	28.7	43.4	34.8
Apr 10	39.2	S	39.8	39.3	39.4	39.9	39.5	39.2	38	38.2	38.9	40.4	41.4	42.1	42.7	43.4	43.6	42.8	42	39.1	36.7	33	23.4	28.8	23.4	43.6	38.7
Apr 11	S	21.9	25.3	23.1	26.8	28.5	25.8	27.8	28.1	36.4	38.2	42	42.5	42.3	43.4	43.8	43.1	43.1	40.4	37.5	37.2	35.7	35.9	S	21.9	43.8	34.9
Apr 12	35.3	34.1	28.6	28.3	33.4	32.2	31	35.2	35.3	35.7	36.2	37.2	37.5	39.7	41.4	42.4	42.2	41.5	40	36.6	35.5	34.6	S	34.1	28.3	42.4	36.0
Apr 13	33.9	29.8	26.9	22.9	22.8	19.5	20.6	21.7	30	34.2	35.7	35.9	37.8	39.9	39.8	41.1	41.4	41.6	40.3	35.4	28.8	S	32.3	33.5	19.5	41.6	32.4
Apr 14	35.5	35.3	32.9	29.6	26.5	16.8	4.5	23.8	30.8	32.8	36.2	37.5	38.5	39.2	40	40.8	41.2	41.3	39.6	33.8	S	8.6	13.3	13	**4.5**	41.3	30.1
Apr 15	11.8	14.6	17.6	17.4	14.9	14.2	20.4	27.5	31.1	32.4	34.2	37.1	40.6	42.1	43.4	43.3	44	44.5	42.6	S	32.8	32.2	37	36.3	11.8	44.5	31.0
Apr 16	30.6	29.2	29	29	24.4	22.2	21.8	29.2	31	31.7	34.2	36.8	40.9	43.4	44.2	45.4	45.8	44	S	38.6	38.2	37	37.7	38.6	21.8	45.8	34.9
Apr 17	37.9	36.7	35.9	34.8	29.7	32.5	29.6	29.8	27.8	28.1	26.8	28.5	30.5	33.2	35.8	36.7	35.9	S	37.7	35.2	25.8	17.5	21.2	16.6	16.6	37.9	30.6
Apr 18	23.5	27.7	24	13.2	5.8	6.9	8.9	23.8	27.7	33	37.1	41.5	43.5	44.1	45.4	46.6	S	45.2	41.1	37.1	35.1	29.3	25.4	24.4	5.8	46.6	30.0
Apr 19	24.3	23.7	25.2	27	26.9	26.1	26.7	28.3	29	29	29.1	30.5	31.3	28.9	28.8	S	31.3	31.6	32.2	32.2	29.5	29.8	28.6	27.7	23.7	32.2	28.6
Apr 20	25.3	23.1	22	21.5	20.7	18.7	17.5	18.5	17.9	19.2	24.2	27	29.6	31.8	S	35.3	35.6	37.3	38.2	38.4	38.8	34.1	34.6	34.4	17.5	38.8	28.0
Apr 21	31.9	34.5	30	22.7	24.3	29.8	22.1	30	34.6	38.3	41.1	41.6	42.8	S	42.8	44.4	45.7	45.4	44.4	39.9	36.2	35.7	34.6	35.1	22.1	45.7	36.0
Apr 22	32.1	29.5	30.1	29.5	28.5	27.2	27.5	28.8	29.2	29.7	30.6	32.6	S	40.9	42.2	42.1	42	41.5	41.1	39.1	35.8	31	29.6	27.6	27.2	42.2	33.4
Apr 23	29.3	28.7	28.4	28.8	27.5	28.3	25.8	26.9	27.4	29	31.8	S	34.7	35.6	37.3	37.9	38	36.9	36.4	37.4	34.7	34	34.1	32.2	25.8	38.0	32.2
Apr 24	31.4	30.7	29.8	30	29.3	28.3	27.5	27	27.1	29.9	S	33.9	35.6	35.9	38.7	38.2	37.5	36.6	36	33.9	28.5	26.5	24	23.2	23.2	38.7	31.3
Apr 25	19.5	21.5	22.7	21.5	21.8	22.4	31.7	36.5	40.3	S	40.2	40.4	40.2	41.9	43.1	41.9	39.1	38.5	37.6	37.6	35.9	30.5	27.4	23.7	19.5	43.1	32.9
Apr 26	27.5	27.7	28.7	27	23.6	18.4	16.3	25.7	S	31.5	33.5	39.7	42.2	41	40.9	38.5	37.6	37.5	36.2	32.9	27.7	27.1	24.5	22.8	16.3	42.2	30.8
Apr 27	24	21.6	21.5	22.2	17.2	11.2	16	S	28.6	32.8	34.8	36.2	38.3	42	44.4	46.6	47.2	45.4	42.9	41	40.7	40.9	39.8	37	11.2	47.2	33.6
Apr 28	36.6	37.2	35.9	34.9	34.4	33.3	S	36.3	40.2	42.8	43	43.5	44	45.1	46	46.2	45.8	45.6	45.2	43.6	37.1	35.3	33.6	32.7	32.7	46.2	**39.9**
Apr 29	34.3	30.4	30.7	31.4	29.6	S	29	35.7	37.1	38.8	41.1	46	47.5	46.8	47.3	47.7	48.9	49.3	45.3	40	39.6	35.3	39.8	40.4	29.0	49.3	39.7
Apr 30	38.6	37.9	36.9	36.5	S	31.3	31.9	34.5	36	37.3	40.3	43.8	46.4	47.8	48.7	49.3	49.3	**49.6**	45.9	38.5	34.6	31.7	32.2	28	28.0	**49.6**	39.4
Diurnal Maximum	39.2	40.0	44.5	43.6	41.2	39.9	39.5	39.2	40.3	42.8	43.0	46.0	47.5	47.8	48.7	49.3	49.3	49.6	45.9	43.6	40.7	40.9	39.8	40.4			
Diurnal Average	30.8	30.3	29.7	28.1	26.6	25.5	25.0	29.4	31.5	32.9	34.5	36.9	38.6	40.0	41.5	42.0	41.3	41.2	39.8	37.0	34.1	31.7	31.5	31.2			

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

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

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



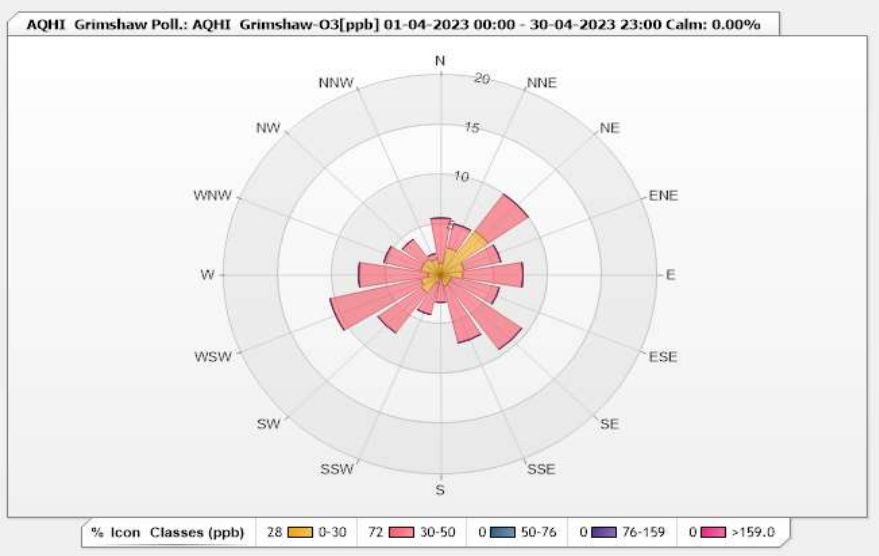


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 04-2023

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	0-30	30-50	50-76	76-159	>159.0	Total
N	1.17	4.53	0	0	0	5.7
NNE	2.77	2.48	0	0	0	5.25
NE	5.4	4.53	0	0	0	9.93
ENE	2.19	3.5	0	0	0	5.69
E	2.04	5.55	0	0	0	7.59
ESE	1.02	4.53	0	0	0	5.55
SE	1.02	8.18	0	0	0	9.2
SSE	1.17	5.84	0	0	0	7.01
S	0	2.77	0	0	0	2.77
SSW	0.88	3.21	0	0	0	4.09
SW	2.19	4.96	0	0	0	7.15
WSW	1.9	8.61	0	0	0	10.51
W	1.17	6.42	0	0	0	7.59
WNW	1.9	3.5	0	0	0	5.4
NW	1.9	2.48	0	0	0	4.38
NNW	1.61	0.58	0	0	0	2.19
Summary	28.33	71.67	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

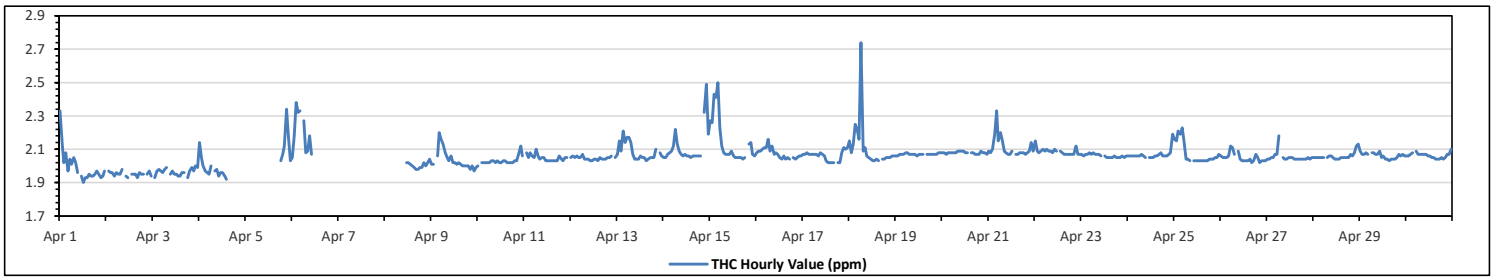
TOTAL HYDROCARBONS (THC) in ppm

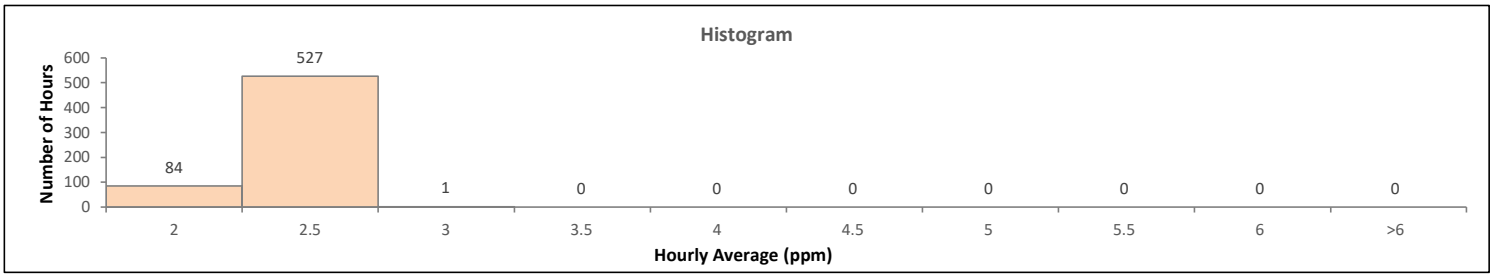
Maximum Hourly Value:	2.74	ppm	on Apr 18 at hr 6	Hours in Service:	720
Maximum Daily Value:	2.15	ppm	on Apr 15	Hours of Data:	612
Minimum Hourly Value:	1.90	ppm	on Apr 1 at hr 12	Hours of Missing Data:	77
Minimum Daily Value:	1.95	ppm	on Apr 2	Hours of Calibration:	31
Monthly Average:	2.06	ppm		Operational Uptime:	89.3

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.33	2.13	2.02	2.08	1.97	2.04	2.01	2.05	2.02	1.96	S	1.94	1.90	1.93	1.93	1.95	1.94	1.94	1.95	1.97	1.95	1.93	1.94	1.97	1.90	2.33	1.99
Apr 2	X	1.97	1.96	1.96	1.94	1.96	1.95	1.95	1.98	S	1.94	1.93	X	1.95	1.95	1.95	1.93	1.96	1.95	1.95	X	1.95	1.97	1.94	1.93	1.98	1.95
Apr 3	X	1.93	1.97	1.98	1.97	1.96	1.98	1.99	S	1.95	1.97	1.95	1.95	1.94	1.94	1.96	1.96	X	1.93	1.97	1.99	1.97	2.00	1.99	1.93	2.00	1.96
Apr 4	2.14	2.05	2.00	1.97	1.96	1.95	2.00	S	1.97	1.98	1.94	1.96	1.96	1.94	1.92	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.92	2.14	NA
Apr 5	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	2.03	2.07	2.12	2.34	2.17	2.03	2.03	2.34	NA
Apr 6	2.05	2.18	2.38	2.32	2.33	S	2.27	2.08	2.09	2.18	2.07	X	X	X	X	X	X	X	X	X	X	X	X	X	2.05	2.38	NA
Apr 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Apr 8	X	X	X	X	X	X	X	X	NRM	NRM	NRM	2.02	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.99	2.02	2.00	2.02	2.04	1.98	2.04	NA
Apr 9	2.01	2.01	S	2.06	2.20	2.16	2.13	2.08	2.05	2.03	2.06	2.02	2.02	2.01	2.02	2.01	2.00	2.00	2.00	2.00	1.98	2.00	1.97	1.99	1.97	2.20	2.04
Apr 10	2.00	S	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.07	2.12	2.06	2.00	2.12	2.03
Apr 11	S	2.08	2.05	2.08	2.06	2.05	2.10	2.06	2.04	2.05	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.06	2.04	2.03	2.05	2.05	S	2.03	2.10	2.05
Apr 12	2.05	2.06	2.05	2.06	2.05	2.05	2.07	2.04	2.04	2.04	2.03	2.03	2.04	2.04	2.03	2.05	2.04	2.04	2.04	2.05	2.05	2.06	S	2.05	2.03	2.07	2.05
Apr 13	2.07	2.15	2.09	2.21	2.14	2.17	2.17	2.14	2.07	2.04	2.04	2.04	2.06	2.05	2.05	2.03	2.04	2.05	2.05	2.05	2.10	S	2.08	2.06	2.03	2.21	2.08
Apr 14	2.05	2.05	2.07	2.08	2.09	2.12	2.22	2.13	2.09	2.07	2.06	2.07	2.06	2.06	2.05	2.06	2.06	2.06	2.06	2.06	S	2.32	2.49	2.19	2.05	2.49	2.11
Apr 15	2.27	2.26	2.43	2.41	2.50	2.23	2.12	2.08	2.07	2.07	2.07	2.09	2.06	2.05	2.05	2.05	2.05	2.04	2.05	S	2.13	2.14	2.07	2.06	2.04	2.50	**2.15**
Apr 16	2.08	2.09	2.09	2.10	2.11	2.11	2.16	2.09	2.12	2.07	2.08	2.07	2.05	2.04	2.06	2.04	2.05	2.04	S	2.05	2.04	2.05	2.06	2.06	2.04	2.16	2.07
Apr 17	2.07	2.07	2.08	2.07	2.07	2.07	2.07	2.07	2.06	2.08	2.07	2.06	2.03	2.02	2.02	2.02	2.02	S	2.02	2.02	2.08	2.11	2.10	2.11	2.02	2.11	2.06
Apr 18	2.15	2.08	2.13	2.25	2.22	2.16	**2.74**	2.09	2.11	2.06	2.05	2.04	2.03	2.03	2.04	2.03	S	2.04	2.04	2.05	2.05	2.05	2.06	2.06	2.03	**2.74**	2.11
Apr 19	2.06	2.06	2.07	2.07	2.07	2.08	2.08	2.07	2.07	2.07	2.07	2.06	2.07	2.07	2.07	S	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.06	2.08	2.07
Apr 20	2.08	2.08	2.07	2.08	2.08	2.08	2.08	2.08	2.09	2.09	2.09	2.09	2.08	2.08	S	2.08	2.08	2.07	2.07	2.07	2.09	2.08	2.08	2.07	2.07	2.09	2.08
Apr 21	2.09	2.08	2.10	2.19	2.33	2.15	2.20	2.15	2.09	2.08	2.07	2.07	2.09	S	2.07	2.07	2.08	2.08	2.08	2.07	2.08	2.09	2.14	2.09	2.07	2.33	2.11
Apr 22	2.15	2.09	2.08	2.09	2.10	2.09	2.10	2.09	2.09	2.08	2.10	2.09	S	2.09	2.08	2.07	2.07	2.07	2.07	2.07	2.07	2.12	2.07	2.07	2.07	2.15	2.09
Apr 23	2.07	2.06	2.07	2.07	2.08	2.07	2.08	2.07	2.07	2.07	2.06	S	2.06	2.05	2.05	2.05	2.05	2.06	2.05	2.05	2.05	2.06	2.05	2.06	2.05	2.08	2.06
Apr 24	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.06	2.05	S	2.05	2.05	2.05	2.06	2.06	2.07	2.08	2.06	2.06	2.06	2.07	2.08	2.19	2.05	2.19	2.07
Apr 25	2.16	2.15	2.21	2.19	2.23	2.14	2.04	2.04	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.07	2.03	2.23	2.07
Apr 26	2.06	2.05	2.05	2.05	2.06	2.12	2.11	2.07	S	2.09	2.04	2.03	2.03	2.03	2.03	2.04	2.02	2.03	2.07	2.05	2.02	2.03	2.03	2.03	2.02	2.12	2.05
Apr 27	2.04	2.04	2.05	2.05	2.07	2.07	2.18	S	2.05	2.04	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.05	2.04	2.18	2.05
Apr 28	2.05	2.05	2.05	2.05	2.05	2.05	S	2.05	2.06	2.06	2.05	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.07	2.06	2.08	2.12	2.13	2.04	2.13	2.06
Apr 29	2.09	2.07	2.07	2.08	2.07	S	2.08	2.08	2.07	2.07	2.09	2.05	2.06	2.04	2.04	2.03	2.04	2.04	2.04	2.05	2.07	2.06	2.07	2.06	2.03	2.09	2.06
Apr 30	2.06	2.06	2.07	2.08	S	2.09	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.05	2.05	2.04	2.04	2.04	2.05	2.04	2.05	2.07	2.07	2.10	2.04	2.10	2.06
Diurnal Maximum	2.33	2.26	2.43	2.41	2.50	2.23	2.74	2.15	2.12	2.18	2.10	2.09	2.09	2.09	2.08	2.08	2.08	2.08	2.08	2.07	2.13	2.34	2.49	2.19			
Diurnal Average	2.09	2.08	2.09	2.10	2.11	2.08	2.12	2.07	2.06	2.05	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.04	2.05	2.07	2.08	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.



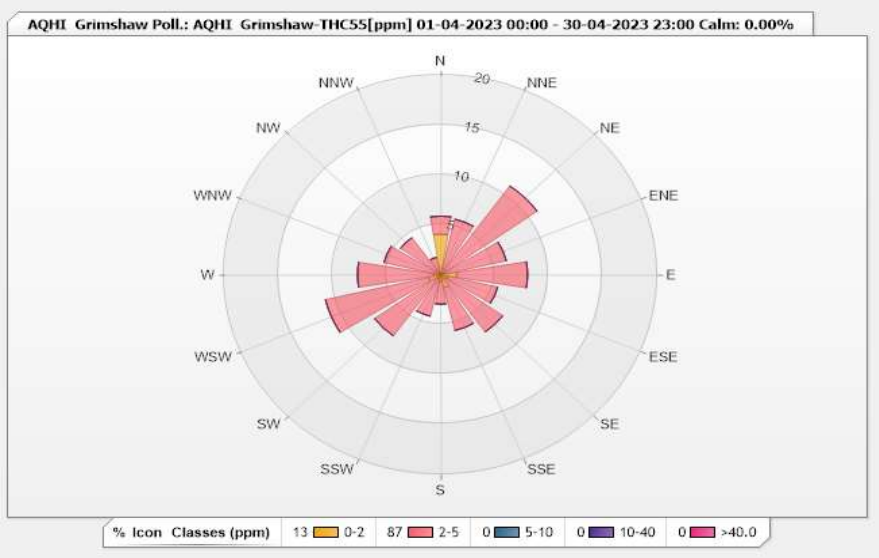


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 85.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	4.08	1.8	0	0	0	5.88
NNE	0.65	5.07	0	0	0	5.72
NE	0.16	10.78	0	0	0	10.94
ENE	0.33	5.88	0	0	0	6.21
E	1.47	6.54	0	0	0	8.01
ESE	0.65	4.74	0	0	0	5.39
SE	0.49	6.54	0	0	0	7.03
SSE	1.31	4.41	0	0	0	5.72
S	0.65	2.29	0	0	0	2.94
SSW	0.33	3.92	0	0	0	4.25
SW	0.49	7.03	0	0	0	7.52
WSW	1.14	9.8	0	0	0	10.94
W	0.65	7.03	0	0	0	7.68
WNW	0	5.39	0	0	0	5.39
NW	0.16	4.41	0	0	0	4.57
NNW	0.16	1.63	0	0	0	1.79
Summary	12.72	87.26	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

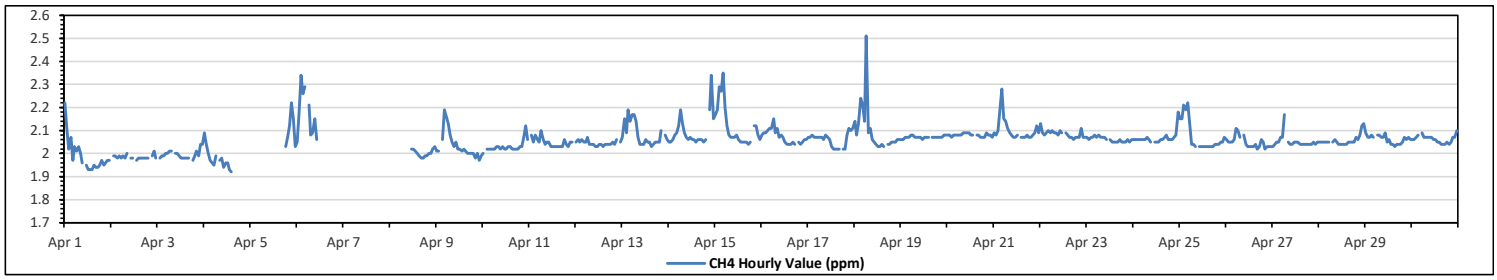
METHANE (CH4) in ppm

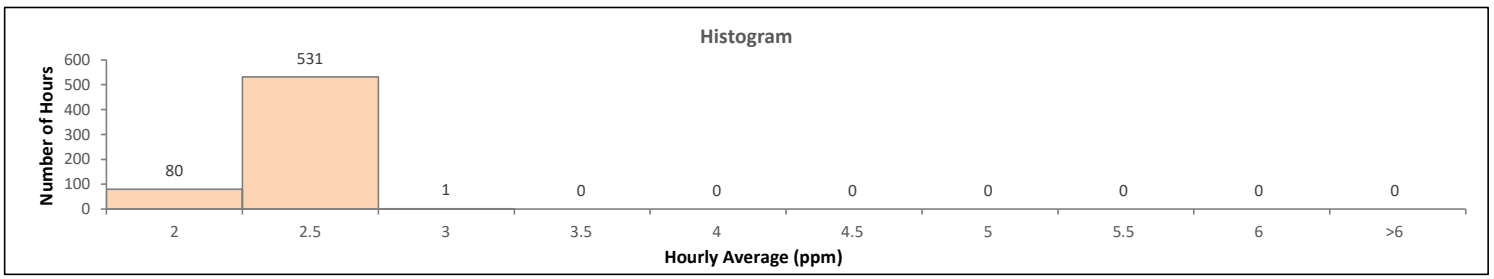
Maximum Hourly Value:	2.51	ppm	on Apr 18 at hr 6	Hours in Service:	720
Maximum Daily Value:	2.12	ppm	on Apr 15	Hours of Data:	612
Minimum Hourly Value:	1.92	ppm	on Apr 4 at hr 14	Hours of Missing Data:	77
Minimum Daily Value:	1.98	ppm	on Apr 2	Hours of Calibration:	31
Monthly Average:	2.06	ppm		Operational Uptime:	89.3

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.22	2.11	2.02	2.07	1.97	2.03	2.01	2.03	2.00	1.96	S	1.95	1.93	1.93	1.93	1.95	1.94	1.94	1.95	1.97	1.95	1.96	1.97	1.97	1.93	2.22	1.99
Apr 2	X	1.99	1.99	1.98	1.99	1.98	1.99	1.98	2.00	S	1.98	1.98	X	1.97	1.98	1.98	1.98	1.98	1.98	1.98	X	1.99	2.01	1.98	1.97	2.01	1.98
Apr 3	X	1.98	1.99	1.99	2.00	2.00	2.01	2.01	S	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	X	1.97	1.99	2.01	1.99	2.04	2.04	1.97	2.04	2.00
Apr 4	2.09	2.04	2.00	1.97	1.96	1.95	1.99	S	1.97	1.98	1.94	1.96	1.96	1.93	1.92	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1.92	2.09	NA
Apr 5	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	2.03	2.07	2.12	2.22	2.15	2.03	2.03	2.22	NA
Apr 6	2.05	2.18	2.34	2.26	2.29	S	2.21	2.08	2.09	2.15	2.06	X	X	X	X	X	X	X	X	X	X	X	X	X	2.05	2.34	NA
Apr 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Apr 8	X	X	X	X	X	X	X	X	NRM	NRM	NRM	2.02	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.99	2.00	2.00	2.02	2.03	1.98	2.03	NA
Apr 9	2.01	2.01	S	2.06	2.19	2.16	2.13	2.08	2.05	2.03	2.05	2.02	2.02	2.01	2.02	2.01	2.00	2.00	2.00	2.00	1.98	2.00	1.97	1.99	1.97	2.19	2.03
Apr 10	2.00	S	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.03	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.07	2.12	2.06	2.00	2.12	2.03
Apr 11	S	2.08	2.05	2.08	2.06	2.05	2.10	2.06	2.04	2.05	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.06	2.04	2.03	2.05	2.05	S	2.03	2.10	2.05
Apr 12	2.05	2.06	2.05	2.06	2.05	2.05	2.07	2.04	2.04	2.04	2.03	2.03	2.04	2.04	2.03	2.04	2.04	2.04	2.04	2.05	2.04	2.06	S	2.05	2.03	2.07	2.05
Apr 13	2.07	2.15	2.09	2.19	2.14	2.17	2.17	2.14	2.07	2.04	2.04	2.04	2.06	2.05	2.05	2.03	2.04	2.05	2.05	2.05	2.10	S	2.08	2.06	2.03	2.19	2.08
Apr 14	2.05	2.05	2.06	2.08	2.09	2.12	2.19	2.13	2.09	2.07	2.06	2.07	2.06	2.06	2.05	2.06	2.06	2.06	2.05	2.06	S	2.19	2.34	2.15	2.05	2.34	2.10
Apr 15	2.17	2.19	2.29	2.27	2.35	2.20	2.12	2.08	2.07	2.07	2.07	2.08	2.06	2.05	2.05	2.05	2.05	2.04	2.05	S	2.12	2.12	2.08	2.06	2.04	2.35	**2.12**
Apr 16	2.08	2.09	2.09	2.10	2.11	2.11	2.15	2.09	2.11	2.07	2.08	2.07	2.05	2.04	2.04	2.04	2.05	2.04	S	2.05	2.04	2.05	2.06	2.06	2.04	2.15	2.07
Apr 17	2.07	2.07	2.08	2.07	2.07	2.07	2.07	2.07	2.06	2.08	2.07	2.06	2.03	2.02	2.02	2.02	2.02	S	2.02	2.02	2.08	2.11	2.10	2.11	2.02	2.11	2.06
Apr 18	2.14	2.08	2.13	2.24	2.21	2.14	**2.51**	2.09	2.11	2.06	2.05	2.04	2.03	2.03	2.04	2.03	S	2.04	2.04	2.05	2.05	2.05	2.06	2.06	2.03	**2.51**	2.10
Apr 19	2.06	2.06	2.07	2.07	2.07	2.08	2.08	2.07	2.07	2.07	2.07	2.06	2.07	2.07	2.07	S	2.07	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.06	2.08	2.07
Apr 20	2.08	2.08	2.07	2.08	2.08	2.08	2.08	2.08	2.09	2.09	2.09	2.09	2.08	2.08	S	2.08	2.08	2.07	2.07	2.07	2.09	2.08	2.08	2.07	2.07	2.09	2.08
Apr 21	2.09	2.08	2.10	2.19	2.28	2.15	2.14	2.11	2.09	2.08	2.07	2.07	2.08	S	2.07	2.07	2.07	2.08	2.07	2.07	2.08	2.09	2.12	2.09	2.07	2.28	2.10
Apr 22	2.13	2.09	2.08	2.09	2.10	2.09	2.10	2.09	2.09	2.08	2.10	2.09	S	2.09	2.08	2.07	2.07	2.06	2.07	2.07	2.07	2.11	2.07	2.07	2.06	2.13	2.09
Apr 23	2.07	2.06	2.07	2.07	2.08	2.07	2.08	2.07	2.07	2.07	2.06	S	2.06	2.05	2.05	2.05	2.05	2.06	2.05	2.05	2.05	2.06	2.05	2.06	2.05	2.08	2.06
Apr 24	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.06	2.05	S	2.05	2.05	2.05	2.06	2.06	2.07	2.08	2.06	2.06	2.06	2.07	2.08	2.18	2.05	2.18	2.07
Apr 25	2.15	2.15	2.21	2.19	2.22	2.13	2.04	2.04	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.07	2.03	2.22	2.07
Apr 26	2.06	2.05	2.05	2.05	2.06	2.11	2.10	2.07	S	2.08	2.04	2.03	2.03	2.03	2.03	2.04	2.02	2.03	2.06	2.05	2.02	2.03	2.03	2.03	2.02	2.11	2.05
Apr 27	2.03	2.04	2.05	2.05	2.07	2.07	2.17	S	2.05	2.04	2.04	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.04	2.05	2.03	2.17	2.05
Apr 28	2.05	2.05	2.05	2.05	2.05	2.05	S	2.05	2.06	2.05	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.07	2.06	2.08	2.12	2.13	2.04	2.13	2.06
Apr 29	2.09	2.07	2.07	2.08	2.07	S	2.08	2.08	2.07	2.07	2.09	2.05	2.06	2.04	2.04	2.03	2.04	2.04	2.04	2.05	2.07	2.06	2.07	2.06	2.03	2.09	2.06
Apr 30	2.06	2.06	2.07	2.08	S	2.09	2.07	2.07	2.07	2.07	2.07	2.06	2.06	2.05	2.05	2.04	2.04	2.04	2.05	2.04	2.05	2.07	2.07	2.10	2.04	2.10	2.06
Diurnal Maximum	2.22	2.19	2.34	2.27	2.35	2.20	2.51	2.14	2.11	2.15	2.10	2.09	2.08	2.09	2.08	2.08	2.08	2.08	2.07	2.07	2.12	2.22	2.34	2.18			
Diurnal Average	2.08	2.07	2.08	2.09	2.10	2.08	2.11	2.07	2.06	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.05	2.06	2.07	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.



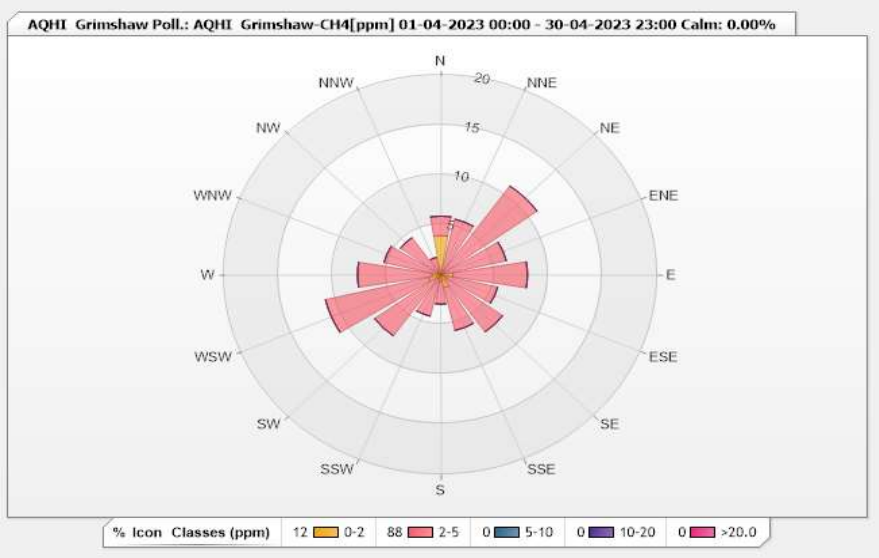


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 85.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	3.92	1.96	0	0	0	5.88
NNE	0.49	5.23	0	0	0	5.72
NE	0.16	10.78	0	0	0	10.94
ENE	0.16	6.05	0	0	0	6.21
E	1.14	6.86	0	0	0	8
ESE	0.49	4.9	0	0	0	5.39
SE	0.65	6.37	0	0	0	7.02
SSE	1.31	4.41	0	0	0	5.72
S	0.65	2.29	0	0	0	2.94
SSW	0.33	3.92	0	0	0	4.25
SW	0.49	7.03	0	0	0	7.52
WSW	1.14	9.8	0	0	0	10.94
W	0.82	6.86	0	0	0	7.68
WNW	0	5.39	0	0	0	5.39
NW	0	4.58	0	0	0	4.58
NNW	0.16	1.63	0	0	0	1.79
Summary	11.91	88.06	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

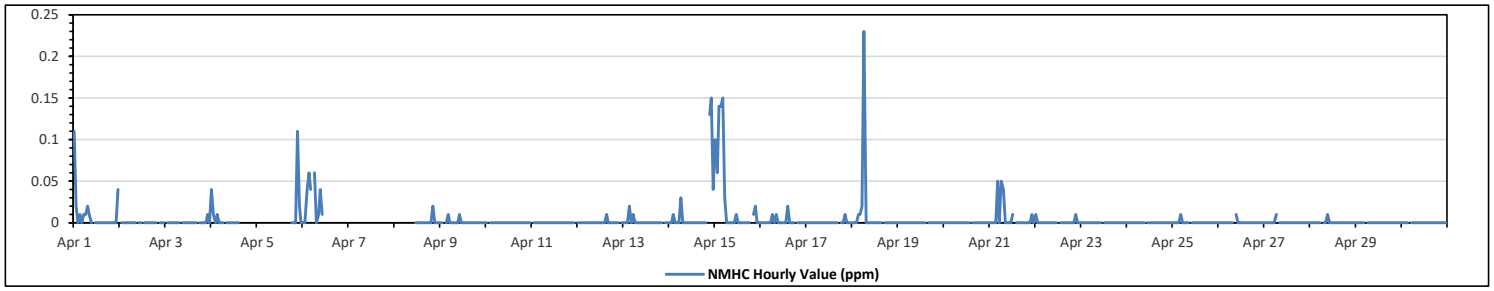
NON-METHANE HYDROCARBONS (NMHC) in ppm

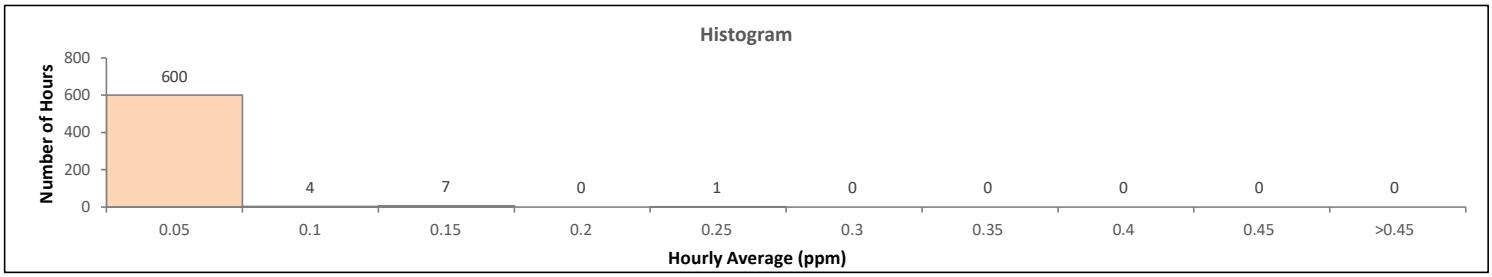
Maximum Hourly Value:	0.23	ppm	on Apr 18 at hr 6	Hours in Service:	720	
Maximum Daily Value:	0.03	ppm	on Apr 15	Hours of Data:	612	
Minimum Hourly Value:	0.00	ppm	on Apr 1 at hr 2	Hours of Missing Data:	77	
Minimum Daily Value:	0.00	ppm	on Apr 2	Hours of Calibration:	31	
Monthly Average:	0.00	ppm		Operational Uptime:	89.3	

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.11	0.02	0.00	0.01	0.00	0.01	0.01	0.02	0.01	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.11	0.01
Apr 2	X	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	X	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	0.00	0.00	0.00	0.00	0.00	0.00
Apr 3	X	0.00	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	X	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Apr 4	0.04	0.01	0.00	0.01	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.00	0.04	NA
Apr 5	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	0.00	0.00	0.00	0.11	0.02	0.00	0.00	0.11	NA
Apr 6	0.00	0.00	0.04	0.06	0.04	S	0.06	0.00	0.01	0.04	0.01	X	X	X	X	X	X	X	X	X	X	X	X	X	0.00	0.06	NA
Apr 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Apr 8	X	X	X	X	X	X	X	X	NRM	NRM	NRM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	NA
Apr 9	0.00	0.00	S	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Apr 10	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 11	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00
Apr 13	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.02	0.00
Apr 14	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.13	0.15	0.04	0.00	0.15	0.02
Apr 15	0.10	0.06	0.14	0.14	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.02	0.00	0.00	0.00	0.15	**0.03**
Apr 16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Apr 17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00
Apr 18	0.00	0.00	0.00	0.01	0.01	0.02	**0.23**	0.00	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	**0.23**	0.01
Apr 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 21	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.01	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.01
Apr 22	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00
Apr 23	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
Apr 24	0.00	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
Apr 25	0.00	0.00	0.00	0.00	0.01	0.00	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	0.01	0.00
Apr 26	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	0.00	0.00	0.00	0.00	0.01	0.00
Apr 27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 28	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00	0.00	0.00	0.00	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
Apr 29	0.00	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
Apr 30	0.00	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
Diurnal Maximum	0.11	0.06	0.14	0.14	0.15	0.03	0.23	0.04	0.01	0.04	0.01	0.01	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.02	0.13	0.15	0.04			
Diurnal Average	0.01	0.00	0.01	0.01	0.01	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	0.01	0.01	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.



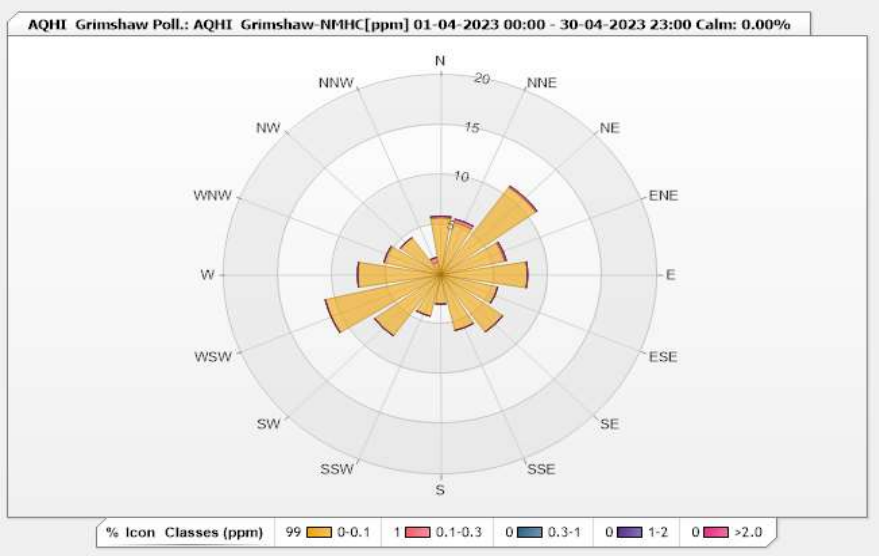


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 85.00% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	5.72	0.16	0	0	0	5.88
NNE	5.39	0.33	0	0	0	5.72
NE	10.78	0.16	0	0	0	10.94
ENE	6.05	0.16	0	0	0	6.21
E	8.01	0	0	0	0	8.01
ESE	5.39	0	0	0	0	5.39
SE	7.03	0	0	0	0	7.03
SSE	5.72	0	0	0	0	5.72
S	2.94	0	0	0	0	2.94
SSW	4.25	0	0	0	0	4.25
SW	7.52	0	0	0	0	7.52
WSW	10.95	0	0	0	0	10.95
W	7.68	0	0	0	0	7.68
WNW	5.39	0	0	0	0	5.39
NW	4.58	0	0	0	0	4.58
NNW	1.31	0.49	0	0	0	1.8
Summary	98.71	1.3	0	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

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

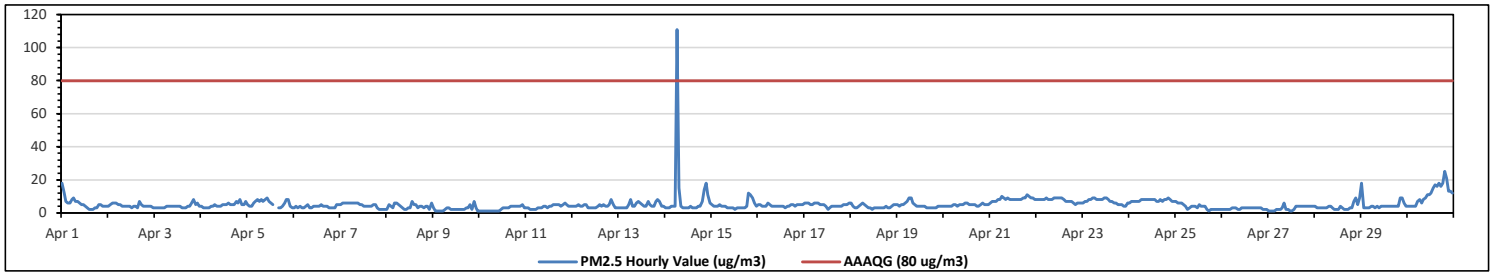
Number of 1-Hour Exceedances: 1 Number of 24-Hour Exceedances: 0

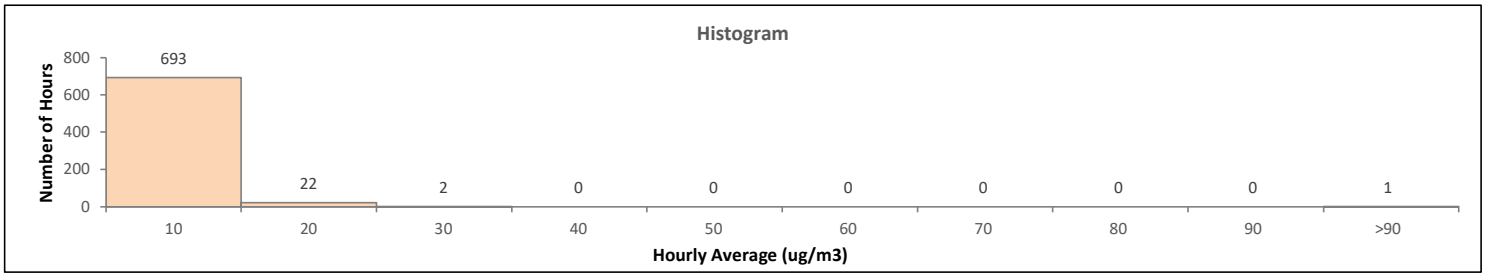
Maximum Hourly Value:	111 µg/m^3 on Apr 14 at hr 6	Hours in Service:	720
Maximum Daily Value:	11.5 µg/m^3 on Apr 30	Hours of Data:	718
Minimum Hourly Value:	1 µg/m^3 on Apr 9 at hr 1	Hours of Missing Data:	0
Minimum Daily Value:	2 µg/m^3 on Apr 9	Hours of Calibration:	2
Monthly Average:	5.0 µg/m^3	Operational 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			
Apr 1	18	12	7	6	6	8	9	7	7	6	5	5	4	3	2	2	2	3	3	5	5	4	4	4	2	18	5.7
Apr 2	4	5	6	6	6	5	5	4	4	4	4	4	3	4	4	3	7	5	4	4	4	4	4	3	3	7	4.4
Apr 3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	3	3	4	4	6	8	5	6	4	3	8	4.0
Apr 4	4	3	3	3	3	4	4	5	4	4	4	5	5	5	6	5	5	5	7	6	8	5	5	7	3	8	4.8
Apr 5	5	4	4	6	7	8	7	8	7	8	9	7	6	5	C	C	3	3	4	6	8	8	4	3	3	9	5.9
Apr 6	3	4	3	4	3	3	4	5	3	3	4	4	4	4	5	4	4	4	3	3	3	3	5	5	3	5	3.8
Apr 7	5	6	6	6	6	6	6	6	6	6	5	5	4	4	4	4	4	5	5	3	2	2	2	2	2	6	4.6
Apr 8	2	5	4	3	6	6	5	4	3	2	2	3	3	7	5	5	3	4	4	3	4	4	2	6	2	7	4.0
Apr 9	3	1	1	1	1	1	2	3	3	2	2	2	2	2	2	2	2	3	3	5	2	7	3	1	**1**	7	**2.3**
Apr 10	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	4	4	4	4	4	4	5	3	**1**	5	2.4
Apr 11	3	3	2	2	2	2	3	3	3	4	4	3	4	4	5	5	5	5	4	5	6	5	4	4	2	6	3.8
Apr 12	4	4	4	5	4	4	5	5	3	3	3	3	3	4	5	4	5	4	4	5	8	5	3	3	3	8	4.2
Apr 13	3	3	3	3	3	5	8	4	4	6	7	6	5	4	4	7	5	4	4	7	8	7	4	4	3	8	4.9
Apr 14	3	3	3	4	4	4	**111**	15	4	3	3	3	3	4	3	3	3	4	4	7	14	18	11	6	3	**111**	10.0
Apr 15	5	4	4	4	5	4	4	4	3	3	3	3	2	3	3	3	3	3	4	12	11	9	6	4	2	12	4.5
Apr 16	5	5	4	4	4	6	5	4	4	4	4	4	4	4	3	4	4	5	5	4	5	5	5	5	3	6	4.4
Apr 17	6	6	6	5	5	6	6	6	5	5	5	4	2	3	4	4	4	4	4	4	5	5	5	6	2	6	4.8
Apr 18	6	4	3	3	4	5	6	5	4	3	3	2	3	3	3	3	3	3	4	3	3	4	5	5	2	6	3.8
Apr 19	5	4	5	5	6	7	9	9	6	5	4	4	4	4	4	3	3	3	3	3	3	4	4	4	3	9	4.6
Apr 20	4	4	4	4	4	5	5	4	5	5	5	6	6	5	5	5	5	4	4	5	6	5	5	5	4	6	4.8
Apr 21	6	7	7	7	8	8	10	9	8	9	8	8	8	8	8	8	8	9	9	11	10	9	9	8	6	11	8.3
Apr 22	8	8	8	8	8	9	8	8	8	9	9	9	9	9	8	7	7	7	7	6	5	6	6	6	5	9	7.6
Apr 23	6	7	7	8	8	9	9	8	8	8	8	9	9	8	7	7	6	6	5	5	5	4	4	6	4	9	7.0
Apr 24	6	7	7	7	7	7	8	8	8	8	8	8	8	8	7	7	8	7	8	8	9	8	7	7	6	9	7.5
Apr 25	7	6	6	6	5	4	2	3	4	4	4	3	5	4	4	4	2	1	2	2	2	2	2	2	**1**	7	3.6
Apr 26	2	2	2	2	2	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	3	2.6
Apr 27	1	1	1	1	2	2	2	3	6	2	2	1	1	2	4	4	4	4	4	4	4	4	4	4	**1**	6	2.8
Apr 28	4	3	3	3	3	3	3	4	4	3	2	2	2	4	3	2	2	2	3	3	7	9	5	9	2	9	3.7
Apr 29	18	3	3	3	3	4	4	3	4	3	4	4	4	4	4	4	4	4	4	4	9	9	6	4	3	18	4.8
Apr 30	4	4	4	4	4	7	8	6	8	9	11	11	12	15	17	16	18	16	18	25	21	13	13	12	4	25	**11.5**
Diurnal Maximum	18	12	8	8	8	9	111	15	8	9	11	11	12	15	17	16	18	16	18	25	21	18	13	12			
Diurnal Average	5.1	4.4	4.1	4.2	4.4	5.0	8.9	5.4	4.8	4.6	4.7	4.6	4.5	4.8	4.8	4.6	4.6	4.6	4.8	5.7	6.4	6.0	5.0	4.8			

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.



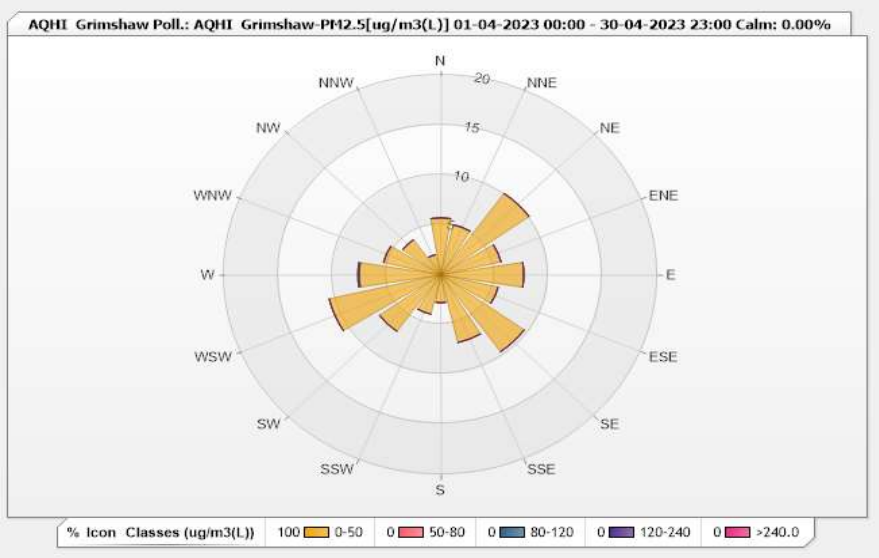


Station: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 04-2023

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

Calm: 0.00% Valid Data: 99.72% Calm Avg: 0.00 [ppm]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	5.71	0	0	0	0	5.71
NNE	5.15	0	0	0	0	5.15
NE	10.03	0	0	0	0	10.03
ENE	5.71	0	0	0	0	5.71
E	7.66	0	0	0	0	7.66
ESE	5.43	0	0	0	0	5.43
SE	9.47	0	0	0	0	9.47
SSE	6.96	0	0	0	0	6.96
S	2.79	0	0	0	0	2.79
SSW	4.04	0	0	0	0	4.04
SW	6.96	0	0	0	0	6.96
WSW	10.58	0	0	0	0	10.58
W	7.52	0	0.14	0	0	7.66
WNW	5.43	0	0	0	0	5.43
NW	4.32	0	0	0	0	4.32
NNW	2.09	0	0	0	0	2.09
Summary	100	0	0.14	0	0	100



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

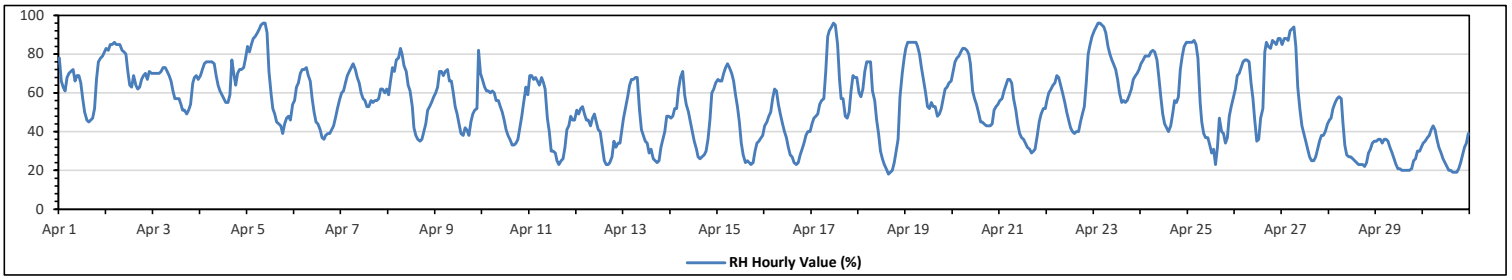
Maximum Hourly Value:	96	%	on Apr 5 at hr 8	Hours in Service:	720	
Maximum Daily Value:	74.8	%	on Apr 23	Hours of Data:	720	
Minimum Hourly Value:	18	%	on Apr 18 at hr 15	Hours of Missing Data:	0	
Minimum Daily Value:	27.7	%	on Apr 29	Hours of Calibration:	0	
Monthly Average:	54.6	%		Operational Uptime:	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			
Apr 1	78	66	63	61	68	70	71	72	66	69	69	65	57	50	46	45	46	47	52	67	76	78	79	81	45	81	64.3
Apr 2	83	82	85	85	86	85	85	85	82	81	80	71	64	63	69	64	62	63	67	69	70	67	71	70	62	86	74.5
Apr 3	70	70	70	70	71	73	73	71	69	66	61	57	57	57	54	51	51	49	51	54	65	68	69	67	49	73	63.1
Apr 4	69	72	75	76	76	76	76	75	69	64	61	59	57	55	55	59	77	70	64	70	72	72	73	78	55	78	68.8
Apr 5	84	81	85	88	89	91	93	95	**96**	**96**	91	71	59	52	49	45	44	43	39	44	47	48	46	54	39	**96**	67.9
Apr 6	56	63	65	70	72	72	73	69	66	57	50	45	44	41	37	36	38	39	39	41	43	48	52	56	36	73	53.0
Apr 7	60	61	65	69	71	73	75	72	68	65	60	57	56	53	53	56	55	56	56	57	62	62	60	62	53	75	61.8
Apr 8	59	65	73	71	77	78	83	80	74	71	64	61	53	42	38	36	35	36	40	44	51	53	55	58	35	83	58.2
Apr 9	60	63	71	71	69	71	72	66	66	60	53	49	44	39	38	42	41	38	45	49	51	52	82	70	38	82	56.8
Apr 10	67	63	61	61	60	61	60	56	56	53	50	46	41	38	36	33	33	34	36	42	48	55	63	59	33	67	50.5
Apr 11	69	69	67	68	66	64	68	65	62	47	40	30	30	29	25	23	25	26	32	41	43	48	46	46	23	69	47.0
Apr 12	51	49	52	53	49	46	46	43	47	49	45	41	40	33	25	23	23	24	27	35	32	34	34	40	23	53	39.2
Apr 13	47	53	58	64	67	67	68	68	51	41	38	35	34	29	31	26	25	24	25	32	36	40	48	48	24	68	44.0
Apr 14	47	48	52	52	62	68	71	59	54	50	45	40	35	31	27	26	27	28	30	36	46	60	62	65	26	71	46.7
Apr 15	67	66	66	70	73	75	73	70	66	59	53	45	34	28	24	25	24	23	24	30	34	35	37	38	23	75	47.5
Apr 16	43	45	48	50	57	62	61	54	49	44	40	37	32	28	27	24	23	24	28	31	34	38	40	40	23	62	40.0
Apr 17	44	47	48	49	54	56	57	71	89	92	94	**96**	95	85	67	57	57	48	47	50	61	69	68	68	44	**96**	65.4
Apr 18	60	58	62	71	76	76	76	61	56	46	39	30	26	23	21	**18**	19	20	24	30	36	58	70	78	**18**	78	47.3
Apr 19	83	86	86	86	86	86	84	80	73	66	60	53	52	55	53	53	48	49	52	57	62	63	65	66	48	86	66.8
Apr 20	71	76	78	79	81	83	83	82	80	75	61	57	54	50	45	45	44	43	43	43	44	51	53	54	43	83	61.5
Apr 21	56	57	61	64	67	67	65	57	51	44	39	37	36	34	32	31	29	30	31	38	45	49	52	52	29	67	46.8
Apr 22	56	60	62	64	65	69	68	64	60	55	50	46	42	40	39	40	40	45	49	53	65	80	85	89	39	89	57.8
Apr 23	92	94	**96**	**96**	95	94	91	84	80	77	75	72	67	60	55	56	55	56	59	62	67	69	70	72	55	**96**	**74.8**
Apr 24	75	77	79	79	79	81	82	81	77	68	58	49	44	42	40	43	49	56	55	58	72	79	84	86	40	86	66.4
Apr 25	86	86	86	87	85	78	55	45	39	37	37	33	29	31	23	32	47	40	39	34	37	48	53	57	23	87	51.0
Apr 26	62	69	70	73	76	77	77	76	65	57	47	35	36	47	52	81	86	84	83	87	86	85	88	88	35	88	70.3
Apr 27	85	88	88	87	92	93	94	84	63	51	43	39	35	31	27	25	25	27	31	35	38	38	40	44	25	94	54.3
Apr 28	46	47	52	55	57	58	57	45	33	28	27	27	26	25	24	23	23	23	22	24	29	31	34	35	22	58	35.5
Apr 29	35	36	36	34	36	36	35	32	29	26	23	21	21	20	20	20	20	20	21	25	26	30	30	32	20	36	**27.7**
Apr 30	34	35	37	38	41	43	41	36	32	29	26	24	22	20	20	19	19	19	21	24	28	32	34	39	19	43	29.7
Diurnal Maximum	92	94	96	96	95	94	94	95	96	96	94	96	95	85	69	81	86	84	83	87	86	85	88	89			
Diurnal Average	63.2	64.4	66.6	68.0	70.1	71.0	70.4	66.6	62.3	57.4	52.6	47.6	44.1	41.0	38.4	38.6	39.7	39.5	41.1	45.4	50.2	54.7	58.1	59.7			

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 - April 2023

Summary of Hourly Averages

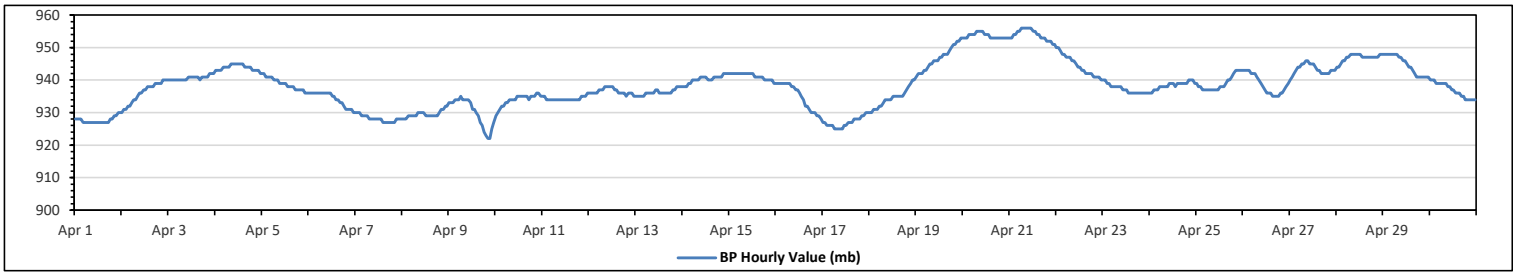
BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	956	mb	on Apr 21 at hr 6	Hours in Service:	720	
Maximum Daily Value:	954	mb	on Apr 21	Hours of Data:	720	
Minimum Hourly Value:	922	mb	on Apr 9 at hr 20	Hours of Missing Data:	0	
Minimum Daily Value:	927	mb	on Apr 17	Hours of Calibration:	0	
Monthly Average:	938	mb		Operational Uptime:	100.0	

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

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

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



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

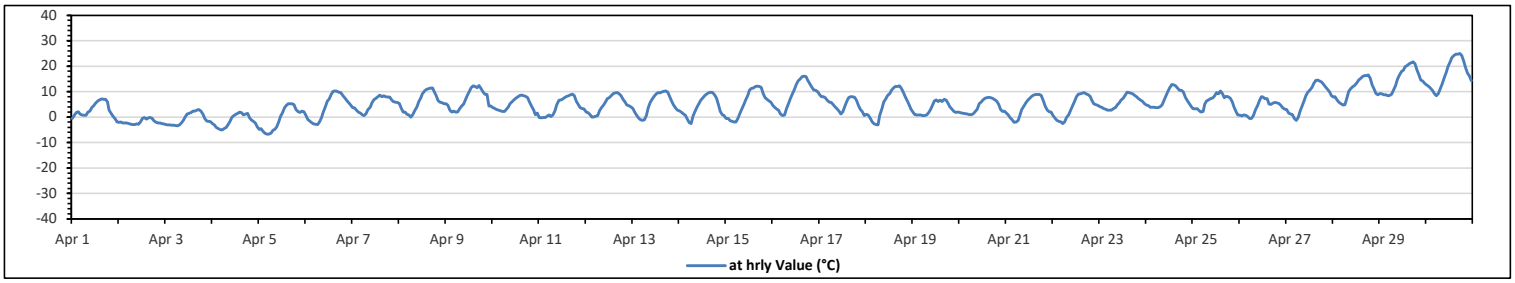
Maximum Hourly Value:	25.0	°C	on Apr 30 at hr 17	Hours in Service:	720	
Maximum Daily Value:	17.0	°C	on Apr 30	Hours of Data:	720	
Minimum Hourly Value:	-6.7	°C	on Apr 5 at hr 4	Hours of Missing Data:	0	
Minimum Daily Value:	-1.9	°C	on Apr 2	Hours of Calibration:	0	
Monthly Average:	5.2	°C		Operational 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
Apr 1	-0.6	0.9	1.8	2.1	1.3	0.9	0.7	0.7	1.9	2.4	3.7	4.5	5.5	6.3	6.8	7.1	7	7	6	2.7	1.4	0.2	-0.7	-1.9	-1.9	7.1	2.8
Apr 2	-2.1	-2	-2.3	-2.3	-2.4	-2.5	-2.8	-2.9	-2.9	-2.7	-2.8	-2	-0.6	-0.2	-0.8	-0.3	-0.1	-0.4	-1.4	-2.1	-2.3	-2.3	-2.5	-2.7	-2.9	-0.1	**-1.9**
Apr 3	-2.9	-3	-3.1	-3.2	-3.2	-3.3	-3.4	-3	-2.4	-1.2	0.1	1.3	1.5	1.8	2.4	2.4	2.7	2.9	2.3	1.3	-0.6	-1.5	-1.6	-1.8	-3.4	2.9	-0.6
Apr 4	-2.5	-3	-4.1	-4.6	-5	-5.1	-4.6	-4.1	-2.9	-1.6	0	0.5	1.1	1.5	2	1.7	0.9	1.2	1.5	-0.3	-1.1	-1.6	-2.3	-3.8	-5.1	2.0	-1.5
Apr 5	-4.8	-4.6	-5.6	-6.3	**-6.7**	**-6.7**	-6.3	-5.2	-4.8	-3.8	-1.9	0.3	1.7	3.6	4.6	5.2	5.3	5.2	4.9	3	2.1	1.8	2.4	2.1	**-6.7**	5.3	-0.6
Apr 6	0.7	-0.9	-1.5	-2.2	-2.7	-2.8	-2.9	-1.8	-0.2	1.8	4.1	6.2	7.1	8.9	10.1	10.3	10.2	9.7	9.6	8.3	7.5	6.5	5.6	4.7	-2.9	10.3	4.0
Apr 7	3.8	3.6	2.7	2	1.6	0.9	0.6	1.4	3	3.9	5.7	6.9	7.4	8.1	8.6	8.1	8.4	8.1	7.9	7.9	6.8	6.1	5.9	5.7	0.6	8.6	5.2
Apr 8	5.4	3.5	2	2	1.1	0.8	0	1	2.8	4	6.1	7.5	9.1	10.3	10.9	11.1	11.4	11.4	10	8.5	6.5	5.9	5.6	5.2	0.0	11.4	5.9
Apr 9	5.3	4.6	2.7	2	2.3	1.9	1.9	3.3	4.3	5.1	6.7	8.3	10.1	11.6	12.3	12	11.5	12.4	11.2	10	9	8.9	4.3	4.3	1.9	12.4	6.9
Apr 10	3.7	3.5	3	2.7	2.5	2.2	2.2	2.9	3.9	5.2	6	6.9	7.5	8.1	8.5	8.6	8.3	8.2	7.6	5.9	4.2	2.7	1	1.6	1.0	8.6	4.9
Apr 11	-0.2	-0.3	-0.2	-0.2	0.3	0.9	0.2	0.9	2.3	4.9	6.6	6.8	7.1	7.7	8.2	8.4	8.8	9	8.4	6.3	5	3.7	3.4	3.2	-0.3	9.0	4.2
Apr 12	1.9	1.7	1	0	0.1	0.3	0.6	2.6	3.8	4.9	6.1	7.2	7.6	8.5	9.3	9.5	9.6	9.1	8.3	7	6	4.7	4.5	4	0.0	9.6	4.9
Apr 13	3.4	1.8	0.8	-0.4	-1.1	-1.3	-1.1	0.5	3.8	5.7	7	8.2	9.1	9.6	9.5	9.9	10.1	10.3	9.7	8.1	6.2	4.7	3.5	2.7	-1.3	10.3	5.0
Apr 14	2.5	1.9	1.2	0.7	-0.8	-2.2	-2.5	0.4	2.2	3.9	5.3	6.6	7.7	8.5	9	9.5	9.7	9.6	8.8	7.5	5	2.2	1	0.5	-2.5	9.7	4.1
Apr 15	-0.5	-0.6	-1.4	-1.6	-1.9	-1.9	-0.6	1.4	3.1	4.7	6.6	8.5	10.5	11.2	11.4	12.1	12.2	12.1	11.7	9.3	7.6	7	6.4	5.9	-1.9	12.2	5.6
Apr 16	4.4	3.7	3.1	2.7	1.3	0.5	0.9	3.4	5.2	7.2	9	10.7	12.6	14.1	15	16	16.1	15.9	14.5	13	11.8	10.7	10.5	9.9	0.5	16.1	8.8
Apr 17	8.9	8	8	7.6	6.5	5.8	5.7	4.8	4	3.2	2.3	1.2	2.1	4.4	6.4	7.6	8	8.1	7.8	6.5	4.5	3	2.1	0.6	0.6	8.9	5.3
Apr 18	1.1	0.8	-0.3	-2	-2.7	-2.9	-3.1	0.5	3.2	6	7.1	8.5	9.3	10.5	11.4	12.1	12	12.3	11.2	9.7	8	6.5	4.8	3.1	-3.1	12.3	5.3
Apr 19	1.9	1	0.8	0.9	0.9	0.6	0.5	0.9	1.7	3	4.6	6.4	6.8	6.1	6.6	6.1	7	6.6	5.4	4.1	3.1	2.2	1.8	1.9	0.5	7.0	3.4
Apr 20	1.8	1.6	1.5	1.4	1.2	1	1	1.4	2.2	3.1	5.2	5.9	6.8	7.3	7.7	7.8	7.7	7.3	6.9	6.2	5	2.9	2.2	2.3	1.0	7.8	4.1
Apr 21	1.6	0.9	-0.3	-1.1	-2.1	-1.9	-1.2	1	2.9	4.3	5.6	6.6	7.4	8.2	8.6	8.9	8.9	8.9	8.5	6.3	4.1	2.8	2.1	1.9	-2.1	8.9	3.9
Apr 22	0.6	-0.4	-1.2	-1.7	-1.9	-2.5	-1.9	-0.1	1	2.7	4.4	6.1	8.1	9	9.2	9.4	9.6	9.1	8.7	8.2	6.7	5.2	4.8	4.6	-2.5	9.6	4.1
Apr 23	4.2	3.9	3.3	3.1	2.8	2.7	2.8	3.3	3.8	4.8	5.6	6.7	7.4	8.5	9.7	9.6	9.4	9.1	8.5	8	7.2	6.6	6.1	5.3	2.7	9.7	5.9
Apr 24	4.7	4.4	3.9	3.9	3.9	3.8	3.8	4.1	4.8	6.4	8.2	10.1	11.6	12.8	12.7	12.3	11.4	10.5	10.5	9.9	7.6	6.4	5.2	4.2	3.8	12.8	7.4
Apr 25	3.4	3.2	3.3	2.6	2	2.2	5.1	6.4	6.8	7.2	7.5	8.4	9.6	9.2	10.3	9.3	7.7	8.2	8	7.4	6	4.1	2.4	0.9	0.9	10.3	5.9
Apr 26	0.7	0.4	0.9	0.7	0.2	-0.5	-0.5	0.5	2.7	4.5	6.5	8	7.9	7.2	7.2	5.1	5	5.5	5.7	5.6	5.4	4.7	3.7	3.1	-0.5	8.0	3.8
Apr 27	2.9	1.6	1.3	1	-0.5	-1.3	-0.2	2.3	4.6	6.6	8.3	9.7	10.6	11.7	13.3	14.4	14.6	14.2	13.7	12.9	11.9	11	9.9	8.4	-1.3	14.6	7.6
Apr 28	7.9	8	6.7	5.7	5.2	4.7	4.9	7.4	10.2	11.1	11.9	12.4	13.4	14.5	15.2	15.9	16.3	16.3	16.5	15.3	12.7	10.8	9.3	8.8	4.7	16.5	10.9
Apr 29	9.3	9.1	8.7	8.8	8.3	8.5	9	10.7	12.3	14.8	16.4	17.9	18.5	19.8	20.3	20.9	21.3	21.7	20.9	18.6	16.6	14.6	14.1	13.3	8.3	21.7	14.8
Apr 30	12.6	12.1	11.2	10.4	9.2	8.3	9.3	11.1	13	15.3	17.7	19.9	21.5	23.3	24.3	24.7	24.7	**25**	24.3	22.1	19.4	17.4	16.2	14.3	8.3	**25.0**	**17.0**
Diurnal Maximum	12.6	12.1	11.2	10.4	9.2	8.5	9.3	11.1	13.0	15.3	17.7	19.9	21.5	23.3	24.3	24.7	24.7	25.0	24.3	22.1	19.4	17.4	16.2	14.3			
Diurnal Average	2.6	2.2	1.6	1.2	0.7	0.4	0.6	1.9	3.2	4.6	6.0	7.2	8.2	9.1	9.7	9.9	9.9	9.8	9.3	7.9	6.4	5.3	4.4	3.7			

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 - April 2023

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

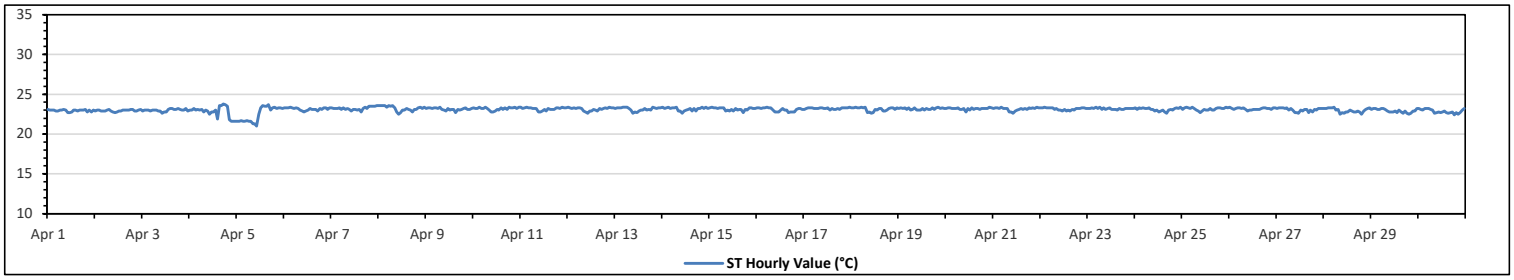
Maximum Hourly Value:	23.8	°C	on Apr 4 at hr 17	Hours in Service:	720	
Maximum Daily Value:	23.2	°C	on Apr 8	Hours of Data:	720	
Minimum Hourly Value:	21.0	°C	on Apr 5 at hr 10	Hours of Missing Data:	0	
Minimum Daily Value:	22.5	°C	on Apr 5	Hours of Calibration:	0	
Monthly Average:	23.1	°C		Operational 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
Apr 1	23.1	23.0	23.0	23.0	22.9	22.9	23.0	23.0	23.1	23.0	22.7	22.7	22.8	23.0	23.0	22.9	23.0	23.0	23.0	23.1	22.8	23.0	22.8	23.0	22.7	23.1	23.0
Apr 2	22.9	23.0	23.0	22.9	22.9	22.9	23.0	23.1	22.9	22.8	22.7	22.8	22.9	22.9	23.0	23.0	23.0	23.0	23.1	23.1	22.9	22.9	23.0	23.1	22.7	23.1	23.0
Apr 3	22.9	23.0	23.0	23.0	22.9	23.0	23.0	23.0	22.9	22.9	22.6	22.8	22.8	23.1	23.2	23.2	23.1	23.1	23.2	23.1	23.0	23.0	23.2	22.9	22.6	23.2	23.0
Apr 4	23.0	23.0	23.2	23.0	23.1	23.0	23.1	22.8	23.0	22.9	22.5	22.8	22.8	23.0	21.9	23.6	23.6	**23.8**	23.7	23.5	21.8	21.6	21.6	21.6	21.6	**23.8**	22.8
Apr 5	21.6	21.6	21.7	21.6	21.6	21.7	21.6	21.6	21.3	21.3	**21.0**	22.5	23.3	23.6	23.5	23.5	23.7	23.0	23.3	23.4	23.2	23.3	23.3	23.2	**21.0**	23.7	**22.5**
Apr 6	23.3	23.3	23.3	23.4	23.3	23.2	23.3	23.2	23.0	22.9	22.8	22.9	23.0	23.2	23.1	23.1	23.1	22.9	23.2	23.1	23.3	23.3	23.1	23.3	22.8	23.4	23.2
Apr 7	23.3	23.2	23.2	23.2	23.3	23.1	23.3	23.1	23.2	23.1	22.9	23.1	23.1	23.0	23.1	22.8	23.2	23.4	23.2	23.5	23.5	23.5	23.5	23.6	22.8	23.6	**23.2**
Apr 8	23.6	23.6	23.6	23.6	23.4	23.6	23.5	23.6	23.3	22.8	22.5	22.7	23.0	23.0	23.2	23.1	23.0	22.8	23.1	23.1	23.3	23.4	23.2	23.4	22.5	23.6	**23.2**
Apr 9	23.2	23.3	23.3	23.2	23.3	23.3	23.2	23.4	23.1	23.0	22.9	23.2	23.0	23.1	23.1	22.7	23.1	23.0	23.1	23.2	23.3	23.1	23.1	23.2	22.7	23.4	23.1
Apr 10	23.3	23.2	23.2	23.4	23.2	23.2	23.4	23.2	23.0	22.8	22.8	22.9	23.1	23.0	23.3	23.1	23.3	23.1	23.4	23.3	23.3	23.4	23.2	23.4	22.8	23.4	23.2
Apr 11	23.4	23.2	23.3	23.4	23.3	23.3	23.2	23.2	23.2	22.8	22.8	22.9	23.1	22.9	23.2	23.1	23.1	23.1	23.3	23.3	23.2	23.4	23.3	23.3	22.8	23.4	23.2
Apr 12	23.4	23.3	23.2	23.3	23.2	23.3	23.3	23.2	22.9	22.8	22.6	22.9	22.9	23.1	23.0	22.9	23.2	23.1	23.2	23.3	23.2	23.4	23.3	23.3	22.6	23.4	23.1
Apr 13	23.2	23.3	23.3	23.3	23.4	23.4	23.4	23.2	23.0	22.6	22.8	22.7	22.9	23.0	23.0	23.2	23.0	23.1	23.0	23.4	23.3	23.2	23.3	23.3	22.6	23.4	23.1
Apr 14	23.4	23.2	23.3	23.4	23.2	23.3	23.3	23.4	22.9	22.9	22.6	22.9	23.0	23.1	23.2	22.9	23.2	22.9	23.2	23.2	23.4	23.2	23.4	23.2	22.6	23.4	23.2
Apr 15	23.3	23.4	23.3	23.3	23.2	23.3	23.3	23.3	22.9	23.0	22.9	23.1	22.9	23.2	23.0	23.1	23.1	22.7	23.1	23.0	23.3	23.3	23.2	23.2	22.7	23.4	23.1
Apr 16	23.3	23.3	23.2	23.3	23.3	23.4	23.3	23.3	23.0	22.8	22.8	22.8	23.0	23.2	23.0	23.0	22.7	22.8	22.8	22.8	23.1	23.2	23.2	23.1	22.7	23.4	23.1
Apr 17	23.1	23.2	23.3	23.3	23.3	23.2	23.2	23.2	23.3	23.3	23.2	23.2	23.3	23.0	23.2	23.1	23.1	23.2	23.1	23.3	23.3	23.3	23.3	23.4	23.0	23.4	**23.2**
Apr 18	23.3	23.3	23.4	23.3	23.3	23.4	23.3	23.4	22.7	22.8	22.6	22.7	23.1	23.0	23.2	23.2	22.9	22.9	23.0	23.2	23.3	23.3	23.1	23.3	22.6	23.4	23.1
Apr 19	23.2	23.3	23.2	23.3	23.1	23.3	23.0	23.1	23.3	23.0	23.0	23.0	23.2	23.0	23.2	23.1	23.1	23.3	23.1	23.3	23.4	23.2	23.3	23.2	23.0	23.4	23.2
Apr 20	23.2	23.3	23.3	23.2	23.2	23.2	23.3	23.1	23.1	23.2	22.8	23.2	23.0	23.3	23.1	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.4	23.3	22.8	23.4	23.2
Apr 21	23.2	23.3	23.3	23.2	23.4	23.2	23.2	23.2	22.8	22.8	22.6	22.9	23.0	23.1	23.2	23.1	23.2	23.1	23.3	23.2	23.3	23.2	23.4	23.3	22.6	23.4	23.1
Apr 22	23.3	23.3	23.4	23.3	23.3	23.3	23.3	23.1	23.2	23.0	23.0	22.9	23.1	22.9	23.0	22.9	23.1	23.0	23.2	23.2	23.2	23.3	23.3	23.2	22.9	23.4	23.2
Apr 23	23.2	23.2	23.3	23.2	23.4	23.2	23.4	23.1	23.3	23.1	23.2	23.3	23.1	23.1	23.1	23.0	23.2	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.0	23.4	23.2
Apr 24	23.3	23.1	23.3	23.2	23.3	23.2	23.2	23.3	23.1	23.1	22.9	23.0	22.8	22.9	23.0	22.8	22.6	23.0	23.1	23.0	23.2	23.3	23.2	23.4	22.6	23.4	23.1
Apr 25	23.1	23.3	23.4	23.3	23.2	23.4	23.2	23.0	22.9	22.7	22.9	23.1	23.0	23.0	23.2	23.0	23.0	23.2	23.3	23.3	23.2	23.2	23.4	23.3	22.7	23.4	23.2
Apr 26	23.4	23.2	23.1	23.2	23.3	23.3	23.2	23.3	23.1	22.9	23.0	23.0	23.1	23.1	23.1	23.1	23.2	23.3	23.3	23.2	23.2	23.1	23.3	23.3	22.9	23.4	23.2
Apr 27	23.2	23.3	23.3	23.3	23.2	23.3	23.0	23.2	23.0	22.7	22.7	22.6	23.0	22.9	23.1	23.1	22.7	23.0	22.8	23.1	23.0	23.2	23.2	23.2	22.6	23.3	23.0
Apr 28	23.2	23.2	23.3	23.3	23.3	23.4	23.0	23.1	22.5	22.7	22.6	22.8	22.8	23.0	22.9	22.8	22.8	22.9	22.8	22.5	22.9	23.1	23.2	23.3	22.5	23.4	23.0
Apr 29	23.1	23.2	23.2	23.1	23.1	23.2	23.2	23.1	22.9	22.8	22.8	22.8	22.9	22.7	23.0	22.8	22.6	22.9	22.6	22.5	22.6	22.9	22.9	23.2	22.5	23.2	22.9
Apr 30	23.2	23.1	23.0	23.2	23.2	23.2	23.1	23.0	22.6	22.7	22.8	22.7	22.8	22.9	22.7	22.6	22.7	22.8	22.4	22.7	22.5	22.7	23.0	23.2	22.4	23.2	22.9
Diurnal Maximum	23.6	23.6	23.6	23.6	23.4	23.6	23.5	23.6	23.3	23.3	23.2	23.3	23.3	23.6	23.5	23.6	23.7	23.8	23.7	23.5	23.5	23.5	23.5	23.6			
Diurnal Average	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.1	23.0	22.8	22.7	22.9	23.0	23.0	23.1	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.2			

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

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

Maximum Hourly Value:	34.6	kph	on Apr 25 at hr 9	Hours in Service:	720	
Maximum Daily Value:	21.5	kph	on Apr 10	Hours of Data:	720	
Minimum Hourly Value:	0.0	kph	on Apr 18 at hr 3	Hours of Missing Data:	0	
Minimum Daily Value:	3.5	kph	on Apr 3	Hours of Calibration:	0	
Monthly Average:	8.7	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
Apr 1	0.4	5.8	7.5	7.2	4.7	1.5	2.3	0.8	1.4	3.1	3.9	4.7	6.4	5.6	4.5	5.9	6.4	6.4	5.5	10.1	13.5	13.2	13.2	15.4	0.4	15.4	6.2
Apr 2	10.8	10.2	11.4	13.3	11.3	12.6	10.3	10.7	13.6	12.6	13.7	13.7	12.9	11.7	8.3	6.7	4.0	4.9	4.0	5.8	5.2	4.9	3.2	3.0	3.0	13.7	9.1
Apr 3	2.1	2.3	1.4	1.7	2.5	2.4	4.6	3.7	5.2	4.1	3.9	3.1	2.9	3.5	2.8	3.3	3.8	3.2	5.0	2.0	4.2	5.1	5.7	5.2	1.4	5.7	**3.5**
Apr 4	6.4	8.4	7.4	8.3	9.3	9.4	9.3	7.7	5.0	5.8	1.5	3.4	4.6	7.2	7.9	13.0	13.1	10.1	6.0	4.6	4.1	5.6	4.7	0.7	0.7	13.1	6.8
Apr 5	3.8	5.2	2.0	3.6	3.6	2.2	3.1	3.2	2.7	1.9	2.1	4.5	4.3	5.8	6.1	7.3	6.6	7.1	3.2	4.3	2.1	2.4	3.4	5.0	1.9	7.3	4.0
Apr 6	2.3	1.4	3.0	2.9	2.7	2.7	2.6	3.7	6.1	5.3	5.1	3.4	9.5	8.1	10.4	12.8	11.4	7.4	6.9	5.5	10.9	7.8	7.8	8.3	1.4	12.8	6.2
Apr 7	10.5	14.1	10.0	7.7	8.1	5.9	5.7	6.3	7.9	7.8	9.2	7.9	5.7	3.9	3.6	4.8	2.9	5.4	11.0	13.3	8.6	7.2	9.8	10.6	2.9	14.1	7.8
Apr 8	9.9	5.9	5.2	4.4	5.4	2.8	1.6	1.9	3.0	5.3	4.4	7.7	7.5	8.8	10.6	10.8	9.2	7.6	11.0	10.2	9.5	8.2	10.0	12.8	1.6	12.8	7.2
Apr 9	13.8	8.8	7.0	6.0	5.8	7.0	5.8	4.5	4.5	4.4	5.2	5.0	5.5	11.2	10.6	10.2	6.9	3.9	3.5	7.0	10.1	14.0	24.9	21.6	3.5	24.9	8.6
Apr 10	24.1	27.2	23.5	21.2	24.1	24.9	24.4	25.6	26.8	31.1	29.7	29.0	26.6	28.0	27.6	27.6	26.2	21.4	16.8	10.9	7.4	3.9	2.3	5.0	2.3	31.1	**21.5**
Apr 11	2.8	4.5	1.4	3.5	5.0	6.3	3.3	8.9	7.7	4.1	4.0	4.6	9.1	11.9	13.3	14.1	11.5	10.8	9.9	9.6	10.5	9.1	9.3	9.2	1.4	14.1	7.7
Apr 12	9.1	7.8	9.1	7.5	8.5	9.6	9.0	8.4	7.6	6.6	7.8	4.8	8.1	10.5	19.7	18.9	17.8	14.5	10.9	7.7	7.5	5.9	8.1	8.2	4.8	19.7	9.7
Apr 13	9.8	5.4	5.5	5.3	7.0	5.0	7.2	5.8	10.2	14.5	13.4	9.8	12.7	12.9	17.4	11.6	12.0	10.3	8.7	4.4	5.4	5.6	8.5	7.3	4.4	17.4	9.0
Apr 14	9.2	8.6	7.3	7.2	5.5	0.9	2.1	4.1	6.8	8.1	12.2	13.2	10.6	9.0	8.6	9.9	6.3	9.0	6.9	3.6	2.3	1.5	3.6	2.5	0.9	13.2	6.6
Apr 15	3.9	3.5	2.7	2.0	3.3	4.5	4.0	3.1	9.7	10.5	11.1	13.6	15.1	15.9	11.8	7.1	9.7	9.5	5.8	3.0	4.5	5.2	5.6	7.1	2.0	15.9	7.2
Apr 16	4.9	4.8	5.2	5.6	5.7	4.2	3.2	4.7	5.4	4.8	7.0	7.7	8.6	8.2	9.2	10.7	18.0	8.5	10.9	7.2	6.5	6.2	7.9	10.3	3.2	18.0	7.3
Apr 17	9.3	7.9	9.3	9.3	6.1	7.6	9.4	10.2	4.6	6.5	9.6	14.1	16.2	21.3	23.7	18.8	11.6	15.1	11.9	6.2	2.2	1.6	2.4	3.5	1.6	23.7	9.9
Apr 18	3.5	4.2	1.7	**0.0**	2.9	2.4	3.0	1.0	1.7	3.1	4.4	4.1	2.0	4.3	7.5	8.3	7.8	8.4	8.9	10.5	12.3	16.2	15.6	13.2	**0.0**	16.2	6.1
Apr 19	10.6	8.2	10.5	11.8	13.9	13.1	14.4	12.9	14.0	13.6	13.6	13.2	13.3	13.0	13.3	12.0	13.3	13.3	12.5	11.3	11.8	9.1	5.1	4.2	4.2	14.4	11.8
Apr 20	6.6	6.6	7.9	6.5	7.2	7.2	7.4	9.7	9.4	9.8	9.3	8.9	6.9	8.6	8.0	6.3	9.7	11.8	13.2	12.8	10.3	6.0	6.8	7.8	6.0	13.2	8.5
Apr 21	8.1	5.9	2.8	5.3	5.0	5.1	3.5	2.9	2.8	6.2	4.6	6.7	9.7	10.4	15.8	13.8	15.0	12.5	11.7	8.8	8.7	7.8	9.9	12.2	2.8	15.8	8.1
Apr 22	9.8	6.8	3.8	4.5	6.3	7.0	5.1	6.1	10.0	8.1	8.4	8.8	7.0	7.0	7.9	7.8	4.8	9.5	5.9	9.8	11.0	6.6	3.6	2.1	2.1	11.0	7.0
Apr 23	5.1	6.7	6.1	5.4	4.9	5.5	6.5	9.3	9.2	9.5	9.6	10.3	12.8	12.5	14.3	15.5	16.6	14.6	12.7	10.3	9.2	9.9	10.3	10.1	4.9	16.6	9.9
Apr 24	11.1	10.4	11.5	11.7	11.3	9.9	11.4	10.9	11.9	9.4	5.0	6.9	7.8	5.5	5.2	5.6	10.1	10.3	9.6	9.1	6.9	6.8	4.4	5.5	4.4	11.9	8.7
Apr 25	7.8	7.6	8.0	6.0	6.0	7.1	18.0	23.3	29.7	**34.6**	30.0	30.2	26.6	24.9	31.1	25.8	24.7	18.3	14.6	14.5	13.9	8.4	5.5	3.7	3.7	**34.6**	17.5
Apr 26	7.5	8.2	7.8	6.4	4.7	2.6	1.1	4.4	7.0	12.2	15.0	11.7	13.3	13.4	15.2	15.7	12.3	9.7	7.4	6.7	8.6	11.7	12.3	11.4	1.1	15.7	9.4
Apr 27	11.2	6.5	7.0	6.4	4.5	2.3	4.7	5.8	13.5	16.2	12.8	16.2	17.7	19.3	18.7	22.0	23.0	23.5	25.6	24.4	24.5	21.2	14.9	10.7	2.3	25.6	14.7
Apr 28	12.4	13.5	10.4	10.5	10.6	10.1	8.3	8.3	8.7	9.3	6.3	7.8	7.5	7.5	7.2	4.2	3.2	2.7	3.3	1.3	5.6	3.7	4.8	5.0	1.3	13.5	7.2
Apr 29	6.1	7.0	6.1	6.2	6.1	6.1	6.5	6.7	6.0	7.9	8.7	9.6	10.6	9.3	10.4	9.9	9.4	9.3	9.2	10.2	9.7	9.3	8.4	5.0	5.0	10.6	8.1
Apr 30	4.6	7.6	8.7	8.4	7.4	3.8	5.4	6.3	6.5	6.6	7.8	9.0	8.8	8.7	8.5	9.3	8.0	6.1	5.2	5.3	5.3	4.6	5.3	3.7	3.7	9.3	6.7
Diurnal Maximum	24.1	27.2	23.5	21.2	24.1	24.9	24.4	25.6	29.7	34.6	30.0	30.2	26.6	28.0	31.1	27.6	26.2	23.5	25.6	24.4	24.5	21.2	24.9	21.6			
Diurnal Average	7.9	7.7	7.0	6.9	7.0	6.4	6.8	7.4	8.6	9.4	9.3	9.8	10.3	10.9	12.0	11.7	11.2	10.2	9.3	8.3	8.4	7.6	7.9	7.7			

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.
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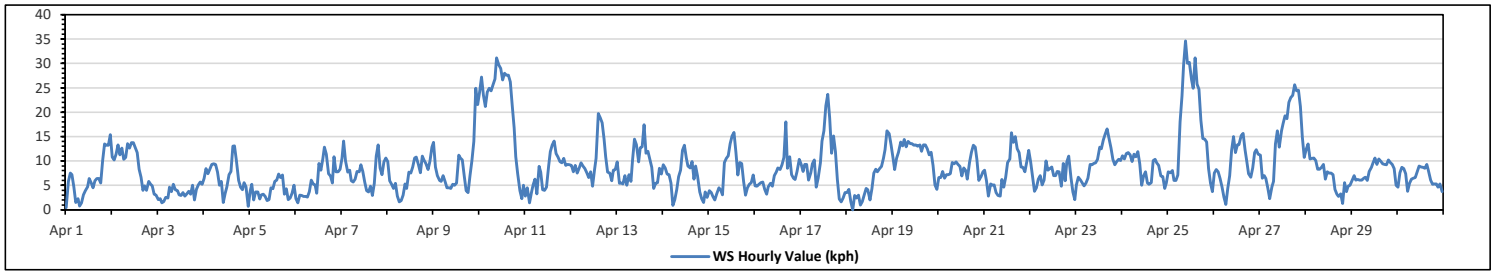
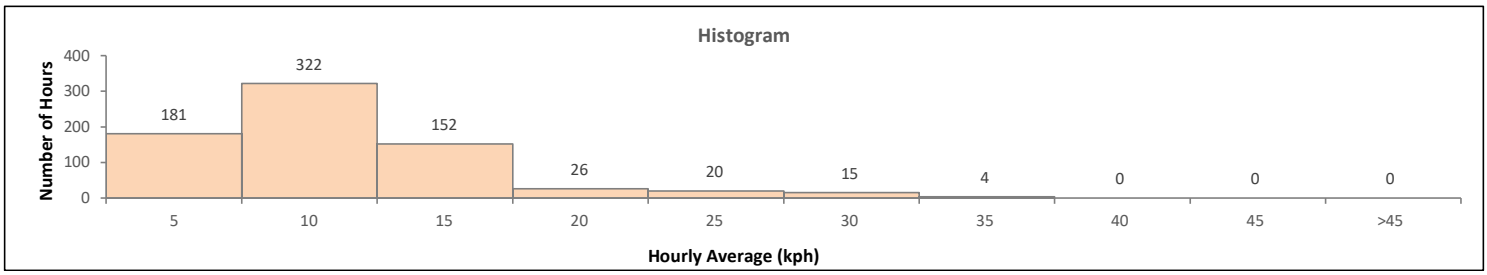


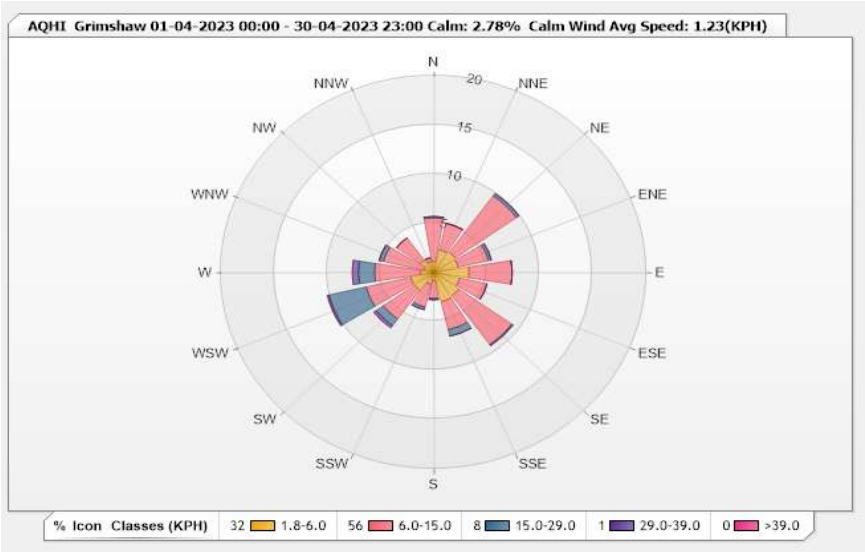


Station: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 04-2023

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

Calm (WS<1.8kph): 2.78% 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	1.11	4.44	0.14	0	0	5.69
NNE	2.36	2.78	0	0	0	5.14
NE	2.5	7.08	0.28	0	0	9.86
ENE	2.36	2.92	0.28	0	0	5.56
E	3.33	4.03	0	0	0	7.36
ESE	2.5	2.64	0	0	0	5.14
SE	2.92	6.11	0.14	0	0	9.17
SSE	3.06	2.92	0.69	0	0	6.67
S	0.83	1.81	0.14	0	0	2.78
SSW	1.25	2.36	0.28	0	0	3.89
SW	2.22	3.61	0.83	0.28	0	6.94
WSW	2.22	4.31	3.61	0.14	0	10.28
W	1.25	4.31	1.53	0.56	0	7.65
WNW	0.97	3.89	0.42	0	0	5.28
NW	1.53	2.78	0	0	0	4.31
NNW	1.11	0.42	0	0	0	1.53
Summary	31.52	56.41	8.34	0.98	0	97.25



Peace River Area Monitoring Program

AQHI - Grimshaw Station - April 2023

Summary of Hourly Averages

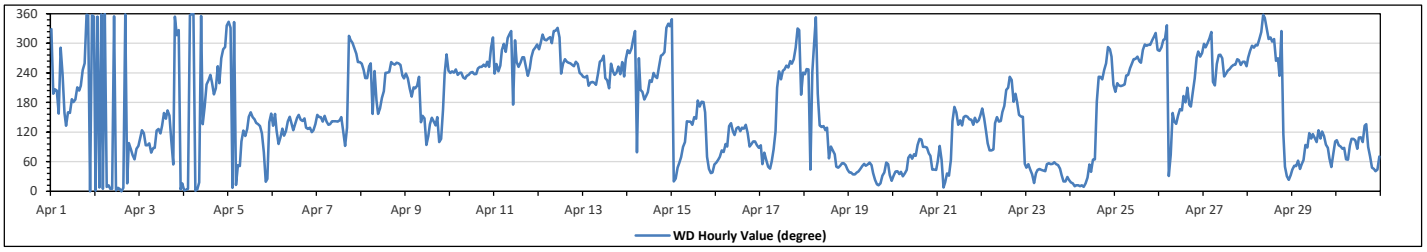
WIND DIRECTION (VWD) in sector

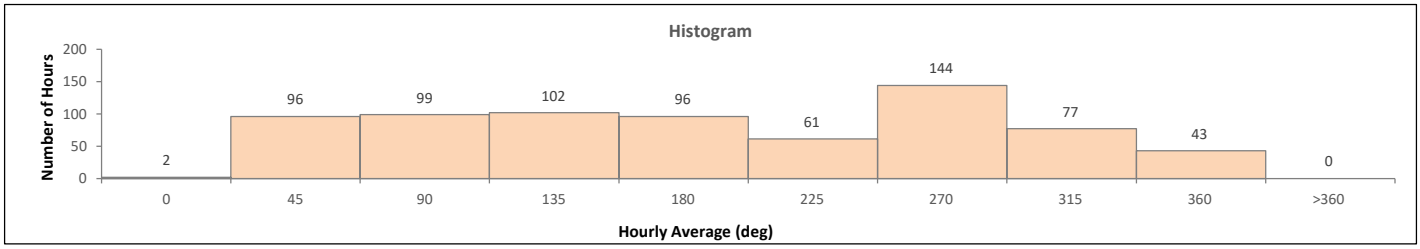
Monthly Average:	143 (SE)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Apr 1	NNW	SSW	SSW	SSW	SSE	WNW	SW	SSE	SE	SSE	SSE	S	S	S	SSW	SSW	SSW	WSW	WSW	N	N	N	N	N	214	SSW
Apr 2	N	N	N	N	N	N	N	NNE	N	N	N	N	N	N	N	N	N	NNE	E	E	ENE	ENE	E	E	21	NNE
Apr 3	ESE	ESE	ESE	E	E	E	ENE	E	E	ESE	SE	ESE	SE	SSE	SE	SSE	SSE	E	NE	N	NW	NW	N	NNE	99	E
Apr 4	N	N	N	N	N	N	N	N	NNE	N	SE	S	SW	SW	SW	SW	SSW	SSW	WSW	SW	W	WNW	WNW	NNW	300	WNW
Apr 5	NNW	NNW	N	NNW	NNE	NE	NE	E	ESE	ESE	SE	SSE	SSE	SSE	SE	SE	SE	SE	ESE	ENE	NNE	NNE	SE	SSE	97	E
Apr 6	SE	SSE	ESE	E	ESE	SE	ESE	ESE	SE	SSE	SE	ESE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	132	SE
Apr 7	SSE	SSE	SSE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	ESE	E	SE	NW	NW	WNW	WNW	W	W	W	157	SSE
Apr 8	WSW	WSW	SW	SW	WSW	WSW	SSE	WSW	S	SSE	SSE	S	SSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW	SW	SW	232	SW
Apr 9	WSW	SW	SSW	S	SSW	SSW	SSW	SW	SE	SSE	SE	E	ESE	SE	SSE	SE	SE	SSE	E	ESE	SSE	SW	W	WSW	175	S
Apr 10	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WNW	NW	247	WSW
Apr 11	WSW	WSW	WSW	WSW	WNW	WNW	W	NW	NW	NW	S	NW	W	WSW	W	W	W	WSW	SW	WSW	W	WNW	WNW	WNW	272	W
Apr 12	WNW	WNW	NW	NW	NW	NW	NW	WNW	NW	NW	NNW	NW	WSW	WSW	W	W	W	WSW	WSW	WSW	W	WSW	WSW	SW	283	W
Apr 13	SW	SW	SW	SSW	SW	SW	SW	SW	SW	W	W	W	SW	SW	SSW	WSW	WSW	SW	WSW	WSW	SW	W	SW	W	238	SW
Apr 14	WNW	W	WNW	NW	NW	ENE	W	SSW	SSW	S	SSW	SSW	SW	SW	WSW	SW	SW	WSW	W	W	W	NNW	NNW	NNW	260	WSW
Apr 15	NNW	NNE	NNE	NE	ENE	ENE	E	E	SE	SE	SE	SE	SSE	SE	S	S	S	S	SSE	ENE	NE	NE	NE	NE	100	E
Apr 16	ENE	ENE	ENE	E	E	E	E	SE	SE	ESE	ESE	SE	SE	ESE	SE	SE	SE	ESE	E	E	E	E	E	E	105	ESE
Apr 17	E	NE	ENE	ENE	NE	NE	ENE	E	ESE	SSW	WSW	SW	WSW	WSW	WSW	WSW	W	WSW	W	WNW	NNW	NW	SSW	WSW	263	W
Apr 18	SW	WSW	WSW	NE	WSW	WNW	N	SSW	SE	SE	SE	ESE	SE	ENE	E	E	ENE	NE	NE	NE	ENE	ENE	NE	NE	81	E
Apr 19	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	ENE	NE	NNE	NNE	39	NE
Apr 20	NNE	NE	NE	NE	NE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	ESE	ESE	E	E	E	ENE	ENE	NE	NE	NE	63	ENE
Apr 21	ENE	E	ENE	N	NNE	NE	NNE	ENE	SE	S	SSE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SSE	SE	SE	SSE	121	ESE
Apr 22	SSE	SE	ESE	E	E	E	E	SE	SSE	SE	SE	SSE	S	SSW	SSW	SW	SW	S	SSW	S	SSE	SSE	SSE	NE	153	SSE
Apr 23	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	NE	NE	ENE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	42	NE
Apr 24	NNE	NNE	N	NNE	NNE	N	NNE	N	NNE	NNE	NE	NE	ENE	ENE	S	SW	SW	SW	WSW	WSW	WNW	WNW	W	SW	347	NNW
Apr 25	SSW	SW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	WNW	263	W
Apr 26	WNW	WNW	NW	NW	NNW	NNE	ENE	SSE	SE	SE	SSE	SSE	SSE	S	S	SSW	S	S	SSW	SW	W	WNW	W	W	216	SW
Apr 27	WNW	WNW	WNW	NW	NW	SW	SSW	WSW	W	W	W	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	W	WSW	264	W
Apr 28	W	WNW	WNW	WNW	WNW	WNW	NW	NW	N	N	NNW	NW	NW	WNW	NW	W	W	SW	NW	ESE	NE	NNE	NNE	NNE	317	NW
Apr 29	NE	NE	NE	ENE	NE	NE	ENE	E	E	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	E	E	ENE	NE	ENE	E	85	E
Apr 30	ESE	E	E	E	E	ENE	ENE	E	ESE	ESE	ESE	E	ESE	ESE	E	SE	SE	E	ENE	NE	NE	NE	NE	ENE	87	E

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 - April 2023

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	34.6	kph	on Apr 25 at hr 9	Hours in Service:	720
Maximum Daily Value:	21.5	kph	on Apr 10	Hours of Data:	720
Minimum Hourly Value:	0.0	kph	on Apr 18 at hr 3	Hours of Missing Data:	0
Minimum Daily Value:	3.5	kph	on Apr 3	Hours of Calibration:	0
Monthly Average:	8.7	kph		Operational Uptime:	100.0

WIND DIRECTION

Monthly Average: 143 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			
Apr 1	0.4	5.8	7.5	7.2	4.7	1.5	2.3	0.8	1.4	3.1	3.9	4.7	6.4	5.6	4.5	5.9	6.4	6.4	5.5	10.1	13.5	13.2	13.2	15.4	0.4	15.4	6.2
	NNW	SSW	SSW	SSW	SSE	WNW	SW	SSE	SE	SSE	SSE	S	S	S	SSW	SSW	SSW	WSW	WSW	N	N	N	N	N			
Apr 2	10.8	10.2	11.4	13.3	11.3	12.6	10.3	10.7	13.6	12.6	13.7	13.7	12.9	11.7	8.3	6.7	4.0	4.9	4.0	5.8	5.2	4.9	3.2	3.0	3.0	13.7	9.1
	N	N	N	N	N	N	N	NNE	N	N	N	N	N	N	N	N	N	NNE	E	E	ENE	ENE	E	E			
Apr 3	2.1	2.3	1.4	1.7	2.5	2.4	4.6	3.7	5.2	4.1	3.9	3.1	2.9	3.5	2.8	3.3	3.8	3.2	5.0	2.0	4.2	5.1	5.7	5.2	1.4	5.7	**3.5**
	ESE	ESE	ESE	E	E	E	ENE	E	E	ESE	SE	ESE	SE	SSE	SE	SSE	SSE	E	NE	N	NW	NW	N	NNE			
Apr 4	6.4	8.4	7.4	8.3	9.3	9.4	9.3	7.7	5.0	5.8	1.5	3.4	4.6	7.2	7.9	13.0	13.1	10.1	6.0	4.6	4.1	5.6	4.7	0.7	0.7	13.1	6.8
	N	N	N	N	N	N	N	N	NNE	N	SE	S	SW	SW	SW	SW	SSW	SSW	WSW	SW	W	WNW	WNW	NNW			
Apr 5	3.8	5.2	2.0	3.6	3.6	2.2	3.1	3.2	2.7	1.9	2.1	4.5	4.3	5.8	6.1	7.3	6.6	7.1	3.2	4.3	2.1	2.4	3.4	5.0	1.9	7.3	4.0
	NNW	NNW	N	NNW	NNE	NE	NE	E	ESE	ESE	SE	SSE	SSE	SSE	SE	SE	SE	SE	ESE	ENE	NNE	NNE	SE	SSE			
Apr 6	2.3	1.4	3.0	2.9	2.7	2.7	2.6	3.7	6.1	5.3	5.1	3.4	9.5	8.1	10.4	12.8	11.4	7.4	6.9	5.5	10.9	7.8	7.8	8.3	1.4	12.8	6.2
	SE	SSE	ESE	E	ESE	SE	ESE	ESE	SE	SSE	SE	ESE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE			
Apr 7	10.5	14.1	10.0	7.7	8.1	5.9	5.7	6.3	7.9	7.8	9.2	7.9	5.7	3.9	3.6	4.8	2.9	5.4	11.0	13.3	8.6	7.2	9.8	10.6	2.9	14.1	7.8
	SSE	SSE	SSE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	ESE	E	SE	NW	NW	WNW	WNW	W	W	W			
Apr 8	9.9	5.9	5.2	4.4	5.4	2.8	1.6	1.9	3.0	5.3	4.4	7.7	7.5	8.8	10.6	10.8	9.2	7.6	11.0	10.2	9.5	8.2	10.0	12.8	1.6	12.8	7.2
	WSW	WSW	SW	SW	WSW	WSW	SSE	WSW	S	SSE	SSE	S	SSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW	SW	SW			
Apr 9	13.8	8.8	7.0	6.0	5.8	7.0	5.8	4.5	4.5	4.4	5.2	5.0	5.5	11.2	10.6	10.2	6.9	3.9	3.5	7.0	10.1	14.0	24.9	21.6	3.5	24.9	8.6
	WSW	SW	SSW	S	SSW	SSW	SSW	SW	SE	SSE	SE	E	ESE	SE	SSE	SE	SE	SSE	E	ESE	SSE	SW	W	WSW			
Apr 10	24.1	27.2	23.5	21.2	24.1	24.9	24.4	25.6	26.8	31.1	29.7	29.0	26.6	28.0	27.6	27.6	26.2	21.4	16.8	10.9	7.4	3.9	2.3	5.0	2.3	31.1	**21.5**
	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WNW	NW			
Apr 11	2.8	4.5	1.4	3.5	5.0	6.3	3.3	8.9	7.7	4.1	4.0	4.6	9.1	11.9	13.3	14.1	11.5	10.8	9.9	9.6	10.5	9.1	9.3	9.2	1.4	14.1	7.7
	WSW	WSW	WSW	WSW	WNW	WNW	W	NW	NW	NW	S	NW	W	WSW	W	W	W	WSW	SW	WSW	W	WNW	WNW	WNW			
Apr 12	9.1	7.8	9.1	7.5	8.5	9.6	9.0	8.4	7.6	6.6	7.8	4.8	8.1	10.5	19.7	18.9	17.8	14.5	10.9	7.7	7.5	5.9	8.1	8.2	4.8	19.7	9.7
	WNW	WNW	NW	NW	NW	NW	NW	WNW	NW	NW	NNW	NW	WSW	WSW	W	W	W	WSW	WSW	WSW	W	WSW	WSW	SW			
Apr 13	9.8	5.4	5.5	5.3	7.0	5.0	7.2	5.8	10.2	14.5	13.4	9.8	12.7	12.9	17.4	11.6	12.0	10.3	8.7	4.4	5.4	5.6	8.5	7.3	4.4	17.4	9.0
	SW	SW	SW	SSW	SW	SW	SW	SW	SW	W	W	W	SW	SW	SSW	WSW	WSW	SW	WSW	WSW	SW	W	SW	W			
Apr 14	9.2	8.6	7.3	7.2	5.5	0.9	2.1	4.1	6.8	8.1	12.2	13.2	10.6	9.0	8.6	9.9	6.3	9.0	6.9	3.6	2.3	1.5	3.6	2.5	0.9	13.2	6.6
	WNW	W	WNW	NW	NW	ENE	W	SSW	SSW	S	SSW	SSW	SW	SW	WSW	SW	SW	WSW	W	W	W	NNW	NNW	NNW			
Apr 15	3.9	3.5	2.7	2.0	3.3	4.5	4.0	3.1	9.7	10.5	11.1	13.6	15.1	15.9	11.8	7.1	9.7	9.5	5.8	3.0	4.5	5.2	5.6	7.1	2.0	15.9	7.2
	NNW	NNE	NNE	NE	ENE	ENE	E	E	SE	SE	SE	SE	SSE	SE	S	S	S	S	SSE	ENE	NE	NE	NE	NE			
Apr 16	4.9	4.8	5.2	5.6	5.7	4.2	3.2	4.7	5.4	4.8	7.0	7.7	8.6	8.2	9.2	10.7	18.0	8.5	10.9	7.2	6.5	6.2	7.9	10.3	3.2	18.0	7.3
	ENE	ENE	ENE	E	E	E	E	SE	SE	ESE	ESE	SE	SE	ESE	SE	SE	SE	ESE	E	E	E	E	E	E			
Apr 17	9.3	7.9	9.3	9.3	6.1	7.6	9.4	10.2	4.6	6.5	9.6	14.1	16.2	21.3	23.7	18.8	11.6	15.1	11.9	6.2	2.2	1.6	2.4	3.5	1.6	23.7	9.9
	E	NE	ENE	ENE	NE	NE	ENE	E	ESE	SSW	WSW	SW	WSW	WSW	WSW	WSW	W	WSW	W	WNW	NNW	NW	SSW	WSW			
Apr 18	3.5	4.2	1.7	**0.0**	2.9	2.4	3.0	1.0	1.7	3.1	4.4	4.1	2.0	4.3	7.5	8.3	7.8	8.4	8.9	10.5	12.3	16.2	15.6	13.2	**0.0**	16.2	6.1
	SW	WSW	WSW	NE	WSW	WNW	N	SSW	SE	SE	SE	ESE	SE	ENE	E	E	ENE	NE	NE	NE	ENE	ENE	NE	NE			
Apr 19	10.6	8.2	10.5	11.8	13.9	13.1	14.4	12.9	14.0	13.6	13.6	13.2	13.3	13.0	13.3	12.0	13.3	13.3	12.5	11.3	11.8	9.1	5.1	4.2	4.2	14.4	11.8
	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	ENE	NE	NNE	NNE			
Apr 20	6.6	6.6	7.9	6.5	7.2	7.2	7.4	9.7	9.4	9.8	9.3	8.9	6.9	8.6	8.0	6.3	9.7	11.8	13.2	12.8	10.3	6.0	6.8	7.8	6.0	13.2	8.5
	NNE	NE	NE	NE	NE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	ESE	ESE	E	E	E	ENE	ENE	NE	NE	NE			
Apr 21	8.1	5.9	2.8	5.3	5.0	5.1	3.5	2.9	2.8	6.2	4.6	6.7	9.7	10.4	15.8	13.8	15.0	12.5	11.7	8.8	8.7	7.8	9.9	12.2	2.8	15.8	8.1
	ENE	E	ENE	N	NNE	NE	NNE	ENE	SE	S	SSE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SSE	SE	SE	SSE			
Apr 22	9.8	6.8	3.8	4.5	6.3	7.0	5.1	6.1	10.0	8.1	8.4	8.8	7.0	7.0	7.9	7.8	4.8	9.5	5.9	9.8	11.0	6.6	3.6	2.1	2.1	11.0	7.0
	SSE	SE	ESE	E	E	E	E	SE	SSE	SE	SE	SSE	S	SSW	SSW	SW	SW	S	SSW	S	SSE	SSE	SSE	NE			
Apr 23	5.1	6.7	6.1	5.4	4.9	5.5	6.5	9.3	9.2	9.5	9.6	10.3	12.8	12.5	14.3	15.5	16.6	14.6	12.7	10.3	9.2	9.9	10.3	10.1	4.9	16.6	9.9
	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	NE	NE	ENE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE			
Apr 24	11.1	10.4	11.5	11.7	11.3	9.9	11.4	10.9	11.9	9.4	5.0	6.9	7.8	5.5	5.2	5.6	10.1	10.3	9.6	9.1	6.9	6.8	4.4	5.5	4.4	11.9	8.7
	NNE	NNE	N	NNE	NNE	N	NNE	N	NNE	NNE	NE	NE	ENE	ENE	S	SW	SW	SW	WSW	WSW	WNW	WNW	W	SW			
Apr 25	7.8	7.6	8.0	6.0	6.0	7.1	18.0	23.3	29.7	**34.6**	30.0	30.2	26.6	24.9	31.1	25.8	24.7	18.3	14.6	14.5	13.9	8.4	5.5	3.7	3.7	**34.6**	17.5
	SSW	SW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	WNW			
Apr 26	7.5	8.2	7.8	6.4	4.7	2.6	1.1	4.4	7.0	12.2	15.0	11.7	13.3	13.4	15.2	15.7	12.3	9.7	7.4	6.7	8.6	11.7	12.3	11.4	1.1	15.7	9.4
	WNW	WNW	NW	NW	NNW	NNE	ENE	SSE	SE	SE	SSE	SSE	SSE	S	S	SSW	S	S	SSW	SW	W	WNW	W	W			
Apr 27	11.2	6.5	7.0	6.4	4.5	2.3	4.7	5.8	13.5	16.2	12.8	16.2	17.7	19.3	18.7	22.0	23.0	23.5	25.6	24.4	24.5	21.2	14.9	10.7	2.3	25.6	14.7
	WNW	WNW	WNW	NW	NW	SW	SSW	WSW	W	W	W	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	W	WSW			
Apr 28	12.4	13.5	10.4	10.5	10.6	10.1	8.3	8.3	8.7	9.3	6.3	7.8	7.5	7.5	7.2	4.2	3.2	2.7	3.3	1.3	5.6	3.7	4.8	5.0	1.3	13.5	7.2
	W	WNW	WNW	WNW	WNW	WNW	NW	NW	N	N	NNW	NW	NW	WNW	NW	W	W	SW	NW	ESE	NE	NNE	NNE	NNE			
Apr 29	6.1	7.0	6.1	6.2	6.1	6.1	6.5	6.7	6.0	7.9	8.7	9.6	10.6	9.3	10.4	9.9	9.4	9.3	9.2	10.2	9.7	9.3	8.4	5.0	5.0	10.6	8.1
	NE	NE	NE	ENE	NE	NE	ENE	E	E	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	E	E	ENE	NE	ENE	E			
Apr 30	4.6	7.6	8.7	8.4	7.4	3.8	5.4	6.3	6.5	6.6	7.8	9.0	8.8	8.7	8.5	9.3	8.0	6.1	5.2	5.3	5.3	4.6	5.3	3.7	3.7	9.3	6.7
	ESE	E	E	E	E	ENE	ENE	E	ESE	ESE	ESE	E	ESE	ESE	E	SE	SE	E	ENE	NE	NE	NE	NE	ENE			

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, 146 of 146, ends the April 2023 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

APRIL 2023

Ambient Air Monitoring Calibration Report

- 842b STATION-

CAL-PRAMP-202304-01561

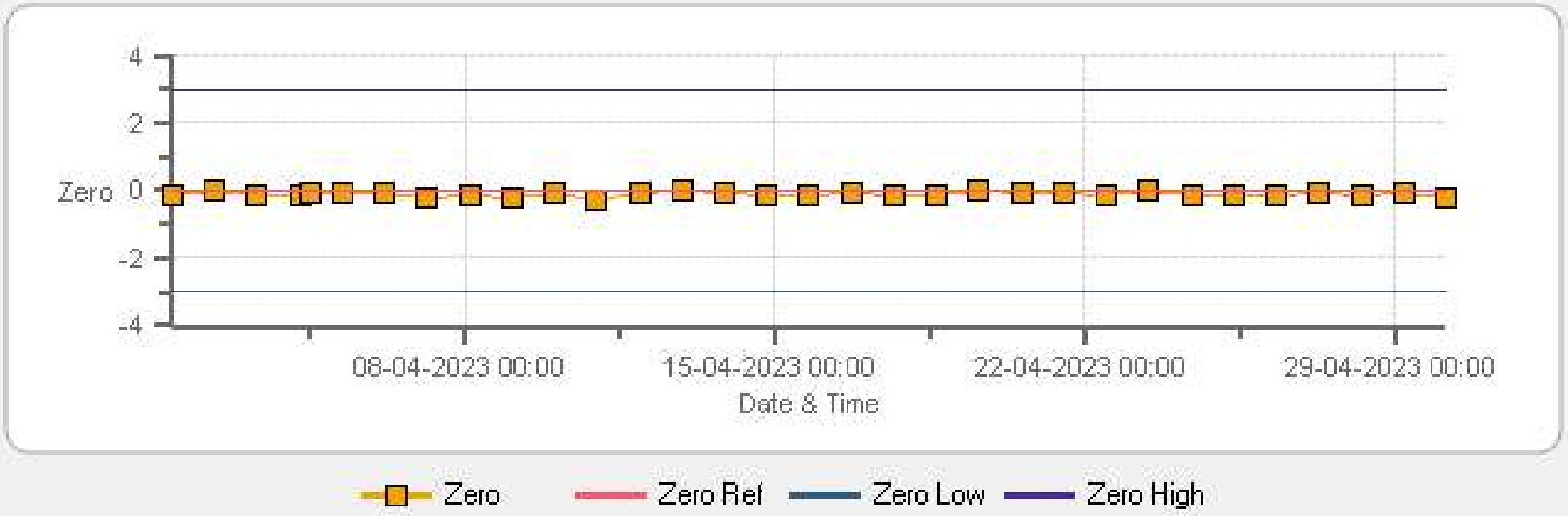
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

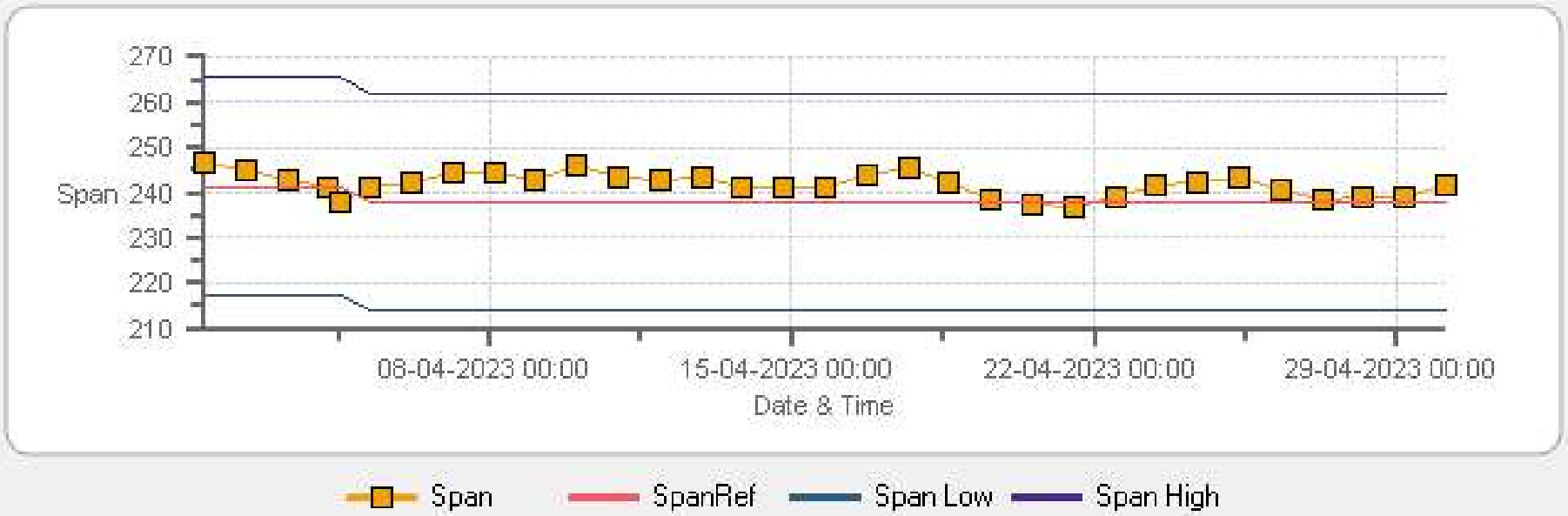
May 25, 2023

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

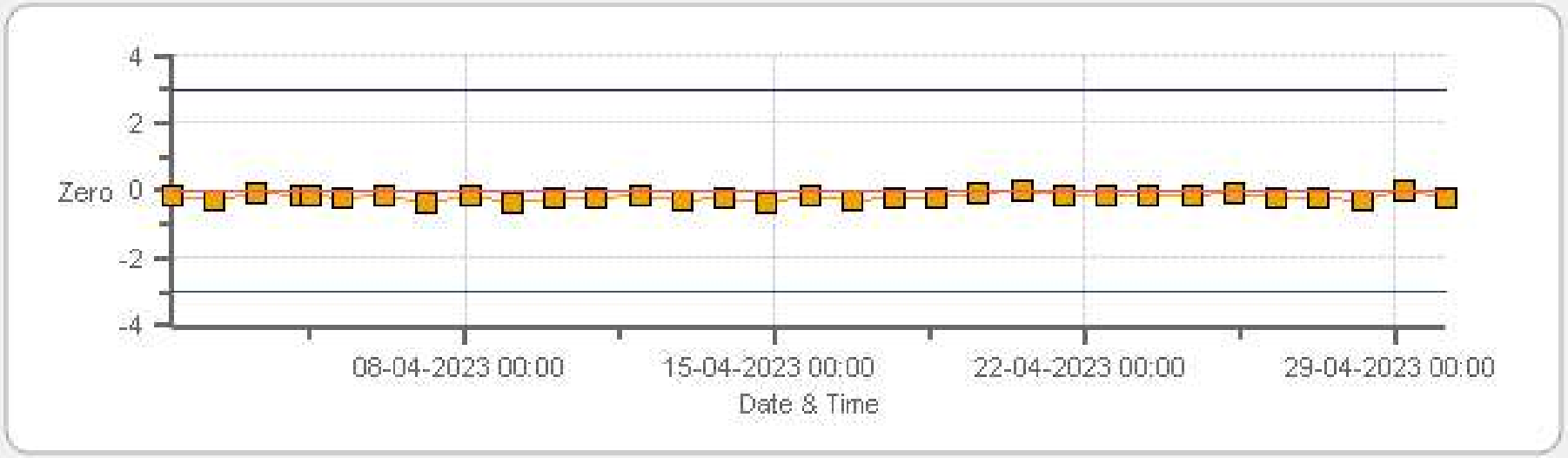
SO2[ppb] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Zero



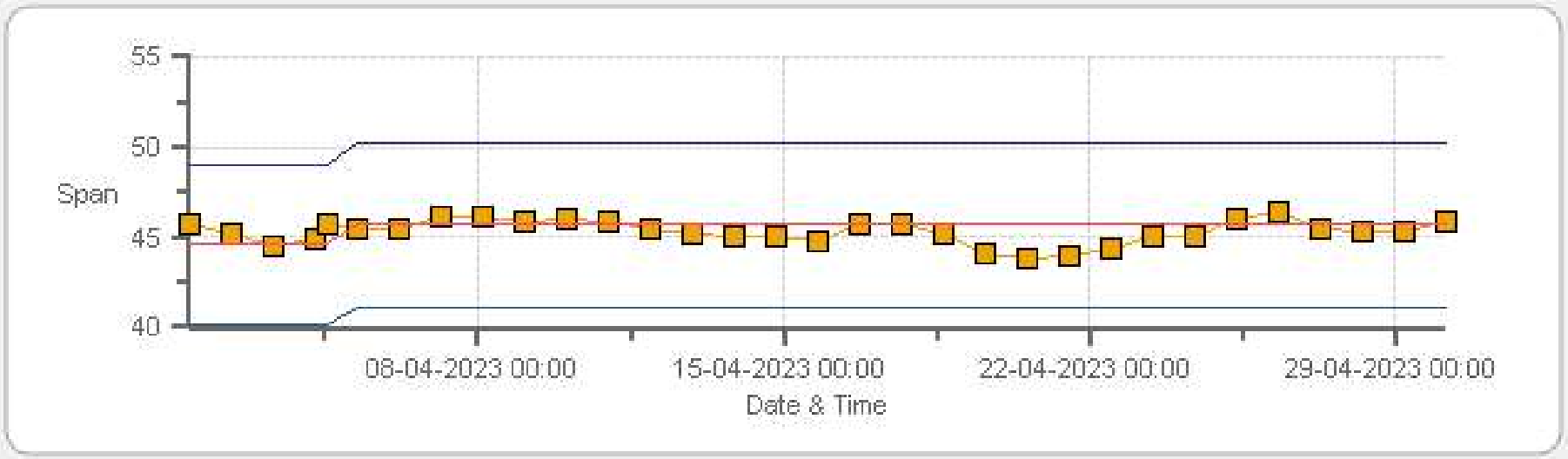
SO2[ppb] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Span



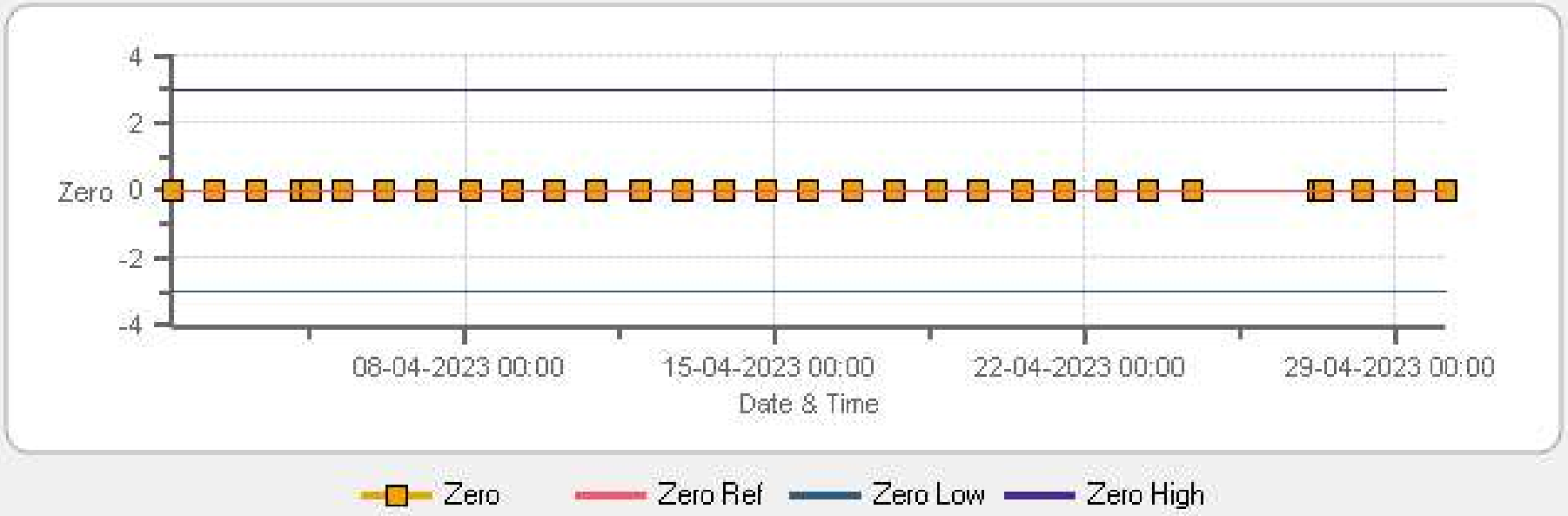
TRS[ppb] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Zero



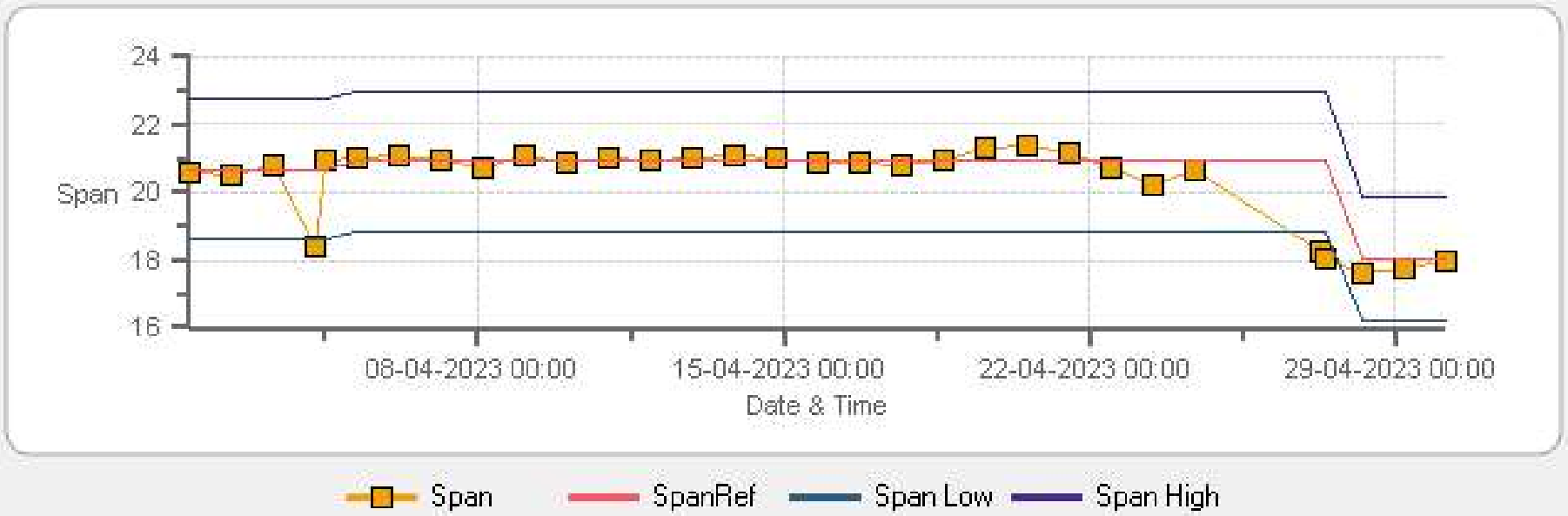
TRS[ppb] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Span



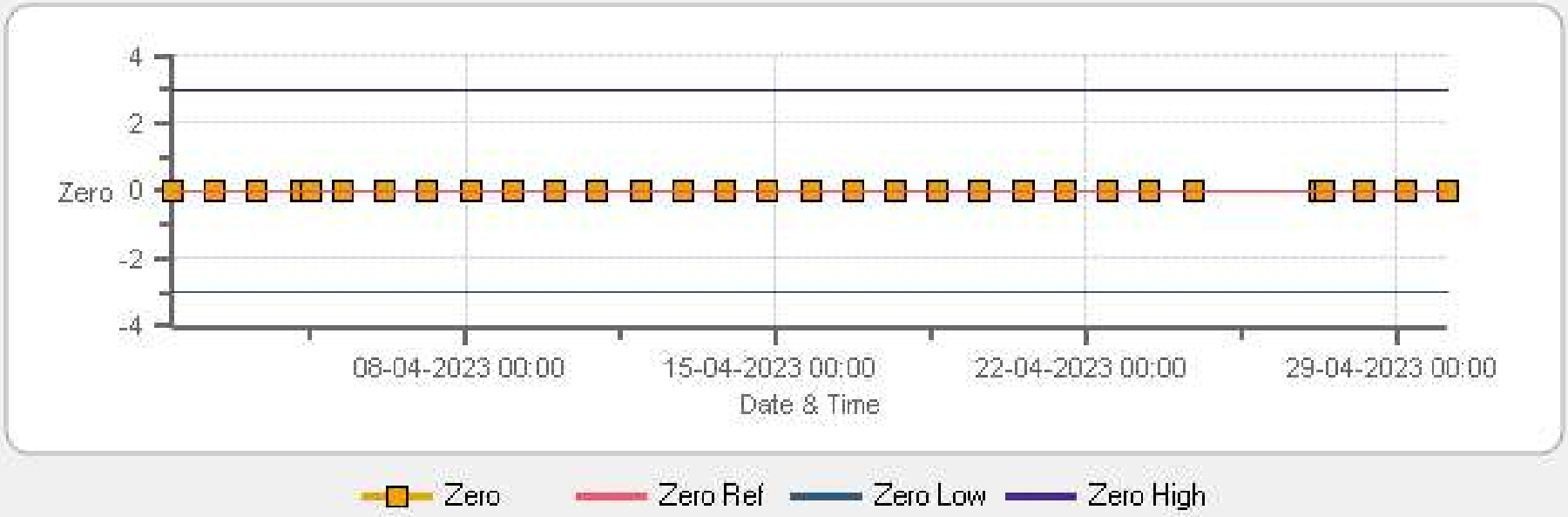
THC55[ppm] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Zero



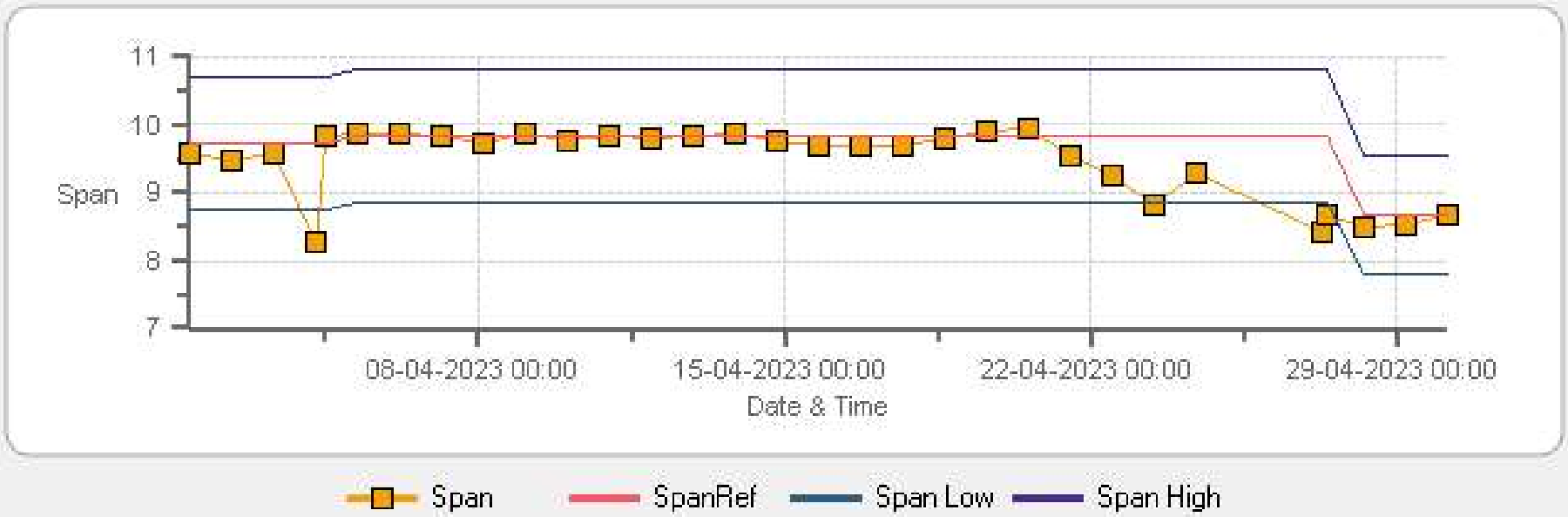
THC55[ppm] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Span



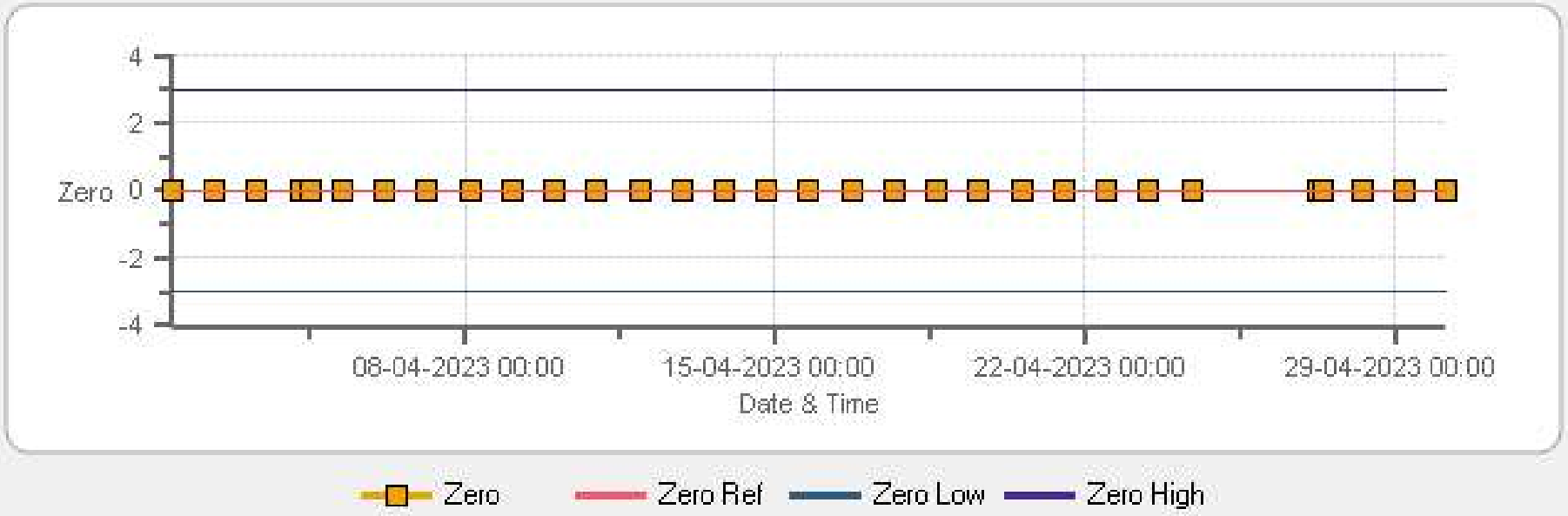
CH4[ppm] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Zero



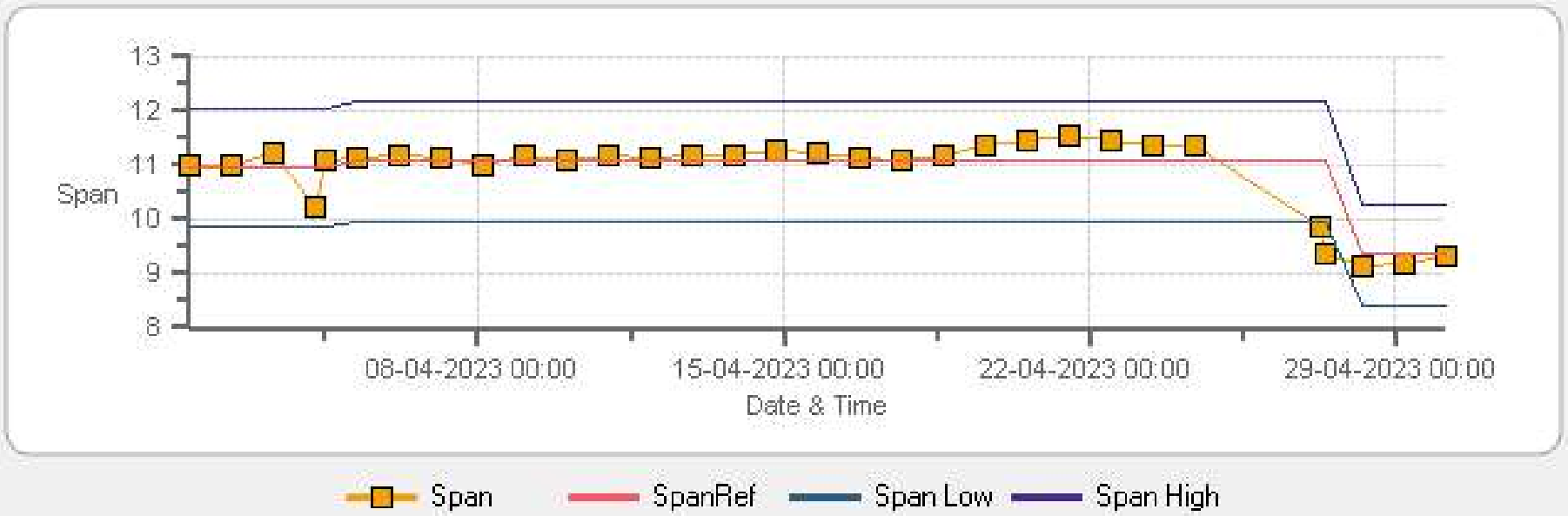
CH4[ppm] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 842-B Monthly: 04-2023 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	04-Apr-2023	PREVIOUS CALIBRATION DATE:	21-Mar-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.0
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	08:19
PERFORMED BY:	Chris Wesson	END TIME (MST):	12:57

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	424
INITIAL		FINAL	
BKG/OFFSET	8.8	BKG/OFFSET	8.8
COEF/SLOPE	1.12	COEF/SLOPE	1.114
Expected (reference) Value	241.3	Expected (reference) Value	237.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	27-Jan-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.2	0		
3938	60.60	3999	380.36	379	380.2	1.003	1.000
3970	28.70	3999	180.14	n/a	182.1	n/a	0.989
3986	14.40	4000	90.36	n/a	90.1	n/a	1.003

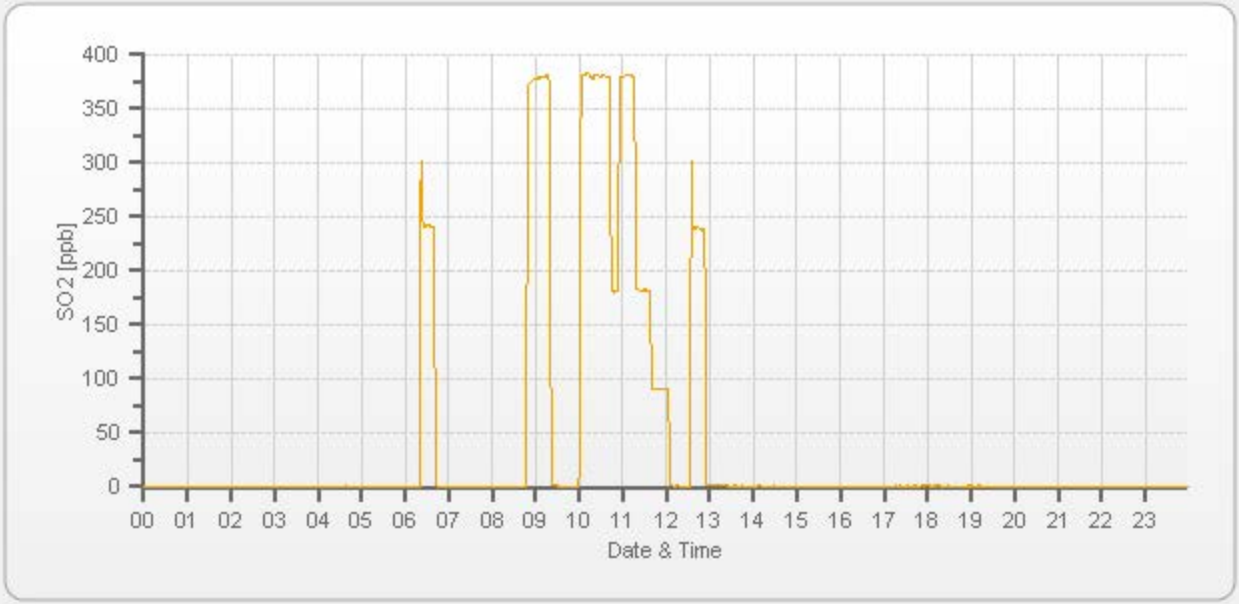
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed.
Returned to and repeated high point due to problems with parallel TRS calibration

SO2[ppb] Station: PRAMP 842-B Daily: 04-04-2023 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	04-Apr-2023	PREVIOUS CALIBRATION DATE:	21-Mar-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.996
CLIENT:	PRAMP	TEMPERATURE (°C):	22.0
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Routine	START TIME (MST):	08:18
PERFORMED BY:	Chris Wesson	END TIME (MST):	12:57

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	373
INITIAL		FINAL	
BKG/OFFSET	13.4	BKG/OFFSET	13.5
COEF/SLOPE	0.878	COEF/SLOPE	0.888
Expected (reference) Value	44.6	Expected (reference) Value	45.68

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	900	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.04	0		
3966	33.20	3999	78.12	76.1	78.33	1.027	0.997
3983	16.20	3999	38.12	n/a	37.37	n/a	1.020
3992	8.10	4000	19.06	n/a	18.19	n/a	1.048

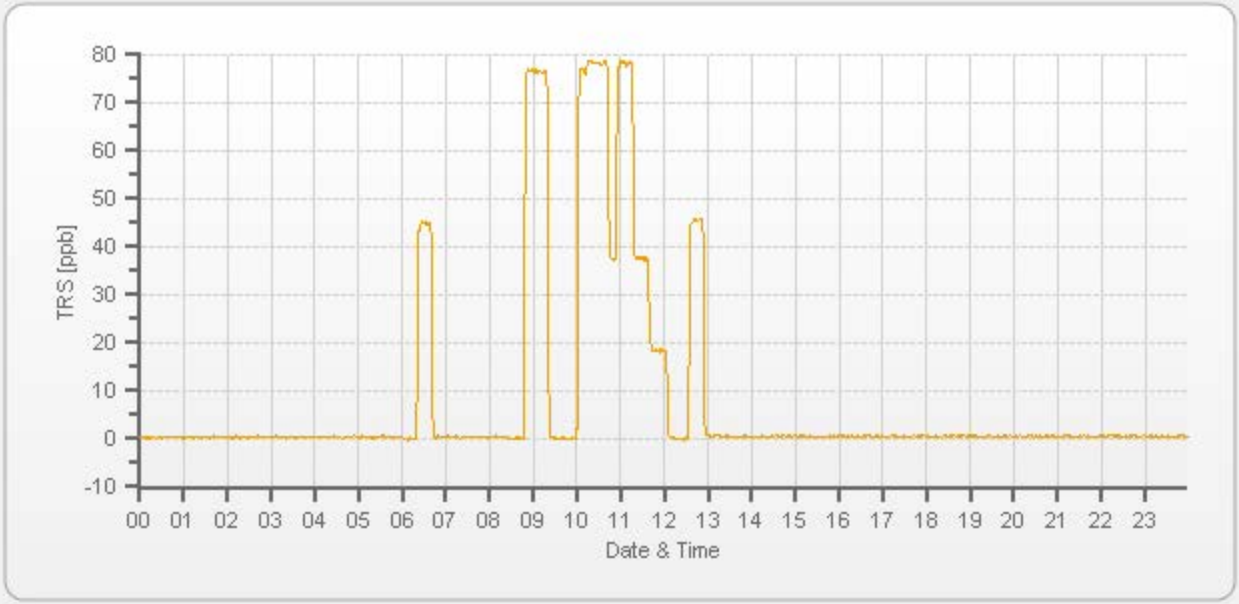
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.006	-0.5%

COMMENTS:

TRS Converter CDNOVA CDN #583
1st attempt: low at mid-point. Repeated High adjust

TRS[ppb] Station: PRAMP 842-B Daily: 04-04-2023 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	04-Apr-2023	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Install/Post-Repair	START TIME (MST):	09:19
PERFORMED BY:	Chris Wesson	END TIME (MST):	12:22

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12208316589	1158
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	700		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	n/a	n/a	n/a		9.85	11.07	20.92

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
3100		3100	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00						
3024	74.60	3099	14.64	13.44	28.07	n/a	n/a	n/a	14.63	13.46	28.09	n/a	n/a	n/a	1.000	0.998	0.999
3062	37.30	3099	7.32	6.72	14.04	n/a	n/a	n/a	7.32	6.82	14.14	n/a	n/a	n/a	1.000	0.985	0.993
3080	18.60	3099	3.65	3.35	7.00	n/a	n/a	n/a	3.65	3.46	7.12	n/a	n/a	n/a	1.000	0.968	0.983

LINEAR REGRESSION ANALYSIS:

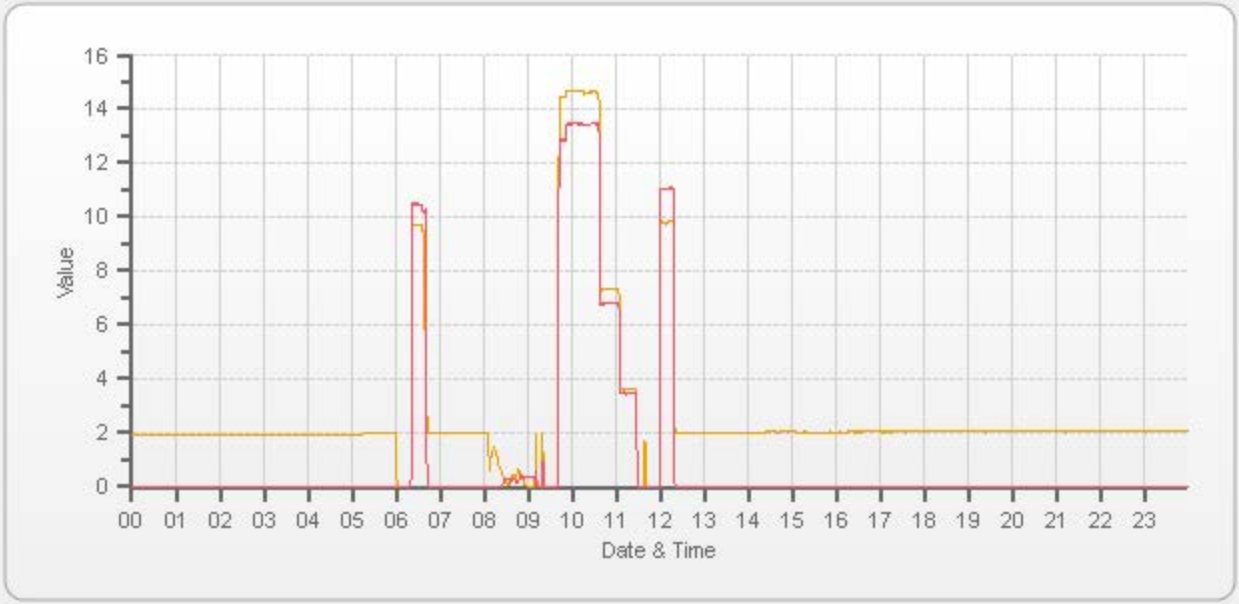
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.0%
NMHC	1.000	1.000	0.3%
THC	1.000	1.000	0.2%

Comments:

Sample filter changed.
Post-repair following maintenance
H2 = AMA HG300 #190567058

Use Zero Chrom? **No**

Station: PRAMP 842-B Daily: 04-04-2023 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	27-Apr-2023	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5
LOCATION:	842b	BAROMETRIC (mBar):	944
PURPOSE	Install/Post-Repair	START TIME (MST):	06:52
PERFORMED BY:	Chris Wesson	END TIME (MST):	09:31

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1314057759	1281
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	500		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	n/a	n/a	n/a		8.67	9.35	18.02

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
3250		3250	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00						
3171	78.00	3249	14.60	13.40	28.00	n/a	n/a	n/a	14.63	13.38	28.01	n/a	n/a	n/a	0.998	1.002	1.000
3210	39.00	3249	7.30	6.70	14.00	n/a	n/a	n/a	7.30	6.68	13.99	n/a	n/a	n/a	1.000	1.003	1.001
3231	19.50	3250	3.65	3.35	7.00	n/a	n/a	n/a	3.63	3.35	6.98	n/a	n/a	n/a	1.005	1.000	1.003

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.003	-0.1%
NMHC	1.000	0.998	0.0%
THC	1.000	1.001	0.0%

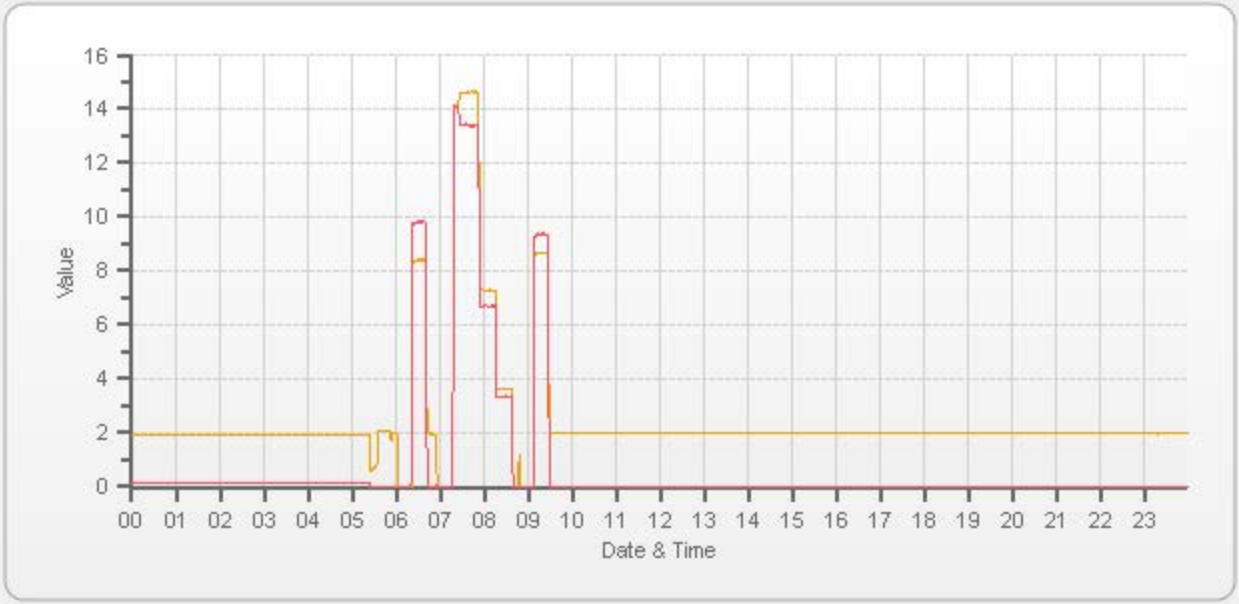
Comments:

H2 = AMA HG300 #190567058

BV analyzer

Use Zero Chrom? **No**

Station: PRAMP 842-B Daily: 27-04-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 4, 2023
Technician:	Chris Wesson
Station:	PRAMP 842b

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

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	March 21, 2023	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Tested 11:50 - 11:55
Is the screen on the housing? (screen should be on between July and September	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	March 21, 2023
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 11745843 expires June 14, 2023
Reference Temperature (^{o}C):	0.8
Station - Ambient Temperature (^{o}C):	1.2
Temperature Difference (^{o}C):	-0.4

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 21, 2023	
Reference Barometer ID:	DeltaCal DC1 #206578, expires Sept 20, 2023	
Reference Pressure - Units/Reading:	millibar	945.3
Station Pressure - Units/Reading:	millibar	943.3
Pressure Tolerance +/- 15% of error:	804 - 1087	0.21%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 21, 2023	
Reference Hygrometer ID:	F.S. 11745843 expires June 14, 2023	
Reference Hygrometer % RH- Reading:	58.50	
Station Hygrometer % RH- Reading:	62.70	
RH Tolerance +/- 15% of difference:	49.73 - 67.28	-7.2%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 21, 2023	Previous check date:	March 21, 2023
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	NW
Wind speed on Data Logger (kph):	12.4	Wind Direction on Data Logger:	NW
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

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

Wind Sensor Information

Sensor ID Data:		**Sensor Outputs:**	
Sensor Make:	RM Young	**Velocity Voltage Output Range:**	n/a
Sensor Model:	05305AQ	**Velocity Unit Output Range:**	0-200
Serial #:	174802	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	July 4, 2022	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

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

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

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

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	355	1.0	0.0	0.5
30	330	29	334	1.0	-4.0	2.5
60	300	58	305	2.0	-5.0	3.5
90	270	88	275	2.0	-5.0	3.5
120	240	119	244	1.0	-4.0	2.5
150	210	149	212	1.0	-2.0	1.5
180	180	180	180	0.0	0.0	0.0
210	150	211	150	-1.0	0.0	0.5
240	120	243	119	-3.0	1.0	2.0
270	90	275	88	-5.0	2.0	3.5
300	60	305	59	-5.0	1.0	3.0
330	30	333	30	-3.0	0.0	1.5
355	0	355	1	0.0	1.0	0.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.9**

Comments:

Physical inspection completed. No issues.

Peace River Area Monitoring Program

APRIL 2023

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202304-01562

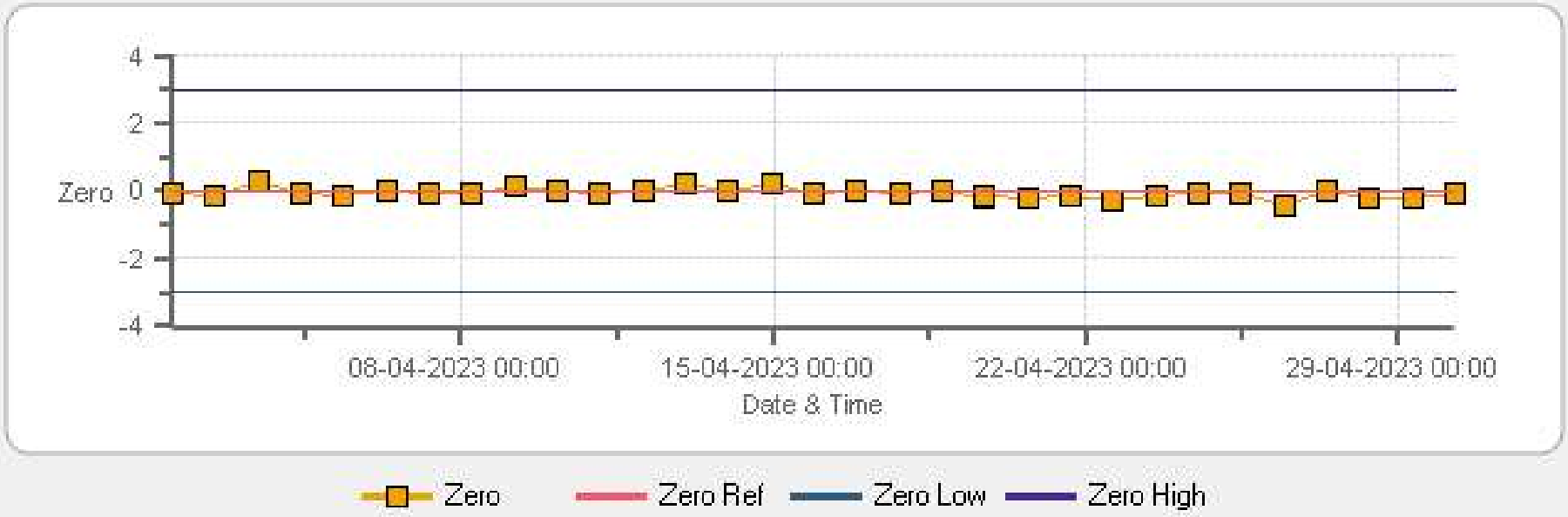
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

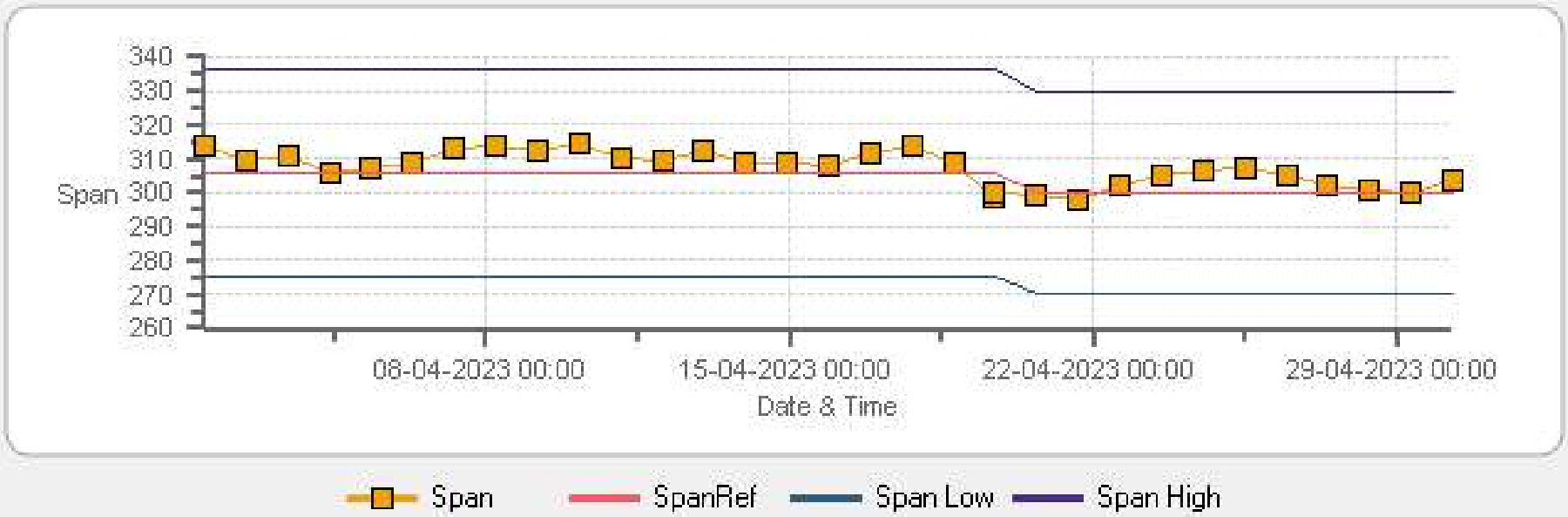
May 25, 2023

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

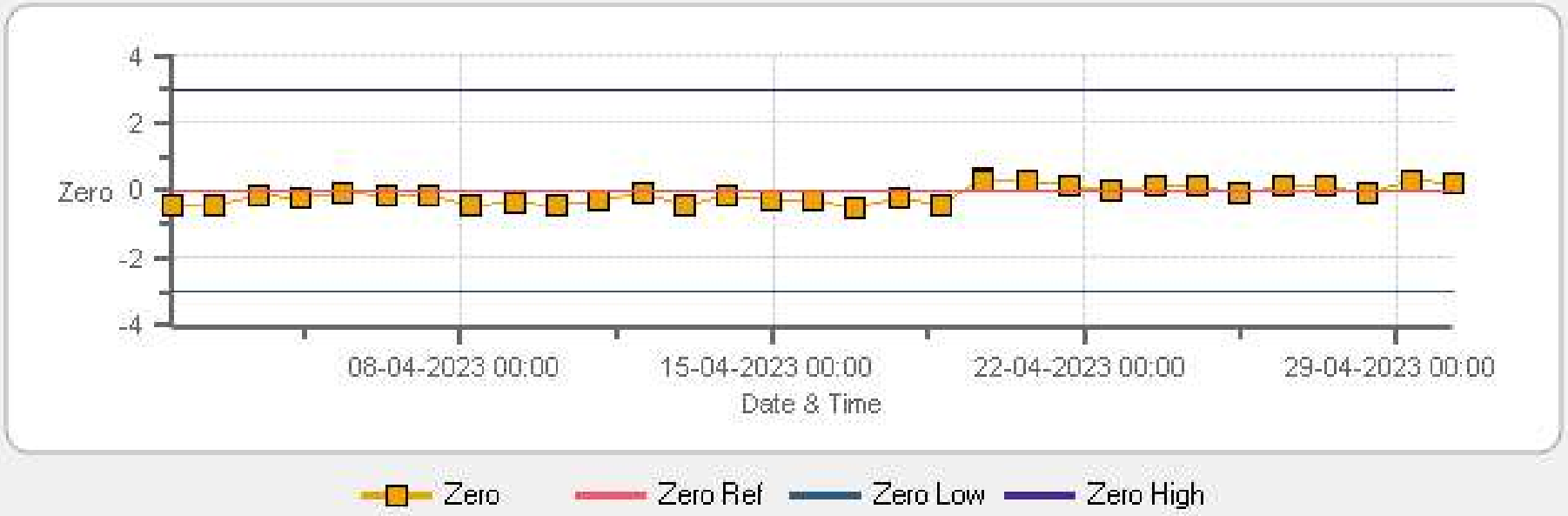
SO2[ppb] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Zero



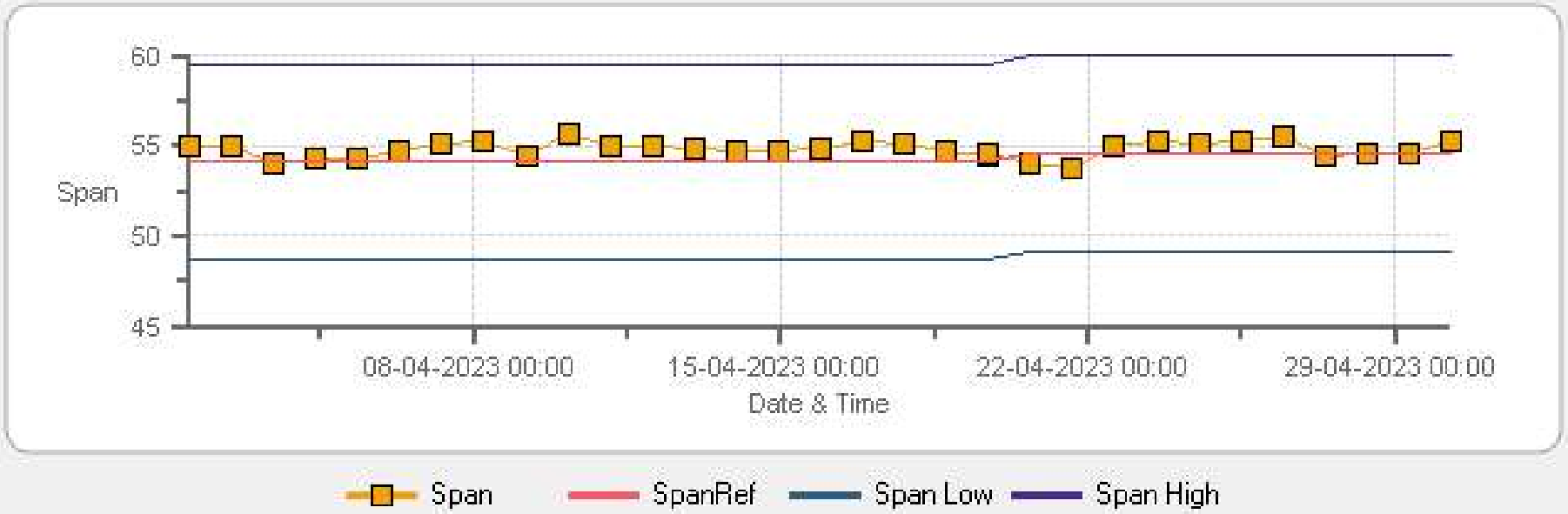
SO2[ppb] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Span



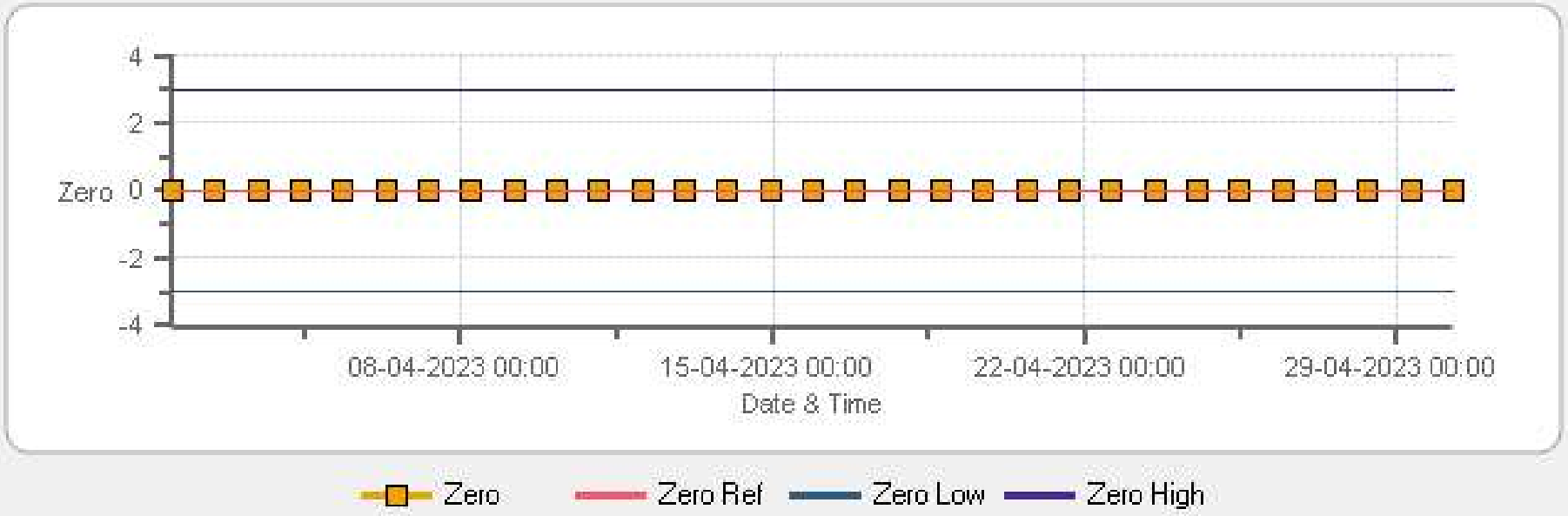
TRS[ppb] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Zero



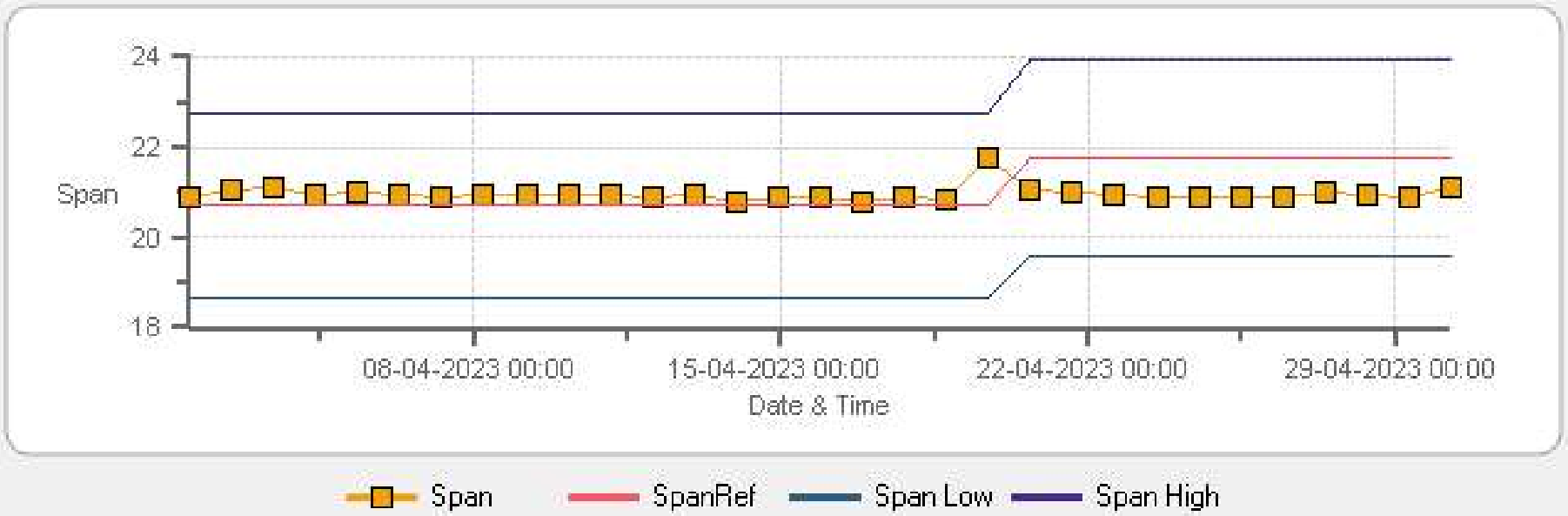
TRS[ppb] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Span



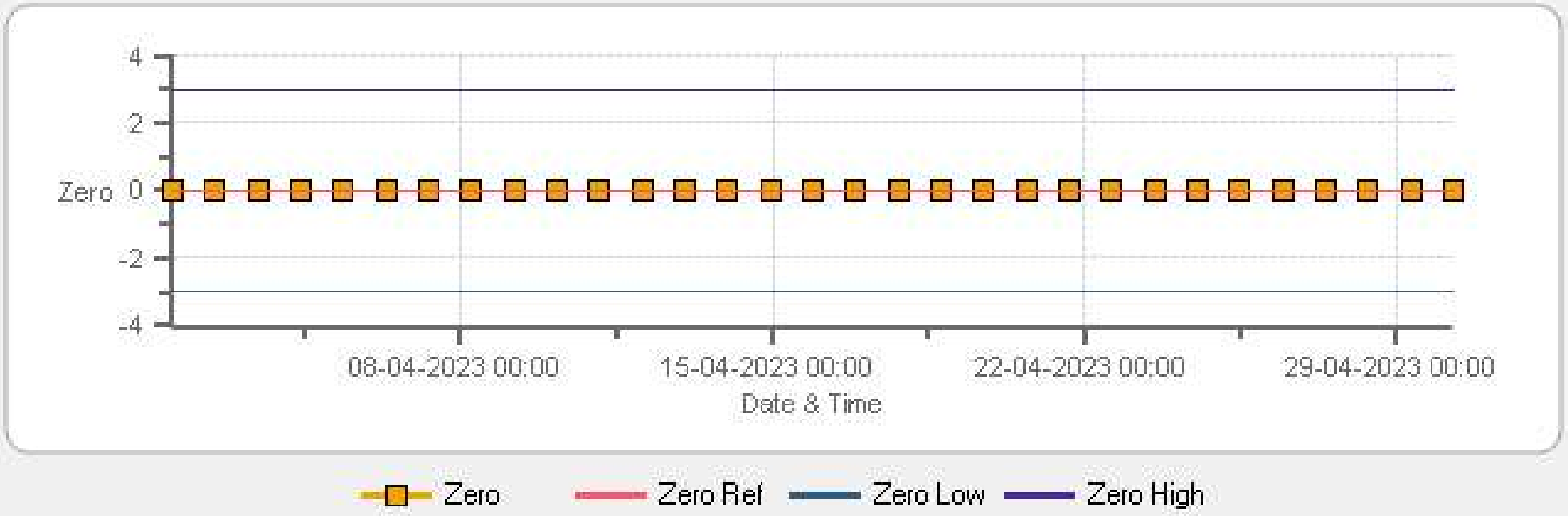
THC55[ppm] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Zero



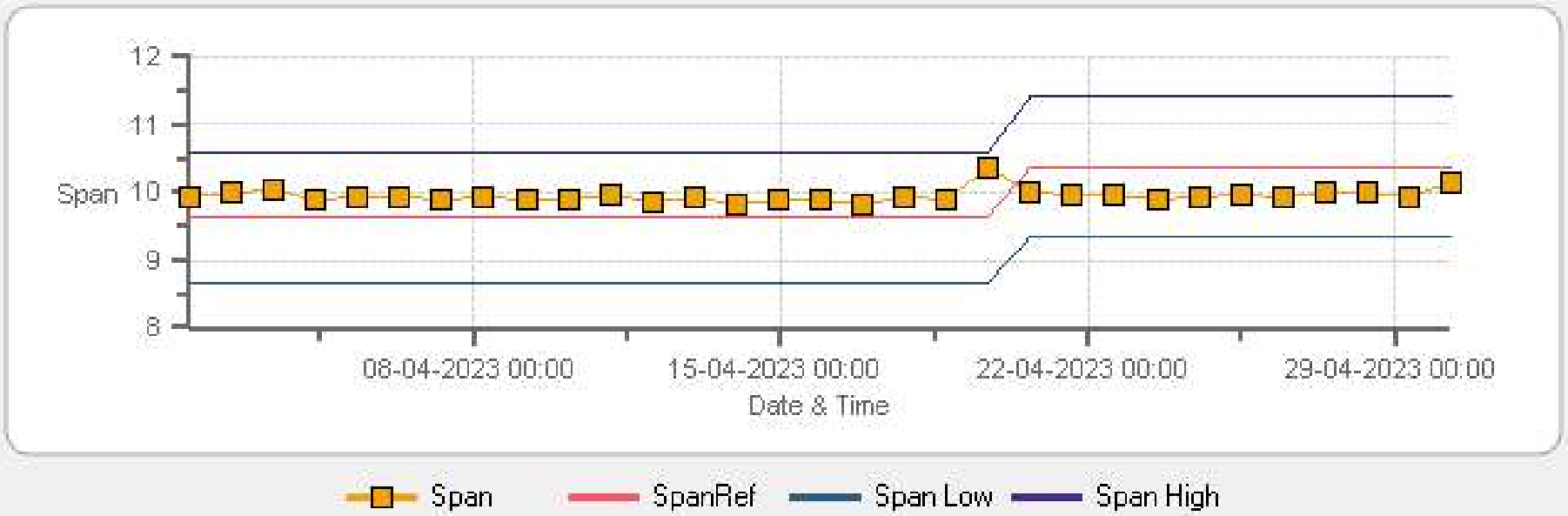
THC55[ppm] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Span



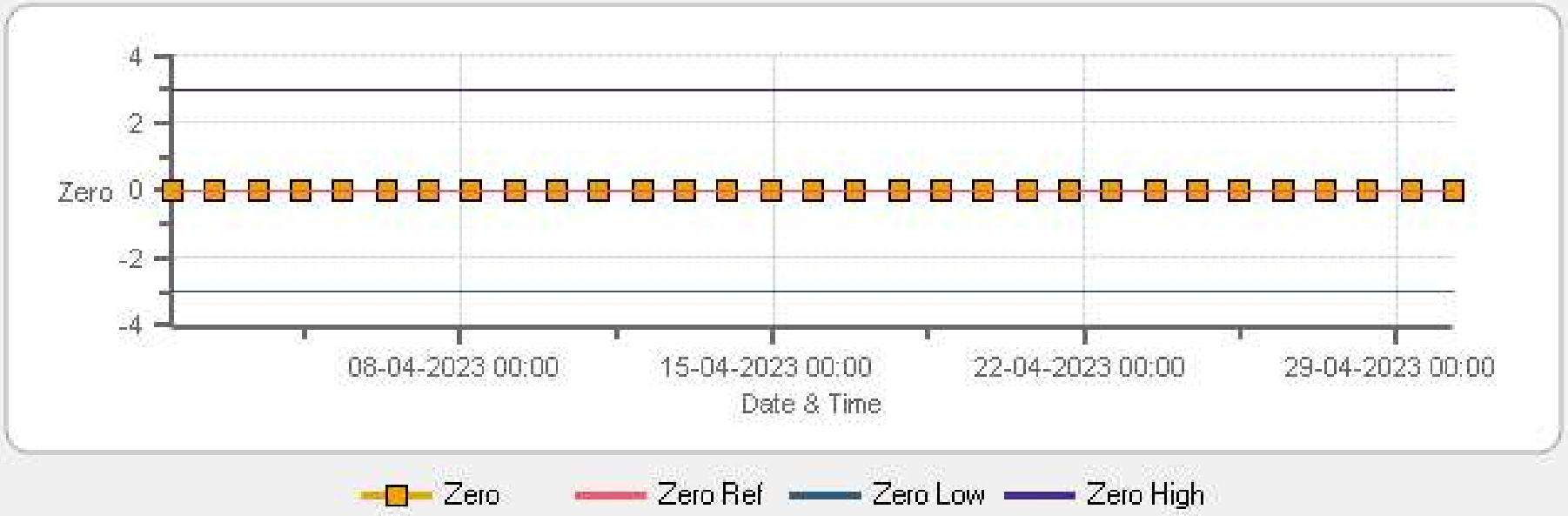
CH4[ppm] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Zero



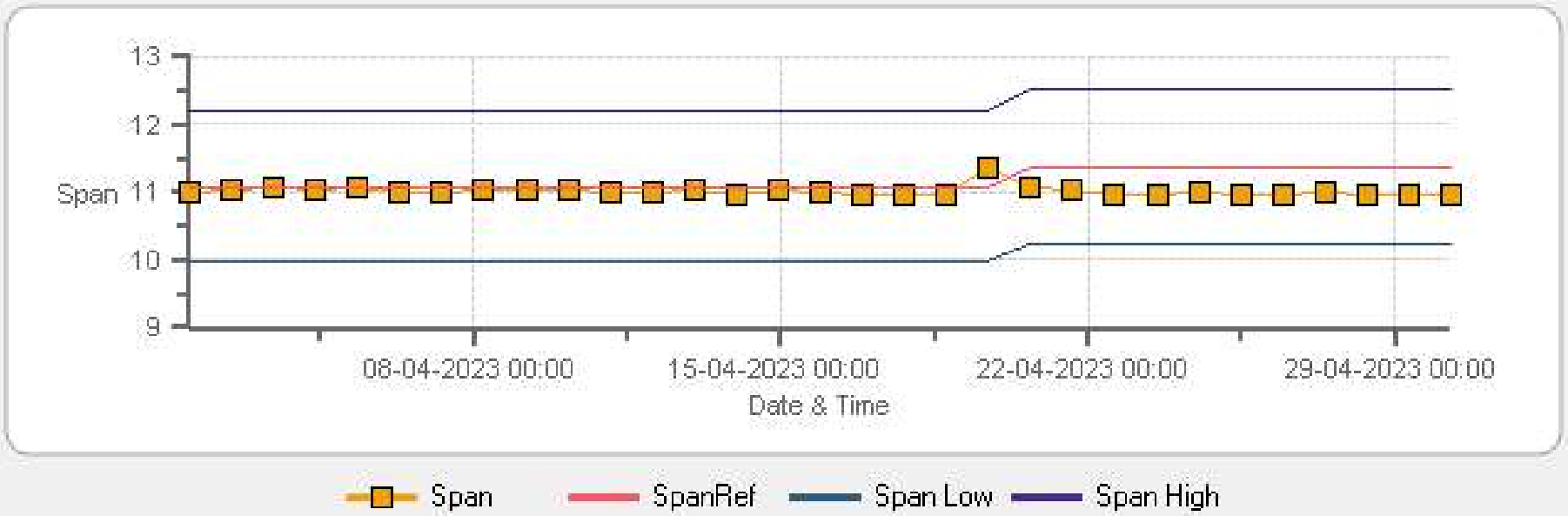
CH4[ppm] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986-C Monthly: 04-2023 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	19-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	986c	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	13:05
PERFORMED BY:	Chris Wesson	END TIME (MST):	16:55

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	434
INITIAL		FINAL	
BKG/OFFSET	16.8	BKG/OFFSET	16.7
COEF/SLOPE	1.064	COEF/SLOPE	1.049
Expected (reference) Value	305.6	Expected (reference) Value	299.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001923	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

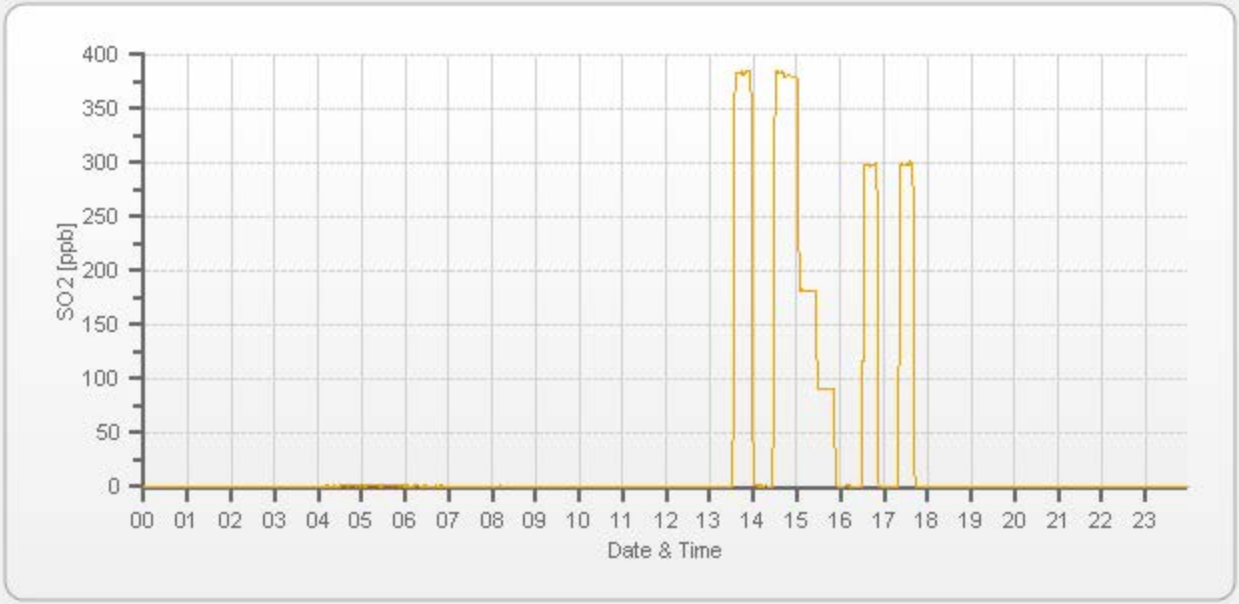
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.2	0		
3938	60.60	3999	380.36	384.9	379.8	0.988	1.001
3970	28.70	3999	180.14	n/a	181.6	n/a	0.992
3985	14.30	3999	89.75	n/a	89.7	n/a	1.001

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed.


SO2[ppb] Station: PRAMP 986-C Daily: 19-04-2023 Type: AVG 1 Min. [1 Min.]
400
350
300
250
200
150
100
50
0
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:	19-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	13:04
PERFORMED BY:	Chris Wesson	END TIME (MST):	16:55

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	424
INITIAL		FINAL	
BKG/OFFSET	15.1	BKG/OFFSET	14.6
COEF/SLOPE	0.935	COEF/SLOPE	0.935
Expected (reference) Value	54.1	Expected (reference) Value	54.51

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1200	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.25	0		
3966	33.20	3999	78.12	76.78	78.35	1.014	0.997
3983	16.10	3999	37.88	n/a	37.53	n/a	1.009
3991	8.10	3999	19.06	n/a	18.34	n/a	1.039

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.006	-0.4%

COMMENTS:

TRS Converter BV's CDNOVA CDN #552


TRS[ppb] Station: PRAMP 986-C Daily: 19-04-2023 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	19-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	13:05
PERFORMED BY:	Chris Wesson	END TIME (MST):	17:07

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1433563261	1147
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.993	1.000	0.996

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	900		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	9.63	11.08	20.70		10.38	11.38	21.76

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3099		3099	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3025	74.40	3099	14.60	13.40	28.00	14.53	13.47	28.02	14.60	13.45	28.06	1.005	0.995	0.999	1.000	0.996	0.998
3063	37.20	3100	7.30	6.70	14.00	n/a	n/a	n/a	7.38	6.68	14.06	n/a	n/a	n/a	0.989	1.003	0.995
3080	18.60	3099	3.65	3.35	7.00	n/a	n/a	n/a	3.70	3.26	6.96	n/a	n/a	n/a	0.986	1.028	1.006

LINEAR REGRESSION ANALYSIS:

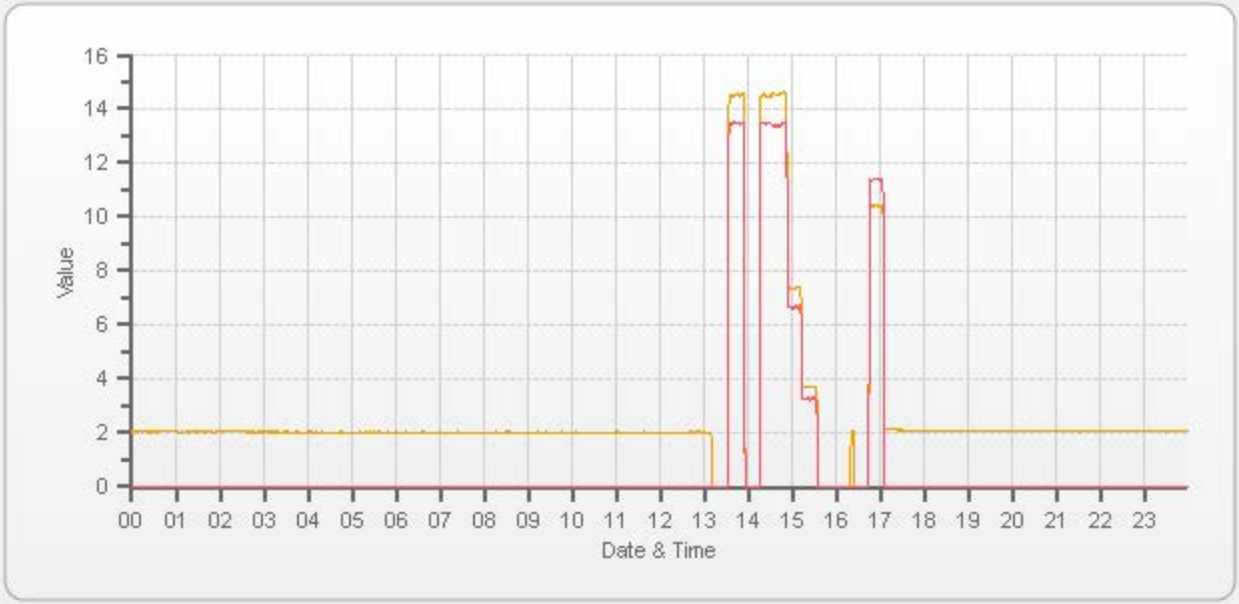
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.2%
NMHC	1.000	1.006	-0.2%
THC	1.000	1.003	0.0%

Comments:

Sample filter changed
BV analyzer
Renewed H2 dessicant before post-cal ZS.

Use Zero Chrom? **No**

Station: PRAMP 986-C Daily: 19-04-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 19, 2023		
Technician:	Chris Wesson		
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:	March 22, 2023	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Tested: 15:16-15:21
Is the screen on the housing? (screen should be on between July and September	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	March 22, 2023
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 11745843 expires June 14, 2023
Reference Temperature (^{o}C):	5.1
Station - Ambient Temperature (^{o}C):	5.4
Temperature Difference (^{o}C):	-0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 22, 2023	
Reference Barometer ID:	DeltaCal DC1 #206578 expires September 20, 2023	
Reference Pressure - Units/Reading:	millibar	949.3
Station Pressure - Units/Reading:	millibar	947.7
Pressure Tolerance +/- 15% of error:	807 - 1092	0.17%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 22, 2023	
Reference Hygrometer ID:	F.S. 11745843 expires June 14, 2023	
Reference Hygrometer % RH- Reading:	51.70	
Station Hygrometer % RH- Reading:	53.00	
RH Tolerance +/- 15% of difference:	43.95 - 59.46	-2.5%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 22, 2023	Previous check date:	March 22, 2023
Wind Speed Observed (kph):	10-~20	Wind Direction Observed:	NE
Wind speed on Data Logger (kph):	12.7	Wind Direction on Data Logger:	NE
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

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

Wind Sensor Information

Sensor ID Data:		**Sensor Outputs:**	
Sensor Make:	RM Young	**Velocity Voltage Output Range:**	n/a
Sensor Model:	05305AQ	**Velocity Unit Output Range:**	0-180
Serial #:	180340	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	July 3, 2021	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

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

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

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

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	2	354	2.0	1.0	1.5
30	330	32	333	-2.0	-3.0	2.5
60	300	61	303	-1.0	-3.0	2.0
90	270	90	273	0.0	-3.0	1.5
120	240	120	242	0.0	-2.0	1.0
150	210	150	210	0.0	0.0	0.0
180	180	180	179	0.0	1.0	0.5
210	150	210	149	0.0	1.0	0.5
240	120	242	120	-2.0	0.0	1.0
270	90	273	90	-3.0	0.0	1.5
300	60	303	61	-3.0	-1.0	2.0
330	30	332	32	-2.0	-2.0	2.0
355	0	354	2	1.0	2.0	1.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.3**

Comments:

Magnetic declination = 15Deg(E)

Peace River Area Monitoring Program

APRIL 2023

Ambient Air Monitoring Calibration Report

- RENO-B STATION-

CAL-PRAMP-202304-01563

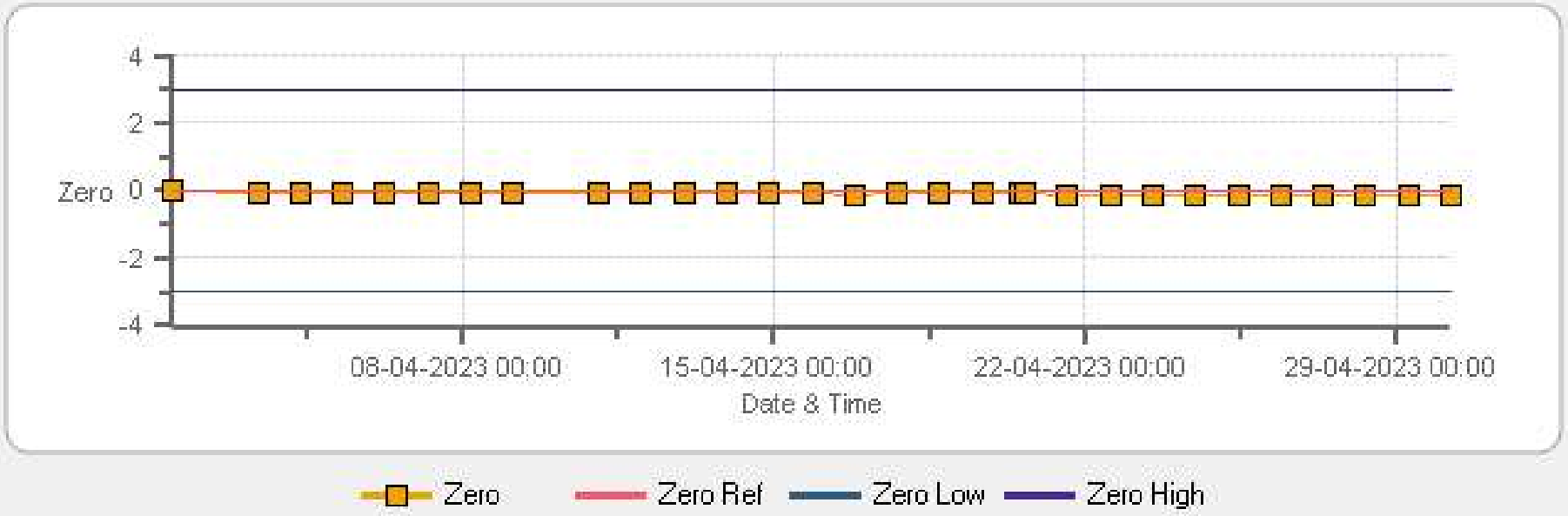
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

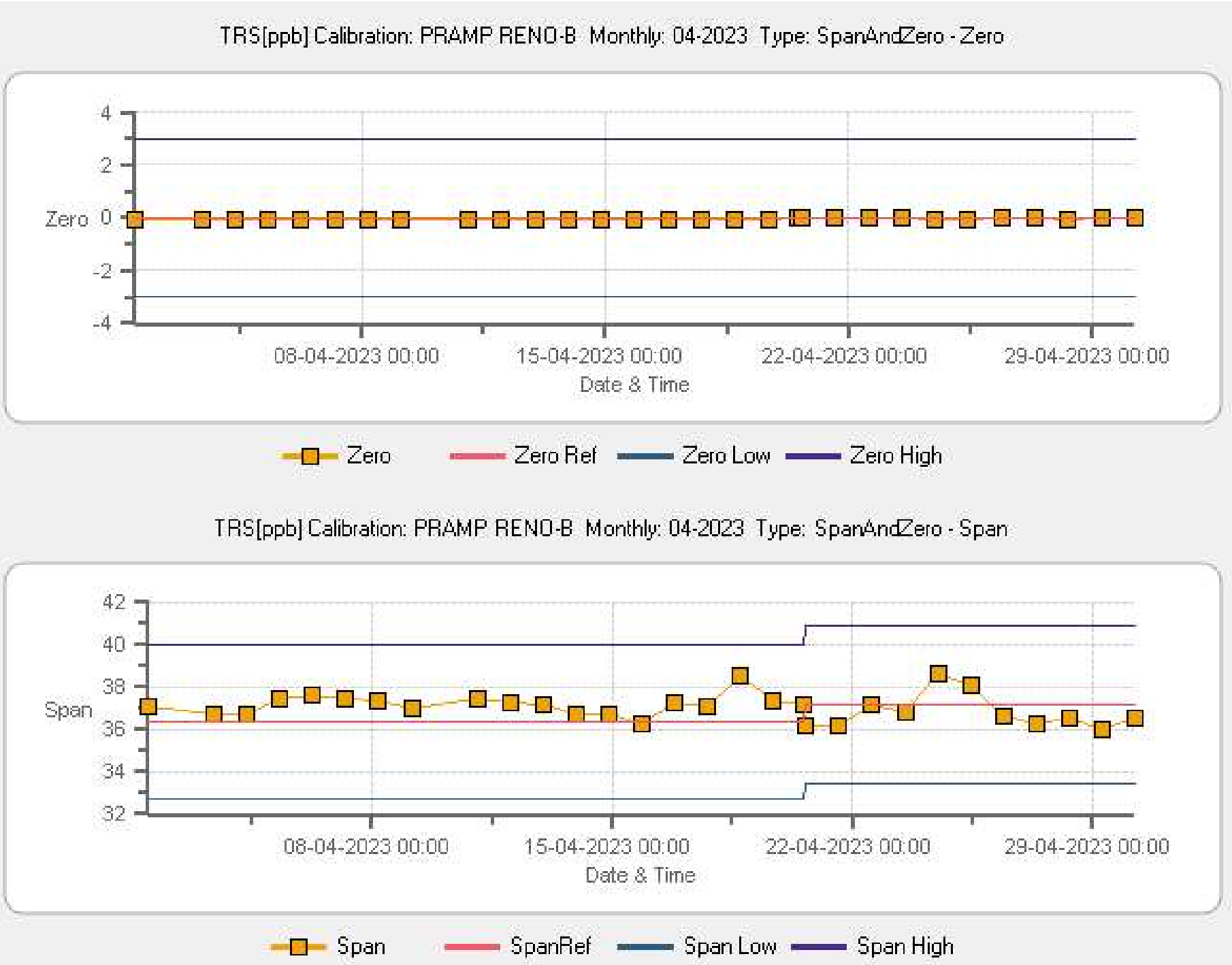
May 25, 2023

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

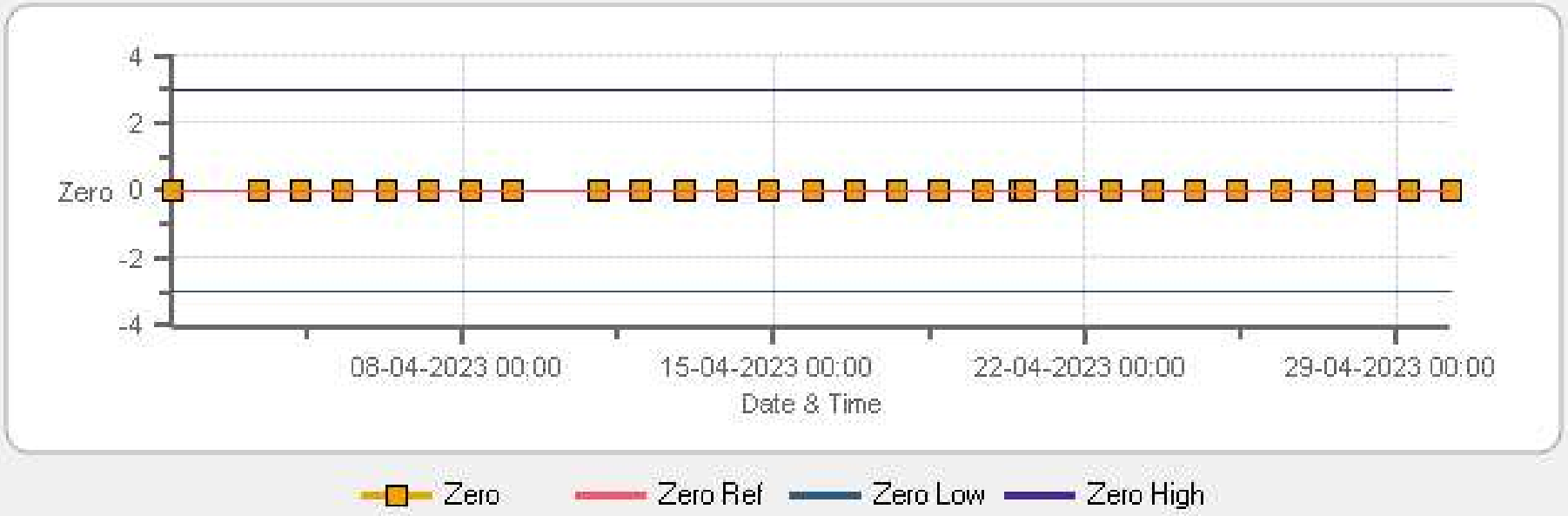
SO2[ppb] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Zero



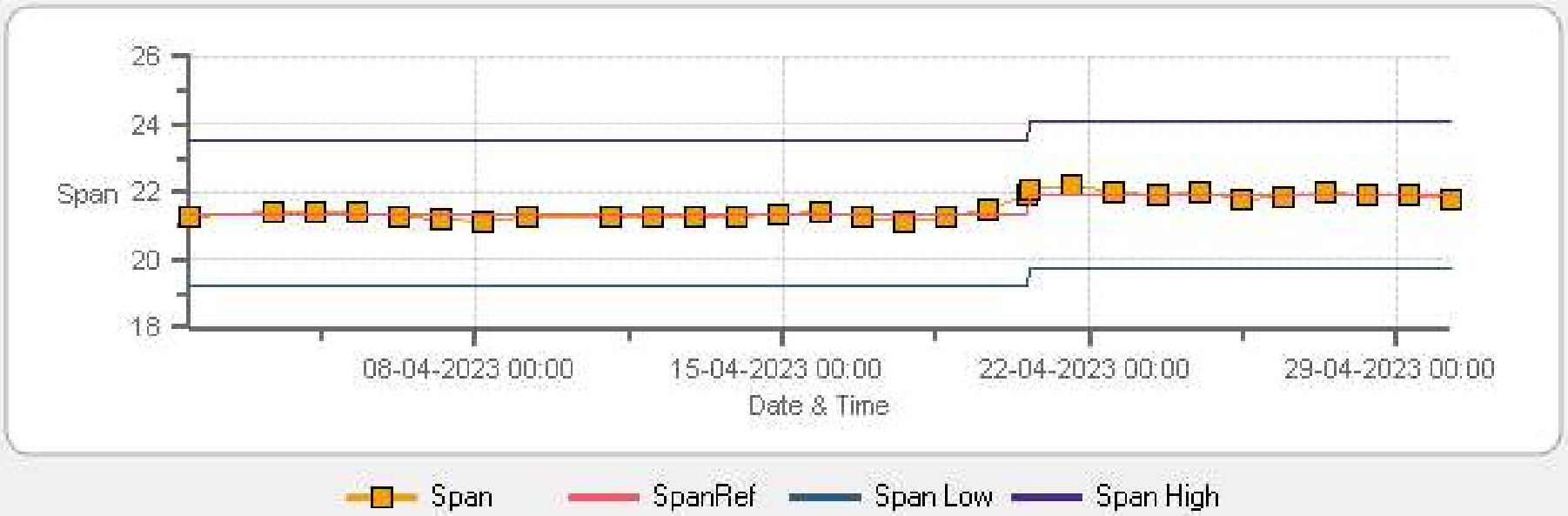
SO2[ppb] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Span


TRS[ppb] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Span
42
40
38
Span
36
34
32
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

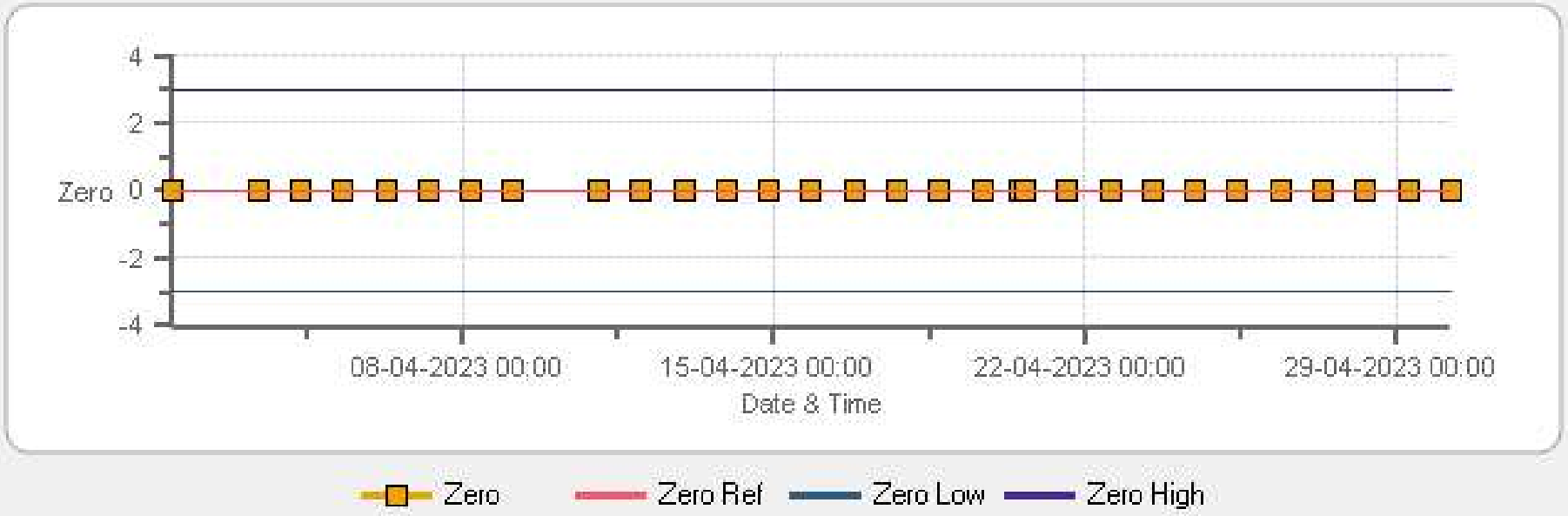
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Zero



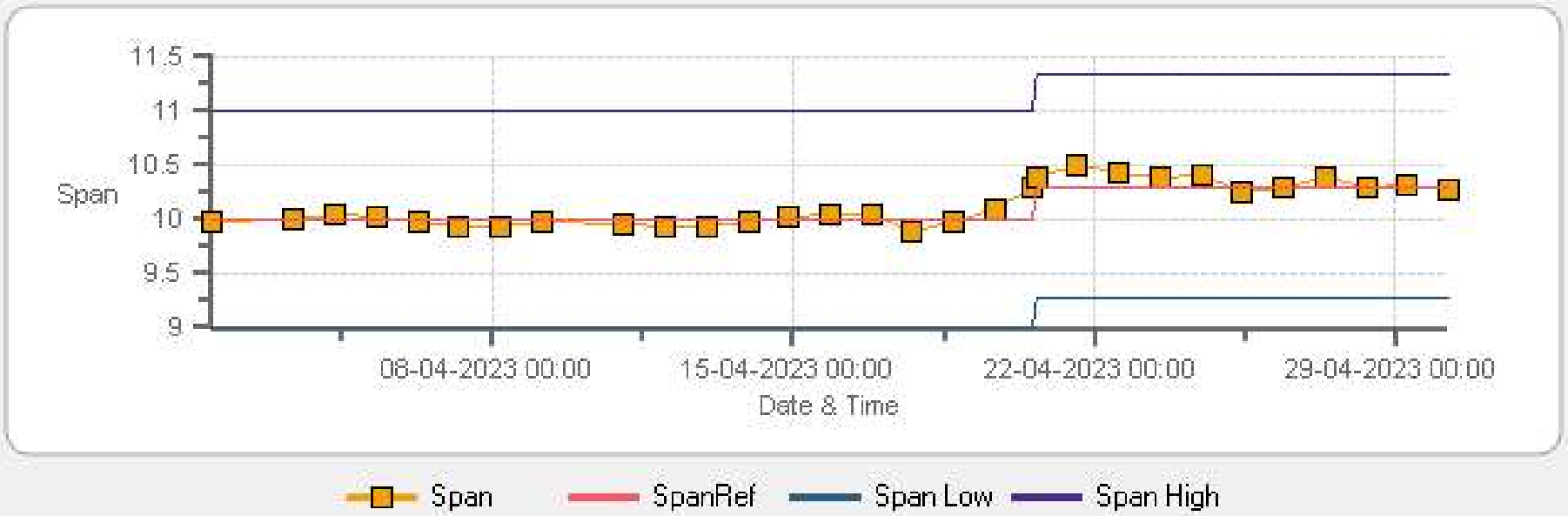
THC55[ppm] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Span



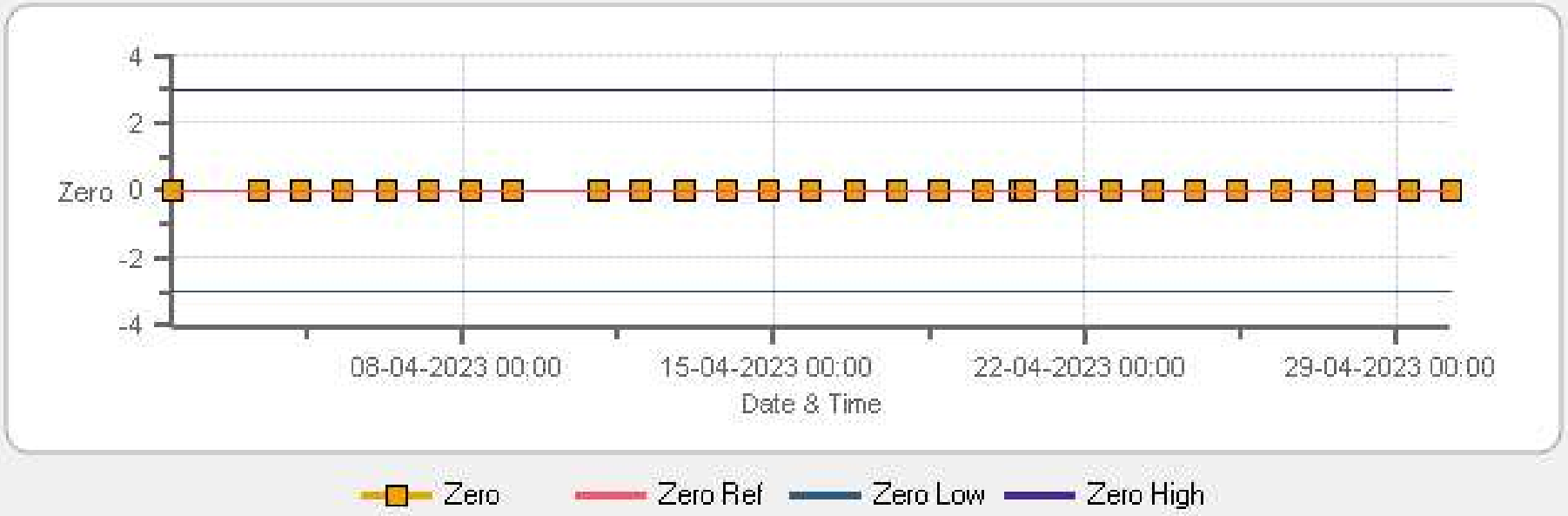
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Zero



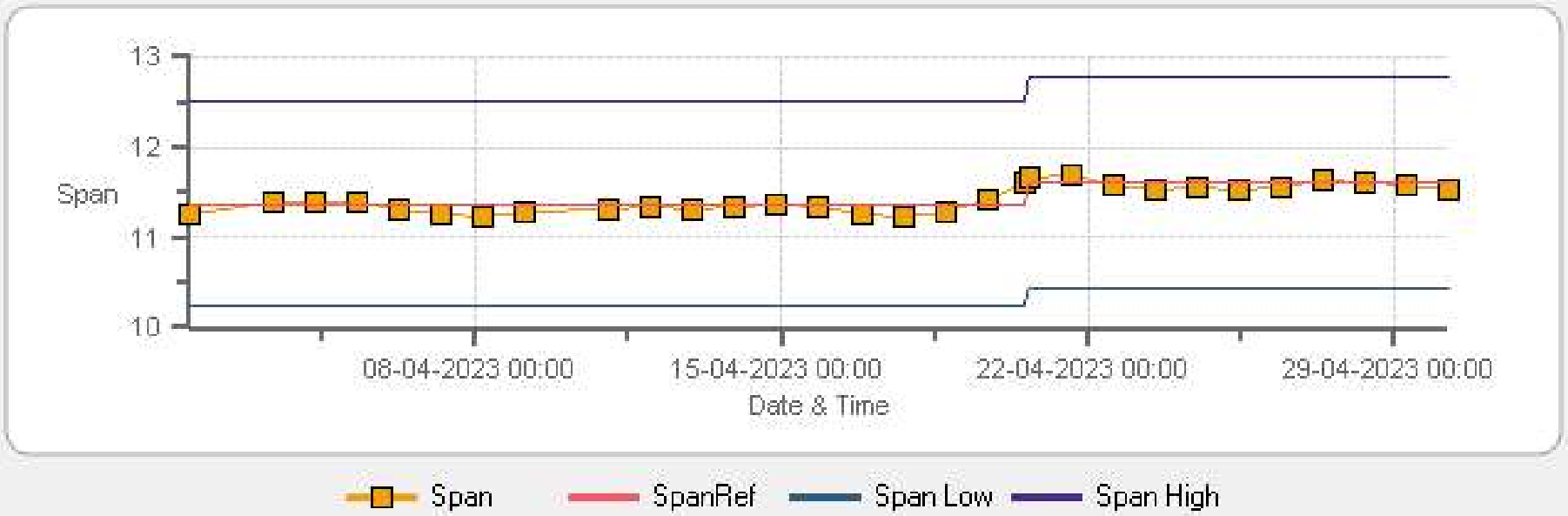
CH4[ppm] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP RENO-B Monthly: 04-2023 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	20-Apr-2023	PREVIOUS CALIBRATION DATE:	20-Mar-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6
LOCATION:	Reno-B	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	09:42
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:32

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	445
INITIAL		FINAL	
BKG/OFFSET	1.18	BKG/OFFSET	1.18
COEF/SLOPE	0.952	COEF/SLOPE	0.898
Expected (reference) Value	221.4	Expected (reference) Value	211.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	900	LOW ID	n/a
EXPIRY DATE	27-Jan-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.1	0		
3938	60.60	3999	380.36	402.6	380.2	0.945	1.000
3970	28.70	3999	180.14	n/a	180.9	n/a	0.996
3985	14.30	3999	89.75	n/a	89.4	n/a	1.004

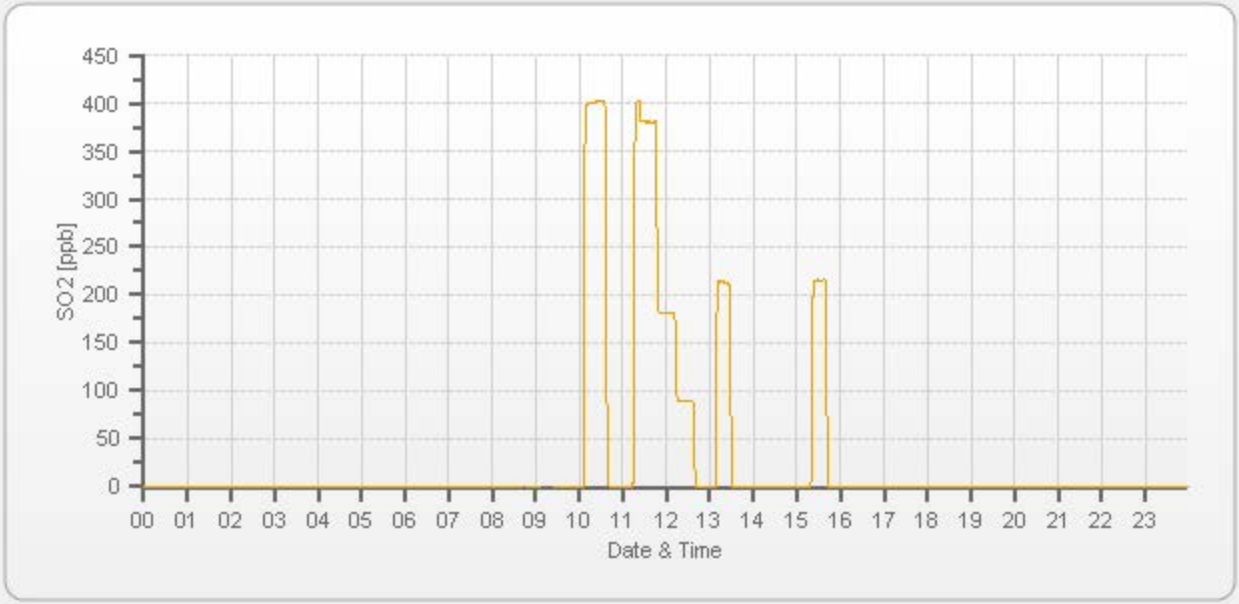
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

sample filter changed

SO2[ppb] Station: PRAMP RENO-B Daily: 20-04-2023 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	20-Apr-2023	PREVIOUS CALIBRATION DATE:	20-Mar-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.998
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6
LOCATION:	Reno-B	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	09:42
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:32

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	405
INITIAL		FINAL	
BKG/OFFSET	0.96	BKG/OFFSET	0.92
COEF/SLOPE	0.885	COEF/SLOPE	0.882
Expected (reference) Value	36.37	Expected (reference) Value	37.22

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	800	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.06	0		
3966	33.20	3999	78.12	77.55	78.16	1.007	1.000
3983	16.10	3999	37.88	n/a	37.59	n/a	1.008
3991	8.10	3999	19.06	n/a	18.44	n/a	1.034

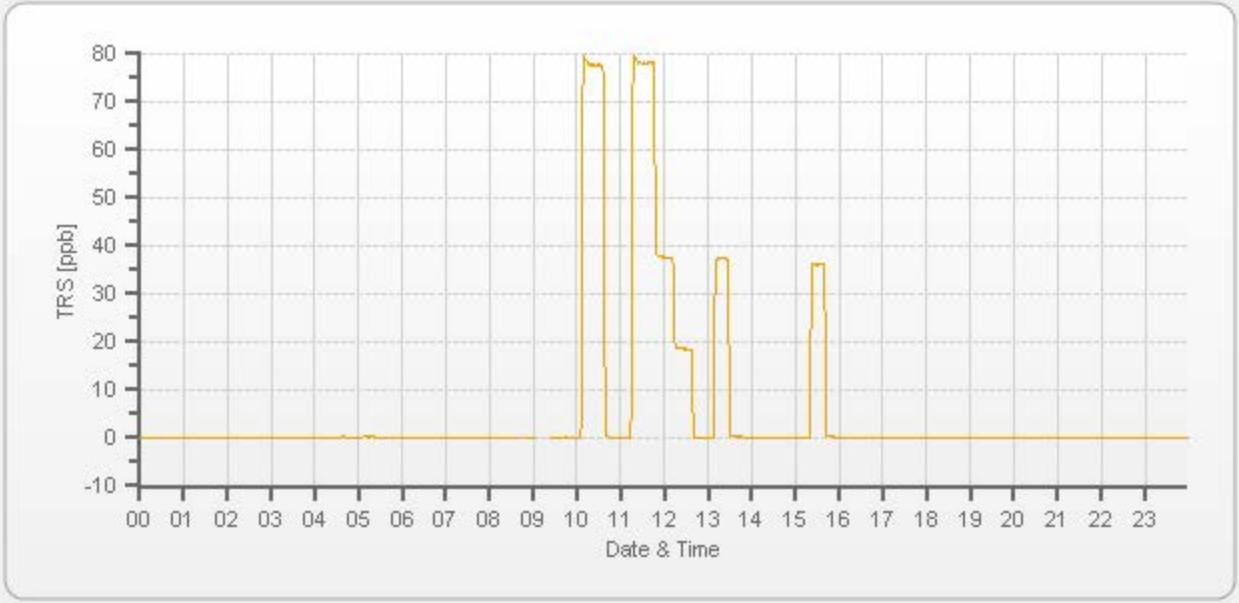
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.003	-0.3%

COMMENTS:

TRS Converter CDNOVA CDN-101 #590.

TRS[ppb] Station: PRAMP RENO-B Daily: 20-04-2023 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	20-Apr-2023	PREVIOUS CALIBRATION DATE:	20-Mar-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	20.8
LOCATION:	Reno-B	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	10:07
PERFORMED BY:	Chris Wesson	END TIME (MST):	13:28

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1505664392	1096
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	0.998	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	600		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.00	11.37	21.37		10.30	11.61	21.92

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						
3025	74.40	3099	14.60	13.40	28.00	14.22	12.95	27.17	14.62	13.41	28.03	1.026	1.035	1.031	0.998	0.999	0.999
3062	37.20	3099	7.30	6.70	14.00	n/a	n/a	n/a	7.31	6.76	14.08	n/a	n/a	n/a	0.998	0.991	0.994
3080	18.60	3099	3.65	3.35	7.00	n/a	n/a	n/a	3.66	3.42	7.08	n/a	n/a	n/a	0.997	0.980	0.989

LINEAR REGRESSION ANALYSIS:

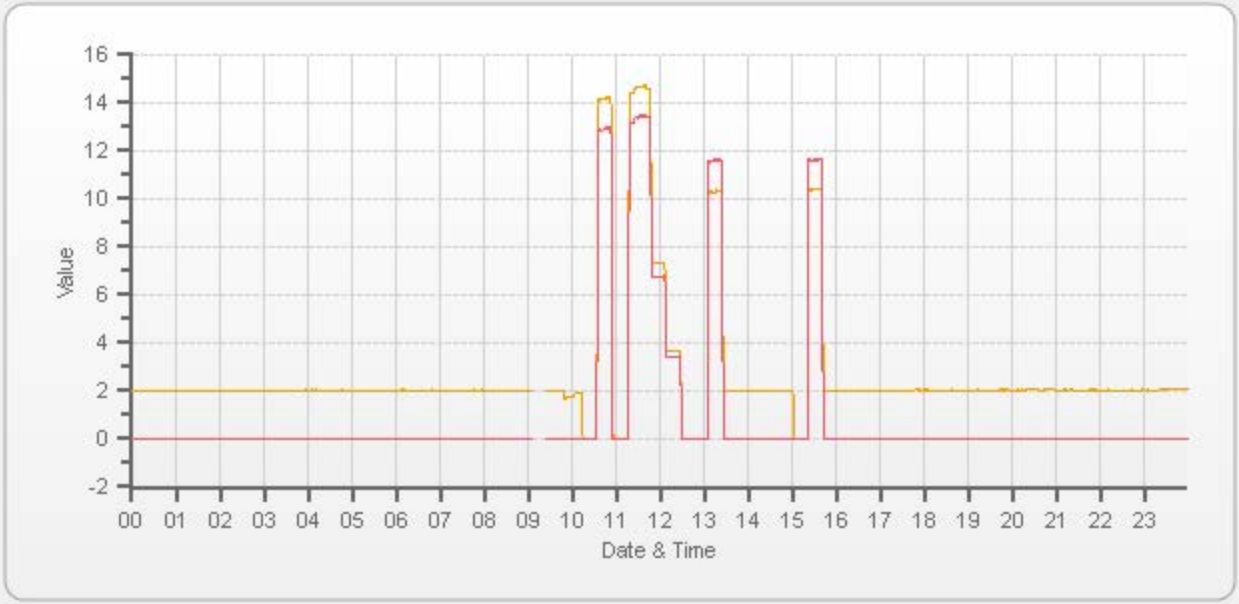
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	0.0%
NMHC	1.000	0.999	0.2%
THC	1.000	1.000	0.1%

Comments:

Sample filter changed
H2 = AMA HG300 #210467069
BV analyzer

Use Zero Chrom? **Yes**

Station: PRAMP RENO-B Daily: 20-04-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 20, 2023
Technician:	Chris Wesson
Station:	PRAMP Reno

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:	March 20, 2023	
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	yes	Audit: 11:46 - 11:53
Is the screen on the housing? (screen should be on between July and September	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

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

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	March 20, 2023
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	FS 160459244 expires June 14, 2023
Reference Temperature (^{o}C):	5.4
Station - Ambient Temperature (^{o}C):	5.7
Temperature Difference (^{o}C):	-0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 20, 2023	
Reference Barometer ID:	DeltaCal DC1 #206578 expires September 20, 2023	
Reference Pressure - Units/Reading:	millibar	952.6
Station Pressure - Units/Reading:	millibar	951.9
Pressure Tolerance +/- 15% of error:	810 - 1095	0.07%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 20, 2023	
Reference Hygrometer ID:	FS 160459244 expires June 20, 2023	
Reference Hygrometer % RH- Reading:	56.60	
Station Hygrometer % RH- Reading:	58.00	
RH Tolerance +/- 15% of difference:	48.11 - 65.09	-2.5%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 20, 2023	Previous check date:	March 20, 2023
Wind Speed Observed (kph):	20-~30	Wind Direction Observed:	NW
Wind speed on Data Logger (kph):	22	Wind Direction on Data Logger:	NW
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	Reno-B	**Reviewed By:**	Limin Li
Audit Date:	November 23, 2022	**Start/End Time (mst):**	15:40 / 16:44
Calibration Purpose:	installation	**Weather Conditions:**	Mainly cloudy with clear breaks

Wind Sensor Information

Sensor ID Data:		**Sensor Outputs:**	
Sensor Make:	RM Young	**Velocity Voltage Output Range:**	n/a
Sensor Model:	05305AQ	**Velocity Unit Output Range:**	0-200
Serial #:	174795	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	n/a	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 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	0	353	0.0	2.0	1.0
30	330	28	327	2.0	3.0	2.5
60	300	58	298	2.0	2.0	2.0
90	270	89	271	1.0	-1.0	1.0
120	240	119	238	1.0	2.0	1.5
150	210	149	208	1.0	2.0	1.5
180	180	179	178	1.0	2.0	1.5
210	150	208	149	2.0	1.0	1.5
240	120	237	119	3.0	1.0	2.0
270	90	267	89	3.0	1.0	2.0
300	60	297	58	3.0	2.0	2.5
330	30	329	28	1.0	2.0	1.5
355	0	353	0	2.0	0.0	1.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.7**

Comments:

Declination = 15 deg East
Output via RMY 32400 serial interface

Peace River Area Monitoring Program

APRIL 2023

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202304-01689

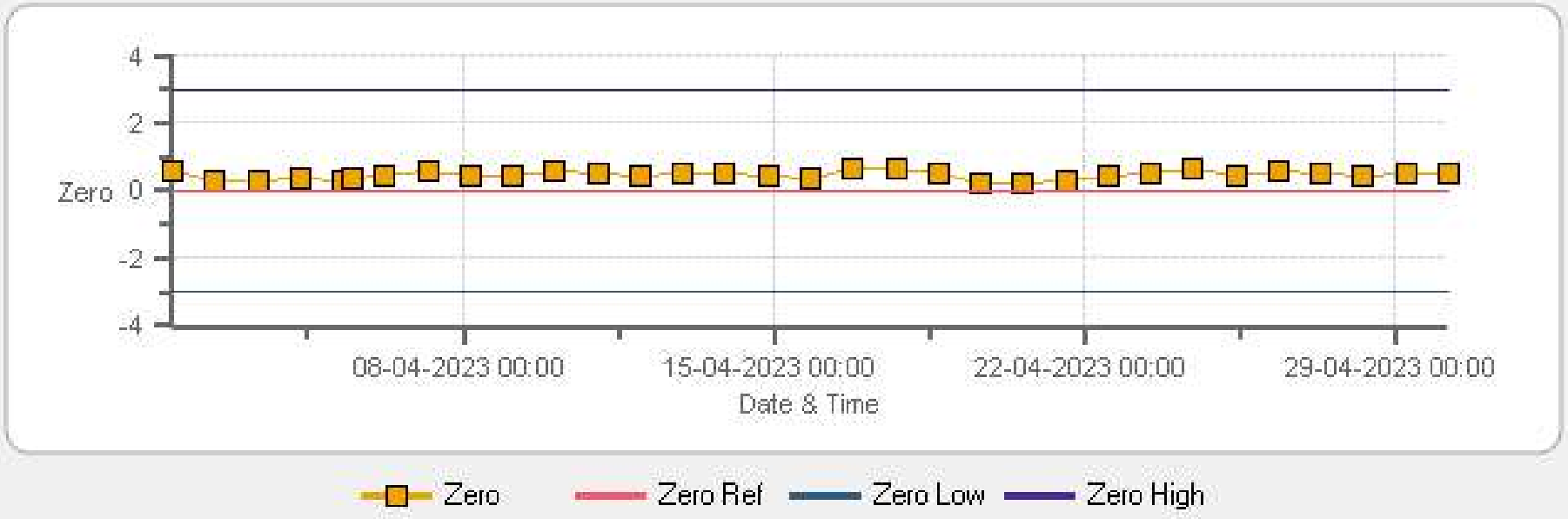
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

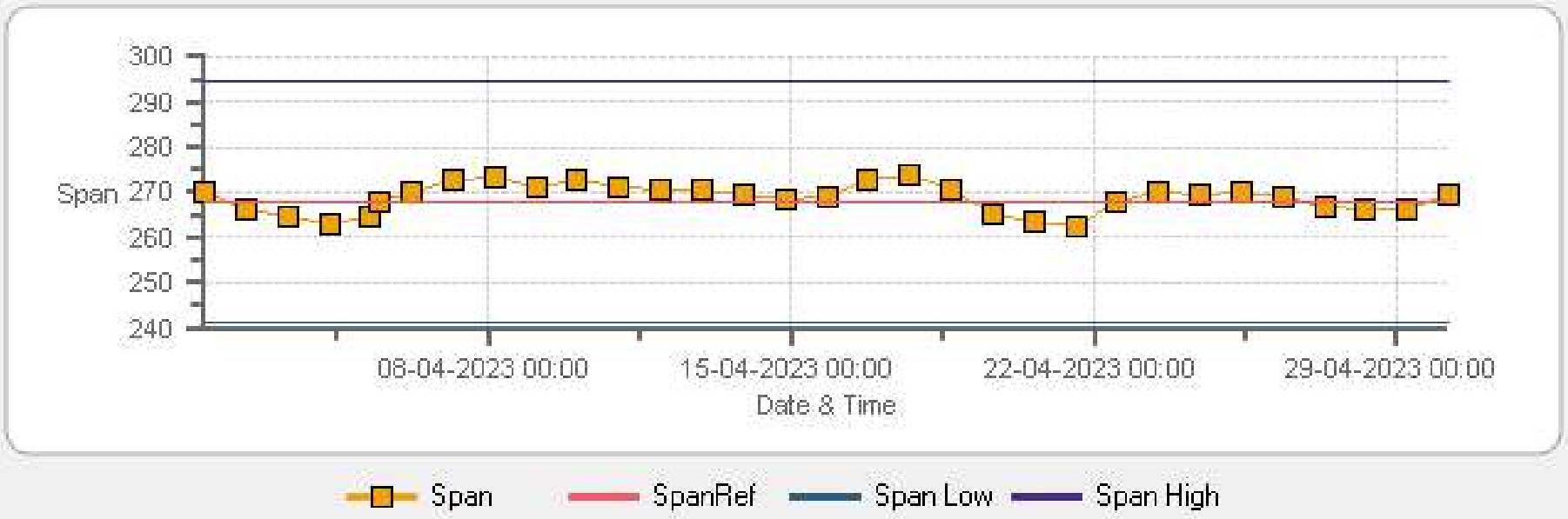
May 25, 2023

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

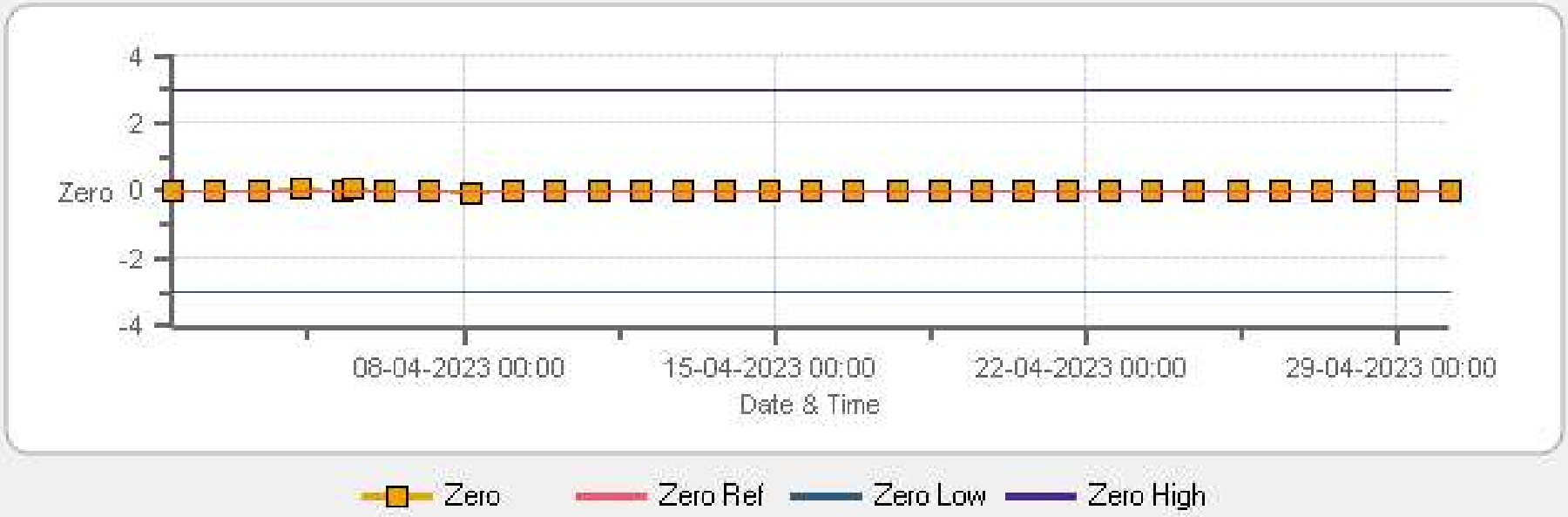
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero



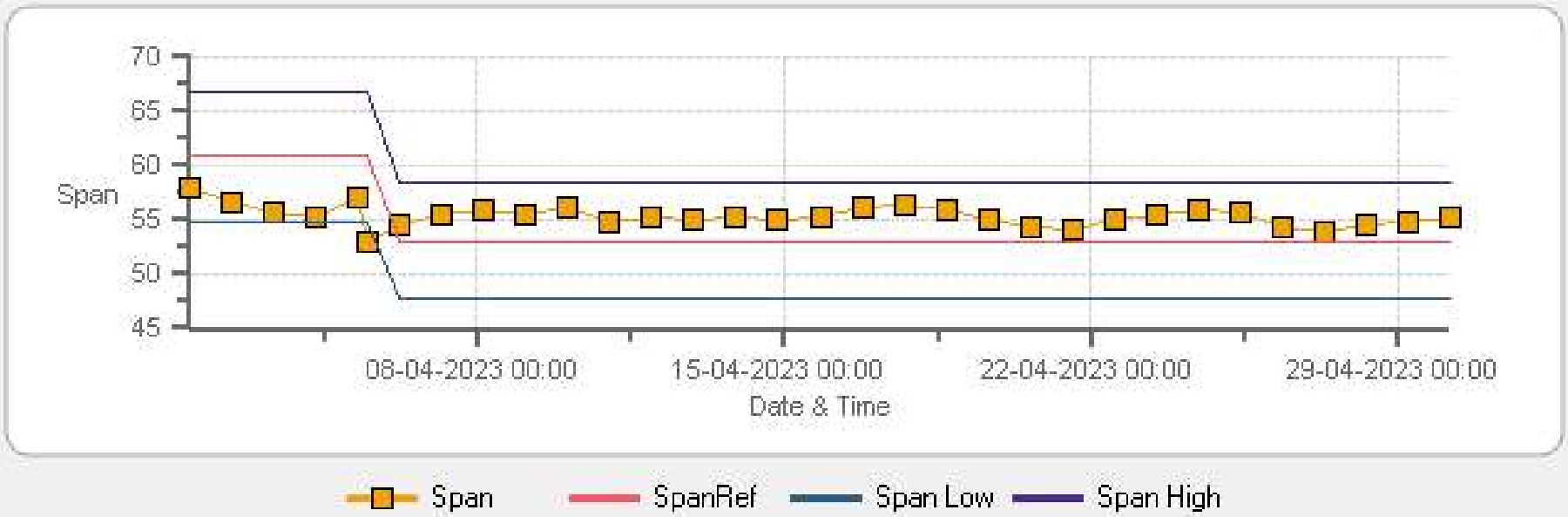
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span



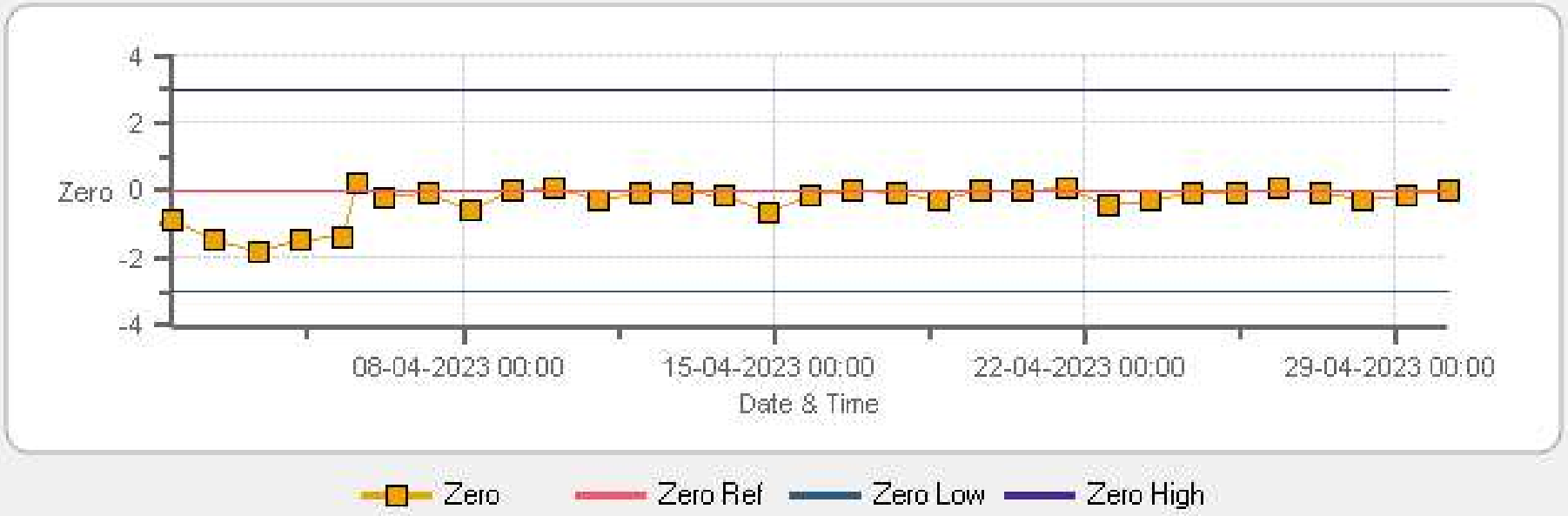
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero



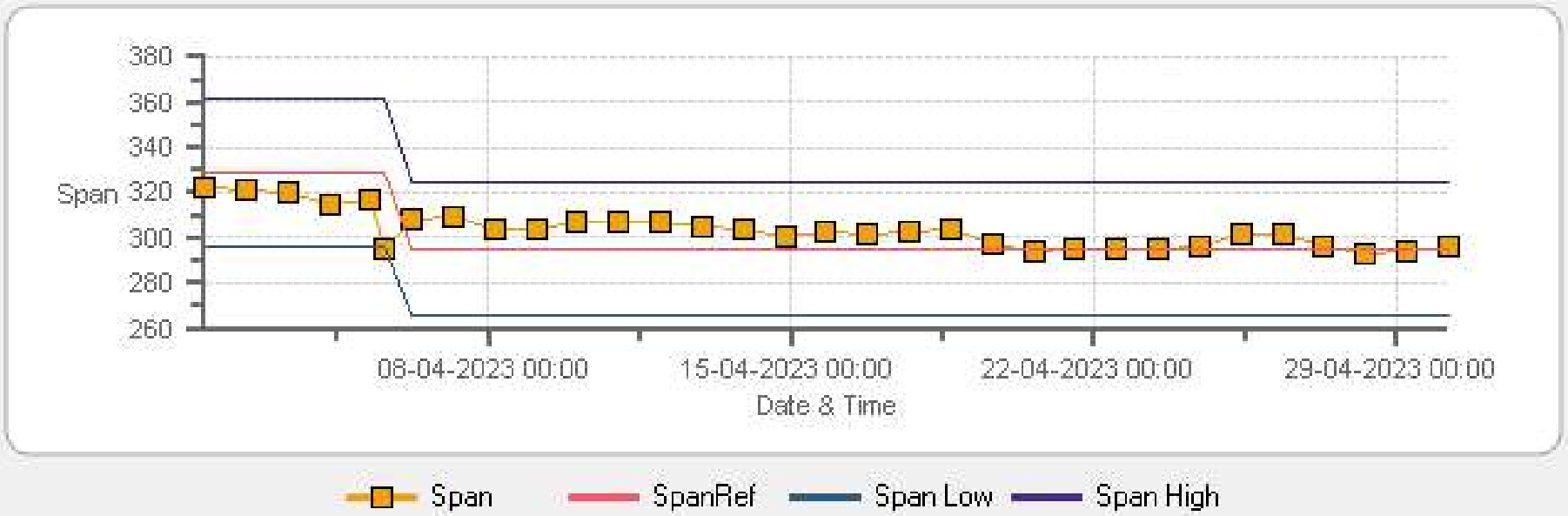
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span



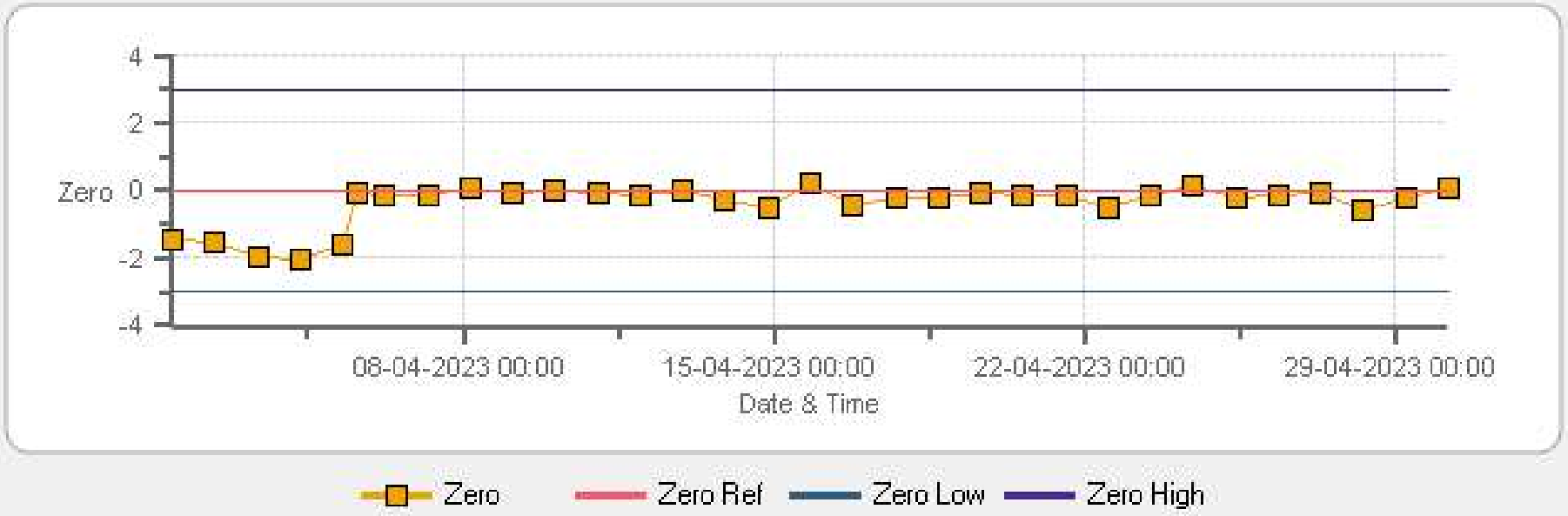
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero



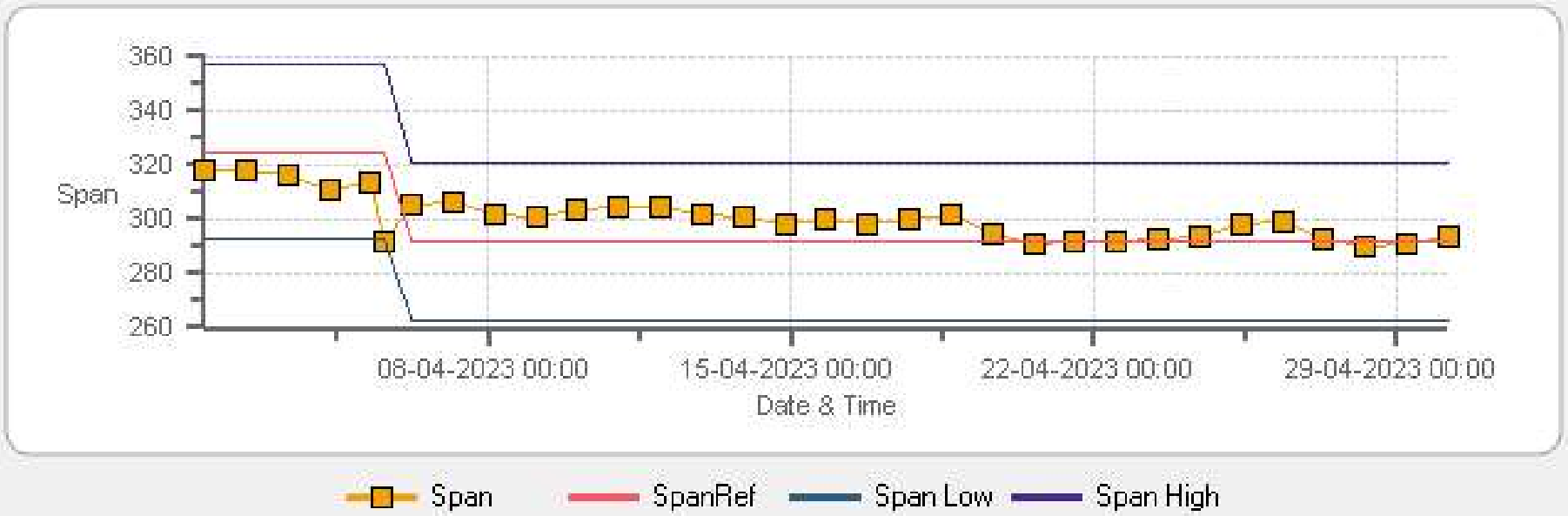
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span



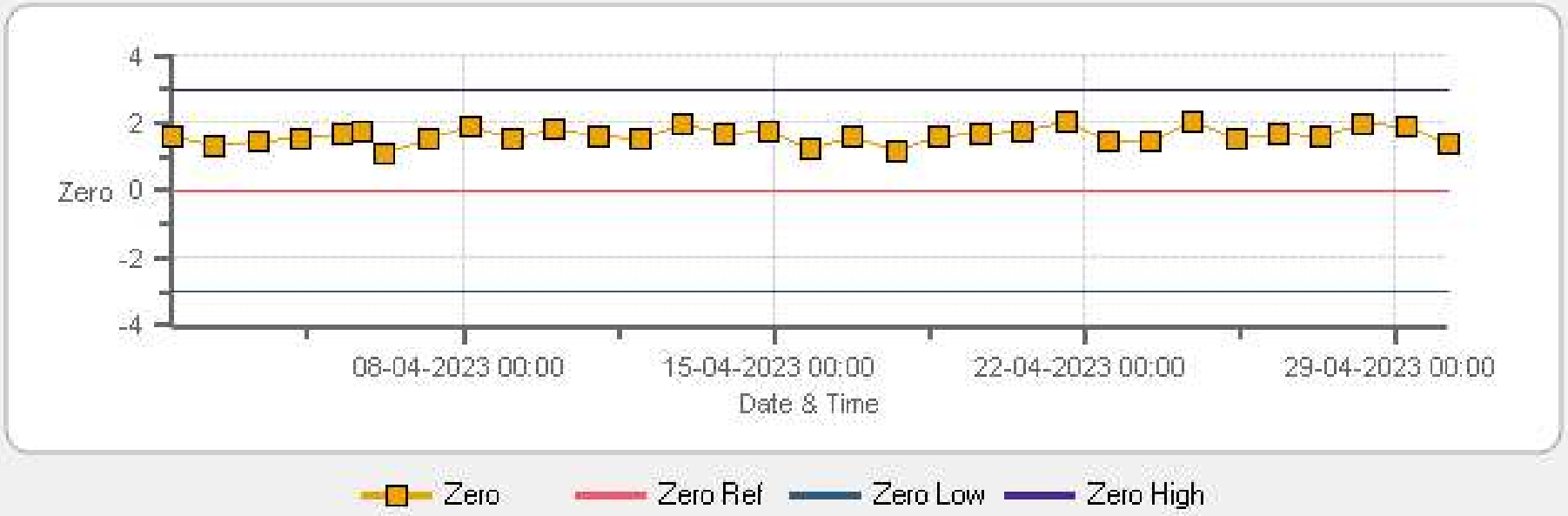
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero



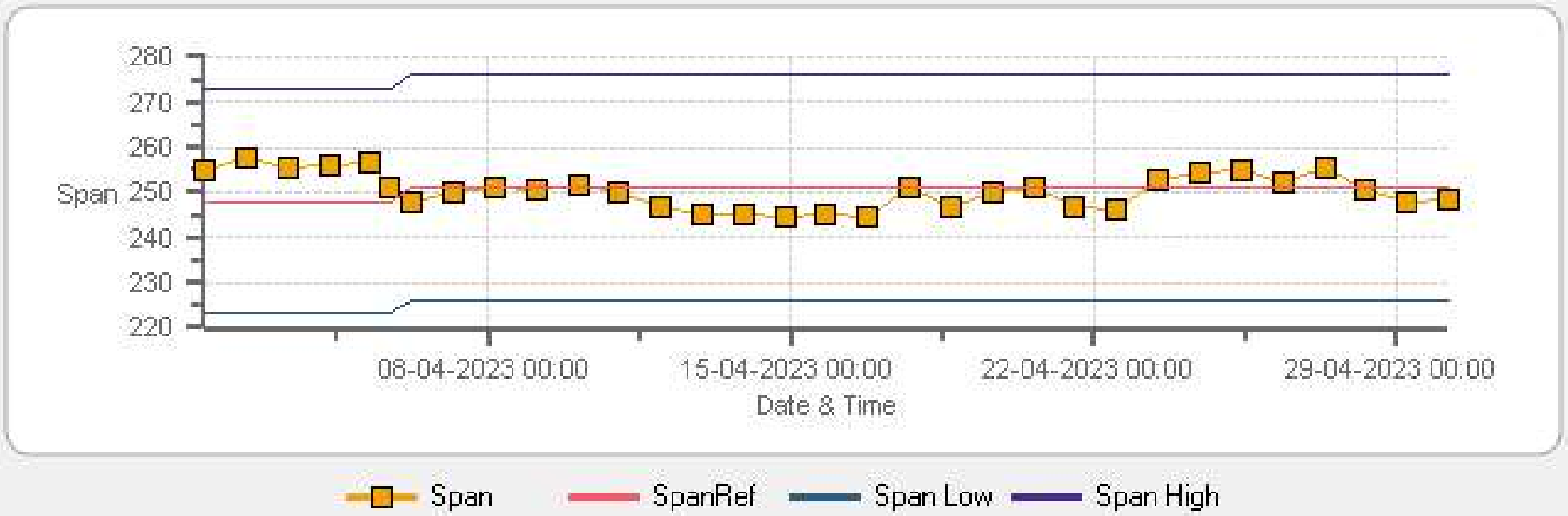
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span

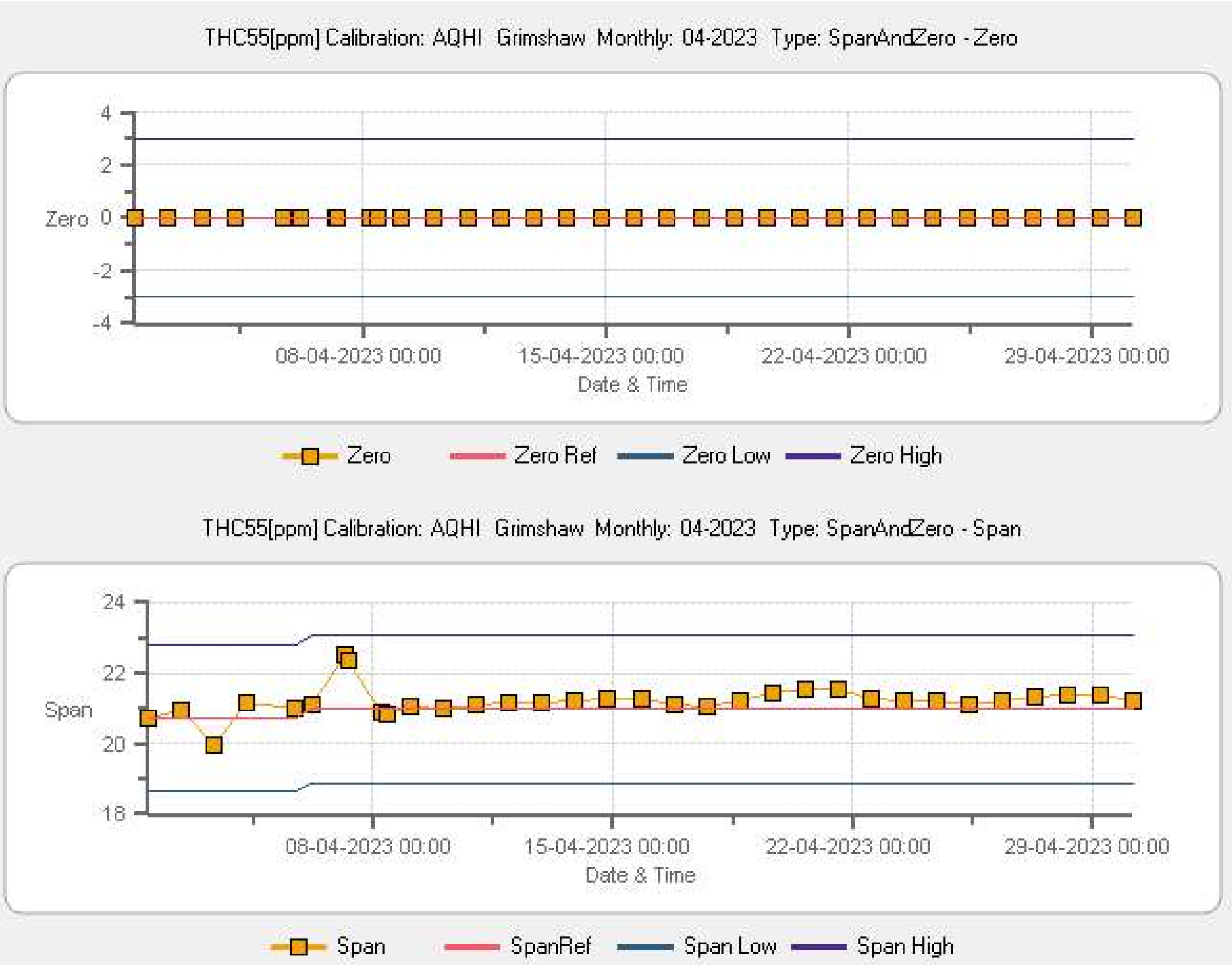


O3[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero

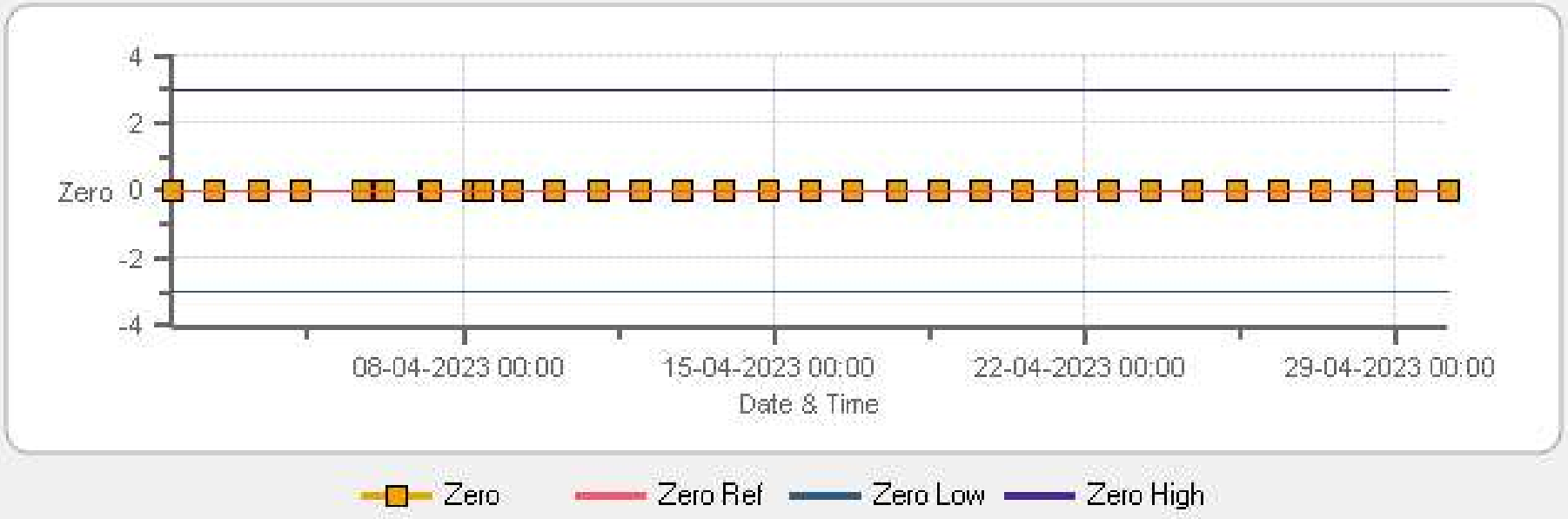


O3[ppb] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span

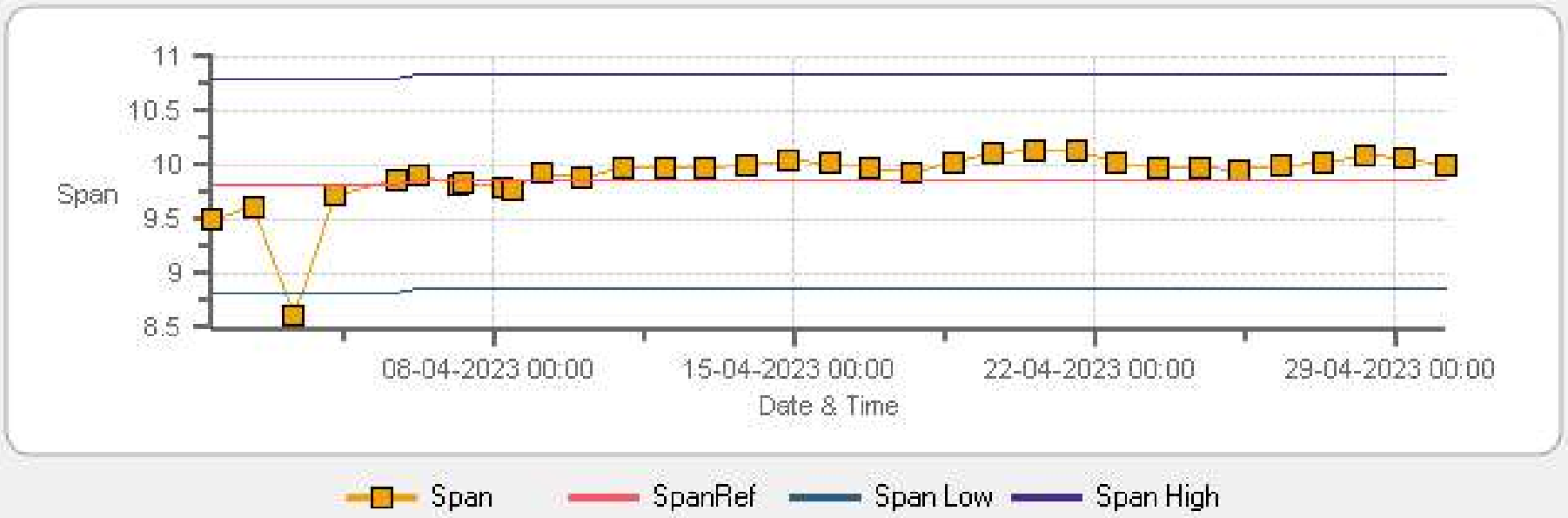



THC55[ppm] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span
24
22
Span
20
18
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

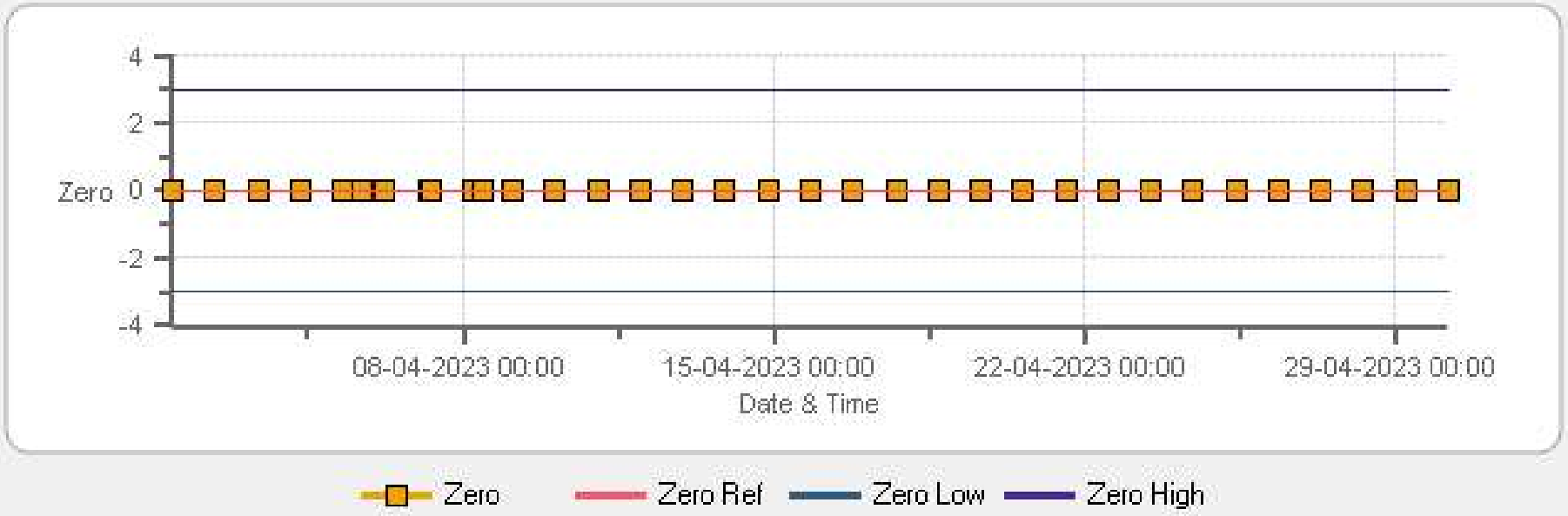
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero



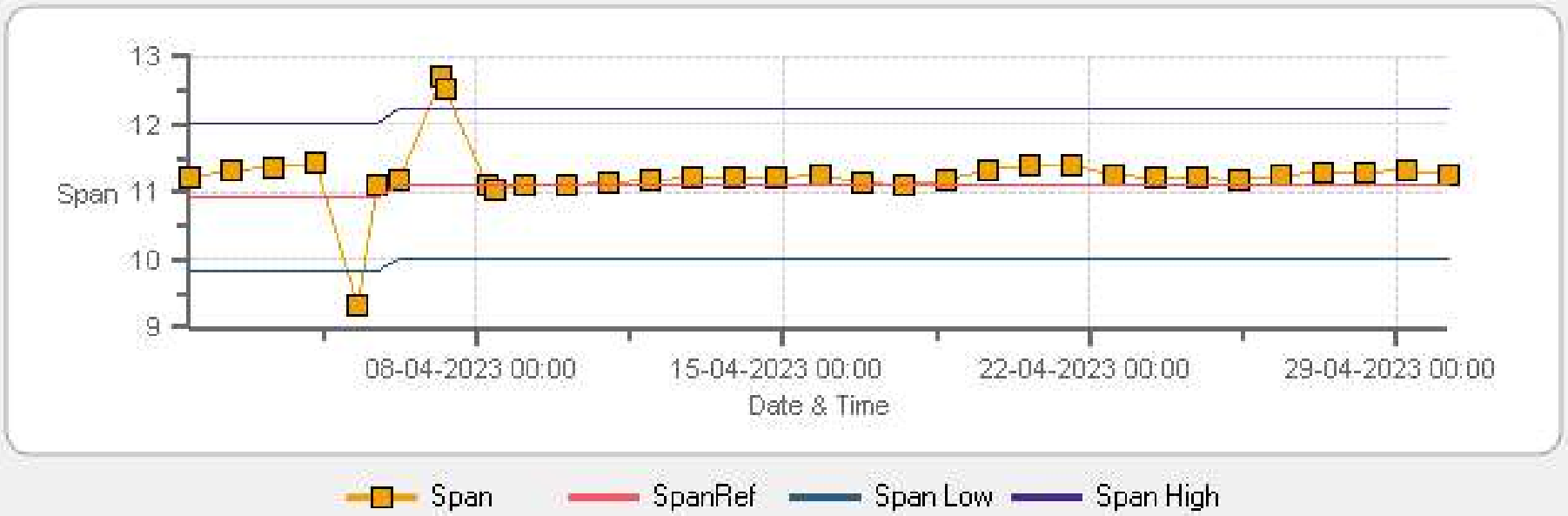
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 04-2023 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	05-Apr-2023	PREVIOUS CALIBRATION DATE:	01-Mar-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5
LOCATION:	Grimshaw	BAROMETRIC (mBar):	940
PURPOSE	Routine	START TIME (MST):	07:46
PERFORMED BY:	Chris Wesson	END TIME (MST):	11:40

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	515
INITIAL		FINAL	
BKG/OFFSET	28.6	BKG/OFFSET	28.5
COEF/SLOPE	0.915	COEF/SLOPE	0.927
Expected (reference) Value	267.8	Expected (reference) Value	268

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	27-Jan-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.1	0		
3938	60.60	3999	380.36	373.1	380.2	1.020	1.000
3970	28.70	3999	180.14	n/a	179.7	n/a	1.002
3985	14.30	3999	89.75	n/a	89.9	n/a	0.998

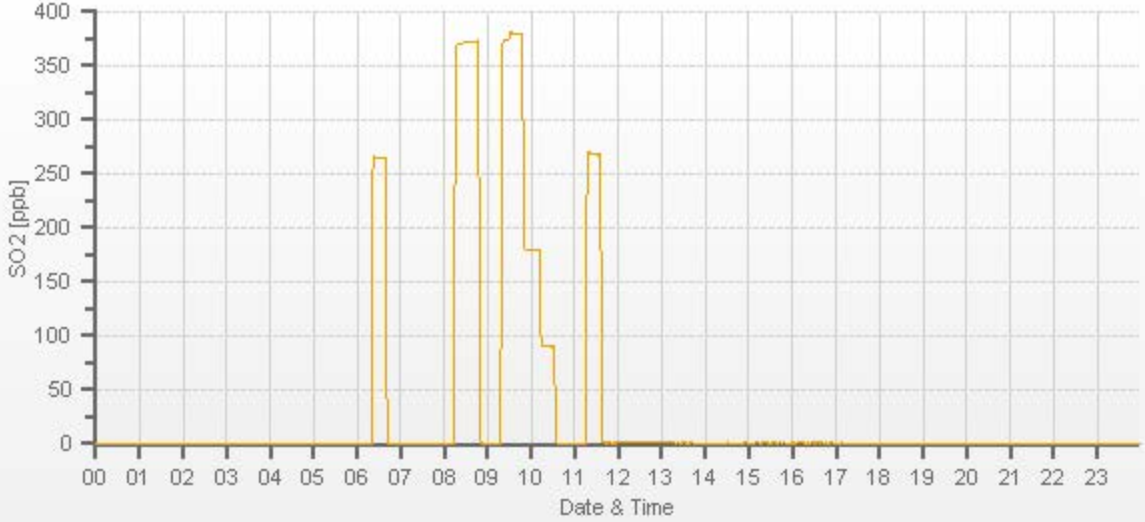
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.0%

COMMENTS:

Sample filter changed.

SO2[ppb] Station: AQHI Grimshaw Daily: 05-04-2023 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	05-Apr-2023	PREVIOUS CALIBRATION DATE:	02-Mar-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5
LOCATION:	Grimshaw	BAROMETRIC (mBar):	940
PURPOSE	Routine	START TIME (MST):	07:46
PERFORMED BY:	Chris Wesson	END TIME (MST):	11:40

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1152940011	FLOW (mL/min)	469
INITIAL		FINAL	
BKG/OFFSET	1.99	BKG/OFFSET	1.95
COEF/SLOPE	0.892	COEF/SLOPE	0.958
Expected (reference) Value	60.82	Expected (reference) Value	53.04

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	900	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.01	0		
3966	33.20	3999	78.12	79.76	78.02	0.980	1.001
3983	16.20	3999	38.12	n/a	37.59	n/a	1.014
3991	8.10	3999	19.06	n/a	18.7	n/a	1.019

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	-0.2%

COMMENTS:

Converter, CDNova CDN-101 #576.
BV analyzer

TRS[ppb] Station: AQHI Grimshaw Daily: 05-04-2023 Type: AVG 1 Min. [1 Min.]

NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

				ANALYZER:			
DATE:	05-Apr-2023	PREVIOUS CALIBRATION DATE:	02-Mar-2023	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	21.5	SERIAL #:	837	NOx	0.999
LOCATION:	Grimshaw	BAROMETRIC (mBar):	940	FLOW (mL/min)	442	NO	0.999
PURPOSE	Routine	START TIME (MST):	07:46	RANGE (ppb)	500	NO2	1.002
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:35	GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	EY0001013		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	NO/NOx (PPM):	49.2	49.4	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	1500		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	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:	2.4	-1.2	n/a	BKG/OFFSET:	0.4	-0.4	n/a
SLOPE/COEF/CE:	1.148	1.131	0.998	SLOPE/COEF/CE:	1.098	1.107	0.998

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	328.9	4.0	324.9		294.7	3.2	291.5

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	0.3	0.9	0.6	0.0	0.0	0.0						
4959	38.60	4998	380.0	381.5	1.5	398.8	405.2	6.2	380.2	381.6	1.4	0.954	0.944		0.999	1.000	
4982	18.30	5000	180.1	180.8	0.7	n/a	n/a	n/a	182.0	180.9	-1.1	n/a	n/a		0.989	0.999	
4991	9.20	5000	90.5	90.9	0.4	n/a	n/a	n/a	90.4	90.2	-0.2	n/a	n/a		1.001	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	394.4	392.0	-2.4				
AS-FOUND HIGH	40.10	5000	260	132.8	392.9	260.2	261.6	262.6	0.996	100.38%
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	155	238.3	390.7	152.4	156.1	154.8	1.008	99.17%
LOW	40.10	5000	55	337.6	389.9	52.3	56.8	54.7	1.038	96.30%
NO2 adjustment not required.									AVERAGE:	98.62%

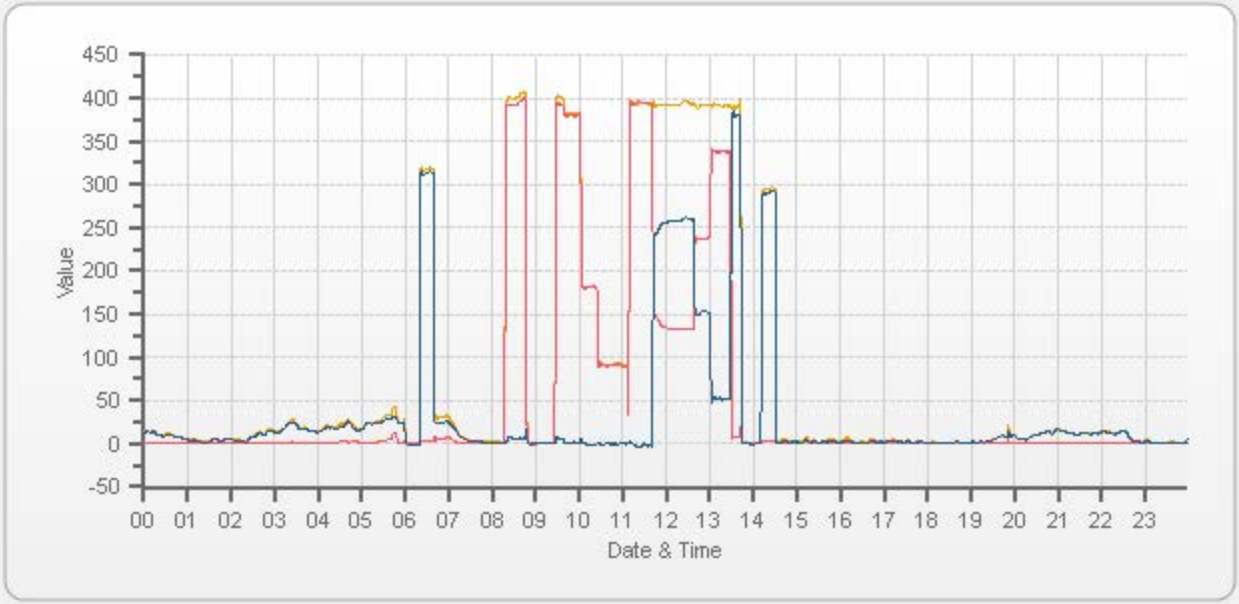
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.001	0.06%
NOx	1.000	1.001	-0.05%
NO2	1.000	1.015	-0.64%

COMMENTS:

10:48 = COMMS error. Low point restarted.
12:14-12:17 = UPS/power error. GPT AF restarted
Extra point for O3: Setpoint = 375, O3 conc = 385.2

Station: AQHI Grimshaw Daily: 05-04-2023 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	05-Apr-2023	PREVIOUS CALIBRATION DATE:	01-Mar-2023
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	938
PURPOSE	Routine	START TIME (MST):	13:52
PERFORMED BY:	Chris Wesson	END TIME (MST):	17:41

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	760
INITIAL		FINAL	
BKG/OFFSET	-1.5	BKG/OFFSET	-1.7
COEF/SLOPE	1.096	COEF/SLOPE	1.065
Expected (reference) Value	248	Expected (reference) Value	251.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	26701218	ID:	4568
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	05-Apr-2023	GPT END TIME:	13:51

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	-0.3	0.0		
5000		5000	385.2	400.2	385.0	0.962	1.001
5000		5000	156.1	n/a	156.2	n/a	0.999
5000		5000	56.8	n/a	56.0	n/a	1.014

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	-0.1%

COMMENTS:

Sample filter changed.
15:29 - 15:33 = LAN changes. Adjusted high restarts at 15:34


O3[ppb] Station: AQHI Grimshaw Daily: 05-04-2023 Type: AVG 1 Min. [1 Min.]
O3 [ppb]
450
400
350
300
250
200
150
100
50
0
-50
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:	05-Apr-2023	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	24.4
LOCATION:	Grimshaw	BAROMETRIC (mBar):	938
PURPOSE	Install/Post-Repair	START TIME (MST):	15:14
PERFORMED BY:	Chris Wesson	END TIME (MST):	17:41

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1090
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	75401122	ID:	4568	CYLINDER (psi):	600		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	n/a	n/a	n/a		9.86	11.12	20.98

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
2999		2999	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00						
2928	72.00	3000	14.59	13.40	27.99	n/a	n/a	n/a	14.60	13.41	28.01	n/a	n/a	n/a	0.999	0.999	0.999
2964	36.00	3000	7.30	6.70	14.00	n/a	n/a	n/a	7.33	6.62	13.95	n/a	n/a	n/a	0.995	1.012	1.003
2982	18.00	3000	3.65	3.35	7.00	n/a	n/a	n/a	3.67	3.25	6.93	n/a	n/a	n/a	0.994	1.031	1.010

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.1%
NMHC	1.000	1.003	-0.3%
THC	1.000	1.001	-0.1%

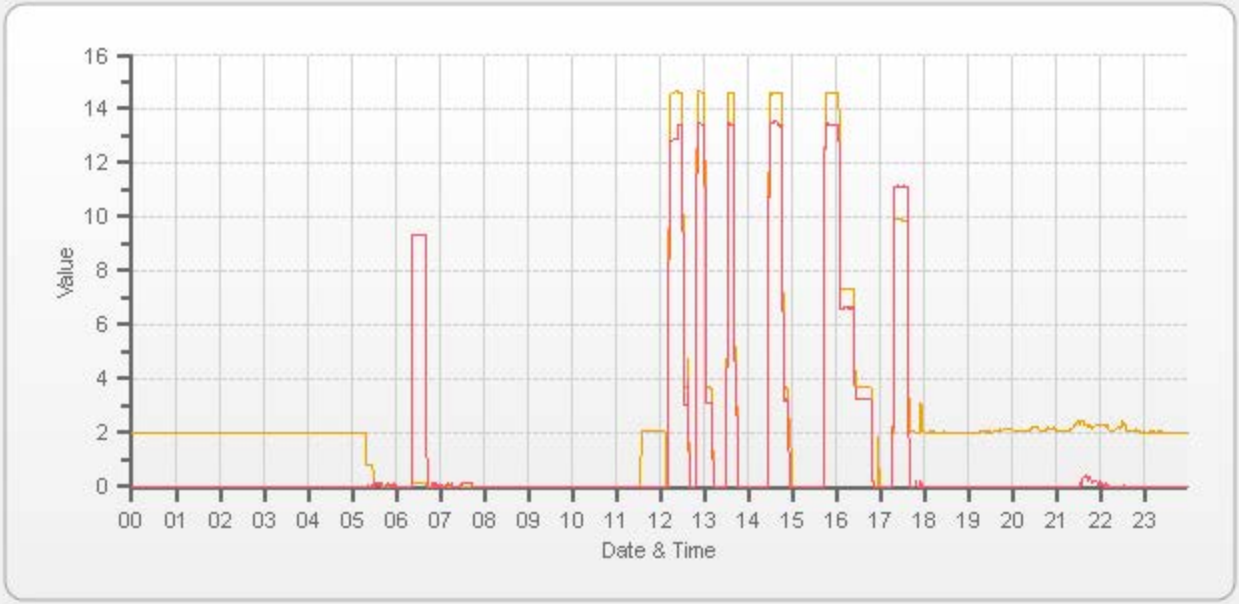
Comments:

H2 = AMA HG300 #190567059

Post-repair following maintenance

Use Zero Chrom? **No**

Station: AQHI Grimshaw Daily: 05-04-2023 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	08-Apr-2023	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	21.0
LOCATION:	Grimshaw	BAROMETRIC (mBar):	930
PURPOSE	Install/Post-Repair	START TIME (MST):	08:12
PERFORMED BY:	Chris Wesson	END TIME (MST):	10:31

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1090
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	75401122	ID:	4568	CYLINDER (psi):	600		LOW ID:	n/a
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	18-Aug-2029		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	n/a	n/a	n/a		9.86	11.12	20.98

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
2999		2999	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00						
2928	72.00	3000	14.59	13.40	27.99	n/a	n/a	n/a	14.60	13.39	27.99	n/a	n/a	n/a	0.999	1.001	1.000
2964	36.00	3000	7.30	6.70	14.00	n/a	n/a	n/a	7.31	6.70	14.01	n/a	n/a	n/a	0.998	1.000	0.999
2981	18.00	2999	3.65	3.35	7.00	n/a	n/a	n/a	3.66	3.35	7.01	n/a	n/a	n/a	0.997	1.000	0.999

LINEAR REGRESSION ANALYSIS:

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

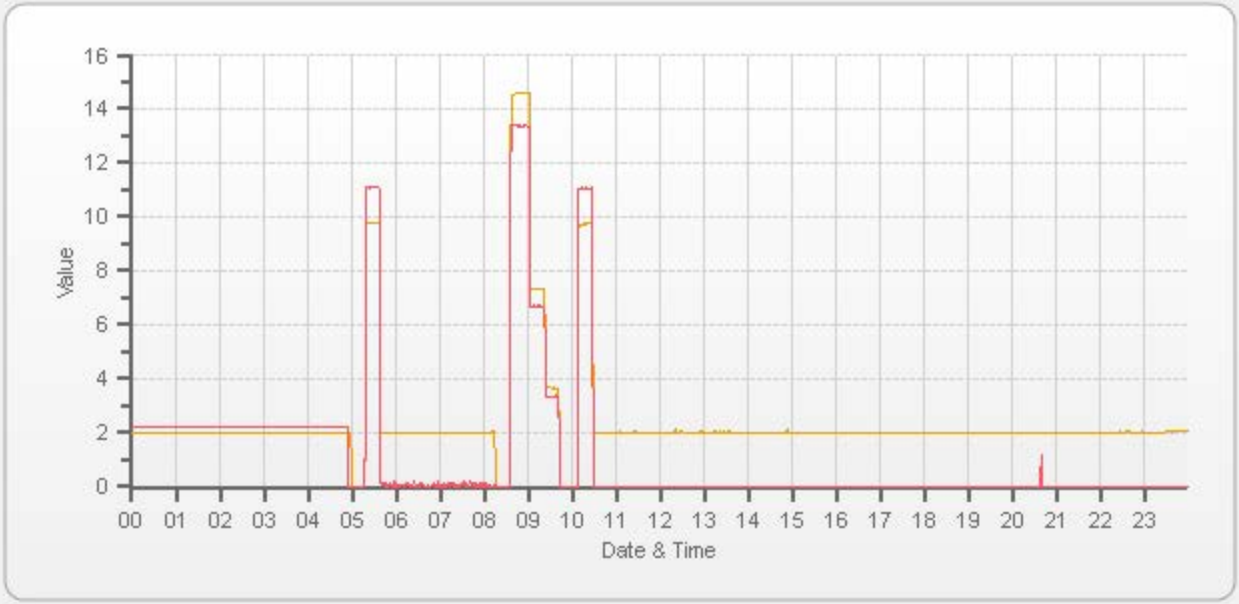
Comments:

H2 = AMA HG300 #190567059

Post-repair following maintenance

Use Zero Chrom? **No**

Station: AQHI Grimshaw Daily: 08-04-2023 Type: AVG 1 Min. [1 Min.]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	April 5, 2023	March 1, 2023	**Weather Conditions:**	Mainly sunny	
Company:	PRAMP		**Start Time (mst):**	13:59	
Station:	Grimshaw		**End Time (mst):**	14:51	
Parameter:	PM 2.5		**Performed By/Reviewer:**	Chris Wesson	Limin Li

Instrument Data:

Make/Model:	Teledyne T640	**Serial Number:**	318
Owner:	PRAMP	**Alarms (detail in comments):**	No

Reference Standards/I.D./Expiry Date:

Flow Standard: DeltaCal DC1 #206578, expires Sept 20, 2023 **Temperature:** DeltaCal DC1 #206578, expires Sept 20, 2023

Digital Manometer: DeltaCal DC1 #206578, expires Sept 20, 2023 **Pressure:** DeltaCal DC1 #206578, expires Sept 20, 2023

DIAGNOSTICS:

Ambient Pressure (mmHg)	702.6	Ambient Temp (°C)	5.0	ASC Heater Duty (%)	0.0
Box Temp (°C)	27.4	Current PMT HV (V)	1549	LED Temp (°C)	35.35
P3 Value	46	PMT Setting (V)	1554	Pump PWM (%)	40
Sample Flow (L/min)	5.01	Sample RH (%RH)	13.9	Sample Temp (°C)	25.3

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)	704.5	702.5	704.5	702.5	+/- 10 mm Hg
Ambient Temperature (°C)	4.80	5.5	n/a		+/- 2°C
Sample Flow (L/min)	5.15	5.01	5.02	5.05	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)

Additional Monthly Maintenance :	***Completed***
Inlet cleaned?	Yes
Sample tubing inspected (inner and outer)?	Yes

Comments:

KIT000386 required (heater cable)

Meteorological System Checklist

Date:	April 5, 2023		
Technician:	Chris Wesson		
Station:	PRAMP Grimshaw		
Unit:	**Make:**	**Model:**	**Serial #:**
Temperature Sensor:	Vaisala	HMP155	N2910506
Barometric Pressure Sensor:	MetOne	92	A2397
Relative Humidity Sensor:	Vaisala	HMP155	N2910506
Anemometer:	RM Young	05305AQ	174801
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	March 1, 2023		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 11745843 expires June 14, 2023		
Reference Temperature (°C):	1.9		
Station - Ambient Temperature (°C):	1.6		
Temperature Difference (°C):	0.3		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	March 1, 2023		
Reference Barometer ID:	DeltaCal DC1 #206578, expires Sept 20, 2023		
Reference Pressure - Units/Reading:	millibar	939	
Station Pressure - Units/Reading:	millibar	938.5	
Pressure Tolerance +/- 15% of error:	798 - 1080	0.05%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	January 19, 2023		
Reference Hygrometer ID:	F.S. 11745843 expires June 14, 2023		
Reference Hygrometer % RH- Reading:	55.60		
Station Hygrometer % RH- Reading:	58.60		
RH Tolerance +/- 15% of difference:	47.26 - 63.94	-5.4%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	March 1, 2023	Previous check date:	March 1, 2023
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	5.3	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	Bureau Veritas	**Performed By:**	Ferdinand Roy
Audit Location:	Grimshaw	**Reviewed By:**	Chris Wesson
Audit Date:	July 12, 2022	**Start/End Time (mst):**	13:57 / 16:52
Calibration Purpose:	routine annual	**Weather Conditions:**	Cloudy/Overcast

Wind Sensor Information

Sensor ID Data:		**Sensor Outputs:**	
Sensor Make:	RM Young	**Velocity Voltage Output Range:**	n/a
Sensor Model:	05305AQ	**Velocity Unit Output Range:**	0-200
Serial #:	174801	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	n/a	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18801 id# CA01648 expires August 6, 2022

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

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

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	354	0.2	0.8	0.5
30	330	27	331	3.3	-0.6	2.0
60	300	56	300	3.8	-0.3	2.1
90	270	87	268	2.8	1.9	2.3
120	240	117	236	3.3	4.0	3.7
150	210	147	204	2.6	5.6	4.1
180	180	177	175	3.3	4.6	4.0
210	150	207	145	3.1	4.8	4.0
240	120	238	115	2.4	5.0	3.7
270	90	270	85	0.3	5.1	2.7
300	60	300	57	-0.3	3.1	1.7
330	30	330	26	-0.3	3.6	2.0
355	0	354	0	0.8	0.1	0.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**2.5**

Comments:

Output via RMY32400 serial interface

Peace River Area Monitoring Program

APRIL 2023

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

CAL-PRAMP-202304-01698

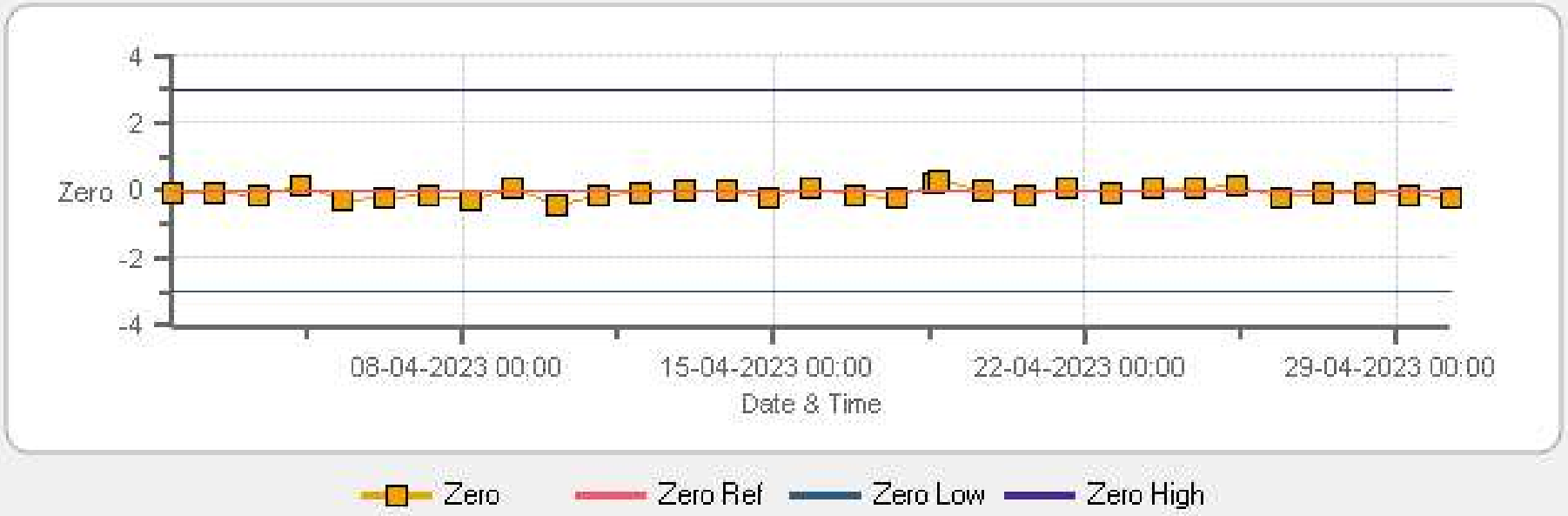
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

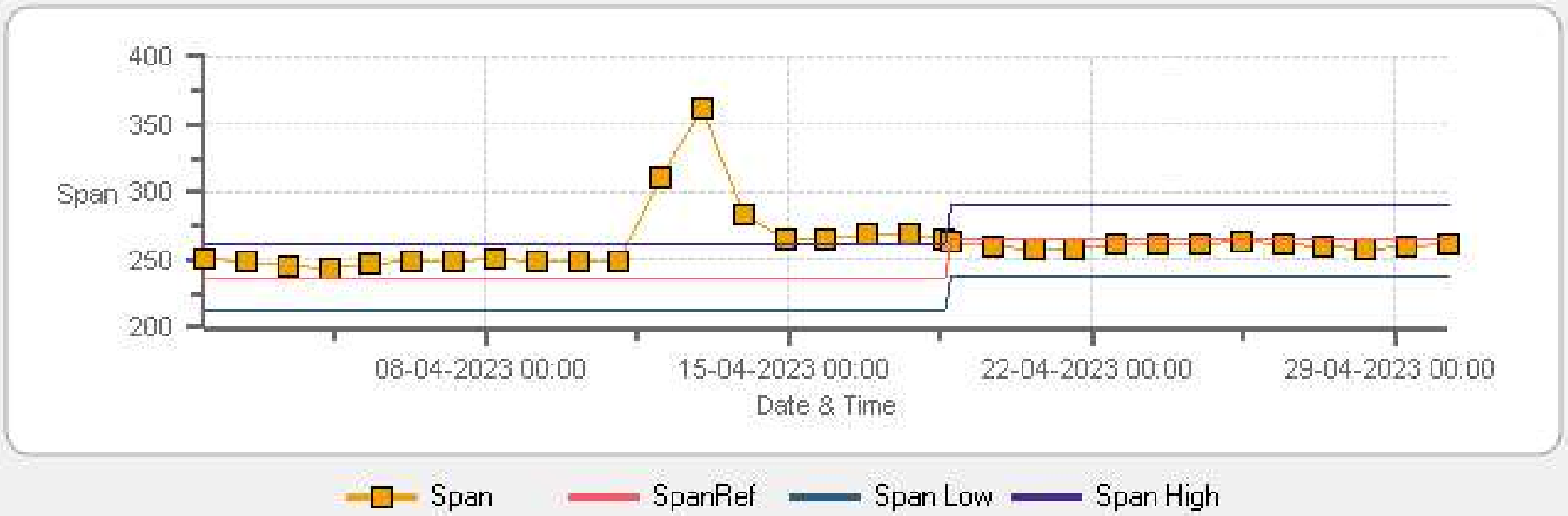
May 25, 2023

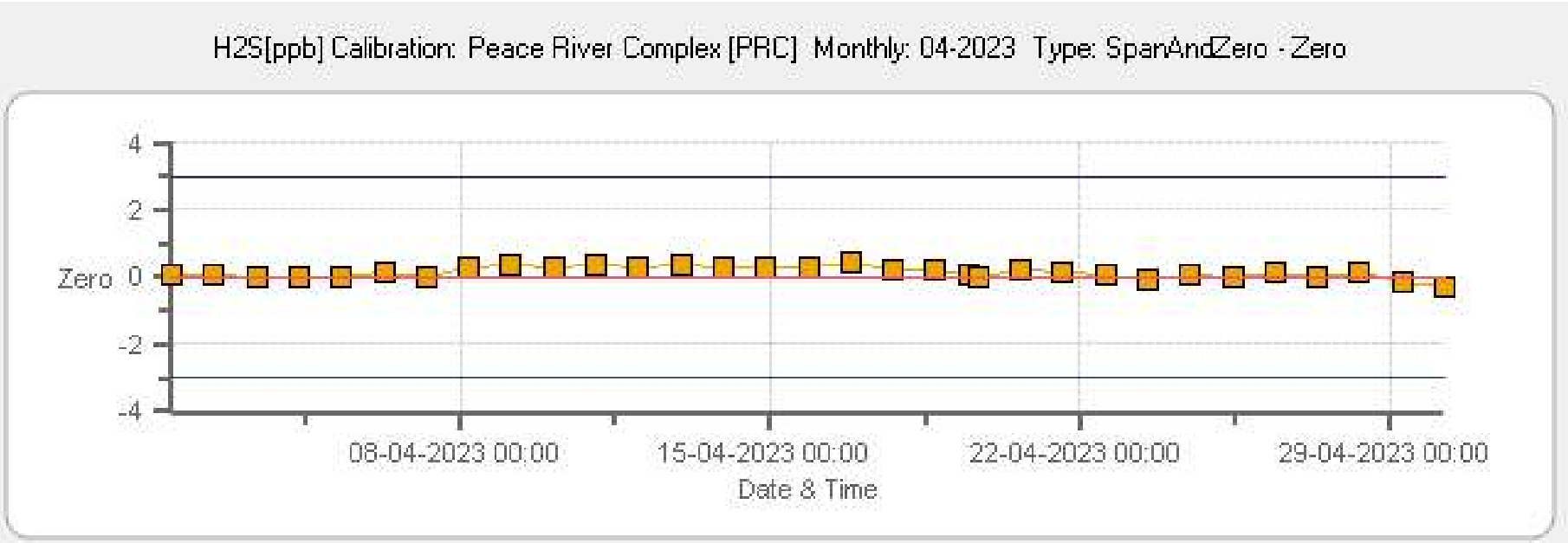
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

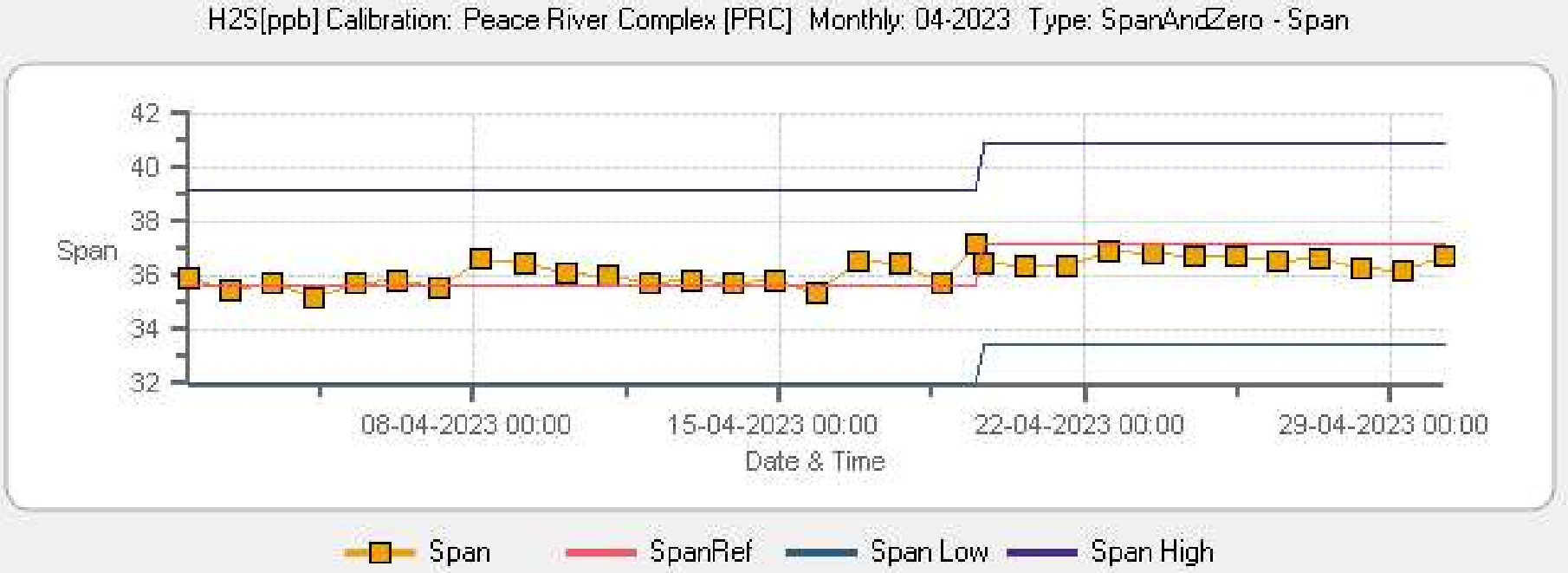
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Zero

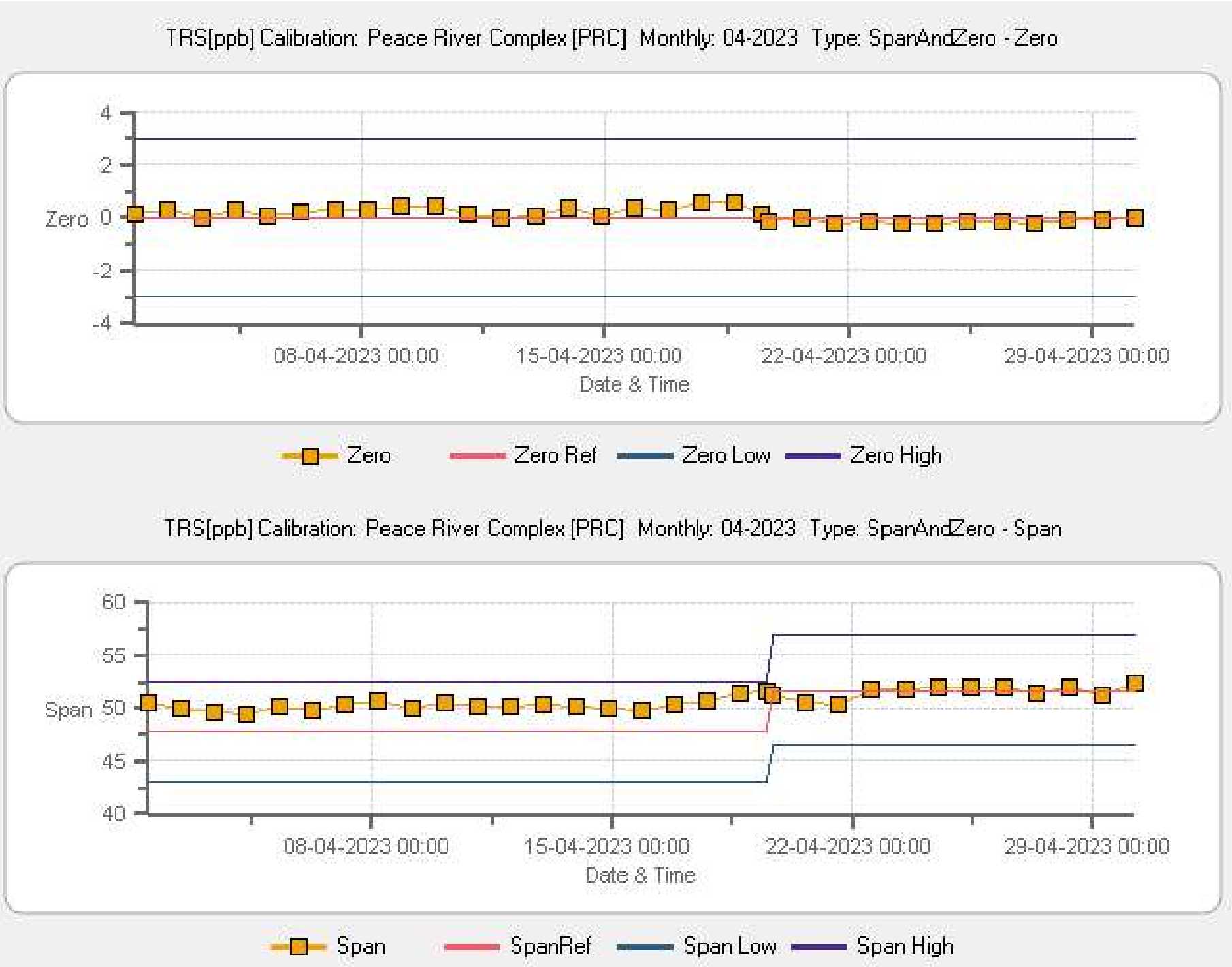


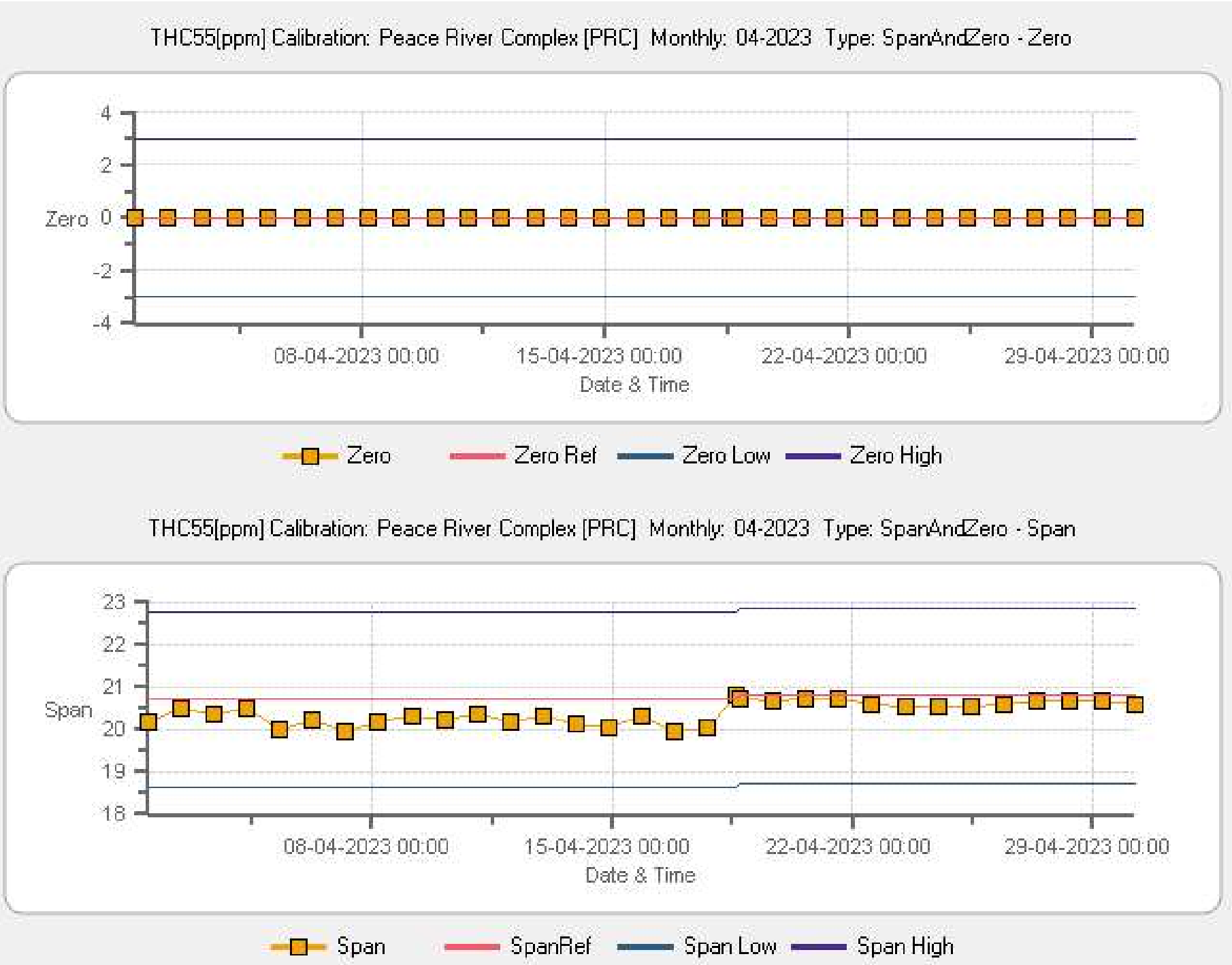
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Span



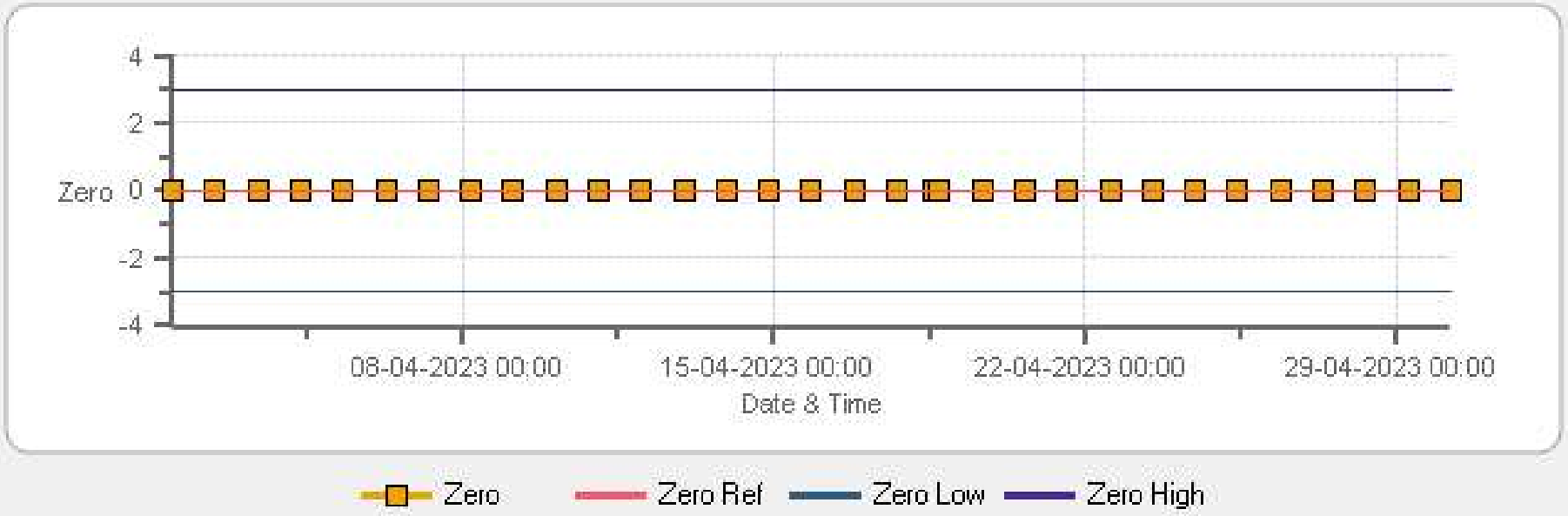

H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High


H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Span
42
40
38
Span
36
34
32
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

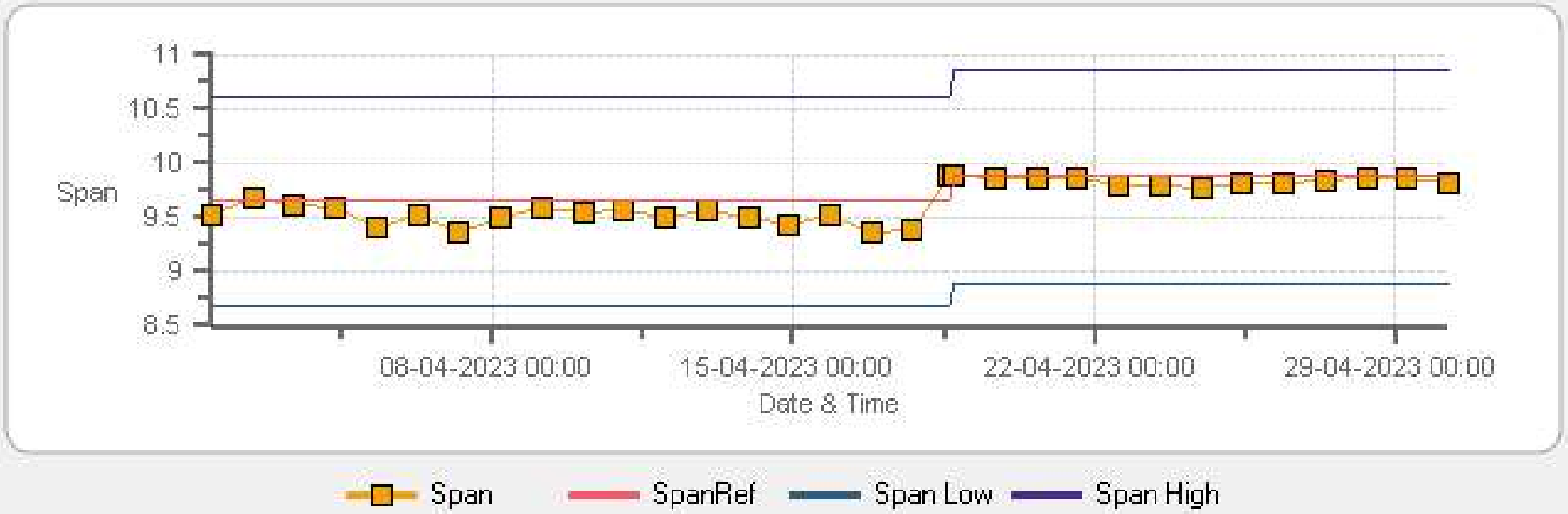

TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Span
60
55
Span 50
45
40
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

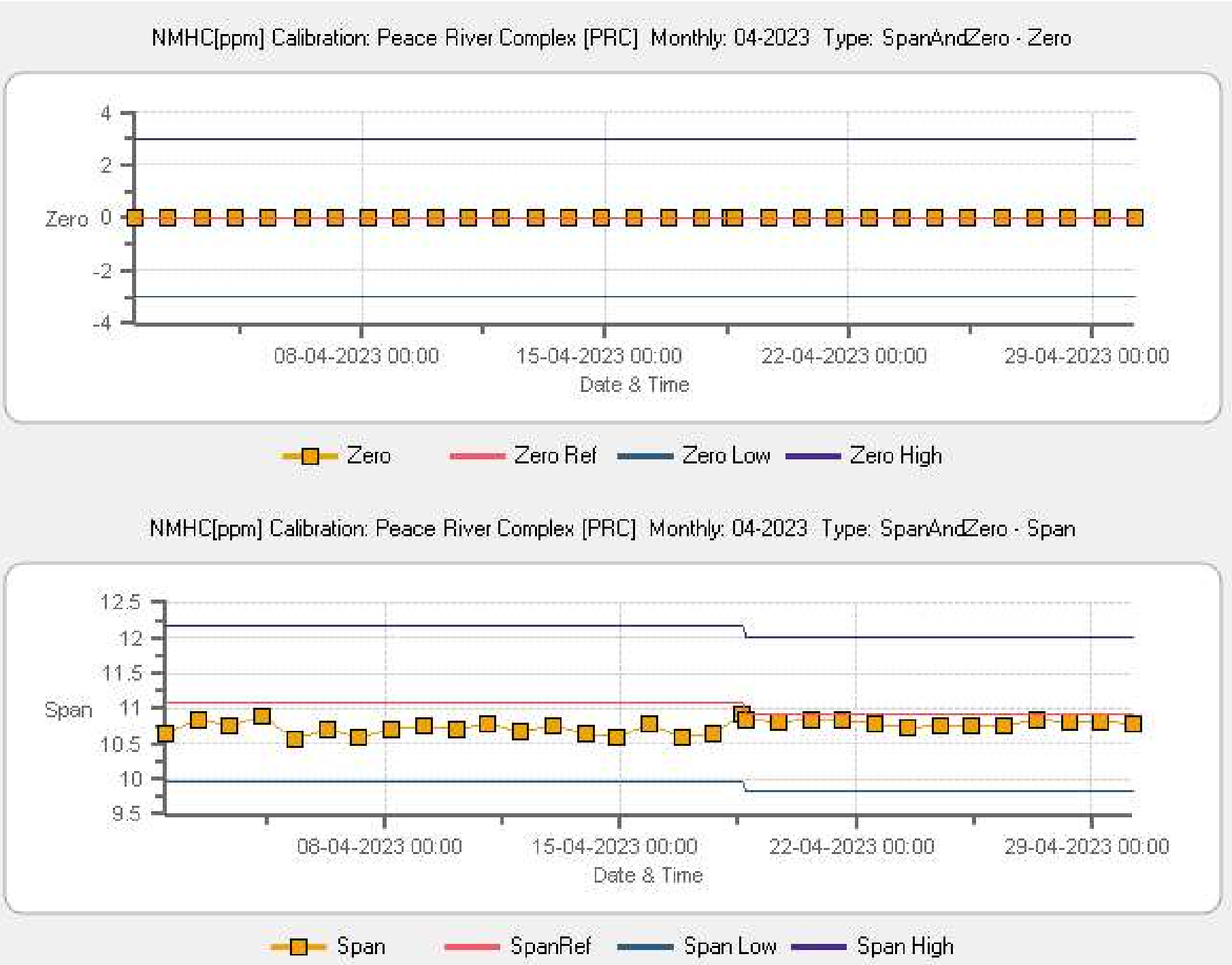

THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Span
23
22
21
Span
20
19
18
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Zero



CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Span




NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 04-2023 Type: SpanAndZero - Span
12.5
12
11.5
Span 11
10.5
10
9.5
08-04-2023 00:00
15-04-2023 00:00
22-04-2023 00:00
29-04-2023 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	18-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	23.4
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	934
PURPOSE	Routine	START TIME (MST):	10:04
PERFORMED BY:	Chris Wesson	END TIME (MST):	14:11

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	434
INITIAL		FINAL	
BKG/OFFSET	19.5	BKG/OFFSET	19.4
COEF/SLOPE	1.114	COEF/SLOPE	1.109
Expected (reference) Value	237.2	Expected (reference) Value	265

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001923	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	900	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	-0.1	0		
3939	60.60	4000	380.27	381	379.9	0.998	1.001
3971	28.70	4000	180.09	n/a	180.3	n/a	0.999
3985	14.30	3999	89.75	n/a	90	n/a	0.997

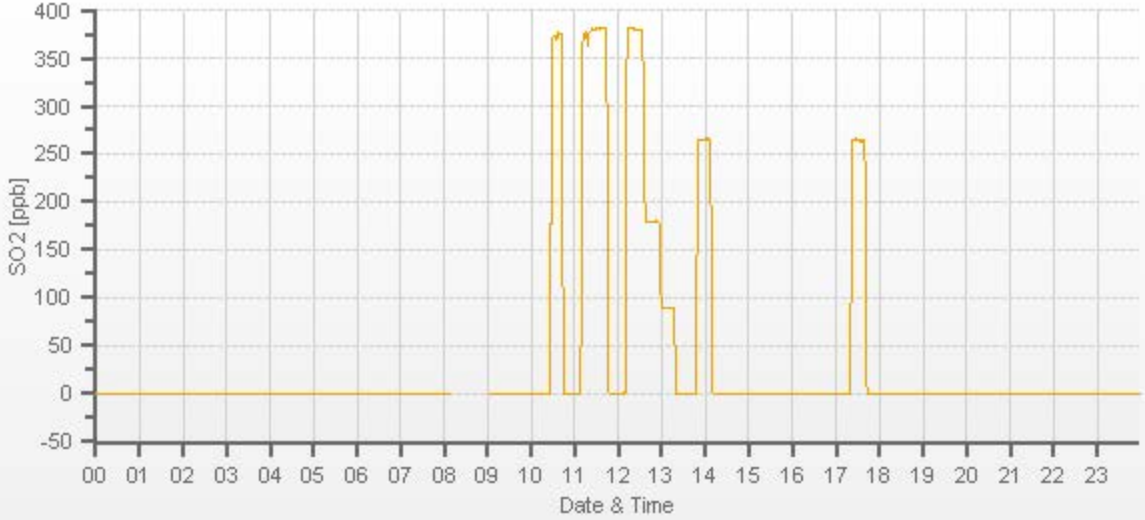
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.0%

COMMENTS:

Sample filter changed.
10:40-11:05 = calibration paused for TRS/H2S troubleshooting

SO2[ppb] Station: Peace River Complex [PRC] Daily: 18-04-2023 Type: AVG 1 Min. [1 Min.]



H2S Analyzer Calibration by Dilution

DATE:	19-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	1.009
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	945
PURPOSE	Routine	START TIME (MST):	08:11
PERFORMED BY:	Chris Wesson	END TIME (MST):	12:04

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	937
INITIAL		FINAL	
BKG/OFFSET	14	BKG/OFFSET	14.7
COEF/SLOPE	0.995	COEF/SLOPE	1.031
Expected (reference) Value	35.6	Expected (reference) Value	37.2

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	08:28	SO2 Conc (ppb)	380
END TIME:	08:43	Analyzer Response (ppb)	0.0

CALIBRATION:

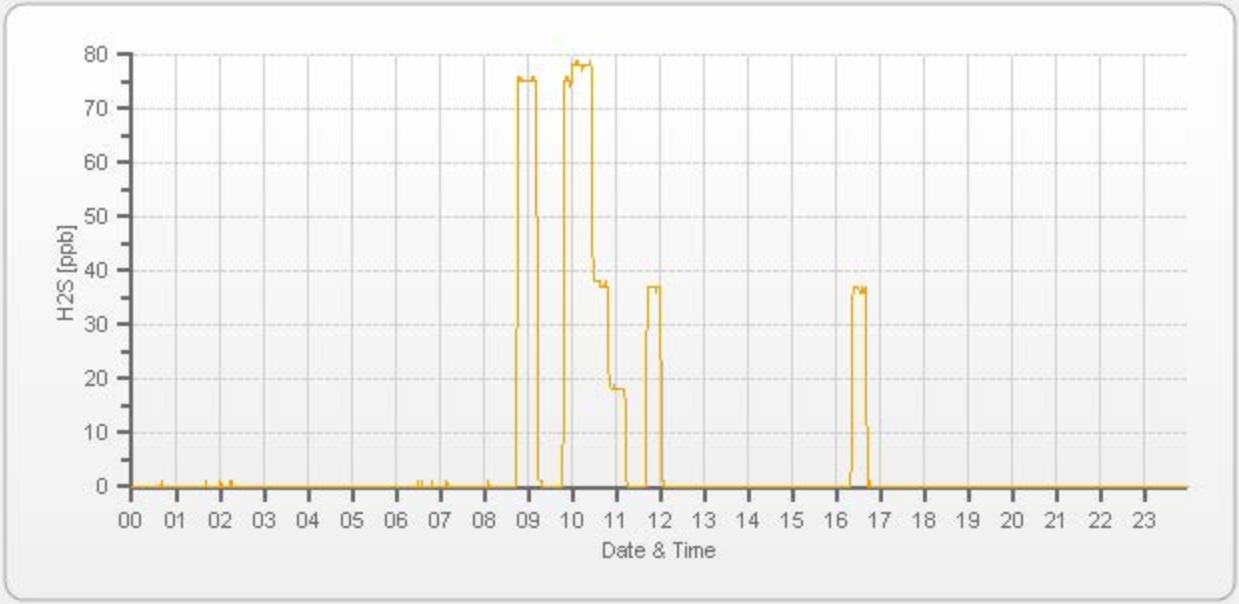
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.2	0		
3967	33.20	4000	78.10	75.7	78.3	1.034	0.997
3984	16.20	4000	38.11	n/a	37.2	n/a	1.024
3991	8.10	3999	19.06	n/a	18.2	n/a	1.047

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.005	-0.6%

COMMENTS:

Sample filter changed


H2S[ppb] Station: Peace River Complex [PRC] Daily: 19-04-2023 Type: AVG 1 Min. [1 Min.]
H2S [ppb]
0
10
20
30
40
50
60
70
80
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
H2S [ppb]

TRS Analyzer Calibration by Dilution

DATE:	19-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.003
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	945
PURPOSE	Routine	START TIME (MST):	08:10
PERFORMED BY:	Chris Wesson	END TIME (MST):	12:04

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	711
INITIAL		FINAL	
BKG/OFFSET	25.3	BKG/OFFSET	26.3
COEF/SLOPE	1.025	COEF/SLOPE	1.052
Expected (reference) Value	47.84	Expected (reference) Value	51.7

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	75401122	ID:	4568
MFC CALIBRATION DATE:	13-Mar-2023	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002519	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	08:28	SO2 Conc (ppb)	380
END TIME:	08:43	Analyzer Response (ppb)	0.1

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.54	0		
3967	33.20	4000	78.10	77	77.7	1.021	1.005
3984	16.20	4000	38.11	n/a	37.6	n/a	1.014
3991	8.10	3999	19.06	n/a	18.4	n/a	1.036

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.997	-0.3%

COMMENTS:

TRS Converter CDNOVA CDN-101 #506.

TRS[ppb] Station: Peace River Complex [PRC] Daily: 19-04-2023 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	18-Apr-2023	PREVIOUS CALIBRATION DATE:	22-Mar-2023
CLIENT:	PRAMP	TEMPERATURE (°C):	23.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	934
PURPOSE	Removal/Shut-down	START TIME (MST):	09:51
PERFORMED BY:	Chris Wesson	END TIME (MST):	11:31

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1022143392	1046
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.002	1.003	1.002

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	600		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	22-Dec-2028		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	9.65	11.07	20.72		n/a	n/a	n/a

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3099		3099	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a						
3025	74.40	3099	14.60	13.40	28.00	14.15	13.08	27.23	n/a	n/a	n/a	1.032	1.025	1.028	n/a	n/a	n/a
3063	37.20	3100	7.30	6.70	14.00	7.18	6.65	13.83	n/a	n/a	n/a	1.016	1.007	1.012	n/a	n/a	n/a
3079	18.60	3098	3.65	3.35	7.00	3.57	3.31	6.88	n/a	n/a	n/a	1.023	1.013	1.018	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	0.969	0.2%
NMHC	1.000	0.976	0.2%
THC	1.000	0.973	0.2%

Comments:

No issues

BV analyzer

Use Zero Chrom? **No**

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	18-Apr-2023	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.2
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	935
PURPOSE	Install/Post-Repair	START TIME (MST):	12:39
PERFORMED BY:	Chris Wesson	END TIME (MST):	15:13

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1034745845	1206
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	26701218	ID:	4568	CYLINDER (psi):	600		LOW ID:	n/a
MFC CALIBRATION DATE:	15-Mar-2023	OXIDIZER ID:	Internal	EXPIRY DATE	22-Dec-2028		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	9.65	11.07	20.72		9.88	10.92	20.80

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3099		3099	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00						
3025	74.40	3099	14.60	13.40	28.00	n/a	n/a	n/a	14.62	13.37	27.99	n/a	n/a	n/a	0.998	1.002	1.000
3063	37.20	3100	7.30	6.70	14.00	n/a	n/a	n/a	7.33	6.70	14.04	n/a	n/a	n/a	0.995	1.000	0.997
3080	18.60	3099	3.65	3.35	7.00	n/a	n/a	n/a	3.66	3.39	7.05	n/a	n/a	n/a	0.997	0.988	0.993

LINEAR REGRESSION ANALYSIS:

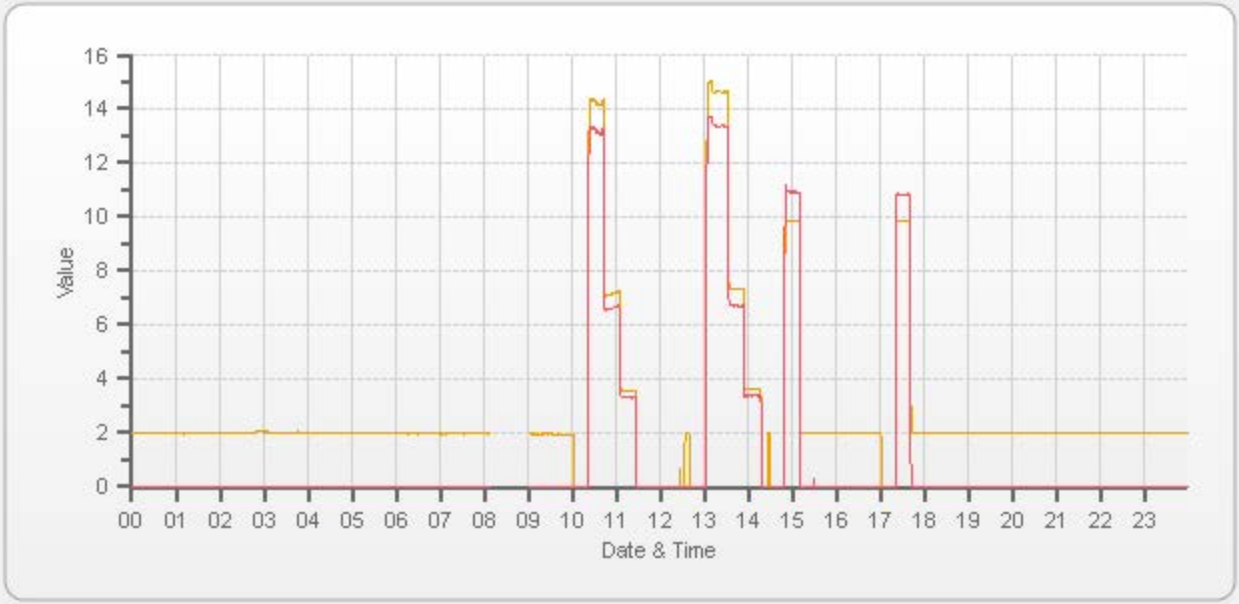
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.002	0.0%
NMHC	1.000	0.997	0.1%
THC	1.000	0.999	0.1%

Comments:

No issues

Use Zero Chrom? **No**

Station: Peace River Complex [PRC] Daily: 18-04-2023 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 18, 2023		
Technician:	Chris Wesson		
Station:	Peace River Compliance		
Unit:	**Make:**	**Model:**	**Serial #:**
Temperature Sensor:	Rotronic	HC2-S3	20558318
Barometric Pressure Sensor:	MetOne	092	B19577
Relative Humidity Sensor:	Rotronic	HC2-S3	20558318
Anemometer:	RM Young	05305VK	129612
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	March 22, 2023		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	FS #160459244 expires June 14, 2023		
Reference Temperature (^{o}C):	21.0		
Station - Ambient Temperature (^{o}C):	20.4		
Temperature Difference (^{o}C):	0.6		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	March 22, 2023		
Reference Barometer ID:	DeltaCal DC1 #206578 expires Sept 20, 2023		
Reference Pressure - Units/Reading:	millibar	934	
Station Pressure - Units/Reading:	millibar	935	
Pressure Tolerance +/- 15% of error:	794 - 1074	-0.11%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	March 22, 2023		
Reference Hygrometer ID:	FS #160459244 expires June 14, 2023		
Reference Hygrometer % RH- Reading:	40.48		
Station Hygrometer % RH- Reading:	42.60		
RH Tolerance +/- 15% of difference:	34.41 - 46.55	-5.2%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	March 22, 2023	Previous check date:	March 22, 2023
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	1.1	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

No issues.

Meteorological Sensor Audit/Calibration

Location Information

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

Wind Sensor Information

Sensor ID Data:		**Sensor Outputs:**	
Sensor Make:	RM Young	**Velocity Voltage Output Range:**	0-1
Sensor Model:	05305VK	**Velocity Unit Output Range:**	0-200
Serial #:	129612	**Direction Voltage Output Range:**	0-1
Previous Cal/Audit Date:	June 16, 2021	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

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

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

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.1	0.1	-
1000	18.4	18.5	18.5	0.996
2000	36.9	36.9	37.0	0.998
3000	55.3	55.4	55.4	0.998
4000	73.7	73.9	73.9	0.998
5000	92.2	92.4	92.4	0.997
6000	110.6	110.9	110.9	0.997
7000	129.0	129.5	129.5	0.996
8000	147.4	148.0	148.0	0.996
9000	165.9	166.6	166.6	0.996
10000	184.3	185.1	185.2	0.995
		The audit meets AMD requirements.	**Average Correction Factor=**	**0.997**

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	1	354	1.0	1.0	1.0
30	330	29	329	1.0	1.0	1.0
60	300	59	300	1.0	0.0	0.5
90	270	89	271	1.0	-1.0	1.0
120	240	119	241	1.0	-1.0	1.0
150	210	151	212	-1.0	-2.0	1.5
180	180	181	181	-1.0	-1.0	1.0
210	150	211	151	-1.0	-1.0	1.0
240	120	241	120	-1.0	0.0	0.5
270	90	271	89	-1.0	1.0	1.0
300	60	300	59	0.0	1.0	0.5
330	30	329	29	1.0	1.0	1.0
355	0	354	1	1.0	1.0	1.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**0.9**

Comments:

Physical inspection completed - no issues.

List of SOPs

MONITOR	SOP
SULPHUR DIOXIDE (SO_2)	Bureau Veritas EMS SOP-00209: Ambient Sulphur Monitoring
HYDROGEN SULPHIDE (H_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

APRIL 2023

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202304-INTEGRATED

May 26, 2023

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Peace River Area Monitoring Program
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Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: pramptech@prampairshed.ca
www.prampairshed.ca

May 26, 2023

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

RE: PRAMP –April 2023 Monthly Ambient Air Quality Monitoring Integrated Sampling Report

Enclosed is the April 2023 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	AEP	AEP
Passives: H_2S, SO_2	PRAMP	Bureau Veritas	PRAMP	PRAMP

Monitoring Notes during the Month of April 2023

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

- **Passive Polycyclic Aromatic Compounds (PACs) Sampling Program**
  - The PAC sampling program began in December 2019, and is designed to collect a 2-month integrated sample.
  - The sample media for sampling period of March - April was installed on February 28, and was removed on April 30. The sample media for sampling period of May - June were installed at the time when the media for March – April were removed.

- **Passives H_2S, SO_2 Sampling Program**
  - The passive sample filters were installed at the stations on March 31 and were removed on May 1.

Revisions to Alberta's Ambient Air Quality Data Warehouse

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

Deviations from Authorized Monitoring Methods

There were no deviations from authorized monitoring methods.

Certification

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

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

May 26, 2023

INTEGRATED SAMPLING RESULTS SUMMARY

- **NMHC analytical results**
  No canister events were recorded this month.

- **Passive analytical results**

	H_2S		SO_2	
Minimum (ppb)	0.05	#9	0.2	#1
Maximum (ppb)	0.17	#14	0.4	#4
Average (ppb)	0.09		0.23	

ANALYTICAL SAMPLING RESULTS

Passives

peace river area monitoring program pramp

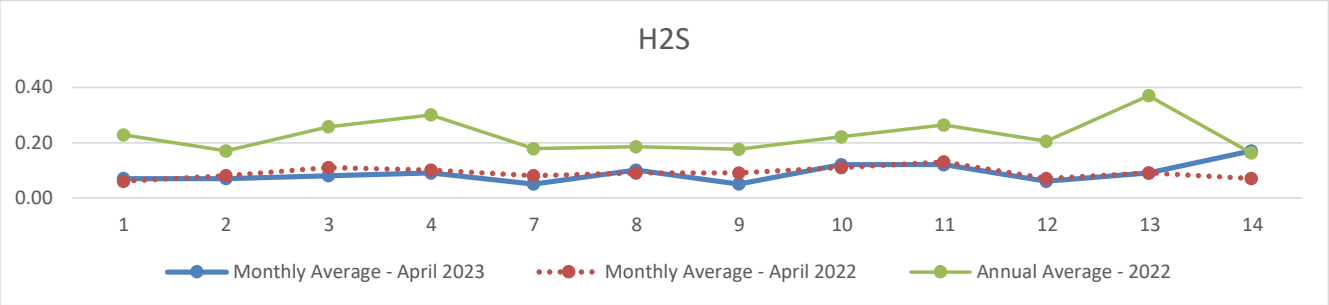
PEACE RIVER AREA MONITORING PROGRAM

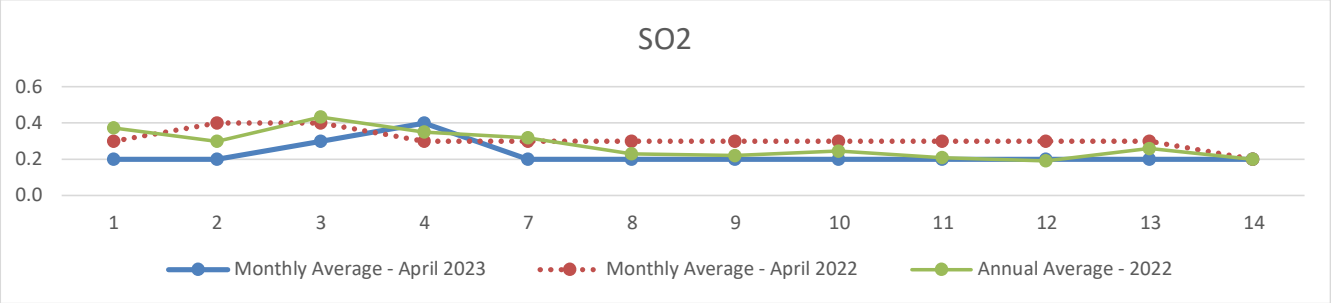
PRC Site - April 2023

Passive Results

	H_2S		SO_2	
Minimum (ppb)	0.05	#9	0.2	#1
Maximum (ppb)	0.17	#14	0.4	#4
Average (ppb)	0.09	-	0.23	-

No.	Calculated Value	Calculated Value
1	0.07	0.2
2	0.07	0.2
3	0.08	0.3
4	0.09	0.4
7	0.05	0.2
8	0.10	0.2
9	0.05	0.2
10	0.12	0.2
11	0.12	0.2
12	0.06	0.2
13	0.09	0.2
14	0.17	0.2
Reportable Detection Limit (RDL)	**0.02**	**0.1**





End of Report

Peace River Area Monitoring Program

APRIL 2023

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202304

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

May 25, 2023

Table of Contents

Passive Sampling Analytical Results

6744 - 50 St. Edmonton AB Canada T6B 3M9

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

Bureau Veritas Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Invoice To	Report To	Service Requested	Company Name / Project Name/LSD
Company Name	Name & Email Address	☐ RUSH (Please contact for TAT)	Company Name: Peace River
Contact Name		☐ REGULAR	Project Name/LSD: Peace River
Address			
City/Postal Code			
Phone/Fax#			

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	31/03/23	8:00AM	01/05/23	7:00		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				9:30		X	X											
Blank						X	X											
Blank		11:00				X	X											

Notes/Comments: Client 12521 / Scenario 18009

Sampled By Russell HAggeTT Phone/Email 618-1880 Received By Russell HAggeT Date/Time 31/03/23 Project #

Date Shipped Signature 1450₂ 14H₂S PO# AB 23-05-05

PTC FCD-00457/4

07:30

Your Project #: 2023/03/31 - 2023/05/01
Site Location: PEACE RIVER COMPLEX

Attention: Michael and Lily

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

Report Date: 2023/05/16
Report #: R3336360
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C331847
Received: 2023/05/05, 07:30

Sample Matrix: Air
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	12	2023/05/12	2023/05/15	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	12	2023/05/09	2023/05/15	PTC SOP-00149	Passive SO2 in ATM

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

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

Encryption Key

Belma Elefante
Customer Service Associate
16 May 2023 11:05:01

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

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.

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

Bureau Veritas Job #: C331847
Report Date: 2023/05/16

Peace River Area Monitoring Program Committee
Client Project #: 2023/03/31 - 2023/05/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: RH

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		BPX943	BPX944	BPX945	BPX946	BPX947	BPX948	BPX949		
Sampling Date		2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.07	0.07	0.08	0.09	0.05	0.10	0.05	0.02	A960140
Calculated SO2	ppb	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.1	A956672
RDL = Reportable Detection Limit										

Bureau Veritas ID		BPX950	BPX951	BPX952	BPX953	BPX954		
Sampling Date		2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00	2023/03/31 08:00		
	UNITS	10	11	12	13	14	RDL	QC Batch
Passive Monitoring								
Calculated H2S	ppb	0.12	0.12	0.06	0.09	0.17	0.02	A960140
Calculated SO2	ppb	0.2	0.2	0.2	0.2	0.2	0.1	A956672
RDL = Reportable Detection Limit								

GENERAL COMMENTS

Results relate only to the items tested.

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Bureau Veritas Job #: C331847
Report Date: 2023/05/16

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Site Location: PEACE RIVER COMPLEX
Sampler Initials: RH

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A956672	OZ	Spiked Blank	Calculated SO2			99	%	90 - 110
A956672	OZ	Method Blank	Calculated SO2		<0.1		ppb	
A960140	YYA	Spiked Blank	Calculated H2S			102	%	90 - 110

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

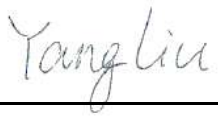
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Bureau Veritas Job #: C331847
Report Date: 2023/05/16

Peace River Area Monitoring Program Committee
Client Project #: 2023/03/31 - 2023/05/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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



Yang Liu, Analyst II

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End of Report